



Red Hat OpenStack Platform 16.0

Command Line Interface Reference

Command-line clients for Red Hat OpenStack Platform

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Abstract

A reference to the commands available to the unified OpenStack command-line client.

Table of Contents

PREFACE	26
CHAPTER 1. THE OPENSTACK CLIENT	27
CHAPTER 2. ACCESS	40
2.1. ACCESS TOKEN CREATE	40
CHAPTER 3. ACL	42
3.1. ACL DELETE	42
3.2. ACL GET	42
3.3. ACL SUBMIT	43
3.4. ACL USER ADD	45
3.5. ACL USER REMOVE	47
CHAPTER 4. ACTION	49
4.1. ACTION DEFINITION CREATE	49
4.2. ACTION DEFINITION DEFINITION SHOW	50
4.3. ACTION DEFINITION DELETE	51
4.4. ACTION DEFINITION LIST	51
4.5. ACTION DEFINITION SHOW	53
4.6. ACTION DEFINITION UPDATE	54
4.7. ACTION EXECUTION DELETE	56
4.8. ACTION EXECUTION INPUT SHOW	57
4.9. ACTION EXECUTION LIST	57
4.10. ACTION EXECUTION OUTPUT SHOW	59
4.11. ACTION EXECUTION RUN	60
4.12. ACTION EXECUTION SHOW	61
4.13. ACTION EXECUTION UPDATE	62
CHAPTER 5. ADDRESS	65
5.1. ADDRESS SCOPE CREATE	65
5.2. ADDRESS SCOPE DELETE	66
5.3. ADDRESS SCOPE LIST	67
5.4. ADDRESS SCOPE SET	68
5.5. ADDRESS SCOPE SHOW	69
CHAPTER 6. AGGREGATE	71
6.1. AGGREGATE ADD HOST	71
6.2. AGGREGATE CREATE	72
6.3. AGGREGATE DELETE	73
6.4. AGGREGATE LIST	74
6.5. AGGREGATE REMOVE HOST	75
6.6. AGGREGATE SET	76
6.7. AGGREGATE SHOW	77
6.8. AGGREGATE UNSET	78
CHAPTER 7. ALARM	80
7.1. ALARM CREATE	80
7.2. ALARM DELETE	83
7.3. ALARM-HISTORY SEARCH	84
7.4. ALARM-HISTORY SHOW	85
7.5. ALARM LIST	87
7.6. ALARM SHOW	88

7.7. ALARM STATE GET	90
7.8. ALARM STATE SET	91
7.9. ALARM UPDATE	92
CHAPTER 8. ALARMING	97
8.1. ALARMING CAPABILITIES LIST	97
CHAPTER 9. APPLICATION	99
9.1. APPLICATION CREDENTIAL CREATE	99
9.2. APPLICATION CREDENTIAL DELETE	101
9.3. APPLICATION CREDENTIAL LIST	101
9.4. APPLICATION CREDENTIAL SHOW	102
CHAPTER 10. AVAILABILITY	105
10.1. AVAILABILITY ZONE LIST	105
CHAPTER 11. BAREMETAL	107
11.1. BAREMETAL ALLOCATION CREATE	107
11.2. BAREMETAL ALLOCATION DELETE	108
11.3. BAREMETAL ALLOCATION LIST	109
11.4. BAREMETAL ALLOCATION SET	111
11.5. BAREMETAL ALLOCATION SHOW	112
11.6. BAREMETAL ALLOCATION UNSET	113
11.7. BAREMETAL CHASSIS CREATE	114
11.8. BAREMETAL CHASSIS DELETE	115
11.9. BAREMETAL CHASSIS LIST	115
11.10. BAREMETAL CHASSIS SET	117
11.11. BAREMETAL CHASSIS SHOW	118
11.12. BAREMETAL CHASSIS UNSET	119
11.13. BAREMETAL CONDUCTOR LIST	120
11.14. BAREMETAL CONDUCTOR SHOW	122
11.15. BAREMETAL CREATE	123
11.16. BAREMETAL DEPLOY TEMPLATE CREATE	123
11.17. BAREMETAL DEPLOY TEMPLATE DELETE	125
11.18. BAREMETAL DEPLOY TEMPLATE LIST	126
11.19. BAREMETAL DEPLOY TEMPLATE SET	127
11.20. BAREMETAL DEPLOY TEMPLATE SHOW	128
11.21. BAREMETAL DEPLOY TEMPLATE UNSET	129
11.22. BAREMETAL DRIVER LIST	130
11.23. BAREMETAL DRIVER PASSTHRU CALL	131
11.24. BAREMETAL DRIVER PASSTHRU LIST	133
11.25. BAREMETAL DRIVER PROPERTY LIST	134
11.26. BAREMETAL DRIVER RAID PROPERTY LIST	136
11.27. BAREMETAL DRIVER SHOW	137
11.28. BAREMETAL INTROSPECTION ABORT	139
11.29. BAREMETAL INTROSPECTION DATA SAVE	139
11.30. BAREMETAL INTROSPECTION INTERFACE LIST	140
11.31. BAREMETAL INTROSPECTION INTERFACE SHOW	141
11.32. BAREMETAL INTROSPECTION LIST	143
11.33. BAREMETAL INTROSPECTION REPROCESS	144
11.34. BAREMETAL INTROSPECTION RULE DELETE	145
11.35. BAREMETAL INTROSPECTION RULE IMPORT	145
11.36. BAREMETAL INTROSPECTION RULE LIST	147
11.37. BAREMETAL INTROSPECTION RULE PURGE	148

11.38. BAREMETAL INTROSPECTION RULE SHOW	148
11.39. BAREMETAL INTROSPECTION START	150
11.40. BAREMETAL INTROSPECTION STATUS	151
11.41. BAREMETAL NODE ABORT	153
11.42. BAREMETAL NODE ADD TRAIT	153
11.43. BAREMETAL NODE ADOPT	154
11.44. BAREMETAL NODE BIOS SETTING LIST	154
11.45. BAREMETAL NODE BIOS SETTING SHOW	156
11.46. BAREMETAL NODE BOOT DEVICE SET	157
11.47. BAREMETAL NODE BOOT DEVICE SHOW	158
11.48. BAREMETAL NODE CLEAN	159
11.49. BAREMETAL NODE CONSOLE DISABLE	160
11.50. BAREMETAL NODE CONSOLE ENABLE	160
11.51. BAREMETAL NODE CONSOLE SHOW	161
11.52. BAREMETAL NODE CREATE	162
11.53. BAREMETAL NODE DELETE	165
11.54. BAREMETAL NODE DEPLOY	165
11.55. BAREMETAL NODE INJECT NMI	166
11.56. BAREMETAL NODE INSPECT	167
11.57. BAREMETAL NODE LIST	167
11.58. BAREMETAL NODE MAINTENANCE SET	170
11.59. BAREMETAL NODE MAINTENANCE UNSET	170
11.60. BAREMETAL NODE MANAGE	171
11.61. BAREMETAL NODE PASSTHRU CALL	171
11.62. BAREMETAL NODE PASSTHRU LIST	172
11.63. BAREMETAL NODE POWER OFF	173
11.64. BAREMETAL NODE POWER ON	174
11.65. BAREMETAL NODE PROVIDE	175
11.66. BAREMETAL NODE REBOOT	175
11.67. BAREMETAL NODE REBUILD	176
11.68. BAREMETAL NODE REMOVE TRAIT	176
11.69. BAREMETAL NODE RESCUE	177
11.70. BAREMETAL NODE SET	178
11.71. BAREMETAL NODE SHOW	181
11.72. BAREMETAL NODE TRAIT LIST	182
11.73. BAREMETAL NODE UNDEPLOY	184
11.74. BAREMETAL NODE UNRESCUE	184
11.75. BAREMETAL NODE UNSET	185
11.76. BAREMETAL NODE VALIDATE	187
11.77. BAREMETAL NODE VIF ATTACH	188
11.78. BAREMETAL NODE VIF DETACH	189
11.79. BAREMETAL NODE VIF LIST	189
11.80. BAREMETAL PORT CREATE	191
11.81. BAREMETAL PORT DELETE	193
11.82. BAREMETAL PORT GROUP CREATE	193
11.83. BAREMETAL PORT GROUP DELETE	195
11.84. BAREMETAL PORT GROUP LIST	196
11.85. BAREMETAL PORT GROUP SET	198
11.86. BAREMETAL PORT GROUP SHOW	199
11.87. BAREMETAL PORT GROUP UNSET	200
11.88. BAREMETAL PORT LIST	201
11.89. BAREMETAL PORT SET	203
11.90. BAREMETAL PORT SHOW	204

11.91. BAREMETAL PORT UNSET	206
11.92. BAREMETAL VOLUME CONNECTOR CREATE	206
11.93. BAREMETAL VOLUME CONNECTOR DELETE	208
11.94. BAREMETAL VOLUME CONNECTOR LIST	208
11.95. BAREMETAL VOLUME CONNECTOR SET	210
11.96. BAREMETAL VOLUME CONNECTOR SHOW	211
11.97. BAREMETAL VOLUME CONNECTOR UNSET	212
11.98. BAREMETAL VOLUME TARGET CREATE	213
11.99. BAREMETAL VOLUME TARGET DELETE	215
11.100. BAREMETAL VOLUME TARGET LIST	215
11.101. BAREMETAL VOLUME TARGET SET	217
11.102. BAREMETAL VOLUME TARGET SHOW	218
11.103. BAREMETAL VOLUME TARGET UNSET	219
CHAPTER 12. BGP	221
12.1. BGP DRAGENT ADD SPEAKER	221
12.2. BGP DRAGENT REMOVE SPEAKER	221
12.3. BGP PEER CREATE	221
12.4. BGP PEER DELETE	223
12.5. BGP PEER LIST	224
12.6. BGP PEER SET	225
12.7. BGP PEER SHOW	225
12.8. BGP SPEAKER ADD NETWORK	227
12.9. BGP SPEAKER ADD PEER	227
12.10. BGP SPEAKER CREATE	228
12.11. BGP SPEAKER DELETE	230
12.12. BGP SPEAKER LIST ADVERTISED ROUTES	230
12.13. BGP SPEAKER LIST	232
12.14. BGP SPEAKER REMOVE NETWORK	233
12.15. BGP SPEAKER REMOVE PEER	234
12.16. BGP SPEAKER SET	234
12.17. BGP SPEAKER SHOW DRAGENTS	235
12.18. BGP SPEAKER SHOW	236
CHAPTER 13. BGPVPN	239
13.1. BGPVPN CREATE	239
13.2. BGPVPN DELETE	241
13.3. BGPVPN LIST	241
13.4. BGPVPN NETWORK ASSOCIATION CREATE	243
13.5. BGPVPN NETWORK ASSOCIATION DELETE	244
13.6. BGPVPN NETWORK ASSOCIATION LIST	245
13.7. BGPVPN NETWORK ASSOCIATION SHOW	246
13.8. BGPVPN PORT ASSOCIATION CREATE	248
13.9. BGPVPN PORT ASSOCIATION DELETE	250
13.10. BGPVPN PORT ASSOCIATION LIST	250
13.11. BGPVPN PORT ASSOCIATION SET	252
13.12. BGPVPN PORT ASSOCIATION SHOW	253
13.13. BGPVPN PORT ASSOCIATION UNSET	254
13.14. BGPVPN ROUTER ASSOCIATION CREATE	255
13.15. BGPVPN ROUTER ASSOCIATION DELETE	257
13.16. BGPVPN ROUTER ASSOCIATION LIST	257
13.17. BGPVPN ROUTER ASSOCIATION SET	259
13.18. BGPVPN ROUTER ASSOCIATION SHOW	260

13.19. BGPVPN ROUTER ASSOCIATION UNSET	261
13.20. BGPVPN SET	262
13.21. BGPVPN SHOW	263
13.22. BGPVPN UNSET	264
CHAPTER 14. CA	266
14.1. CA GET	266
14.2. CA LIST	267
CHAPTER 15. CATALOG	269
15.1. CATALOG LIST	269
15.2. CATALOG SHOW	270
CHAPTER 16. COE	272
16.1. COE CA ROTATE	272
16.2. COE CA SHOW	272
16.3. COE CA SIGN	272
16.4. COE CLUSTER CONFIG	273
16.5. COE CLUSTER CREATE	274
16.6. COE CLUSTER DELETE	275
16.7. COE CLUSTER LIST	276
16.8. COE CLUSTER RESIZE	277
16.9. COE CLUSTER SHOW	278
16.10. COE CLUSTER TEMPLATE CREATE	279
16.11. COE CLUSTER TEMPLATE DELETE	282
16.12. COE CLUSTER TEMPLATE LIST	283
16.13. COE CLUSTER TEMPLATE SHOW	285
16.14. COE CLUSTER TEMPLATE UPDATE	286
16.15. COE CLUSTER UPDATE	287
16.16. COE CLUSTER UPGRADE	288
16.17. COE NODEGROUP LIST	288
16.18. COE NODEGROUP SHOW	290
16.19. COE QUOTAS CREATE	291
16.20. COE QUOTAS DELETE	292
16.21. COE QUOTAS LIST	292
16.22. COE QUOTAS SHOW	293
16.23. COE QUOTAS UPDATE	293
16.24. COE SERVICE LIST	294
16.25. COE STATS LIST	295
CHAPTER 17. COMMAND	296
17.1. COMMAND LIST	296
CHAPTER 18. COMPLETE.ADOC	298
18.1. COMPLETE	298
CHAPTER 19. COMPUTE	299
19.1. COMPUTE AGENT CREATE	299
19.2. COMPUTE AGENT DELETE	300
19.3. COMPUTE AGENT LIST	300
19.4. COMPUTE AGENT SET	302
19.5. COMPUTE SERVICE DELETE	302
19.6. COMPUTE SERVICE LIST	303
19.7. COMPUTE SERVICE SET	304

CHAPTER 20. CONFIGURATION	306
20.1. CONFIGURATION SHOW	306
CHAPTER 21. CONSISTENCY	308
21.1. CONSISTENCY GROUP ADD VOLUME	308
21.2. CONSISTENCY GROUP CREATE	308
21.3. CONSISTENCY GROUP DELETE	310
21.4. CONSISTENCY GROUP LIST	310
21.5. CONSISTENCY GROUP REMOVE VOLUME	312
21.6. CONSISTENCY GROUP SET	312
21.7. CONSISTENCY GROUP SHOW	313
21.8. CONSISTENCY GROUP SNAPSHOT CREATE	314
21.9. CONSISTENCY GROUP SNAPSHOT DELETE	316
21.10. CONSISTENCY GROUP SNAPSHOT LIST	316
21.11. CONSISTENCY GROUP SNAPSHOT SHOW	318
CHAPTER 22. CONSOLE	320
22.1. CONSOLE LOG SHOW	320
22.2. CONSOLE URL SHOW	320
CHAPTER 23. CONSUMER	323
23.1. CONSUMER CREATE	323
23.2. CONSUMER DELETE	324
23.3. CONSUMER LIST	324
23.4. CONSUMER SET	325
23.5. CONSUMER SHOW	326
CHAPTER 24. CONTAINER	328
24.1. CONTAINER CREATE	328
24.2. CONTAINER DELETE	329
24.3. CONTAINER LIST	329
24.4. CONTAINER SAVE	331
24.5. CONTAINER SET	331
24.6. CONTAINER SHOW	332
24.7. CONTAINER UNSET	333
CHAPTER 25. CREDENTIAL	335
25.1. CREDENTIAL CREATE	335
25.2. CREDENTIAL DELETE	336
25.3. CREDENTIAL LIST	336
25.4. CREDENTIAL SET	338
25.5. CREDENTIAL SHOW	338
CHAPTER 26. CRON	341
26.1. CRON TRIGGER CREATE	341
26.2. CRON TRIGGER DELETE	342
26.3. CRON TRIGGER LIST	343
26.4. CRON TRIGGER SHOW	344
CHAPTER 27. DATASTORE	347
27.1. DATASTORE LIST	347
27.2. DATASTORE SHOW	348
27.3. DATASTORE VERSION LIST	349
27.4. DATASTORE VERSION SHOW	351

CHAPTER 28. DNS	353
28.1. DNS QUOTA LIST	353
28.2. DNS QUOTA RESET	354
28.3. DNS QUOTA SET	355
28.4. DNS SERVICE LIST	356
28.5. DNS SERVICE SHOW	358
CHAPTER 29. DOMAIN	360
29.1. DOMAIN CREATE	360
29.2. DOMAIN DELETE	361
29.3. DOMAIN LIST	361
29.4. DOMAIN SET	363
29.5. DOMAIN SHOW	363
CHAPTER 30. EC2	366
30.1. EC2 CREDENTIALS CREATE	366
30.2. EC2 CREDENTIALS DELETE	367
30.3. EC2 CREDENTIALS LIST	368
30.4. EC2 CREDENTIALS SHOW	369
CHAPTER 31. ENDPOINT	371
31.1. ENDPOINT ADD PROJECT	371
31.2. ENDPOINT CREATE	371
31.3. ENDPOINT DELETE	373
31.4. ENDPOINT GROUP ADD PROJECT	373
31.5. ENDPOINT GROUP CREATE	373
31.6. ENDPOINT GROUP DELETE	375
31.7. ENDPOINT GROUP LIST	375
31.8. ENDPOINT GROUP REMOVE PROJECT	377
31.9. ENDPOINT GROUP SET	377
31.10. ENDPOINT GROUP SHOW	378
31.11. ENDPOINT LIST	379
31.12. ENDPOINT REMOVE PROJECT	381
31.13. ENDPOINT SET	381
31.14. ENDPOINT SHOW	382
CHAPTER 32. EVENT	384
32.1. EVENT TRIGGER CREATE	384
32.2. EVENT TRIGGER DELETE	385
32.3. EVENT TRIGGER LIST	385
32.4. EVENT TRIGGER SHOW	387
CHAPTER 33. EXTENSION	389
33.1. EXTENSION LIST	389
33.2. EXTENSION SHOW	390
CHAPTER 34. FEDERATION	392
34.1. FEDERATION DOMAIN LIST	392
34.2. FEDERATION PROJECT LIST	393
34.3. FEDERATION PROTOCOL CREATE	394
34.4. FEDERATION PROTOCOL DELETE	395
34.5. FEDERATION PROTOCOL LIST	396
34.6. FEDERATION PROTOCOL SET	397
34.7. FEDERATION PROTOCOL SHOW	398

CHAPTER 35. FIREWALL	400
35.1. FIREWALL GROUP CREATE	400
35.2. FIREWALL GROUP DELETE	402
35.3. FIREWALL GROUP LIST	402
35.4. FIREWALL GROUP POLICY ADD RULE	404
35.5. FIREWALL GROUP POLICY CREATE	404
35.6. FIREWALL GROUP POLICY DELETE	407
35.7. FIREWALL GROUP POLICY LIST	407
35.8. FIREWALL GROUP POLICY REMOVE RULE	409
35.9. FIREWALL GROUP POLICY SET	409
35.10. FIREWALL GROUP POLICY SHOW	410
35.11. FIREWALL GROUP POLICY UNSET	412
35.12. FIREWALL GROUP RULE CREATE	412
35.13. FIREWALL GROUP RULE DELETE	415
35.14. FIREWALL GROUP RULE LIST	416
35.15. FIREWALL GROUP RULE SET	417
35.16. FIREWALL GROUP RULE SHOW	419
35.17. FIREWALL GROUP RULE UNSET	420
35.18. FIREWALL GROUP SET	421
35.19. FIREWALL GROUP SHOW	423
35.20. FIREWALL GROUP UNSET	424
CHAPTER 36. FLAVOR	426
36.1. FLAVOR CREATE	426
36.2. FLAVOR DELETE	428
36.3. FLAVOR LIST	428
36.4. FLAVOR SET	430
36.5. FLAVOR SHOW	431
36.6. FLAVOR UNSET	432
CHAPTER 37. FLOATING	434
37.1. FLOATING IP CREATE	434
37.2. FLOATING IP DELETE	436
37.3. FLOATING IP LIST	436
37.4. FLOATING IP POOL LIST	438
37.5. FLOATING IP PORT FORWARDING CREATE	440
37.6. FLOATING IP PORT FORWARDING DELETE	441
37.7. FLOATING IP PORT FORWARDING LIST	442
37.8. FLOATING IP PORT FORWARDING SET	444
37.9. FLOATING IP PORT FORWARDING SHOW	445
37.10. FLOATING IP SET	446
37.11. FLOATING IP SHOW	447
37.12. FLOATING IP UNSET	448
CHAPTER 38. GROUP	450
38.1. GROUP ADD USER	450
38.2. GROUP CONTAINS USER	450
38.3. GROUP CREATE	451
38.4. GROUP DELETE	452
38.5. GROUP LIST	453
38.6. GROUP REMOVE USER	454
38.7. GROUP SET	455
38.8. GROUP SHOW	455

CHAPTER 39. HELP.ADOC	458
39.1. HELP	458
CHAPTER 40. HOST	459
40.1. HOST LIST	459
40.2. HOST SET	460
40.3. HOST SHOW	460
CHAPTER 41. HYPERVISOR	463
41.1. HYPERVISOR LIST	463
41.2. HYPERVISOR SHOW	464
41.3. HYPERVISOR STATS SHOW	465
CHAPTER 42. IDENTITY	467
42.1. IDENTITY PROVIDER CREATE	467
42.2. IDENTITY PROVIDER DELETE	468
42.3. IDENTITY PROVIDER LIST	469
42.4. IDENTITY PROVIDER SET	470
42.5. IDENTITY PROVIDER SHOW	471
CHAPTER 43. IMAGE	473
43.1. IMAGE ADD PROJECT	473
43.2. IMAGE CREATE	474
43.3. IMAGE DELETE	477
43.4. IMAGE LIST	477
43.5. IMAGE MEMBER LIST	479
43.6. IMAGE REMOVE PROJECT	481
43.7. IMAGE SAVE	481
43.8. IMAGE SET	482
43.9. IMAGE SHOW	483
43.10. IMAGE UNSET	485
CHAPTER 44. IMPLIED	486
44.1. IMPLIED ROLE CREATE	486
44.2. IMPLIED ROLE DELETE	487
44.3. IMPLIED ROLE LIST	487
CHAPTER 45. IP	490
45.1. IP AVAILABILITY LIST	490
45.2. IP AVAILABILITY SHOW	491
CHAPTER 46. KEYPAIR	493
46.1. KEYPAIR CREATE	493
46.2. KEYPAIR DELETE	494
46.3. KEYPAIR LIST	494
46.4. KEYPAIR SHOW	496
CHAPTER 47. L2GW	498
47.1. L2GW CONNECTION CREATE	498
47.2. L2GW CONNECTION DELETE	499
47.3. L2GW CONNECTION LIST	500
47.4. L2GW CONNECTION SHOW	501
47.5. L2GW CREATE	502
47.6. L2GW DELETE	504
47.7. L2GW LIST	504

47.8. L2GW SHOW	506
47.9. L2GW UPDATE	507
CHAPTER 48. LIMIT	509
48.1. LIMIT CREATE	509
48.2. LIMIT DELETE	510
48.3. LIMIT LIST	511
48.4. LIMIT SET	512
48.5. LIMIT SHOW	513
CHAPTER 49. LIMITS	516
49.1. LIMITS SHOW	516
CHAPTER 50. LOADBALANCER	518
50.1. LOADBALANCER AMPHORA CONFIGURE	518
50.2. LOADBALANCER AMPHORA FAILOVER	518
50.3. LOADBALANCER AMPHORA LIST	518
50.4. LOADBALANCER AMPHORA SHOW	520
50.5. LOADBALANCER CREATE	521
50.6. LOADBALANCER DELETE	523
50.7. LOADBALANCER FAILOVER	524
50.8. LOADBALANCER FLAVOR CREATE	524
50.9. LOADBALANCER FLAVOR DELETE	526
50.10. LOADBALANCER FLAVOR LIST	526
50.11. LOADBALANCER FLAVOR SET	528
50.12. LOADBALANCER FLAVOR SHOW	528
50.13. LOADBALANCER FLAVOR UNSET	530
50.14. LOADBALANCER FLAVORPROFILE CREATE	530
50.15. LOADBALANCER FLAVORPROFILE DELETE	532
50.16. LOADBALANCER FLAVORPROFILE LIST	532
50.17. LOADBALANCER FLAVORPROFILE SET	534
50.18. LOADBALANCER FLAVORPROFILE SHOW	534
50.19. LOADBALANCER HEALTHMONITOR CREATE	536
50.20. LOADBALANCER HEALTHMONITOR DELETE	538
50.21. LOADBALANCER HEALTHMONITOR LIST	539
50.22. LOADBALANCER HEALTHMONITOR SET	540
50.23. LOADBALANCER HEALTHMONITOR SHOW	542
50.24. LOADBALANCER HEALTHMONITOR UNSET	543
50.25. LOADBALANCER L7POLICY CREATE	544
50.26. LOADBALANCER L7POLICY DELETE	546
50.27. LOADBALANCER L7POLICY LIST	546
50.28. LOADBALANCER L7POLICY SET	548
50.29. LOADBALANCER L7POLICY SHOW	549
50.30. LOADBALANCER L7POLICY UNSET	550
50.31. LOADBALANCER L7RULE CREATE	551
50.32. LOADBALANCER L7RULE DELETE	553
50.33. LOADBALANCER L7RULE LIST	553
50.34. LOADBALANCER L7RULE SET	554
50.35. LOADBALANCER L7RULE SHOW	555
50.36. LOADBALANCER L7RULE UNSET	557
50.37. LOADBALANCER LIST	557
50.38. LOADBALANCER LISTENER CREATE	559
50.39. LOADBALANCER LISTENER DELETE	562
50.40. LOADBALANCER LISTENER LIST	563

50.41. LOADBALANCER LISTENER SET	564
50.42. LOADBALANCER LISTENER SHOW	566
50.43. LOADBALANCER LISTENER STATS SHOW	568
50.44. LOADBALANCER LISTENER UNSET	569
50.45. LOADBALANCER MEMBER CREATE	571
50.46. LOADBALANCER MEMBER DELETE	573
50.47. LOADBALANCER MEMBER LIST	573
50.48. LOADBALANCER MEMBER SET	575
50.49. LOADBALANCER MEMBER SHOW	576
50.50. LOADBALANCER MEMBER UNSET	577
50.51. LOADBALANCER POOL CREATE	578
50.52. LOADBALANCER POOL DELETE	580
50.53. LOADBALANCER POOL LIST	581
50.54. LOADBALANCER POOL SET	582
50.55. LOADBALANCER POOL SHOW	583
50.56. LOADBALANCER POOL UNSET	585
50.57. LOADBALANCER PROVIDER CAPABILITY LIST	586
50.58. LOADBALANCER PROVIDER LIST	587
50.59. LOADBALANCER QUOTA DEFAULTS SHOW	588
50.60. LOADBALANCER QUOTA LIST	590
50.61. LOADBALANCER QUOTA RESET	591
50.62. LOADBALANCER QUOTA SET	592
50.63. LOADBALANCER QUOTA SHOW	593
50.64. LOADBALANCER QUOTA UNSET	595
50.65. LOADBALANCER SET	595
50.66. LOADBALANCER SHOW	596
50.67. LOADBALANCER STATS SHOW	598
50.68. LOADBALANCER STATUS SHOW	599
50.69. LOADBALANCER UNSET	599
CHAPTER 51. MAPPING	601
51.1. MAPPING CREATE	601
51.2. MAPPING DELETE	602
51.3. MAPPING LIST	602
51.4. MAPPING SET	604
51.5. MAPPING SHOW	604
CHAPTER 52. MESSAGING	606
52.1. MESSAGING CLAIM CREATE	606
52.2. MESSAGING CLAIM QUERY	607
52.3. MESSAGING CLAIM RELEASE	609
52.4. MESSAGING CLAIM RENEW	609
52.5. MESSAGING FLAVOR CREATE	611
52.6. MESSAGING FLAVOR DELETE	612
52.7. MESSAGING FLAVOR LIST	613
52.8. MESSAGING FLAVOR SHOW	614
52.9. MESSAGING FLAVOR UPDATE	616
52.10. MESSAGING HEALTH	617
52.11. MESSAGING HOMEDOC	618
52.12. MESSAGING MESSAGE LIST	618
52.13. MESSAGING MESSAGE POST	620
52.14. MESSAGING PING	620
52.15. MESSAGING POOL CREATE	621

52.16. MESSAGING POOL DELETE	623
52.17. MESSAGING POOL LIST	623
52.18. MESSAGING POOL SHOW	625
52.19. MESSAGING POOL UPDATE	626
52.20. MESSAGING QUEUE CREATE	628
52.21. MESSAGING QUEUE DELETE	629
52.22. MESSAGING QUEUE GET METADATA	629
52.23. MESSAGING QUEUE LIST	631
52.24. MESSAGING QUEUE PURGE	632
52.25. MESSAGING QUEUE SET METADATA	633
52.26. MESSAGING QUEUE SIGNED URL	633
52.27. MESSAGING QUEUE STATS	635
52.28. MESSAGING SUBSCRIPTION CREATE	636
52.29. MESSAGING SUBSCRIPTION DELETE	638
52.30. MESSAGING SUBSCRIPTION LIST	638
52.31. MESSAGING SUBSCRIPTION SHOW	640
52.32. MESSAGING SUBSCRIPTION UPDATE	641
CHAPTER 53. METRIC	644
53.1. METRIC AGGREGATES	644
53.2. METRIC ARCHIVE-POLICY CREATE	646
53.3. METRIC ARCHIVE-POLICY DELETE	647
53.4. METRIC ARCHIVE-POLICY LIST	648
53.5. METRIC ARCHIVE-POLICY-RULE CREATE	649
53.6. METRIC ARCHIVE-POLICY-RULE DELETE	650
53.7. METRIC ARCHIVE-POLICY-RULE LIST	651
53.8. METRIC ARCHIVE-POLICY-RULE SHOW	652
53.9. METRIC ARCHIVE-POLICY SHOW	653
53.10. METRIC ARCHIVE-POLICY UPDATE	655
53.11. METRIC BENCHMARK MEASURES ADD	656
53.12. METRIC BENCHMARK MEASURES SHOW	658
53.13. METRIC BENCHMARK METRIC CREATE	660
53.14. METRIC BENCHMARK METRIC SHOW	662
53.15. METRIC CAPABILITIES LIST	663
53.16. METRIC CREATE	664
53.17. METRIC DELETE	666
53.18. METRIC LIST	666
53.19. METRIC MEASURES ADD	668
53.20. METRIC MEASURES AGGREGATION	668
53.21. METRIC MEASURES BATCH-METRICS	671
53.22. METRIC MEASURES BATCH-RESOURCES-METRICS	671
53.23. METRIC MEASURES SHOW	672
53.24. METRIC METRIC CREATE	674
53.25. METRIC METRIC DELETE	675
53.26. METRIC METRIC LIST	676
53.27. METRIC METRIC SHOW	677
53.28. METRIC RESOURCE BATCH DELETE	679
53.29. METRIC RESOURCE CREATE	680
53.30. METRIC RESOURCE DELETE	682
53.31. METRIC RESOURCE HISTORY	682
53.32. METRIC RESOURCE LIST	684
53.33. METRIC RESOURCE SEARCH	686
53.34. METRIC RESOURCE SHOW	688

53.35. METRIC RESOURCE-TYPE CREATE	689
53.36. METRIC RESOURCE-TYPE DELETE	690
53.37. METRIC RESOURCE-TYPE LIST	691
53.38. METRIC RESOURCE-TYPE SHOW	692
53.39. METRIC RESOURCE-TYPE UPDATE	694
53.40. METRIC RESOURCE UPDATE	695
53.41. METRIC SERVER VERSION	697
53.42. METRIC SHOW	698
53.43. METRIC STATUS	699
CHAPTER 54. MODULE	701
54.1. MODULE LIST	701
CHAPTER 55. NETWORK	703
55.1. NETWORK AGENT ADD NETWORK	703
55.2. NETWORK AGENT ADD ROUTER	703
55.3. NETWORK AGENT DELETE	704
55.4. NETWORK AGENT LIST	704
55.5. NETWORK AGENT REMOVE NETWORK	706
55.6. NETWORK AGENT REMOVE ROUTER	706
55.7. NETWORK AGENT SET	707
55.8. NETWORK AGENT SHOW	707
55.9. NETWORK AUTO ALLOCATED TOPOLOGY CREATE	709
55.10. NETWORK AUTO ALLOCATED TOPOLOGY DELETE	710
55.11. NETWORK CREATE	711
55.12. NETWORK DELETE	713
55.13. NETWORK FLAVOR ADD PROFILE	714
55.14. NETWORK FLAVOR CREATE	714
55.15. NETWORK FLAVOR DELETE	716
55.16. NETWORK FLAVOR LIST	716
55.17. NETWORK FLAVOR PROFILE CREATE	718
55.18. NETWORK FLAVOR PROFILE DELETE	719
55.19. NETWORK FLAVOR PROFILE LIST	720
55.20. NETWORK FLAVOR PROFILE SET	721
55.21. NETWORK FLAVOR PROFILE SHOW	722
55.22. NETWORK FLAVOR REMOVE PROFILE	723
55.23. NETWORK FLAVOR SET	724
55.24. NETWORK FLAVOR SHOW	724
55.25. NETWORK LIST	726
55.26. NETWORK LOG CREATE	728
55.27. NETWORK LOG DELETE	730
55.28. NETWORK LOG LIST	731
55.29. NETWORK LOG SET	732
55.30. NETWORK LOG SHOW	732
55.31. NETWORK LOGGABLE RESOURCES LIST	734
55.32. NETWORK METER CREATE	735
55.33. NETWORK METER DELETE	737
55.34. NETWORK METER LIST	737
55.35. NETWORK METER RULE CREATE	738
55.36. NETWORK METER RULE DELETE	740
55.37. NETWORK METER RULE LIST	741
55.38. NETWORK METER RULE SHOW	742
55.39. NETWORK METER SHOW	743

55.40. NETWORK ONBOARD SUBNETS	745
55.41. NETWORK QOS POLICY CREATE	745
55.42. NETWORK QOS POLICY DELETE	747
55.43. NETWORK QOS POLICY LIST	747
55.44. NETWORK QOS POLICY SET	749
55.45. NETWORK QOS POLICY SHOW	750
55.46. NETWORK QOS RULE CREATE	751
55.47. NETWORK QOS RULE DELETE	753
55.48. NETWORK QOS RULE LIST	753
55.49. NETWORK QOS RULE SET	755
55.50. NETWORK QOS RULE SHOW	755
55.51. NETWORK QOS RULE TYPE LIST	757
55.52. NETWORK QOS RULE TYPE SHOW	758
55.53. NETWORK RBAC CREATE	759
55.54. NETWORK RBAC DELETE	761
55.55. NETWORK RBAC LIST	762
55.56. NETWORK RBAC SET	763
55.57. NETWORK RBAC SHOW	764
55.58. NETWORK SEGMENT CREATE	765
55.59. NETWORK SEGMENT DELETE	767
55.60. NETWORK SEGMENT LIST	767
55.61. NETWORK SEGMENT RANGE CREATE	769
55.62. NETWORK SEGMENT RANGE DELETE	771
55.63. NETWORK SEGMENT RANGE LIST	771
55.64. NETWORK SEGMENT RANGE SET	773
55.65. NETWORK SEGMENT RANGE SHOW	773
55.66. NETWORK SEGMENT SET	775
55.67. NETWORK SEGMENT SHOW	775
55.68. NETWORK SERVICE PROVIDER LIST	777
55.69. NETWORK SET	778
55.70. NETWORK SHOW	780
55.71. NETWORK SUBPORT LIST	781
55.72. NETWORK TRUNK CREATE	782
55.73. NETWORK TRUNK DELETE	784
55.74. NETWORK TRUNK LIST	785
55.75. NETWORK TRUNK SET	786
55.76. NETWORK TRUNK SHOW	787
55.77. NETWORK TRUNK UNSET	788
55.78. NETWORK UNSET	789
CHAPTER 56. OBJECT	790
56.1. OBJECT CREATE	790
56.2. OBJECT DELETE	791
56.3. OBJECT LIST	791
56.4. OBJECT SAVE	793
56.5. OBJECT SET	794
56.6. OBJECT SHOW	794
56.7. OBJECT STORE ACCOUNT SET	796
56.8. OBJECT STORE ACCOUNT SHOW	796
56.9. OBJECT STORE ACCOUNT UNSET	797
56.10. OBJECT UNSET	797
CHAPTER 57. ORCHESTRATION	799

57.1. ORCHESTRATION BUILD INFO	799
57.2. ORCHESTRATION RESOURCE TYPE LIST	800
57.3. ORCHESTRATION RESOURCE TYPE SHOW	801
57.4. ORCHESTRATION SERVICE LIST	803
57.5. ORCHESTRATION TEMPLATE FUNCTION LIST	804
57.6. ORCHESTRATION TEMPLATE VALIDATE	806
57.7. ORCHESTRATION TEMPLATE VERSION LIST	807
CHAPTER 58. OVERCLOUD	810
58.1. OVERCLOUD ADMIN AUTHORIZE	810
58.2. OVERCLOUD CELL EXPORT	810
58.3. OVERCLOUD CONFIG DOWNLOAD	811
58.4. OVERCLOUD CONTAINER IMAGE BUILD	812
58.5. OVERCLOUD CONTAINER IMAGE PREPARE	813
58.6. OVERCLOUD CONTAINER IMAGE TAG DISCOVER	815
58.7. OVERCLOUD CONTAINER IMAGE UPLOAD	815
58.8. OVERCLOUD CREDENTIALS	816
58.9. OVERCLOUD DELETE	816
58.10. OVERCLOUD DEPLOY	817
58.11. OVERCLOUD EXECUTE	822
58.12. OVERCLOUD EXPORT	822
58.13. OVERCLOUD EXTERNAL-UPDATE RUN	823
58.14. OVERCLOUD EXTERNAL-UPGRADE RUN	824
58.15. OVERCLOUD FAILURES	825
58.16. OVERCLOUD FFWD-UPGRADE CONVERGE	825
58.17. OVERCLOUD FFWD-UPGRADE PREPARE	830
58.18. OVERCLOUD FFWD-UPGRADE RUN	835
58.19. OVERCLOUD GENERATE FENCING	836
58.20. OVERCLOUD IMAGE BUILD	837
58.21. OVERCLOUD IMAGE UPLOAD	838
58.22. OVERCLOUD NETENV VALIDATE	839
58.23. OVERCLOUD NODE BIOS CONFIGURE	839
58.24. OVERCLOUD NODE BIOS RESET	840
58.25. OVERCLOUD NODE CLEAN	840
58.26. OVERCLOUD NODE CONFIGURE	841
58.27. OVERCLOUD NODE DELETE	842
58.28. OVERCLOUD NODE DISCOVER	843
58.29. OVERCLOUD NODE IMPORT	844
58.30. OVERCLOUD NODE INTROSPECT	845
58.31. OVERCLOUD NODE PROVIDE	846
58.32. OVERCLOUD NODE PROVISION	846
58.33. OVERCLOUD NODE UNPROVISION	847
58.34. OVERCLOUD PARAMETERS SET	847
58.35. OVERCLOUD PLAN CREATE	848
58.36. OVERCLOUD PLAN DELETE	849
58.37. OVERCLOUD PLAN DEPLOY	849
58.38. OVERCLOUD PLAN EXPORT	850
58.39. OVERCLOUD PLAN LIST	850
58.40. OVERCLOUD PROFILES LIST	851
58.41. OVERCLOUD PROFILES MATCH	853
58.42. OVERCLOUD RAID CREATE	854
58.43. OVERCLOUD ROLE LIST	855
58.44. OVERCLOUD ROLE SHOW	855

58.45. OVERCLOUD ROLES GENERATE	856
58.46. OVERCLOUD ROLES LIST	856
58.47. OVERCLOUD ROLES SHOW	858
58.48. OVERCLOUD STATUS	859
58.49. OVERCLOUD SUPPORT REPORT COLLECT	860
58.50. OVERCLOUD UPDATE CONVERGE	861
58.51. OVERCLOUD UPDATE PREPARE	866
58.52. OVERCLOUD UPDATE RUN	871
58.53. OVERCLOUD UPGRADE CONVERGE	872
58.54. OVERCLOUD UPGRADE PREPARE	877
58.55. OVERCLOUD UPGRADE RUN	882
CHAPTER 59. POLICY	884
59.1. POLICY CREATE	884
59.2. POLICY DELETE	885
59.3. POLICY LIST	885
59.4. POLICY SET	887
59.5. POLICY SHOW	887
CHAPTER 60. PORT	889
60.1. PORT CREATE	889
60.2. PORT DELETE	892
60.3. PORT LIST	892
60.4. PORT SET	894
60.5. PORT SHOW	897
60.6. PORT UNSET	898
CHAPTER 61. PROJECT	900
61.1. PROJECT CREATE	900
61.2. PROJECT DELETE	901
61.3. PROJECT LIST	902
61.4. PROJECT PURGE	904
61.5. PROJECT SET	904
61.6. PROJECT SHOW	905
CHAPTER 62. PTR	908
62.1. PTR RECORD LIST	908
62.2. PTR RECORD SET	909
62.3. PTR RECORD SHOW	911
62.4. PTR RECORD UNSET	912
CHAPTER 63. QUOTA	914
63.1. QUOTA LIST	914
63.2. QUOTA SET	915
63.3. QUOTA SHOW	917
CHAPTER 64. RECORDSET	919
64.1. RECORDSET CREATE	919
64.2. RECORDSET DELETE	920
64.3. RECORDSET LIST	922
64.4. RECORDSET SET	924
64.5. RECORDSET SHOW	926
CHAPTER 65. REGION	928
65.1. REGION CREATE	928

65.2. REGION DELETE	929
65.3. REGION LIST	929
65.4. REGION SET	931
65.5. REGION SHOW	931
CHAPTER 66. REGISTERED	933
66.1. REGISTERED LIMIT CREATE	933
66.2. REGISTERED LIMIT DELETE	934
66.3. REGISTERED LIMIT LIST	935
66.4. REGISTERED LIMIT SET	936
66.5. REGISTERED LIMIT SHOW	938
CHAPTER 67. REQUEST	940
67.1. REQUEST TOKEN AUTHORIZE	940
67.2. REQUEST TOKEN CREATE	941
CHAPTER 68. RESOURCE	943
68.1. RESOURCE MEMBER CREATE	943
68.2. RESOURCE MEMBER DELETE	944
68.3. RESOURCE MEMBER LIST	944
68.4. RESOURCE MEMBER SHOW	946
68.5. RESOURCE MEMBER UPDATE	948
CHAPTER 69. ROLE	950
69.1. ROLE ADD	950
69.2. ROLE ASSIGNMENT LIST	951
69.3. ROLE CREATE	953
69.4. ROLE DELETE	954
69.5. ROLE LIST	955
69.6. ROLE REMOVE	956
69.7. ROLE SET	957
69.8. ROLE SHOW	958
CHAPTER 70. ROUTER	960
70.1. ROUTER ADD PORT	960
70.2. ROUTER ADD SUBNET	960
70.3. ROUTER CREATE	960
70.4. ROUTER DELETE	962
70.5. ROUTER LIST	963
70.6. ROUTER REMOVE PORT	965
70.7. ROUTER REMOVE SUBNET	965
70.8. ROUTER SET	966
70.9. ROUTER SHOW	967
70.10. ROUTER UNSET	969
CHAPTER 71. SECRET	970
71.1. SECRET CONTAINER CREATE	970
71.2. SECRET CONTAINER DELETE	971
71.3. SECRET CONTAINER GET	971
71.4. SECRET CONTAINER LIST	973
71.5. SECRET DELETE	974
71.6. SECRET GET	975
71.7. SECRET LIST	976
71.8. SECRET ORDER CREATE	978
71.9. SECRET ORDER DELETE	980

71.10. SECRET ORDER GET	981
71.11. SECRET ORDER LIST	982
71.12. SECRET STORE	983
71.13. SECRET UPDATE	985
CHAPTER 72. SECURITY	986
72.1. SECURITY GROUP CREATE	986
72.2. SECURITY GROUP DELETE	987
72.3. SECURITY GROUP LIST	988
72.4. SECURITY GROUP RULE CREATE	989
72.5. SECURITY GROUP RULE DELETE	992
72.6. SECURITY GROUP RULE LIST	992
72.7. SECURITY GROUP RULE SHOW	994
72.8. SECURITY GROUP SET	995
72.9. SECURITY GROUP SHOW	996
72.10. SECURITY GROUP UNSET	997
CHAPTER 73. SERVER	999
73.1. SERVER ADD FIXED IP	999
73.2. SERVER ADD FLOATING IP	999
73.3. SERVER ADD NETWORK	1000
73.4. SERVER ADD PORT	1000
73.5. SERVER ADD SECURITY GROUP	1001
73.6. SERVER ADD VOLUME	1001
73.7. SERVER BACKUP CREATE	1001
73.8. SERVER CREATE	1003
73.9. SERVER DELETE	1007
73.10. SERVER DUMP CREATE	1007
73.11. SERVER EVENT LIST	1007
73.12. SERVER EVENT SHOW	1009
73.13. SERVER GROUP CREATE	1010
73.14. SERVER GROUP DELETE	1012
73.15. SERVER GROUP LIST	1012
73.16. SERVER GROUP SHOW	1014
73.17. SERVER IMAGE CREATE	1015
73.18. SERVER LIST	1016
73.19. SERVER LOCK	1019
73.20. SERVER MIGRATE	1020
73.21. SERVER PAUSE	1021
73.22. SERVER REBOOT	1021
73.23. SERVER REBUILD	1022
73.24. SERVER REMOVE FIXED IP	1024
73.25. SERVER REMOVE FLOATING IP	1024
73.26. SERVER REMOVE NETWORK	1025
73.27. SERVER REMOVE PORT	1025
73.28. SERVER REMOVE SECURITY GROUP	1025
73.29. SERVER REMOVE VOLUME	1026
73.30. SERVER RESCUE	1026
73.31. SERVER RESIZE CONFIRM	1027
73.32. SERVER RESIZE REVERT	1027
73.33. SERVER RESIZE	1028
73.34. SERVER RESTORE	1028
73.35. SERVER RESUME	1029

73.36. SERVER SET	1029
73.37. SERVER SHELVES	1030
73.38. SERVER SHOW	1030
73.39. SERVER SSH	1032
73.40. SERVER START	1033
73.41. SERVER STOP	1033
73.42. SERVER SUSPEND	1034
73.43. SERVER UNLOCK	1034
73.44. SERVER UNPAUSE	1034
73.45. SERVER UNRESCUE	1035
73.46. SERVER UNSET	1035
73.47. SERVER UNSHELVES	1036
CHAPTER 74. SERVICE	1037
74.1. SERVICE CREATE	1037
74.2. SERVICE DELETE	1038
74.3. SERVICE LIST	1038
74.4. SERVICE PROVIDER CREATE	1040
74.5. SERVICE PROVIDER DELETE	1041
74.6. SERVICE PROVIDER LIST	1042
74.7. SERVICE PROVIDER SET	1043
74.8. SERVICE PROVIDER SHOW	1044
74.9. SERVICE SET	1045
74.10. SERVICE SHOW	1046
CHAPTER 75. SFC	1048
75.1. SFC FLOW CLASSIFIER CREATE	1048
75.2. SFC FLOW CLASSIFIER DELETE	1050
75.3. SFC FLOW CLASSIFIER LIST	1050
75.4. SFC FLOW CLASSIFIER SET	1052
75.5. SFC FLOW CLASSIFIER SHOW	1052
75.6. SFC PORT CHAIN CREATE	1053
75.7. SFC PORT CHAIN DELETE	1055
75.8. SFC PORT CHAIN LIST	1056
75.9. SFC PORT CHAIN SET	1057
75.10. SFC PORT CHAIN SHOW	1058
75.11. SFC PORT CHAIN UNSET	1059
75.12. SFC PORT PAIR CREATE	1060
75.13. SFC PORT PAIR DELETE	1062
75.14. SFC PORT PAIR GROUP CREATE	1062
75.15. SFC PORT PAIR GROUP DELETE	1064
75.16. SFC PORT PAIR GROUP LIST	1064
75.17. SFC PORT PAIR GROUP SET	1066
75.18. SFC PORT PAIR GROUP SHOW	1066
75.19. SFC PORT PAIR GROUP UNSET	1068
75.20. SFC PORT PAIR LIST	1068
75.21. SFC PORT PAIR SET	1070
75.22. SFC PORT PAIR SHOW	1070
75.23. SFC SERVICE GRAPH CREATE	1072
75.24. SFC SERVICE GRAPH DELETE	1073
75.25. SFC SERVICE GRAPH LIST	1074
75.26. SFC SERVICE GRAPH SET	1075
75.27. SFC SERVICE GRAPH SHOW	1076

CHAPTER 76. SOFTWARE	1078
76.1. SOFTWARE CONFIG CREATE	1078
76.2. SOFTWARE CONFIG DELETE	1079
76.3. SOFTWARE CONFIG LIST	1080
76.4. SOFTWARE CONFIG SHOW	1081
76.5. SOFTWARE DEPLOYMENT CREATE	1082
76.6. SOFTWARE DEPLOYMENT DELETE	1084
76.7. SOFTWARE DEPLOYMENT LIST	1085
76.8. SOFTWARE DEPLOYMENT METADATA SHOW	1086
76.9. SOFTWARE DEPLOYMENT OUTPUT SHOW	1087
76.10. SOFTWARE DEPLOYMENT SHOW	1087
CHAPTER 77. STACK	1090
77.1. STACK ABANDON	1090
77.2. STACK ADOPT	1091
77.3. STACK CANCEL	1093
77.4. STACK CHECK	1094
77.5. STACK CREATE	1096
77.6. STACK DELETE	1098
77.7. STACK ENVIRONMENT SHOW	1098
77.8. STACK EVENT LIST	1100
77.9. STACK EVENT SHOW	1102
77.10. STACK EXPORT	1103
77.11. STACK FAILURES LIST	1104
77.12. STACK FILE LIST	1105
77.13. STACK HOOK CLEAR	1106
77.14. STACK HOOK POLL	1107
77.15. STACK LIST	1108
77.16. STACK OUTPUT LIST	1110
77.17. STACK OUTPUT SHOW	1112
77.18. STACK RESOURCE LIST	1113
77.19. STACK RESOURCE MARK UNHEALTHY	1115
77.20. STACK RESOURCE METADATA	1115
77.21. STACK RESOURCE SHOW	1117
77.22. STACK RESOURCE SIGNAL	1118
77.23. STACK RESUME	1119
77.24. STACK SHOW	1120
77.25. STACK SNAPSHOT CREATE	1122
77.26. STACK SNAPSHOT DELETE	1123
77.27. STACK SNAPSHOT LIST	1124
77.28. STACK SNAPSHOT RESTORE	1125
77.29. STACK SNAPSHOT SHOW	1126
77.30. STACK SUSPEND	1127
77.31. STACK TEMPLATE SHOW	1128
77.32. STACK UPDATE	1130
CHAPTER 78. SUBNET	1133
78.1. SUBNET CREATE	1133
78.2. SUBNET DELETE	1136
78.3. SUBNET LIST	1136
78.4. SUBNET POOL CREATE	1139
78.5. SUBNET POOL DELETE	1141
78.6. SUBNET POOL LIST	1141

78.7. SUBNET POOL SET	1144
78.8. SUBNET POOL SHOW	1145
78.9. SUBNET POOL UNSET	1146
78.10. SUBNET SET	1147
78.11. SUBNET SHOW	1149
78.12. SUBNET UNSET	1150
CHAPTER 79. TASK	1152
79.1. TASK EXECUTION LIST	1152
79.2. TASK EXECUTION PUBLISHED SHOW	1154
79.3. TASK EXECUTION RERUN	1154
79.4. TASK EXECUTION RESULT SHOW	1155
79.5. TASK EXECUTION SHOW	1156
CHAPTER 80. TLD	1158
80.1. TLD CREATE	1158
80.2. TLD DELETE	1159
80.3. TLD LIST	1160
80.4. TLD SET	1161
80.5. TLD SHOW	1163
CHAPTER 81. TOKEN	1165
81.1. TOKEN ISSUE	1165
81.2. TOKEN REVOKE	1166
CHAPTER 82. TRIPLEO	1167
82.1. TRIPLEO CONFIG GENERATE ANSIBLE	1167
82.2. TRIPLEO CONTAINER IMAGE DELETE	1167
82.3. TRIPLEO CONTAINER IMAGE LIST	1168
82.4. TRIPLEO CONTAINER IMAGE PREPARE DEFAULT	1169
82.5. TRIPLEO CONTAINER IMAGE PREPARE	1170
82.6. TRIPLEO CONTAINER IMAGE PUSH	1171
82.7. TRIPLEO CONTAINER IMAGE SHOW	1172
82.8. TRIPLEO DEPLOY	1173
82.9. TRIPLEO UPGRADE	1176
82.10. TRIPLEO VALIDATOR GROUP INFO	1179
82.11. TRIPLEO VALIDATOR LIST	1181
82.12. TRIPLEO VALIDATOR RUN	1182
82.13. TRIPLEO VALIDATOR SHOW PARAMETER	1183
82.14. TRIPLEO VALIDATOR SHOW	1184
CHAPTER 83. TRUST	1186
83.1. TRUST CREATE	1186
83.2. TRUST DELETE	1187
83.3. TRUST LIST	1188
83.4. TRUST SHOW	1189
CHAPTER 84. TSIGKEY	1191
84.1. TSIGKEY CREATE	1191
84.2. TSIGKEY DELETE	1192
84.3. TSIGKEY LIST	1193
84.4. TSIGKEY SET	1194
84.5. TSIGKEY SHOW	1196
CHAPTER 85. UNDERCLOUD	1199

85.1. UNDERCLOUD BACKUP	1199
85.2. UNDERCLOUD INSTALL	1199
85.3. UNDERCLOUD MINION INSTALL	1200
85.4. UNDERCLOUD MINION UPGRADE	1200
85.5. UNDERCLOUD UPGRADE	1201
CHAPTER 86. USAGE	1202
86.1. USAGE LIST	1202
86.2. USAGE SHOW	1203
CHAPTER 87. USER	1205
87.1. USER CREATE	1205
87.2. USER DELETE	1206
87.3. USER LIST	1207
87.4. USER PASSWORD SET	1208
87.5. USER SET	1209
87.6. USER SHOW	1210
CHAPTER 88. VERSIONS	1212
88.1. VERSIONS SHOW	1212
CHAPTER 89. VOLUME	1214
89.1. VOLUME BACKUP CREATE	1214
89.2. VOLUME BACKUP DELETE	1215
89.3. VOLUME BACKUP LIST	1216
89.4. VOLUME BACKUP RESTORE	1217
89.5. VOLUME BACKUP SET	1219
89.6. VOLUME BACKUP SHOW	1219
89.7. VOLUME CREATE	1221
89.8. VOLUME DELETE	1223
89.9. VOLUME HOST SET	1223
89.10. VOLUME LIST	1224
89.11. VOLUME MIGRATE	1226
89.12. VOLUME QOS ASSOCIATE	1226
89.13. VOLUME QOS CREATE	1227
89.14. VOLUME QOS DELETE	1228
89.15. VOLUME QOS DISASSOCIATE	1229
89.16. VOLUME QOS LIST	1229
89.17. VOLUME QOS SET	1231
89.18. VOLUME QOS SHOW	1231
89.19. VOLUME QOS UNSET	1232
89.20. VOLUME SERVICE LIST	1233
89.21. VOLUME SERVICE SET	1234
89.22. VOLUME SET	1235
89.23. VOLUME SHOW	1236
89.24. VOLUME SNAPSHOT CREATE	1238
89.25. VOLUME SNAPSHOT DELETE	1240
89.26. VOLUME SNAPSHOT LIST	1240
89.27. VOLUME SNAPSHOT SET	1242
89.28. VOLUME SNAPSHOT SHOW	1243
89.29. VOLUME SNAPSHOT UNSET	1244
89.30. VOLUME TRANSFER REQUEST ACCEPT	1245
89.31. VOLUME TRANSFER REQUEST CREATE	1246
89.32. VOLUME TRANSFER REQUEST DELETE	1247

89.33. VOLUME TRANSFER REQUEST LIST	1248
89.34. VOLUME TRANSFER REQUEST SHOW	1249
89.35. VOLUME TYPE CREATE	1251
89.36. VOLUME TYPE DELETE	1253
89.37. VOLUME TYPE LIST	1253
89.38. VOLUME TYPE SET	1255
89.39. VOLUME TYPE SHOW	1256
89.40. VOLUME TYPE UNSET	1257
89.41. VOLUME UNSET	1258
CHAPTER 90. VPN	1260
90.1. VPN ENDPOINT GROUP CREATE	1260
90.2. VPN ENDPOINT GROUP DELETE	1261
90.3. VPN ENDPOINT GROUP LIST	1262
90.4. VPN ENDPOINT GROUP SET	1263
90.5. VPN ENDPOINT GROUP SHOW	1264
90.6. VPN IKE POLICY CREATE	1265
90.7. VPN IKE POLICY DELETE	1267
90.8. VPN IKE POLICY LIST	1267
90.9. VPN IKE POLICY SET	1269
90.10. VPN IKE POLICY SHOW	1270
90.11. VPN IPSEC POLICY CREATE	1271
90.12. VPN IPSEC POLICY DELETE	1273
90.13. VPN IPSEC POLICY LIST	1274
90.14. VPN IPSEC POLICY SET	1275
90.15. VPN IPSEC POLICY SHOW	1276
90.16. VPN IPSEC SITE CONNECTION CREATE	1277
90.17. VPN IPSEC SITE CONNECTION DELETE	1280
90.18. VPN IPSEC SITE CONNECTION LIST	1281
90.19. VPN IPSEC SITE CONNECTION SET	1282
90.20. VPN IPSEC SITE CONNECTION SHOW	1283
90.21. VPN SERVICE CREATE	1285
90.22. VPN SERVICE DELETE	1287
90.23. VPN SERVICE LIST	1287
90.24. VPN SERVICE SET	1288
90.25. VPN SERVICE SHOW	1289
CHAPTER 91. WORKBOOK	1291
91.1. WORKBOOK CREATE	1291
91.2. WORKBOOK DEFINITION SHOW	1292
91.3. WORKBOOK DELETE	1292
91.4. WORKBOOK LIST	1293
91.5. WORKBOOK SHOW	1295
91.6. WORKBOOK UPDATE	1296
91.7. WORKBOOK VALIDATE	1297
CHAPTER 92. WORKFLOW	1300
92.1. WORKFLOW CREATE	1300
92.2. WORKFLOW DEFINITION SHOW	1301
92.3. WORKFLOW DELETE	1302
92.4. WORKFLOW ENGINE SERVICE LIST	1303
92.5. WORKFLOW ENV CREATE	1304
92.6. WORKFLOW ENV DELETE	1306
92.7. WORKFLOW ENV LIST	1306

92.8. WORKFLOW ENV SHOW	1308
92.9. WORKFLOW ENV UPDATE	1309
92.10. WORKFLOW EXECUTION CREATE	1310
92.11. WORKFLOW EXECUTION DELETE	1312
92.12. WORKFLOW EXECUTION INPUT SHOW	1313
92.13. WORKFLOW EXECUTION LIST	1313
92.14. WORKFLOW EXECUTION OUTPUT SHOW	1315
92.15. WORKFLOW EXECUTION PUBLISHED SHOW	1315
92.16. WORKFLOW EXECUTION REPORT SHOW	1316
92.17. WORKFLOW EXECUTION SHOW	1316
92.18. WORKFLOW EXECUTION UPDATE	1318
92.19. WORKFLOW LIST	1319
92.20. WORKFLOW SHOW	1321
92.21. WORKFLOW UPDATE	1322
92.22. WORKFLOW VALIDATE	1324
CHAPTER 93. ZONE	1326
93.1. ZONE ABANDON	1326
93.2. ZONE AXFR	1326
93.3. ZONE BLACKLIST CREATE	1327
93.4. ZONE BLACKLIST DELETE	1328
93.5. ZONE BLACKLIST LIST	1329
93.6. ZONE BLACKLIST SET	1331
93.7. ZONE BLACKLIST SHOW	1332
93.8. ZONE CREATE	1334
93.9. ZONE DELETE	1336
93.10. ZONE EXPORT CREATE	1337
93.11. ZONE EXPORT DELETE	1339
93.12. ZONE EXPORT LIST	1339
93.13. ZONE EXPORT SHOW	1341
93.14. ZONE EXPORT SHOWFILE	1342
93.15. ZONE IMPORT CREATE	1344
93.16. ZONE IMPORT DELETE	1345
93.17. ZONE IMPORT LIST	1346
93.18. ZONE IMPORT SHOW	1347
93.19. ZONE LIST	1349
93.20. ZONE SET	1351
93.21. ZONE SHOW	1352
93.22. ZONE TRANSFER ACCEPT LIST	1354
93.23. ZONE TRANSFER ACCEPT REQUEST	1355
93.24. ZONE TRANSFER ACCEPT SHOW	1357
93.25. ZONE TRANSFER REQUEST CREATE	1358
93.26. ZONE TRANSFER REQUEST DELETE	1360
93.27. ZONE TRANSFER REQUEST LIST	1361
93.28. ZONE TRANSFER REQUEST SET	1362
93.29. ZONE TRANSFER REQUEST SHOW	1364

PREFACE

A reference to the commands available for the unified OpenStack command-line client.

CHAPTER 1. THE OPENSTACK CLIENT

The **openstack** client is a common OpenStack command-line interface (CLI). This chapter documents the main options for **openstack** version 4.0.0 . :leveloffset: +1

Usage:

```
openstack [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--debug]
  [--os-cloud <cloud-config-name>]
  [--os-region-name <auth-region-name>]
  [--os-cacert <ca-bundle-file>] [--os-cert <certificate-file>]
  [--os-key <key-file>] [--verify | --insecure]
  [--os-default-domain <auth-domain>]
  [--os-interface <interface>]
  [--os-service-provider <service_provider>]
  [--os-remote-project-name <remote_project_name> | --os-remote-project-id
<remote_project_id>]
  [--os-remote-project-domain-name <remote_project_domain_name> | --os-remote-project-
domain-id <remote_project_domain_id>]
  [--timing] [--os-beta-command] [--os-profile hmac-key]
  [--os-compute-api-version <compute-api-version>]
  [--os-identity-api-version <identity-api-version>]
  [--os-image-api-version <image-api-version>]
  [--os-network-api-version <network-api-version>]
  [--os-object-api-version <object-api-version>]
  [--os-volume-api-version <volume-api-version>]
  [--os-queues-api-version <queues-api-version>]
  [--os-database-api-version <database-api-version>]
  [--os-tripleoclient-api-version <tripleoclient-api-version>]
  [--os-data-processing-api-version <data-processing-api-version>]
  [--os-data-processing-url OS_DATA_PROCESSING_URL]
  [--os-loadbalancer-api-version <loadbalancer-api-version>]
  [--os-workflow-api-version <workflow-api-version>]
  [--os-container-infra-api-version <container-infra-api-version>]
  [--os-baremetal-api-version <baremetal-api-version>]
  [--inspector-api-version INSPECTOR_API_VERSION]
  [--inspector-url INSPECTOR_URL]
  [--os-orchestration-api-version <orchestration-api-version>]
  [--os-dns-api-version <dns-api-version>]
  [--os-key-manager-api-version <key-manager-api-version>]
  [--os-metrics-api-version <metrics-api-version>]
  [--os-alarms-api-version <alarms-api-version>]
  [--os-auth-type <auth-type>] [--os-auth-url <auth-auth-url>]
  [--os-system-scope <auth-system-scope>]
  [--os-domain-id <auth-domain-id>]
  [--os-domain-name <auth-domain-name>]
  [--os-project-id <auth-project-id>]
  [--os-project-name <auth-project-name>]
  [--os-project-domain-id <auth-project-domain-id>]
  [--os-project-domain-name <auth-project-domain-name>]
  [--os-trust-id <auth-trust-id>]
  [--os-default-domain-id <auth-default-domain-id>]
  [--os-default-domain-name <auth-default-domain-name>]
  [--os-token <auth-token>]
  [--os-identity-provider <auth-identity-provider>]
```

```

[--os-protocol <auth-protocol>]
[--os-client-id <auth-client-id>]
[--os-client-secret <auth-client-secret>]
[--os-openid-scope <auth-openid-scope>]
[--os-access-token-endpoint <auth-access-token-endpoint>]
[--os-discovery-endpoint <auth-discovery-endpoint>]
[--os-access-token-type <auth-access-token-type>]
[--os-username <auth-username>]
[--os-password <auth-password>] [--os-user <auth-user>]
[--os-endpoint <auth-endpoint>]
[--os-redirect-uri <auth-redirect-uri>]
[--os-code <auth-code>]
[--os-identity-provider-url <auth-identity-provider-url>]
[--os-service-provider-endpoint <auth-service-provider-endpoint>]
[--os-service-provider-entity-id <auth-service-provider-entity-id>]
[--os-user-id <auth-user-id>]
[--os-user-domain-id <auth-user-domain-id>]
[--os-user-domain-name <auth-user-domain-name>]
[--os-passcode <auth-passcode>]
[--os-consumer-key <auth-consumer-key>]
[--os-consumer-secret <auth-consumer-secret>]
[--os-access-key <auth-access-key>]
[--os-access-secret <auth-access-secret>]
[--os-access-token <auth-access-token>]
[--os-auth-methods <auth-auth-methods>]
[--os-application-credential-secret <auth-application-credential-secret>]
[--os-application-credential-id <auth-application-credential-id>]
[--os-application-credential-name <auth-application-credential-name>]
[--os-roles <auth-roles>]
[--os-aodh-endpoint <auth-aodh-endpoint>]

```

Command-line interface to the OpenStack APIs

Table 1.1. Optional Arguments

Value	Summary
--version	Show program's version number and exit
-v, --verbose	Increase verbosity of output. can be repeated.
-q, --quiet	Suppress output except warnings and errors.
--log-file LOG_FILE	Specify a file to log output. disabled by default.
-h, --help	Show help message and exit.
--debug	Show tracebacks on errors.
--os-cloud <cloud-config-name>	Cloud name in clouds.yaml (env: os_cloud)
--os-region-name <auth-region-name>	Authentication region name (env: os_region_name)

Value	Summary
--os-cacert <ca-bundle-file>	Ca certificate bundle file (env: os_cacert)
--os-cert <certificate-file>	Client certificate bundle file (env: os_cert)
--os-key <key-file>	Client certificate key file (env: os_key)
--verify	Verify server certificate (default)
--insecure	Disable server certificate verification
--os-default-domain <auth-domain>	Default domain id, default=default. (env: OS_DEFAULT_DOMAIN)
--os-interface <interface>	Select an interface type. valid interface types: [admin, public, internal]. default=public, (Env: OS_INTERFACE)
--os-service-provider <service_provider>	Authenticate with and perform the command on a service provider using Keystone-to-keystone federation. Must also specify the remote project option.
--os-remote-project-name <remote_project_name>	Project name when authenticating to a service provider if using Keystone-to-Keystone federation.
--os-remote-project-id <remote_project_id>	Project id when authenticating to a service provider if using Keystone-to-Keystone federation.
--os-remote-project-domain-name <remote_project_domain_name>	Domain name of the project when authenticating to a service provider if using Keystone-to-Keystone federation.
--os-remote-project-domain-id <remote_project_domain_id>	Domain id of the project when authenticating to a service provider if using Keystone-to-Keystone federation.
--timing	Print api call timing info
--os-beta-command	Enable beta commands which are subject to change
--os-profile hmac-key	Hmac key for encrypting profiling context data
--os-compute-api-version <compute-api-version>	Compute api version, default=2.1 (env: OS_COMPUTE_API_VERSION)
--os-identity-api-version <identity-api-version>	Identity api version, default=3 (env: OS_IDENTITY_API_VERSION)

Value	Summary
<code>--os-image-api-version <image-api-version></code>	Image api version, default=2 (env: <code>OS_IMAGE_API_VERSION</code>)
<code>--os-network-api-version <network-api-version></code>	Network api version, default=2.0 (env: <code>OS_NETWORK_API_VERSION</code>)
<code>--os-object-api-version <object-api-version></code>	Object api version, default=1 (env: <code>OS_OBJECT_API_VERSION</code>)
<code>--os-volume-api-version <volume-api-version></code>	Volume api version, default=3 (env: <code>OS_VOLUME_API_VERSION</code>)
<code>--os-queues-api-version <queues-api-version></code>	Queues api version, default=2 (env: <code>OS_QUEUES_API_VERSION</code>)
<code>--os-database-api-version <database-api-version></code>	Database api version, default=1 (env: <code>OS_DATABASE_API_VERSION</code>)
<code>--os-tripleoclient-api-version <tripleoclient-api-version></code>	Tripleo client api version, default=1 (env: <code>OS_TRIPLEOCLIENT_API_VERSION</code>)
<code>--os-data-processing-api-version <data-processing-api-version></code>	Data processing api version, default=1.1 (env: <code>OS_DATA_PROCESSING_API_VERSION</code>)
<code>--os-data-processing-url</code> <code>OS_DATA_PROCESSING_URL</code>	Data processing api url, (env: <code>OS_DATA_PROCESSING_API_URL</code>)
<code>--os-loadbalancer-api-version <loadbalancer-api-version></code>	Osc plugin api version, default=2.0 (env: <code>OS_LOADBALANCER_API_VERSION</code>)
<code>--os-workflow-api-version <workflow-api-version></code>	Workflow api version, default=2 (env: <code>OS_WORKFLOW_API_VERSION</code>)
<code>--os-container-infra-api-version <container-infra-api-version></code>	Container-infra api version, default=1 (env: <code>OS_CONTAINER_INFRA_API_VERSION</code>)
<code>--os-baremetal-api-version <baremetal-api-version></code>	Bare metal api version, default="latest" (the maximum version supported by both the client and the server). (Env: <code>OS_BAREMETAL_API_VERSION</code>)
<code>--inspector-api-version</code> <code>INSPECTOR_API_VERSION</code>	Inspector api version, only 1 is supported now (env: <code>INSPECTOR_VERSION</code>).
<code>--inspector-url</code> <code>INSPECTOR_URL</code>	Inspector url, defaults to localhost (env: <code>INSPECTOR_URL</code>).

Value	Summary
<code>--os-orchestration-api-version <orchestration-api-version></code>	Orchestration api version, default=1 (env: OS_ORCHESTRATION_API_VERSION)
<code>--os-dns-api-version <dns-api-version></code>	Dns api version, default=2 (env: os_dns_api_version)
<code>--os-key-manager-api-version <key-manager-api-version></code>	Barbican api version, default=1 (env: OS_KEY_MANAGER_API_VERSION)
<code>--os-metrics-api-version <metrics-api-version></code>	Metrics api version, default=1 (env: OS_METRICS_API_VERSION)
<code>--os-alarming-api-version <alarming-api-version></code>	Queues api version, default=2 (env: OS_ALARMING_API_VERSION)
<code>--os-auth-type <auth-type></code>	Select an authentication type. available types: token, v3oidcpassword, gnocchi-basic, v3oidcauthcode, v3samlpassword, v3adfspassword, password, admin_token, v2password, v1password, v3oidcclientcredentials, v3tokenlessauth, v2token, none, v3totp, v3oauth1, v3oidcaccesstoken, v3multifactor, v3token, v3applicationcredential, noauth, v3password, gnocchi- noauth, aodh-noauth. Default: selected based on --os- username/--os- token (Env: OS_AUTH_TYPE)
<code>--os-auth-url <auth-auth-url></code>	With token: authentication url with v3oidcpassword: Authentication URL With v3oidcauthcode: Authentication URL With v3samlpassword: Authentication URL With v3adfspassword: Authentication URL With password: Authentication URL With v2password: Authentication URL With v1password: Authentication URL With v3oidcclientcredentials: Authentication URL With v3tokenlessauth: Authentication URL With v2token: Authentication URL With v3totp: Authentication URL With v3oauth1: Authentication URL With v3oidcaccesstoken: Authentication URL With v3multifactor: Authentication URL With v3token: Authentication URL With v3applicationcredential: Authentication URL With v3password: Authentication URL (Env: OS_AUTH_URL)

Value	Summary
<code>--os-system-scope <auth-system-scope></code>	With token: scope for system operations with v3oidcpassword: Scope for system operations With v3oidcauthcode: Scope for system operations With v3samlpassword: Scope for system operations With v3adfspassword: Scope for system operations With password: Scope for system operations With v3oidcclientcredentials: Scope for system operations With v3totp: Scope for system operations With v3oidcaccesstoken: Scope for system operations With v3multifactor: Scope for system operations With v3token: Scope for system operations With v3applicationcredential: Scope for system operations With v3password: Scope for system operations (Env: OS_SYSTEM_SCOPE)
<code>--os-domain-id <auth-domain-id></code>	With token: domain id to scope to with v3oidcpassword: Domain ID to scope to With v3oidcauthcode: Domain ID to scope to With v3samlpassword: Domain ID to scope to With v3adfspassword: Domain ID to scope to With password: Domain ID to scope to With v3oidcclientcredentials: Domain ID to scope to With v3tokenlessauth: Domain ID to scope to With v3totp: Domain ID to scope to With v3oidcaccesstoken: Domain ID to scope to With v3multifactor: Domain ID to scope to With v3token: Domain ID to scope to With v3applicationcredential: Domain ID to scope to With v3password: Domain ID to scope to (Env: OS_DOMAIN_ID)
<code>--os-domain-name <auth-domain-name></code>	With token: domain name to scope to with v3oidcpassword: Domain name to scope to With v3oidcauthcode: Domain name to scope to With v3samlpassword: Domain name to scope to With v3adfspassword: Domain name to scope to With password: Domain name to scope to With v3oidcclientcredentials: Domain name to scope to With v3tokenlessauth: Domain name to scope to With v3totp: Domain name to scope to With v3oidcaccesstoken: Domain name to scope to With v3multifactor: Domain name to scope to With v3token: Domain name to scope to With v3applicationcredential: Domain name to scope to With v3password: Domain name to scope to (Env: OS_DOMAIN_NAME)

Value	Summary
<code>--os-project-id <auth-project-id></code>	With token: project id to scope to with v3oidcpassword: Project ID to scope to With v3oidcauthcode: Project ID to scope to With v3samlpassword: Project ID to scope to With v3adfspassword: Project ID to scope to With password: Project ID to scope to With v3oidcclientcredentials: Project ID to scope to With v3tokenlessauth: Project ID to scope to With v3totp: Project ID to scope to With v3oidcaccesstoken: Project ID to scope to With v3multifactor: Project ID to scope to With v3token: Project ID to scope to With v3applicationcredential: Project ID to scope to With noauth: Project ID With v3password: Project ID to scope to With gnocchi- noauth: Project ID With aodh-noauth: Project ID (Env: OS_PROJECT_ID)
<code>--os-project-name <auth-project-name></code>	With token: project name to scope to with v3oidcpassword: Project name to scope to With v3oidcauthcode: Project name to scope to With v3samlpassword: Project name to scope to With v3adfspassword: Project name to scope to With password: Project name to scope to With v1password: Swift account to use With v3oidcclientcredentials: Project name to scope to With v3tokenlessauth: Project name to scope to With v3totp: Project name to scope to With v3oidcaccesstoken: Project name to scope to With v3multifactor: Project name to scope to With v3token: Project name to scope to With v3applicationcredential: Project name to scope to With v3password: Project name to scope to (Env: OS_PROJECT_NAME)
<code>--os-project-domain-id <auth-project-domain-id></code>	With token: domain id containing project with v3oidcpassword: Domain ID containing project With v3oidcauthcode: Domain ID containing project With v3samlpassword: Domain ID containing project With v3adfspassword: Domain ID containing project With password: Domain ID containing project With v3oidcclientcredentials: Domain ID containing project With v3tokenlessauth: Domain ID containing project With v3totp: Domain ID containing project With v3oidcaccesstoken: Domain ID containing project With v3multifactor: Domain ID containing project With v3token: Domain ID containing project With v3applicationcredential: Domain ID containing project With v3password: Domain ID containing project (Env: OS_PROJECT_DOMAIN_ID)

Value	Summary
<code>--os-project-domain-name <auth-project-domain-name></code>	With token: domain name containing project with v3oidcpassword: Domain name containing project With v3oidcauthcode: Domain name containing project With v3samlpassword: Domain name containing project With v3adfspassword: Domain name containing project With password: Domain name containing project With v3oidcclientcredentials: Domain name containing project With v3tokenlessauth: Domain name containing project With v3totp: Domain name containing project With v3oidcaccesstoken: Domain name containing project With v3multifactor: Domain name containing project With v3token: Domain name containing project With v3applicationcredential: Domain name containing project With v3password: Domain name containing project (Env: OS_PROJECT_DOMAIN_NAME)
<code>--os-trust-id <auth-trust-id></code>	With token: trust id with v3oidcpassword: trust id With v3oidcauthcode: Trust ID With v3samlpassword: Trust ID With v3adfspassword: Trust ID With password: Trust ID With v2password: Trust ID With v3oidcclientcredentials: Trust ID With v2token: Trust ID With v3totp: Trust ID With v3oidcaccesstoken: Trust ID With v3multifactor: Trust ID With v3token: Trust ID With v3applicationcredential: Trust ID With v3password: Trust ID (Env: OS_TRUST_ID)
<code>--os-default-domain-id <auth-default-domain-id></code>	With token: optional domain id to use with v3 and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. With password: Optional domain ID to use with v3 and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. (Env: OS_DEFAULT_DOMAIN_ID)
<code>--os-default-domain-name <auth-default-domain-name></code>	With token: optional domain name to use with v3 api and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. With password: Optional domain name to use with v3 API and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. (Env: OS_DEFAULT_DOMAIN_NAME)
<code>--os-token <auth-token></code>	With token: token to authenticate with admin_token: The token that will always be used With v2token: Token With v3token: Token to authenticate with (Env: OS_TOKEN)

Value	Summary
<code>--os-identity-provider <auth-identity-provider></code>	With v3oidcpassword: identity provider's name with v3oidcauthcode: Identity Provider's name With v3samlpayload: Identity Provider's name With v3adfspassword: Identity Provider's name With v3oidcclientcredentials: Identity Provider's name With v3oidcaccesstoken: Identity Provider's name (Env: OS_IDENTITY_PROVIDER)
<code>--os-protocol <auth-protocol></code>	With v3oidcpassword: protocol for federated plugin With v3oidcauthcode: Protocol for federated plugin With v3samlpayload: Protocol for federated plugin With v3adfspassword: Protocol for federated plugin With v3oidcclientcredentials: Protocol for federated plugin With v3oidcaccesstoken: Protocol for federated plugin (Env: OS_PROTOCOL)
<code>--os-client-id <auth-client-id></code>	With v3oidcpassword: oauth 2.0 client id with v3oidcauthcode: OAuth 2.0 Client ID With v3oidcclientcredentials: OAuth 2.0 Client ID (Env: OS_CLIENT_ID)
<code>--os-client-secret <auth-client-secret></code>	With v3oidcpassword: oauth 2.0 client secret with v3oidcauthcode: OAuth 2.0 Client Secret With v3oidcclientcredentials: OAuth 2.0 Client Secret (Env: OS_CLIENT_SECRET)
<code>--os-openid-scope <auth-openid-scope></code>	With v3oidcpassword: openid connect scope that is requested from authorization server. Note that the OpenID Connect specification states that "openid" must be always specified. With v3oidcauthcode: OpenID Connect scope that is requested from authorization server. Note that the OpenID Connect specification states that "openid" must be always specified. With v3oidcclientcredentials: OpenID Connect scope that is requested from authorization server. Note that the OpenID Connect specification states that "openid" must be always specified. (Env: OS_OPENID_SCOPE)

Value	Summary
<code>--os-access-token-endpoint <auth-access-token-endpoint></code>	With <code>v3oidcpassword</code>: openid connect provider token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided by the server in the discovery document. With <code>v3oidcauthcode</code>: OpenID Connect Provider Token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided by the server in the discovery document. With <code>v3oidcclientcredentials</code>: OpenID Connect Provider Token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided by the server in the discovery document. (Env: <code>OS_ACCESS_TOKEN_ENDPOINT</code>)
<code>--os-discovery-endpoint <auth-discovery-endpoint></code>	With <code>v3oidcpassword</code>: openid connect discovery document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration With <code>v3oidcauthcode</code>: OpenID Connect Discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration With <code>v3oidcclientcredentials</code>: OpenID Connect Discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration (Env: <code>OS_DISCOVERY_ENDPOINT</code>)
<code>--os-access-token-type <auth-access-token-type></code>	With <code>v3oidcpassword</code>: oauth 2.0 authorization server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" With <code>v3oidcauthcode</code>: OAuth 2.0 Authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" With <code>v3oidcclientcredentials</code>: OAuth 2.0 Authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" (Env: <code>OS_ACCESS_TOKEN_TYPE</code>)

Value	Summary
--os-username <auth-username>	With v3oidcpassword: username with v3samlpassword: Username With v3adfspassword: Username With password: Username With v2password: Username to login with With v1password: Username to login with With v3totp: Username With v3applicationcredential: Username With v3password: Username (Env: OS_USERNAME)
--os-password <auth-password>	With v3oidcpassword: password with v3samlpassword: Password With v3adfspassword: Password With password: User's password With v2password: Password to use With v1password: Password to use With v3password: User's password (Env: OS_PASSWORD)
--os-user <auth-user>	With gnocchi-basic: user (env: os_user)
--os-endpoint <auth-endpoint>	With gnocchi-basic: gnocchi endpoint with admin_token: The endpoint that will always be used With none: The endpoint that will always be used With noauth: Cinder endpoint With gnocchi-noauth: Gnocchi endpoint (Env: OS_ENDPOINT)
--os-redirect-uri <auth-redirect-uri>	With v3oidcauthcode: openid connect redirect url (env: OS_REDIRECT_URI)
--os-code <auth-code>	With v3oidcauthcode: oauth 2.0 authorization code (Env: OS_CODE)
--os-identity-provider-url <auth-identity-provider-url>	With v3samlpassword: an identity provider url, where the SAML2 authentication request will be sent. With v3adfspassword: An Identity Provider URL, where the SAML authentication request will be sent. (Env: OS_IDENTITY_PROVIDER_URL)
--os-service-provider-endpoint <auth-service-provider-endpoint>	With v3adfspassword: service provider's endpoint (env: OS_SERVICE_PROVIDER_ENDPOINT)
--os-service-provider-entity-id <auth-service-provider-entity-id>	With v3adfspassword: service provider's saml entity id (Env: OS_SERVICE_PROVIDER_ENTITY_ID)
--os-user-id <auth-user-id>	With password: user id with v2password: user id to login with With v3totp: User ID With v3applicationcredential: User ID With noauth: User ID With v3password: User ID With gnocchi-noauth: User ID With aodh-noauth: User ID (Env: OS_USER_ID)

Value	Summary
<code>--os-user-domain-id <auth-user-domain-id></code>	With password: user's domain id with v3totp: user's domain id With v3applicationcredential: User's domain id With v3password: User's domain id (Env: OS_USER_DOMAIN_ID)
<code>--os-user-domain-name <auth-user-domain-name></code>	With password: user's domain name with v3totp: user's domain name With v3applicationcredential: User's domain name With v3password: User's domain name (Env: OS_USER_DOMAIN_NAME)
<code>--os-passcode <auth-passcode></code>	With v3totp: user's totp passcode (env: os_passcode)
<code>--os-consumer-key <auth-consumer-key></code>	With v3oauth1: oauth consumer id/key (env: OS_CONSUMER_KEY)
<code>--os-consumer-secret <auth-consumer-secret></code>	With v3oauth1: oauth consumer secret (env: OS_CONSUMER_SECRET)
<code>--os-access-key <auth-access-key></code>	With v3oauth1: oauth access key (env: os_access_key)
<code>--os-access-secret <auth-access-secret></code>	With v3oauth1: oauth access secret (env: OS_ACCESS_SECRET)
<code>--os-access-token <auth-access-token></code>	With v3oidcaccess token: oauth 2.0 access token (env: OS_ACCESS_TOKEN)
<code>--os-auth-methods <auth-auth-methods></code>	With v3multifactor: methods to authenticate with. (Env: OS_AUTH_METHODS)
<code>--os-application-credential-secret <auth-application-credential-secret></code>	With v3applicationcredential: application credential auth secret (Env: OS_APPLICATION_CREDENTIAL_SECRET)
<code>--os-application-credential-id <auth-application-credential-id></code>	With v3applicationcredential: application credential ID (Env: OS_APPLICATION_CREDENTIAL_ID)
<code>--os-application-credential-name <auth-application-credential-name></code>	With v3applicationcredential: application credential name (Env: OS_APPLICATION_CREDENTIAL_NAME)
<code>--os-roles <auth-roles></code>	With gnocchi-noauth: roles with aodh-noauth: roles (Env: OS_ROLES)

Value	Summary
<code>--os-aodh-endpoint <auth-aodh-endpoint></code>	With aodh-noauth: aodh endpoint (env: OS_AODH_ENDPOINT)

CHAPTER 2. ACCESS

This chapter describes the commands under the **access** command.

2.1. ACCESS TOKEN CREATE

Usage:

```
openstack access token create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             --consumer-key <consumer-key>
                             --consumer-secret <consumer-secret>
                             --request-key <request-key>
                             --request-secret <request-secret>
                             --verifier <verifier>
```

Create an access token

Table 2.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--consumer-key <consumer-key>	Consumer key (required)
--consumer-secret <consumer-secret>	Consumer secret (required)
--request-key <request-key>	Request token to exchange for access token (required)
--request-secret <request-secret>	Secret associated with <request-key> (required)
--verifier <verifier>	Verifier associated with <request-key> (required)

Table 2.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 2.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 2.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 2.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 3. ACL

This chapter describes the commands under the **acl** command.

3.1. ACL DELETE

Usage:

```
openstack acl delete [-h] URI
```

Delete ACLs for a secret or container as identified by its href.

Table 3.1. Positional Arguments

Value	Summary
None	None

Table 3.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-barbicanclient plugin.

3.2. ACL GET

Usage:

```
openstack acl get [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                  [--quote {all,minimal,none,nonnumeric}] [--noindent]
                  [--max-width <integer>] [--fit-width] [--print-empty]
                  [--sort-column SORT_COLUMN]
                  URI
```

Retrieve ACLs for a secret or container by providing its href.

Table 3.3. Positional Arguments

Value	Summary
None	None

Table 3.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 3.5. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.6. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 3.7. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 3.8. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

3.3. ACL SUBMIT

Usage:

```
openstack acl submit [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
```

```

[--print-empty] [--sort-column SORT_COLUMN]
[--user [USERS]]
[--project-access | --no-project-access]
[--operation-type {read}]
URI

```

Submit ACL on a secret or container as identified by its href.

Table 3.9. Positional Arguments

Value	Summary
None	None

Table 3.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--user [USERS], -u [USERS]	Keystone userid(s) for acl.
--project-access	Flag to enable project access behavior.
--no-project-access	Flag to disable project access behavior.
--operation-type {read}, -o {read}	Type of barbican operation acl is set for

Table 3.11. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.12. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 3.13. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 3.14. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

3.4. ACL USER ADD

Usage:

```

openstack acl user add [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--user [USERS]]
                        [--project-access | --no-project-access]
                        [--operation-type {read}]
                        URI

```

Add ACL users to a secret or container as identified by its href.

Table 3.15. Positional Arguments

Value	Summary
None	None

Table 3.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--user [USERS], -u [USERS]</code>	Keystone userid(s) for acl.
<code>--project-access</code>	Flag to enable project access behavior.
<code>--no-project-access</code>	Flag to disable project access behavior.
<code>--operation-type {read}, -o {read}</code>	Type of barbican operation acl is set for

Table 3.17. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.18. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 3.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 3.20. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

3.5. ACL USER REMOVE

Usage:

```

openstack acl user remove [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--user [USERS]]
                        [--project-access | --no-project-access]
                        [--operation-type {read}]
                        URI

```

Remove ACL users from a secret or container as identified by its href.

Table 3.21. Positional Arguments

Value	Summary
None	None

Table 3.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--user [USERS], -u [USERS]	Keystone userid(s) for acl.
--project-access	Flag to enable project access behavior.
--no-project-access	Flag to disable project access behavior.
--operation-type {read}, -o {read}	Type of barbican operation acl is set for

Table 3.23. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.24. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 3.25. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 3.26. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

CHAPTER 4. ACTION

This chapter describes the commands under the **action** command.

4.1. ACTION DEFINITION CREATE

Usage:

```
openstack action definition create [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--marker [MARKER]]
                                [--limit [LIMIT]]
                                [--sort_keys [SORT_KEYS]]
                                [--sort_dirs [SORT_DIRS]]
                                [--filter FILTERS] [--public]
                                definition
```

Create new action.

Table 4.1. Positional Arguments

Value	Summary
None	None

Table 4.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Value	Summary
<code>--public</code>	With this flag action will be marked as "public".

Table 4.3. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.4. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 4.5. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

4.2. ACTION DEFINITION DEFINITION SHOW

Usage:

```
openstack action definition definition show [-h] name
```

Show action definition.

Table 4.7. Positional Arguments

Value	Summary
None	None

Table 4.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

4.3. ACTION DEFINITION DELETE

Usage:

```
openstack action definition delete [-h] action [action ...]
```

Delete action.

Table 4.9. Positional Arguments

Value	Summary
None	None

Table 4.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

4.4. ACTION DEFINITION LIST

Usage:

```
openstack action definition list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--marker [MARKER]] [--limit [LIMIT]]
[--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]]
[--filter FILTERS]

```

List all actions.

Table 4.11. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Table 4.12. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.13. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 4.14. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.15. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

4.5. ACTION DEFINITION SHOW

Usage:

```

openstack action definition show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                action

```

Show specific action.

Table 4.16. Positional Arguments

Value	Summary
None	None

Table 4.17. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 4.18. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 4.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 4.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

4.6. ACTION DEFINITION UPDATE

Usage:

```

openstack action definition update [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]

```

```

[--marker [MARKER]]
[--limit [LIMIT]]
[--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]]
[--filter FILTERS] [--id ID]
[--public]
definition

```

Update action.

Table 4.22. Positional Arguments

Value	Summary
None	None

Table 4.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.
--id ID	Action id.
--public	With this flag action will be marked as "public".

Table 4.24. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.25. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 4.26. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.27. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

4.7. ACTION EXECUTION DELETE

Usage:

```

openstack action execution delete [-h]
                                action_execution
                                [action_execution ...]

```

Delete action execution.

Table 4.28. Positional Arguments

Value	Summary
None	None

Table 4.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

4.8. ACTION EXECUTION INPUT SHOW

Usage:

```
openstack action execution input show [-h] id
```

Show Action execution input data.

Table 4.30. Positional Arguments

Value	Summary
None	None

Table 4.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

4.9. ACTION EXECUTION LIST

Usage:

```
openstack action execution list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--marker [MARKER]] [--limit [LIMIT]]
                                [--sort_keys [SORT_KEYS]]
                                [--sort_dirs [SORT_DIRS]]
                                [--filter FILTERS] [--oldest]
                                [task_execution_id]
```

List all Action executions.

Table 4.32. Positional Arguments

Value	Summary
None	None

Table 4.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.
--oldest	Display the executions starting from the oldest entries instead of the newest

Table 4.34. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.35. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 4.36. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 4.37. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

4.10. ACTION EXECUTION OUTPUT SHOW

Usage:

```
openstack action execution output show [-h] id
```

Show Action execution output data.

Table 4.38. Positional Arguments

Value	Summary
None	None

Table 4.39. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

4.11. ACTION EXECUTION RUN

Usage:

```
openstack action execution run [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [-s] [--run-sync]
                             [-t TARGET]
                             name [input]
```

Create new Action execution or just run specific action.

Table 4.40. Positional Arguments

Value	Summary
None	None

Table 4.41. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-s, --save-result	Save the result into db.
--run-sync	Run the action synchronously.
-t TARGET, --target TARGET	Action will be executed on <target> executor.

Table 4.42. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 4.43. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 4.44. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 4.45. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

4.12. ACTION EXECUTION SHOW

Usage:

```

openstack action execution show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                action_execution

```

Show specific Action execution.

Table 4.46. Positional Arguments

Value	Summary
None	None

Table 4.47. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 4.48. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 4.49. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.50. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 4.51. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

4.13. ACTION EXECUTION UPDATE

Usage:

```

openstack action execution update [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--state {PAUSED,RUNNING,SUCCESS,ERROR,CANCELLED}]
                                [--output OUTPUT]
                                id

```

-

Update specific Action execution.

Table 4.52. Positional Arguments

Value	Summary
None	None

Table 4.53. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--state {PAUSED,RUNNING,SUCCESS,ERROR,CANCELLED}	Action execution state
--output OUTPUT	Action execution output

Table 4.54. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 4.55. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 4.56. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 4.57. Table Formatter

Value	Summary

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

CHAPTER 5. ADDRESS

This chapter describes the commands under the **address** command.

5.1. ADDRESS SCOPE CREATE

Usage:

```
openstack address scope create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--ip-version {4,6}]
                               [--project <project>]
                               [--project-domain <project-domain>]
                               [--share | --no-share]
                               <name>
```

Create a new Address Scope

Table 5.1. Positional Arguments

Value	Summary
None	None

Table 5.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--ip-version {4,6}	Ip version (default is 4)
--project <project>	Owner’s project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	Share the address scope between projects
--no-share	Do not share the address scope between projects (default)

Table 5.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 5.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 5.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 5.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

5.2. ADDRESS SCOPE DELETE

Usage:

```
openstack address scope delete [-h]
                               <address-scope> [<address-scope> ...]
```

Delete address scope(s)

Table 5.7. Positional Arguments

Value	Summary
None	None

Table 5.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

5.3. ADDRESS SCOPE LIST

Usage:

```
openstack address scope list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--name <name>]
                             [--ip-version <ip-version>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--share | --no-share]
```

List address scopes

Table 5.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List only address scopes of given name in output
--ip-version <ip-version>	List address scopes of given ip version networks (4 or 6)
--project <project>	List address scopes according to their project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	List address scopes shared between projects

Value	Summary
<code>--no-share</code>	List address scopes not shared between projects

Table 5.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 5.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 5.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 5.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

5.4. ADDRESS SCOPE SET

Usage:


```
openstack address scope set [-h] [--name <name>] [--share | --no-share]
                             <address-scope>
```

Set address scope properties

Table 5.14. Positional Arguments

Value	Summary
None	None

Table 5.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set address scope name
--share	Share the address scope between projects
--no-share	Do not share the address scope between projects

5.5. ADDRESS SCOPE SHOW

Usage:

```
openstack address scope show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <address-scope>
```

Display address scope details

Table 5.16. Positional Arguments

Value	Summary
None	None

Table 5.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 5.18. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 5.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 5.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 5.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 6. AGGREGATE

This chapter describes the commands under the **aggregate** command.

6.1. AGGREGATE ADD HOST

Usage:

```
openstack aggregate add host [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <aggregate> <host>
```

Add host to aggregate

Table 6.1. Positional Arguments

Value	Summary
None	None

Table 6.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 6.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 6.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 6.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 6.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

6.2. AGGREGATE CREATE

Usage:

```

openstack aggregate create [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty] [--zone <availability-zone>]
                           [--property <key=value>]
                           <name>

```

Create a new aggregate

Table 6.7. Positional Arguments

Value	Summary
None	None

Table 6.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--zone <availability-zone></code>	Availability zone name
<code>--property <key=value></code>	Property to add to this aggregate (repeat option to set multiple properties)

Table 6.9. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 6.10. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 6.11. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 6.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

6.3. AGGREGATE DELETE

Usage:

```
openstack aggregate delete [-h] <aggregate> [<aggregate> ...]
```

Delete existing aggregate(s)

Table 6.13. Positional Arguments

Value	Summary
None	None

Table 6.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

6.4. AGGREGATE LIST

Usage:

```

openstack aggregate list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--long]

```

List all aggregates

Table 6.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 6.16. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 6.17. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 6.18. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 6.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

6.5. AGGREGATE REMOVE HOST

Usage:

```
openstack aggregate remove host [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <aggregate> <host>
```

Remove host from aggregate

Table 6.20. Positional Arguments

Value	Summary
None	None

Table 6.21. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 6.22. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 6.23. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 6.24. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 6.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

6.6. AGGREGATE SET

Usage:

```
openstack aggregate set [-h] [--name <name>]
                        [--zone <availability-zone>]
                        [--property <key=value>] [--no-property]
```


`<aggregate>`

Set aggregate properties

Table 6.26. Positional Arguments

Value	Summary
None	None

Table 6.27. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set aggregate name
<code>--zone <availability-zone></code>	Set availability zone name
<code>--property <key=value></code>	Property to set on <aggregate> (repeat option to set multiple properties)
<code>--no-property</code>	Remove all properties from <aggregate> (specify both
<code>--property</code> and <code>--no-property</code> to overwrite the current	Properties)

6.7. AGGREGATE SHOW

Usage:

```

openstack aggregate show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <aggregate>

```

Display aggregate details

Table 6.28. Positional Arguments

Value	Summary
None	None

Table 6.29. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 6.30. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 6.31. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 6.32. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 6.33. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

6.8. AGGREGATE UNSET

Usage:

```
openstack aggregate unset [-h] [--property <key>] <aggregate>
```

Unset aggregate properties

Table 6.34. Positional Arguments

Value	Summary
None	None

Table 6.35. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from aggregate (repeat option to remove multiple properties)

CHAPTER 7. ALARM

This chapter describes the commands under the **alarm** command.

7.1. ALARM CREATE

Usage:

```
openstack alarm create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] --name <NAME> -t <TYPE>
                        [--project-id <PROJECT_ID>]
                        [--user-id <USER_ID>]
                        [--description <DESCRIPTION>] [--state <STATE>]
                        [--severity <SEVERITY>] [--enabled {True|False}]
                        [--alarm-action <Webhook URL>]
                        [--ok-action <Webhook URL>]
                        [--insufficient-data-action <Webhook URL>]
                        [--time-constraint <Time Constraint>]
                        [--repeat-actions {True|False}]
                        [--query <QUERY>]
                        [--comparison-operator <OPERATOR>]
                        [--evaluation-periods <EVAL_PERIODS>]
                        [--threshold <THRESHOLD>]
                        [--event-type <EVENT_TYPE>]
                        [--granularity <GRANULARITY>]
                        [--aggregation-method <AGGR_METHOD>]
                        [--metric <METRIC>]
                        [--resource-type <RESOURCE_TYPE>]
                        [--resource-id <RESOURCE_ID>]
                        [--composite-rule <COMPOSITE_RULE>]
```

Create an alarm

Table 7.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm
-t <TYPE>, --type <TYPE>	Type of alarm, should be one of: event, composite, gnocchi_resources_threshold, gnocchi_aggregation_by_metrics_threshold, gnocchi_aggregation_by_resources_threshold.
--project-id <PROJECT_ID>	Project to associate with alarm (configurable by admin users only)

Value	Summary
--user-id <USER_ID>	User to associate with alarm (configurable by admin users only)
--description <DESCRIPTION>	Free text description of the alarm
--state <STATE>	State of the alarm, one of: [<i>ok, alarm, insufficient data</i>]
--severity <SEVERITY>	Severity of the alarm, one of: [<i>low, moderate, critical</i>]
--enabled {True	False}
True if alarm evaluation is enabled	--alarm-action <Webhook URL>
Url to invoke when state transitions to alarm. may be used multiple times	--ok-action <Webhook URL>
Url to invoke when state transitions to ok. may be used multiple times	--insufficient-data-action <Webhook URL>
Url to invoke when state transitions to insufficient data. May be used multiple times	--time-constraint <Time Constraint>
Only evaluate the alarm if the time at evaluation is within this time constraint. Start point(s) of the constraint are specified with a cron expression, whereas its duration is given in seconds. Can be specified multiple times for multiple time constraints, format is: name=<CONSTRAINT_NAME>;start=<CRON>;duration=<SECONDS>;[description=<DESCRIPTION>;[timezone=<IANA Timezone>]]	--repeat-actions {True
False}	True if actions should be repeatedly notified while alarm remains in target state

Table 7.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 7.3. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.4. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 7.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

Table 7.6. common alarm rules

Value	Summary
<code>--query <QUERY></code>	For alarms of type event: key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean. For alarms of type gnocchi_aggregation_by_resources_threshold: need to specify a complex query json string, like: {"and": [{"="": {"ended_at": null}}, ...]}.
<code>--comparison-operator <OPERATOR></code>	Operator to compare with, one of: [<i>lt, le, eq, ne, ge, gt</i>]
<code>--evaluation-periods <EVAL_PERIODS></code>	Number of periods to evaluate over
<code>--threshold <THRESHOLD></code>	Threshold to evaluate against.

Table 7.7. event alarm

Value	Summary
<code>--event-type <EVENT_TYPE></code>	Event type to evaluate against

Table 7.8. common gnocchi alarm rules

Value	Summary
--granularity <GRANULARITY>	The time range in seconds over which to query.
--aggregation-method <AGGR_METHOD>	The aggregation_method to compare to the threshold.
--metric <METRIC>, --metrics <METRIC>	The metric id or name depending of the alarm type

Table 7.9. gnocchi resource threshold alarm

Value	Summary
--resource-type <RESOURCE_TYPE>	The type of resource.
--resource-id <RESOURCE_ID>	The id of a resource.

Table 7.10. composite alarm

Value	Summary
--composite-rule <COMPOSITE_RULE>	Composite threshold rule with json format, the form can be a nested dict which combine gnocchi rules by "and", "or". For example, the form is like: {"or": [RULE1, RULE2, {"and": [RULE3, RULE4]}]}. This command is provided by the aodhclient plugin.

7.2. ALARM DELETE

Usage:

```
openstack alarm delete [-h] [--name <NAME>] [<ALARM ID or NAME>]
```

Delete an alarm

Table 7.11. Positional Arguments

Value	Summary
None	None

Table 7.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm This command is provided by the aodhclient plugin.

7.3. ALARM-HISTORY SEARCH

Usage:

```
openstack alarm-history search [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--query QUERY]
```

Show history for all alarms based on query

Table 7.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--query QUERY	Rich query supported by aodh, e.g. project_id!=my-id user_id=foo or user_id=bar

Table 7.14. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 7.15. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Value	Summary

Table 7.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 7.17. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the aodhclient plugin.

7.4. ALARM-HISTORY SHOW

Usage:

```
openstack alarm-history show [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--limit <LIMIT>] [--marker <MARKER>]
                             [--sort <SORT_KEY:SORT_DIR>]
                             <alarm-id>
```

Show history for an alarm

Table 7.18. Positional Arguments

Value	Summary
None	None

Table 7.19. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit <LIMIT></code>	Number of resources to return (default is server default)
<code>--marker <MARKER></code>	Last item of the previous listing. return the next results after this value,the supported marker is event_id.
<code>--sort <SORT_KEY:SORT_DIR></code>	Sort of resource attribute. e.g. timestamp:desc

Table 7.20. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 7.21. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 7.22. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.23. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>aodhclient</code> plugin.

7.5. ALARM LIST

Usage:

```
openstack alarm list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--query QUERY | --filter <KEY1=VALUE1;KEY2=VALUE2...>]
                    [--limit <LIMIT>] [--marker <MARKER>]
                    [--sort <SORT_KEY:SORT_DIR>]
```

List alarms

Table 7.24. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--query QUERY</code>	Rich query supported by aodh, e.g. <code>project_id!=my-id</code> <code>user_id=foo</code> or <code>user_id=bar</code>
<code>--filter <KEY1=VALUE1;KEY2=VALUE2...></code>	Filter parameters to apply on returned alarms.
<code>--limit <LIMIT></code>	Number of resources to return (default is server default)
<code>--marker <MARKER></code>	Last item of the previous listing. return the next results after this value,the supported marker is <code>alarm_id</code> .
<code>--sort <SORT_KEY:SORT_DIR></code>	Sort of resource attribute, e.g. <code>name:asc</code>

Table 7.25. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 7.26. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 7.27. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.28. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the aodhclient plugin.

7.6. ALARM SHOW

Usage:

```
openstack alarm show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
```

```
[--print-empty] [--name <NAME>]
[<ALARM ID or NAME>]
```

Show an alarm

Table 7.29. Positional Arguments

Value	Summary
None	None

Table 7.30. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm

Table 7.31. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 7.32. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 7.33. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 7.34. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the aodhclient plugin.

7.7. ALARM STATE GET

Usage:

```
openstack alarm state get [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--name <NAME>]
                        [<ALARM ID or NAME>]
```

Get state of an alarm

Table 7.35. Positional Arguments

Value	Summary
None	None

Table 7.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm

Table 7.37. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 7.38. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 7.39. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 7.40. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the aodhclient plugin.

7.8. ALARM STATE SET

Usage:

```
openstack alarm state set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--name <NAME>] --state
                        <STATE>
                        [<ALARM ID or NAME>]
```

Set state of an alarm

Table 7.41. Positional Arguments

Value	Summary
None	None

Table 7.42. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm
--state <STATE>	State of the alarm, one of: [<i>ok, alarm, insufficient data</i>]

Table 7.43. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 7.44. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 7.45. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 7.46. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the aodhclient plugin.

7.9. ALARM UPDATE

Usage:

```

openstack alarm update [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--name <NAME>] [-t <TYPE>]
                        [--project-id <PROJECT_ID>]
                        [--user-id <USER_ID>]
                        [--description <DESCRIPTION>] [--state <STATE>]
                        [--severity <SEVERITY>] [--enabled {True|False}]
                        [--alarm-action <Webhook URL>]
                        [--ok-action <Webhook URL>]
                        [--insufficient-data-action <Webhook URL>]
                        [--time-constraint <Time Constraint>]
                        [--repeat-actions {True|False}]
                        [--query <QUERY>]
                        [--comparison-operator <OPERATOR>]
                        [--evaluation-periods <EVAL_PERIODS>]
                        [--threshold <THRESHOLD>]
                        [--event-type <EVENT_TYPE>]
                        [--granularity <GRANULARITY>]
                        [--aggregation-method <AGGR_METHOD>]
                        [--metric <METRIC>]
                        [--resource-type <RESOURCE_TYPE>]
                        [--resource-id <RESOURCE_ID>]
                        [--composite-rule <COMPOSITE_RULE>]
                        [<ALARM ID or NAME>]

```

Update an alarm

Table 7.47. Positional Arguments

Value	Summary
None	None

Table 7.48. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm
-t <TYPE>, --type <TYPE>	Type of alarm, should be one of: event, composite, gnocchi_resources_threshold, gnocchi_aggregation_by_metrics_threshold, gnocchi_aggregation_by_resources_threshold.
--project-id <PROJECT_ID>	Project to associate with alarm (configurable by admin users only)

Value	Summary
--user-id <USER_ID>	User to associate with alarm (configurable by admin users only)
--description <DESCRIPTION>	Free text description of the alarm
--state <STATE>	State of the alarm, one of: [<i>ok, alarm, insufficient data</i>]
--severity <SEVERITY>	Severity of the alarm, one of: [<i>low, moderate, critical</i>]
--enabled {True	False}
True if alarm evaluation is enabled	--alarm-action <Webhook URL>
Url to invoke when state transitions to alarm. may be used multiple times	--ok-action <Webhook URL>
Url to invoke when state transitions to ok. may be used multiple times	--insufficient-data-action <Webhook URL>
Url to invoke when state transitions to insufficient data. May be used multiple times	--time-constraint <Time Constraint>
Only evaluate the alarm if the time at evaluation is within this time constraint. Start point(s) of the constraint are specified with a cron expression, whereas its duration is given in seconds. Can be specified multiple times for multiple time constraints, format is: name=<CONSTRAINT_NAME>;start=<CRON>;duration=<SECONDS>;[description=<DESCRIPTION>;[timezone=<IANA Timezone>]]	--repeat-actions {True
False}	True if actions should be repeatedly notified while alarm remains in target state

Table 7.49. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 7.50. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.51. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 7.52. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

Table 7.53. common alarm rules

Value	Summary
<code>--query <QUERY></code>	For alarms of type event: <code>key[op]data_type::value;</code> list. <code>data_type</code> is optional, but if supplied must be string, integer, float, or boolean. For alarms of type <code>gnocchi_aggregation_by_resources_threshold</code> : need to specify a complex query json string, like: <code>{"and": [{"="": {"ended_at": null}}, ...]}</code> .
<code>--comparison-operator <OPERATOR></code>	Operator to compare with, one of: <code>[lt, le, eq, ne, ge, gt]</code>
<code>--evaluation-periods <EVAL_PERIODS></code>	Number of periods to evaluate over
<code>--threshold <THRESHOLD></code>	Threshold to evaluate against.

Table 7.54. event alarm

Value	Summary
<code>--event-type <EVENT_TYPE></code>	Event type to evaluate against

Table 7.55. common gnocchi alarm rules

Value	Summary
--granularity <GRANULARITY>	The time range in seconds over which to query.
--aggregation-method <AGGR_METHOD>	The aggregation_method to compare to the threshold.
--metric <METRIC>, --metrics <METRIC>	The metric id or name depending of the alarm type

Table 7.56. gnocchi resource threshold alarm

Value	Summary
--resource-type <RESOURCE_TYPE>	The type of resource.
--resource-id <RESOURCE_ID>	The id of a resource.

Table 7.57. composite alarm

Value	Summary
--composite-rule <COMPOSITE_RULE>	Composite threshold rule with json format, the form can be a nested dict which combine gnocchi rules by "and", "or". For example, the form is like: {"or": [RULE1, RULE2, {"and": [RULE3, RULE4]}]}. This command is provided by the aodhclient plugin.

CHAPTER 8. ALARMING

This chapter describes the commands under the **alarming** command.

8.1. ALARMING CAPABILITIES LIST

Usage:

```
openstack alarming capabilities list [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
```

List capabilities of alarming service

Table 8.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 8.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 8.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 8.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 8.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the aodhclient plugin.

CHAPTER 9. APPLICATION

This chapter describes the commands under the **application** command.

9.1. APPLICATION CREDENTIAL CREATE

Usage:

```
openstack application credential create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--secret <secret>]
                                         [--role <role>]
                                         [--expiration <expiration>]
                                         [--description <description>]
                                         [--unrestricted] [--restricted]
                                         <name>
```

Create new application credential

Table 9.1. Positional Arguments

Value	Summary
None	None

Table 9.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--secret <secret>	Secret to use for authentication (if not provided, one will be generated)
--role <role>	Roles to authorize (name or id) (repeat option to set multiple values)
--expiration <expiration>	Sets an expiration date for the application credential, format of YYYY-mm-ddTHH:MM:SS (if not provided, the application credential will not expire)
--description <description>	Application credential description

Value	Summary
--unrestricted	Enable application credential to create and delete other application credentials and trusts (this is potentially dangerous behavior and is disabled by default)
--restricted	Prohibit application credential from creating and deleting other application credentials and trusts (this is the default behavior)

Table 9.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 9.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 9.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 9.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

9.2. APPLICATION CREDENTIAL DELETE

Usage:

```
openstack application credential delete [-h]
                                     <application-credential>
                                     [<application-credential> ...]
```

Delete application credentials(s)

Table 9.7. Positional Arguments

Value	Summary
None	None

Table 9.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

9.3. APPLICATION CREDENTIAL LIST

Usage:

```
openstack application credential list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--user <user>]
                                     [--user-domain <user-domain>]
```

List application credentials

Table 9.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--user <user>	User whose application credentials to list (name or ID)

Value	Summary
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Table 9.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 9.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 9.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 9.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

9.4. APPLICATION CREDENTIAL SHOW

Usage:

```
openstack application credential show [-h]
```

```
[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
<application-credential>
```

Display application credential details

Table 9.14. Positional Arguments

Value	Summary
None	None

Table 9.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 9.16. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 9.17. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 9.18. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 9.19. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 10. AVAILABILITY

This chapter describes the commands under the **availability** command.

10.1. AVAILABILITY ZONE LIST

Usage:

```
openstack availability zone list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--compute] [--network] [--volume]
                                [--long]
```

List availability zones and their status

Table 10.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--compute	List compute availability zones
--network	List network availability zones
--volume	List volume availability zones
--long	List additional fields in output

Table 10.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 10.3. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 10.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 10.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 11. BAREMETAL

This chapter describes the commands under the **baremetal** command.

11.1. BAREMETAL ALLOCATION CREATE

Usage:

```
openstack baremetal allocation create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--resource-class RESOURCE_CLASS]
                                     [--trait TRAITS]
                                     [--candidate-node CANDIDATE_NODES]
                                     [--name NAME] [--uuid UUID]
                                     [--extra <key=value>]
                                     [--wait [<time-out>]]
                                     [--node NODE]
```

Create a new baremetal allocation.

Table 11.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-class RESOURCE_CLASS	Resource class to request.
--trait TRAITS	A trait to request. can be specified multiple times.
--candidate-node CANDIDATE_NODES	A candidate node for this allocation. can be specified multiple times. If at least one is specified, only the provided candidate nodes are considered for the allocation.
--name NAME	Unique name of the allocation.
--uuid UUID	Uuid of the allocation.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--wait [<time-out>]	Wait for the new allocation to become active. an error is returned if allocation fails and --wait is used. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

Value	Summary
<code>--node NODE</code>	Backfill this allocation from the provided node that has already been deployed. Bypasses the normal allocation process.

Table 11.2. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.3. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.4. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.2. BAREMETAL ALLOCATION DELETE

Usage:

```
openstack baremetal allocation delete [-h]
                                   <allocation> [<allocation> ...]
```

Unregister baremetal allocation(s).

Table 11.6. Positional Arguments

Value	Summary
None	None

Table 11.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.3. BAREMETAL ALLOCATION LIST

Usage:

```
openstack baremetal allocation list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   [--limit <limit>]
                                   [--marker <allocation>]
                                   [--sort <key>[:<direction>]]
                                   [--node <node>]
                                   [--resource-class <resource_class>]
                                   [--state <state>]
                                   [--long | --fields <field> [<field> ...]]
```

List baremetal allocations.

Table 11.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--limit <limit></code>	Maximum number of allocations to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
<code>--marker <allocation></code>	Allocation uuid (for example, of the last allocation in the list from a previous request). Returns the list of allocations after this UUID.
<code>--sort <key>[:<direction>]</code>	Sort output by specified allocation fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
<code>--node <node></code>	Only list allocations of this node (name or uuid).
<code>--resource-class <resource_class></code>	Only list allocations with this resource class.
<code>--state <state></code>	Only list allocations in this state.
<code>--long</code>	Show detailed information about the allocations.
<code>--fields <field> [<field> ...]</code>	One or more allocation fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.9. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.10. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.11. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.12. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.4. BAREMETAL ALLOCATION SET

Usage:

```
openstack baremetal allocation set [-h] [--name <name>]
                                [--extra <key=value>]
                                <allocation>
```

Set baremetal allocation properties.

Table 11.13. Positional Arguments

Value	Summary
None	None

Table 11.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the name of the allocation
--extra <key=value>	Extra property to set on this allocation (repeat option to set multiple extra properties) This command is provided by the python-ironicclient plugin.

11.5. BAREMETAL ALLOCATION SHOW

Usage:

```
openstack baremetal allocation show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--fields <field> [<field> ...]]
                                   <id>
```

Show baremetal allocation details.

Table 11.15. Positional Arguments

Value	Summary
None	None

Table 11.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	One or more allocation fields. only these fields will be fetched from the server.

Table 11.17. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.18. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.19. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.20. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.6. BAREMETAL ALLOCATION UNSET

Usage:

```
openstack baremetal allocation unset [-h] [--name] [--extra <key>]
                                   <allocation>
```

Unset baremetal allocation properties.

Table 11.21. Positional Arguments

Value	Summary
None	None

Table 11.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Unset the name of the allocation
--extra <key>	Extra property to unset on this baremetal allocation (repeat option to unset multiple extra property). This command is provided by the python-ironicclient plugin.

11.7. BAREMETAL CHASSIS CREATE

Usage:

```
openstack baremetal chassis create [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  [--description <description>]
                                  [--extra <key=value>]
                                  [--uuid <uuid>]
```

Create a new chassis.

Table 11.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the chassis
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--uuid <uuid>	Unique uuid of the chassis

Table 11.24. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.25. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.26. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.27. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.8. BAREMETAL CHASSIS DELETE

Usage:

```
openstack baremetal chassis delete [-h] <chassis> [<chassis> ...]
```

Delete a chassis.

Table 11.28. Positional Arguments

Value	Summary
None	None

Table 11.29. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-ironicclient</code> plugin.

11.9. BAREMETAL CHASSIS LIST

Usage:

```
openstack baremetal chassis list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
```

```

[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--fields <field> [<field> ...]]
[--limit <limit>] [--long]
[--marker <chassis>]
[--sort <key>[:<direction>]]

```

List the chassis.

Table 11.30. Optional Arguments

Value	Summary
<i>-h</i> , <i>--help</i>	Show this help message and exit
<i>--fields</i> <field> [<field> ...]	One or more chassis fields. only these fields will be fetched from the server. Cannot be used when <i>--long</i> is specified.
<i>--limit</i> <limit>	Maximum number of chassis to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
<i>--long</i>	Show detailed information about the chassis
<i>--marker</i> <chassis>	Chassis uuid (for example, of the last chassis in the list from a previous request). Returns the list of chassis after this UUID.
<i>--sort</i> <key>[:<direction>]	Sort output by specified chassis fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.

Table 11.31. Output Formatters

Value	Summary
<i>-f</i> {csv,json,table,value,yaml}, <i>--format</i> {csv,json,table,value,yaml}	The output format, defaults to table
<i>-c</i> COLUMN, <i>--column</i> COLUMN	Specify the column(s) to include, can be repeated
<i>--sort-column</i> SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.32. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.33. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.34. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.10. BAREMETAL CHASSIS SET

Usage:

```
openstack baremetal chassis set [-h] [--description <description>]
                                [--extra <key=value>]
                                <chassis>
```

Set chassis properties.

Table 11.35. Positional Arguments

Value	Summary
None	None

Table 11.36. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--description <description></code>	Set the description of the chassis
<code>--extra <key=value></code>	Extra to set on this chassis (repeat option to set multiple extras) This command is provided by the python-ironicclient plugin.

11.11. BAREMETAL CHASSIS SHOW

Usage:

```

openstack baremetal chassis show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--fields <field> [<field> ...]]
                                <chassis>

```

Show chassis details.

Table 11.37. Positional Arguments

Value	Summary
None	None

Table 11.38. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--fields <field> [<field> ...]</code>	One or more chassis fields. only these fields will be fetched from the server.

Table 11.39. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.40. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.41. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.42. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.12. BAREMETAL CHASSIS UNSET

Usage:

```
openstack baremetal chassis unset [-h] [--description] [--extra <key>]
                                <chassis>
```

Unset chassis properties.

Table 11.43. Positional Arguments

Value	Summary
None	None

Table 11.44. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--description	Clear the chassis description
--extra <key>	Extra to unset on this chassis (repeat option to unset multiple extras) This command is provided by the python-ironicclient plugin.

11.13. BAREMETAL CONDUCTOR LIST

Usage:

```

openstack baremetal conductor list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent] [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   [--limit <limit>]
                                   [--marker <conductor>]
                                   [--sort <key>[:<direction>]]
                                   [--long | --fields <field> [<field> ...]]

```

List baremetal conductors

Table 11.45. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of conductors to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <conductor>	Hostname of the conductor (for example, of the last conductor in the list from a previous request). Returns the list of conductors after this conductor.
--sort <key>[:<direction>]	Sort output by specified conductor fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--long	Show detailed information about the conductors.

Value	Summary
<code>--fields <field> [<field> ...]</code>	One or more conductor fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.46. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.47. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.48. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.49. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.14. BAREMETAL CONDUCTOR SHOW

Usage:

```
openstack baremetal conductor show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--fields <field> [<field> ...]]
                                   <conductor>
```

Show baremetal conductor details

Table 11.50. Positional Arguments

Value	Summary
None	None

Table 11.51. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	One or more conductor fields. only these fields will be fetched from the server.

Table 11.52. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.53. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.54. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.55. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.15. BAREMETAL CREATE

Usage:

```
openstack baremetal create [-h] <file> [<file> ...]
```

Create resources from files

Table 11.56. Positional Arguments

Value	Summary
None	None

Table 11.57. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.16. BAREMETAL DEPLOY TEMPLATE CREATE

Usage:

```
openstack baremetal deploy template create [-h]
                                           [-f {json,shell,table,value,yaml}]
```

```

[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width]
[--print-empty]
[--uuid <uuid>]
[--extra <key=value>]
--steps <steps>
<name>

```

Create a new deploy template

Table 11.58. Positional Arguments

Value	Summary
None	None

Table 11.59. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--uuid <uuid>	Uuid of the deploy template.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--steps <steps>	The deploy steps in json format. may be the path to a file containing the deploy steps; OR -, with the deploy steps being read from standard input; OR a string. The value should be a list of deploy-step dictionaries; each dictionary should have keys <i>interface</i> , <i>step</i> , <i>args</i> and <i>priority</i> .

Table 11.60. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.61. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.62. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.63. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.17. BAREMETAL DEPLOY TEMPLATE DELETE

Usage:

```
openstack baremetal deploy template delete [-h]
                                     <template> [<template> ...]
```

Delete deploy template(s).

Table 11.64. Positional Arguments

Value	Summary
None	None

Table 11.65. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.18. BAREMETAL DEPLOY TEMPLATE LIST

Usage:

```
openstack baremetal deploy template list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--limit <limit>]
                                         [--marker <template>]
                                         [--sort <key>[:<direction>]]
                                         [--long | --fields <field> [<field> ...]]
```

List baremetal deploy templates.

Table 11.66. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit <limit></code>	Maximum number of deploy templates to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
<code>--marker <template></code>	Deploytemplate uuid (for example, of the last deploy template in the list from a previous request). Returns the list of deploy templates after this UUID.
<code>--sort <key>[:<direction>]</code>	Sort output by specified deploy template fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
<code>--long</code>	Show detailed information about deploy templates.
<code>--fields <field> [<field> ...]</code>	One or more deploy template fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.67. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.68. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.69. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.70. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.19. BAREMETAL DEPLOY TEMPLATE SET

Usage:

```
openstack baremetal deploy template set [-h] [--name <name>]
                                         [--steps <steps>]
                                         [--extra <key=value>]
                                         <template>
```

Set baremetal deploy template properties.

Table 11.71. Positional Arguments

Value	Summary
None	None

Table 11.72. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set unique name of the deploy template. must be a valid trait name.
--steps <steps>	The deploy steps in json format. may be the path to a file containing the deploy steps; OR -, with the deploy steps being read from standard input; OR a string. The value should be a list of deploy-step dictionaries; each dictionary should have keys <i>interface</i> , <i>step</i> , <i>args</i> and <i>priority</i> .
--extra <key=value>	Extra to set on this baremetal deploy template (repeat option to set multiple extras). This command is provided by the python-ironicclient plugin.

11.20. BAREMETAL DEPLOY TEMPLATE SHOW

Usage:

```

openstack baremetal deploy template show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--fields <field> [<field> ...]]
                                         <template>

```

Show baremetal deploy template details.

Table 11.73. Positional Arguments

Value	Summary
None	None

Table 11.74. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--fields <field> [<field> ...]</code>	One or more deploy template fields. only these fields will be fetched from the server.

Table 11.75. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.76. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.77. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.78. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.21. BAREMETAL DEPLOY TEMPLATE UNSET

Usage:

```
openstack baremetal deploy template unset [-h] [--extra <key>]
                                         <template>
```

Unset baremetal deploy template properties.

Table 11.79. Positional Arguments

Value	Summary
None	None

Table 11.80. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--extra <key>	Extra to unset on this baremetal deploy template (repeat option to unset multiple extras). This command is provided by the python-ironicclient plugin.

11.22. BAREMETAL DRIVER LIST

Usage:

```
openstack baremetal driver list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--type <type>] [--long]
```

List the enabled drivers.

Table 11.81. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	Type of driver ("classic" or "dynamic"). the default is to list all of them.
--long	Show detailed information about the drivers.

Table 11.82. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.83. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.84. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.85. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.23. BAREMETAL DRIVER PASSTHRU CALL

Usage:

```
openstack baremetal driver passthru call [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
```

```

[--max-width <integer>]
[--fit-width] [--print-empty]
[--arg <key=value>]
[--http-method <http-method>]
<driver> <method>

```

Call a vendor passthru method for a driver.

Table 11.86. Positional Arguments

Value	Summary
None	None

Table 11.87. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--arg <key=value>	Argument to pass to the passthru method (repeat option to specify multiple arguments).
--http-method <http-method>	The http method to use in the passthru request. one of DELETE, GET, PATCH, POST, PUT. Defaults to <i>POST</i> .

Table 11.88. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.89. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.90. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.91. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.24. BAREMETAL DRIVER PASSTHRU LIST

Usage:

```
openstack baremetal driver passthru list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         <driver>
```

List available vendor passthru methods for a driver.

Table 11.92. Positional Arguments

Value	Summary
None	None

Table 11.93. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.94. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.95. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.96. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.97. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.25. BAREMETAL DRIVER PROPERTY LIST

Usage:

```
openstack baremetal driver property list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
```

```

[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
<driver>

```

List the driver properties.

Table 11.98. Positional Arguments

Value	Summary
None	None

Table 11.99. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.100. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.101. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.102. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.103. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.26. BAREMETAL DRIVER RAID PROPERTY LIST

Usage:

```

openstack baremetal driver raid property list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         <driver>

```

List a driver's RAID logical disk properties.

Table 11.104. Positional Arguments

Value	Summary
None	None

Table 11.105. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.106. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.107. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.108. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.109. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.27. BAREMETAL DRIVER SHOW

Usage:

```
openstack baremetal driver show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
```

```
[--max-width <integer>] [--fit-width]
[--print-empty]
<driver>
```

Show information about a driver.

Table 11.110. Positional Arguments

Value	Summary
None	None

Table 11.111. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.112. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.113. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.114. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.115. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.28. BAREMETAL INTROSPECTION ABORT

Usage:

```
openstack baremetal introspection abort [-h] node
```

Abort running introspection for node.

Table 11.116. Positional Arguments

Value	Summary
None	None

Table 11.117. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironic-inspector-client plugin.

11.29. BAREMETAL INTROSPECTION DATA SAVE

Usage:

```
openstack baremetal introspection data save [-h] [--file <filename>]
node
```

Save or display raw introspection data.

Table 11.118. Positional Arguments

Value	Summary
None	None

Table 11.119. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--file <filename>	Downloaded introspection data filename (default: stdout) This command is provided by the python-ironic-inspector-client plugin.

11.30. BAREMETAL INTROSPECTION INTERFACE LIST

Usage:

```

openstack baremetal introspection interface list [-h]
          [-f {csv,json,table,value,yaml}]
          [-c COLUMN]
          [--quote {all,minimal,none,nonnumeric}]
          [--noindent]
          [--max-width <integer>]
          [--fit-width]
          [--print-empty]
          [--sort-column SORT_COLUMN]
          [--vlan VLAN]
          [--long | --fields <field> [<field> ...]]
          node_ident

```

List interface data including attached switch port information.

Table 11.120. Positional Arguments

Value	Summary
None	None

Table 11.121. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--vlan VLAN	List only interfaces configured for this vlan id, can be repeated
--long	Show detailed information about interfaces.
--fields <field> [<field> ...]	Display one or more fields. can not be used when --long is specified

Table 11.122. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.123. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.124. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.125. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironic-inspector-client plugin.

11.31. BAREMETAL INTROSPECTION INTERFACE SHOW

Usage:

```
openstack baremetal introspection interface show [-h]
          [-f {json,shell,table,value,yaml}]
          [-c COLUMN]
```

```

[--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width]
[--print-empty]
[--fields <field> [<field> ...]]
node_id interface

```

Show interface data including attached switch port information.

Table 11.126. Positional Arguments

Value	Summary
None	None

Table 11.127. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	Display one or more fields.

Table 11.128. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.129. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.130. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.131. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironic-inspector-client</code> plugin.

11.32. BAREMETAL INTROSPECTION LIST

Usage:

```

openstack baremetal introspection list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--marker MARKER]
                                     [--limit LIMIT]

```

List introspection statuses

Table 11.132. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--marker MARKER</code>	Uuid of the last item on the previous page
<code>--limit LIMIT</code>	The amount of items to return

Table 11.133. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.134. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.135. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.136. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironic-inspector-client plugin.

11.33. BAREMETAL INTROSPECTION REPROCESS

Usage:

```
openstack baremetal introspection reprocess [-h] node
```

Reprocess stored introspection data

Table 11.137. Positional Arguments

Value	Summary
None	None

Table 11.138. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironic-inspector-client plugin.

11.34. BAREMETAL INTROSPECTION RULE DELETE

Usage:

```
openstack baremetal introspection rule delete [-h] uuid
```

Delete an introspection rule.

Table 11.139. Positional Arguments

Value	Summary
None	None

Table 11.140. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironic-inspector-client plugin.

11.35. BAREMETAL INTROSPECTION RULE IMPORT

Usage:

```
openstack baremetal introspection rule import [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         file
```

Import one or several introspection rules from a JSON/YAML file.

Table 11.141. Positional Arguments

Value	Summary
None	None

Table 11.142. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.143. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.144. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.145. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.146. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironic-inspector-client</code> plugin.

11.36. BAREMETAL INTROSPECTION RULE LIST

Usage:

```
openstack baremetal introspection rule list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
```

List all introspection rules.

Table 11.147. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.148. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.149. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.150. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.151. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironic-inspector-client</code> plugin.

11.37. BAREMETAL INTROSPECTION RULE PURGE

Usage:

```
openstack baremetal introspection rule purge [-h]
```

Drop all introspection rules.

Table 11.152. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-ironic-inspector-client</code> plugin.

11.38. BAREMETAL INTROSPECTION RULE SHOW

Usage:

```
openstack baremetal introspection rule show [-h]
      [-f {json,shell,table,value,yaml}]
      [-c COLUMN] [--noindent]
      [--prefix PREFIX]
      [--max-width <integer>]
      [--fit-width]
      [--print-empty]
      uuid
```


Show an introspection rule.

Table 11.153. Positional Arguments

Value	Summary
None	None

Table 11.154. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.155. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.156. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.157. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.158. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironic-inspector-client</code> plugin.

11.39. BAREMETAL INTROSPECTION START

Usage:

```

openstack baremetal introspection start [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--wait] [--check-errors]
                                         node [node ...]

```

Start the introspection.

Table 11.159. Positional Arguments

Value	Summary
None	None

Table 11.160. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait</code>	Wait for introspection to finish; the result will be displayed in the end
<code>--check-errors</code>	Check if errors occurred during the introspection; if any error occurs only the errors are displayed; can only be used with <code>--wait</code>

Table 11.161. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.162. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.163. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.164. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironic-inspector-client plugin.

11.40. BAREMETAL INTROSPECTION STATUS

Usage:

```

openstack baremetal introspection status [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
node

```

Get introspection status.

Table 11.165. Positional Arguments

Value	Summary
None	None

Table 11.166. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.167. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.168. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.169. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.170. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironic-inspector-client plugin.

11.41. BAREMETAL NODE ABORT

Usage:

```
openstack baremetal node abort [-h] <node>
```

Set provision state of baremetal node to *abort*

Table 11.171. Positional Arguments

Value	Summary
None	None

Table 11.172. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.42. BAREMETAL NODE ADD TRAIT

Usage:

```
openstack baremetal node add trait [-h] <node> <trait> [<trait> ...]
```

Add traits to a node.

Table 11.173. Positional Arguments

Value	Summary
None	None

Table 11.174. Optional Arguments

Value	Summary

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.43. BAREMETAL NODE ADOPT

Usage:

```
openstack baremetal node adopt [-h] [--wait [<time-out>]] <node>
```

Set provision state of baremetal node to *adopt*

Table 11.175. Positional Arguments

Value	Summary
None	None

Table 11.176. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely. This command is provided by the python-ironicclient plugin.

11.44. BAREMETAL NODE BIOS SETTING LIST

Usage:

```
openstack baremetal node bios setting list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         <node>
```

List a node’s BIOS settings.

Table 11.177. Positional Arguments

Value	Summary
None	None

Table 11.178. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.179. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.180. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.181. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.182. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.45. BAREMETAL NODE BIOS SETTING SHOW

Usage:

```

openstack baremetal node bios setting show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         <node> <setting name>

```

Show a specific BIOS setting for a node.

Table 11.183. Positional Arguments

Value	Summary
None	None

Table 11.184. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.185. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.186. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.187. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.188. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.46. BAREMETAL NODE BOOT DEVICE SET

Usage:

```
openstack baremetal node boot device set [-h] [--persistent]
                                     <node> <device>
```

Set the boot device for a node

Table 11.189. Positional Arguments

Value	Summary
None	None

Table 11.190. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--persistent	Make changes persistent for all future boots This command is provided by the python-ironicclient plugin.

11.47. BAREMETAL NODE BOOT DEVICE SHOW

Usage:

```
openstack baremetal node boot device show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--supported]
                                         <node>
```

Show the boot device information for a node

Table 11.191. Positional Arguments

Value	Summary
None	None

Table 11.192. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--supported	Show the supported boot devices

Table 11.193. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.194. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.195. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.196. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.48. BAREMETAL NODE CLEAN

Usage:

```
openstack baremetal node clean [-h] [--wait [<time-out>]] --clean-steps
                               <clean-steps>
                               <node>
```

Set provision state of baremetal node to *clean*

Table 11.197. Positional Arguments

Value	Summary
None	None

Table 11.198. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait [<time-out>]</code>	Wait for a node to reach the desired state, manageable. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

Value	Summary
<code>--clean-steps <clean-steps></code>	The clean steps in json format. may be the path to a file containing the clean steps; OR -, with the clean steps being read from standard input; OR a string. The value should be a list of clean-step dictionaries; each dictionary should have keys <i>interface</i> and <i>step</i> , and optional key <i>args</i> . This command is provided by the python-ironicclient plugin.

11.49. BAREMETAL NODE CONSOLE DISABLE

Usage:

```
openstack baremetal node console disable [-h] <node>
```

Disable console access for a node

Table 11.199. Positional Arguments

Value	Summary
None	None

Table 11.200. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.50. BAREMETAL NODE CONSOLE ENABLE

Usage:

```
openstack baremetal node console enable [-h] <node>
```

Enable console access for a node

Table 11.201. Positional Arguments

Value	Summary
None	None

Table 11.202. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.51. BAREMETAL NODE CONSOLE SHOW

Usage:

```

openstack baremetal node console show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <node>

```

Show console information for a node

Table 11.203. Positional Arguments

Value	Summary
None	None

Table 11.204. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.205. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.206. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.207. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.208. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.52. BAREMETAL NODE CREATE

Usage:

```

openstack baremetal node create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--chassis-uuid <chassis>] --driver
                                <driver> [--driver-info <key=value>]
                                [--property <key=value>]
                                [--extra <key=value>] [--uuid <uuid>]
                                [--name <name>]
                                [--bios-interface <bios_interface>]
                                [--boot-interface <boot_interface>]
                                [--console-interface <console_interface>]
                                [--deploy-interface <deploy_interface>]
                                [--inspect-interface <inspect_interface>]
                                [--management-interface <management_interface>]
                                [--network-interface <network_interface>]
                                [--power-interface <power_interface>]
                                [--raid-interface <raid_interface>]
                                [--rescue-interface <rescue_interface>]
                                [--storage-interface <storage_interface>]
                                [--vendor-interface <vendor_interface>]
                                [--resource-class <resource_class>]
                                [--conductor-group <conductor_group>]
                                [--automated-clean] [--owner <owner>]
                                [--description <description>]

```

Register a new node with the baremetal service

Table 11.209. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--chassis-uuid <chassis>	Uuid of the chassis that this node belongs to.
--driver <driver>	Driver used to control the node [required].
--driver-info <key=value>	Key/value pair used by the driver, such as out-of-band management credentials. Can be specified multiple times.
--property <key=value>	Key/value pair describing the physical characteristics of the node. This is exported to Nova and used by the scheduler. Can be specified multiple times.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--uuid <uuid>	Unique uuid for the node.
--name <name>	Unique name for the node.
--bios-interface <bios_interface>	Bios interface used by the node's driver. this is only applicable when the specified --driver is a hardware type.
--boot-interface <boot_interface>	Boot interface used by the node's driver. this is only applicable when the specified --driver is a hardware type.
--console-interface <console_interface>	Console interface used by the node's driver. this is only applicable when the specified --driver is a hardware type.
--deploy-interface <deploy_interface>	Deploy interface used by the node's driver. this is only applicable when the specified --driver is a hardware type.
--inspect-interface <inspect_interface>	Inspect interface used by the node's driver. this is only applicable when the specified --driver is a hardware type.
--management-interface <management_interface>	Management interface used by the node's driver. this is only applicable when the specified --driver is a hardware type.

Value	Summary
<code>--network-interface <network_interface></code>	Network interface used for switching node to cleaning/provisioning networks.
<code>--power-interface <power_interface></code>	Power interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--raid-interface <raid_interface></code>	Raid interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--rescue-interface <rescue_interface></code>	Rescue interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--storage-interface <storage_interface></code>	Storage interface used by the node's driver.
<code>--vendor-interface <vendor_interface></code>	Vendor interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--resource-class <resource_class></code>	Resource class for mapping nodes to nova flavors
<code>--conductor-group <conductor_group></code>	Conductor group the node will belong to
<code>--automated-clean</code>	Enable automated cleaning for the node
<code>--owner <owner></code>	Owner of the node.
<code>--description <description></code>	Description for the node.

Table 11.210. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.211. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.212. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.213. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.53. BAREMETAL NODE DELETE

Usage:

```
openstack baremetal node delete [-h] <node> [<node> ...]
```

Unregister baremetal node(s)

Table 11.214. Positional Arguments

Value	Summary
None	None

Table 11.215. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.54. BAREMETAL NODE DEPLOY

Usage:

```
openstack baremetal node deploy [-h] [--wait [<time-out>]]
                                [--config-drive <config-drive>]
                                <node>
```

Set provision state of baremetal node to *deploy*

Table 11.216. Positional Arguments

Value	Summary
None	None

Table 11.217. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.
--config-drive <config-drive>	A gzipped, base64-encoded configuration drive string OR the path to the configuration drive file OR the path to a directory containing the config drive files OR a JSON object to build config drive from. In case it's a directory, a config drive will be generated from it. In case it's a JSON object with optional keys meta_data , user_data and network_data , a config drive will be generated on the server side (see the bare metal API reference for more details). This command is provided by the python-ironicclient plugin.

11.55. BAREMETAL NODE INJECT NMI

Usage:

```
openstack baremetal node inject nmi [-h] <node>
```

Inject NMI to baremetal node

Table 11.218. Positional Arguments

Value	Summary
None	None

Table 11.219. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.56. BAREMETAL NODE INSPECT

Usage:

```
openstack baremetal node inspect [-h] [--wait [<time-out>]] <node>
```

Set provision state of baremetal node to *inspect*

Table 11.220. Positional Arguments

Value	Summary
None	None

Table 11.221. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, manageable. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely. This command is provided by the python-ironicclient plugin.

11.57. BAREMETAL NODE LIST

Usage:

```
openstack baremetal node list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--limit <limit>] [--marker <node>]
                               [--sort <key>[:<direction>]]
                               [--maintenance | --no-maintenance]
                               [--fault <fault>]
                               [--associated | --unassociated]
                               [--provision-state <provision state>]
                               [--driver <driver>]
                               [--resource-class <resource class>]
```

```

[--conductor-group <conductor_group>]
[--conductor <conductor>]
[--chassis <chassis UUID>]
[--owner <owner>]
[--description-contains <description_contains>]
[--long | --fields <field> [<field> ...]]

```

List baremetal nodes

Table 11.222. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of nodes to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <node>	Node uuid (for example, of the last node in the list from a previous request). Returns the list of nodes after this UUID.
--sort <key>[:<direction>]	Sort output by specified node fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--maintenance	Limit list to nodes in maintenance mode
--no-maintenance	Limit list to nodes not in maintenance mode
--fault <fault>	List nodes in specified fault.
--associated	List only nodes associated with an instance.
--unassociated	List only nodes not associated with an instance.
--provision-state <provision state>	List nodes in specified provision state.
--driver <driver>	Limit list to nodes with driver <driver>
--resource-class <resource class>	Limit list to nodes with resource class <resource class>
--conductor-group <conductor_group>	Limit list to nodes with conductor group <conductor group>
--conductor <conductor>	Limit list to nodes with conductor <conductor>
--chassis <chassis UUID>	Limit list to nodes of this chassis

Value	Summary
<code>--owner <owner></code>	Limit list to nodes with owner <owner>
<code>--description-contains <description_contains></code>	Limit list to nodes with description contains <description_contains>
<code>--long</code>	Show detailed information about the nodes.
<code>--fields <field> [<field> ...]</code>	One or more node fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.223. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.224. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.225. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.226. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.58. BAREMETAL NODE MAINTENANCE SET

Usage:

```
openstack baremetal node maintenance set [-h] [--reason <reason>]
                                         <node>
```

Set baremetal node to maintenance mode

Table 11.227. Positional Arguments

Value	Summary
None	None

Table 11.228. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--reason <reason>	Reason for setting maintenance mode. This command is provided by the python-ironicclient plugin.

11.59. BAREMETAL NODE MAINTENANCE UNSET

Usage:

```
openstack baremetal node maintenance unset [-h] <node>
```

Unset baremetal node from maintenance mode

Table 11.229. Positional Arguments

Value	Summary
None	None

Table 11.230. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.60. BAREMETAL NODE MANAGE

Usage:

```
openstack baremetal node manage [-h] [--wait [<time-out>]] <node>
```

Set provision state of baremetal node to *manage*

Table 11.231. Positional Arguments

Value	Summary
None	None

Table 11.232. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, manageable. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely. This command is provided by the python-ironicclient plugin.

11.61. BAREMETAL NODE PASSTHRU CALL

Usage:

```
openstack baremetal node passthru call [-h] [--arg <key=value>]
                                         [--http-method <http-method>]
                                         <node> <method>
```

Call a vendor passthru method for a node

Table 11.233. Positional Arguments

Value	Summary
None	None

Table 11.234. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--arg <key=value>	Argument to pass to the passthru method (repeat option to specify multiple arguments)
--http-method <http-method>	The http method to use in the passthru request. one of DELETE, GET, PATCH, POST, PUT. Defaults to POST. This command is provided by the python-ironicclient plugin.

11.62. BAREMETAL NODE PASSTHRU LIST

Usage:

```

openstack baremetal node passthru list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     <node>

```

List vendor passthru methods for a node

Table 11.235. Positional Arguments

Value	Summary
None	None

Table 11.236. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.237. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.238. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.239. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.240. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.63. BAREMETAL NODE POWER OFF

Usage:

```
openstack baremetal node power off [-h]
                                   [--power-timeout <power-timeout>]
                                   [--soft]
```

<node>

Power off a node

Table 11.241. Positional Arguments

Value	Summary
None	None

Table 11.242. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--power-timeout <power-timeout>	Timeout (in seconds, positive integer) to wait for the target power state before erroring out.
--soft	Request graceful power-off. This command is provided by the python-ironicclient plugin.

11.64. BAREMETAL NODE POWER ON

Usage:

```

openstack baremetal node power on [-h]
                                [--power-timeout <power-timeout>]
                                <node>

```

Power on a node

Table 11.243. Positional Arguments

Value	Summary
None	None

Table 11.244. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--power-timeout <power-timeout>	Timeout (in seconds, positive integer) to wait for the target power state before erroring out. This command is provided by the python-ironicclient plugin.

11.65. BAREMETAL NODE PROVIDE

Usage:

```
openstack baremetal node provide [-h] [--wait [<time-out>]] <node>
```

Set provision state of baremetal node to *provide*

Table 11.245. Positional Arguments

Value	Summary
None	None

Table 11.246. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, available. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely. This command is provided by the python-ironicclient plugin.

11.66. BAREMETAL NODE REBOOT

Usage:

```
openstack baremetal node reboot [-h] [--soft]
                                [--power-timeout <power-timeout>]
                                <node>
```

Reboot baremetal node

Table 11.247. Positional Arguments

Value	Summary
None	None

Table 11.248. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--soft</code>	Request graceful reboot.
<code>--power-timeout <power-timeout></code>	Timeout (in seconds, positive integer) to wait for the target power state before erroring out. This command is provided by the python-ironicclient plugin.

11.67. BAREMETAL NODE REBUILD

Usage:

```
openstack baremetal node rebuild [-h] [--wait [<time-out>]]
                                [--config-drive <config-drive>]
                                <node>
```

Set provision state of baremetal node to *rebuild*

Table 11.249. Positional Arguments

Value	Summary
None	None

Table 11.250. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait [<time-out>]</code>	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.
<code>--config-drive <config-drive></code>	A gzipped, base64-encoded configuration drive string OR the path to the configuration drive file OR the path to a directory containing the config drive files OR a JSON object to build config drive from. In case it's a directory, a config drive will be generated from it. In case it's a JSON object with optional keys meta_data , user_data and network_data , a config drive will be generated on the server side (see the bare metal API reference for more details). This command is provided by the python-ironicclient plugin.

11.68. BAREMETAL NODE REMOVE TRAIT

Usage:

```
openstack baremetal node remove trait [-h] [--all]
                                   <node> [<trait> [<trait> ...]]
```

Remove trait(s) from a node.

Table 11.251. Positional Arguments

Value	Summary
None	None

Table 11.252. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all	Remove all traits This command is provided by the python-ironicclient plugin.

11.69. BAREMETAL NODE RESCUE**Usage:**

```
openstack baremetal node rescue [-h] [--wait [<time-out>]]
                                --rescue-password <rescue-password>
                                <node>
```

Set provision state of baremetal node to *rescue*

Table 11.253. Positional Arguments

Value	Summary
None	None

Table 11.254. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, rescue. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

Value	Summary
<code>--rescue-password <rescue-password></code>	The password that will be used to login to the rescue ramdisk. The value should be a non-empty string. This command is provided by the python-ironicclient plugin.

11.70. BAREMETAL NODE SET

Usage:

```

openstack baremetal node set [-h] [--instance-uuid <uuid>]
                               [--name <name>]
                               [--chassis-uuid <chassis UUID>]
                               [--driver <driver>]
                               [--bios-interface <bios_interface> | --reset-bios-interface]
                               [--boot-interface <boot_interface> | --reset-boot-interface]
                               [--console-interface <console_interface> | --reset-console-interface]
                               [--deploy-interface <deploy_interface> | --reset-deploy-interface]
                               [--inspect-interface <inspect_interface> | --reset-inspect-interface]
                               [--management-interface <management_interface> | --reset-management-
interface]
                               [--network-interface <network_interface> | --reset-network-interface]
                               [--power-interface <power_interface> | --reset-power-interface]
                               [--raid-interface <raid_interface> | --reset-raid-interface]
                               [--rescue-interface <rescue_interface> | --reset-rescue-interface]
                               [--storage-interface <storage_interface> | --reset-storage-interface]
                               [--vendor-interface <vendor_interface> | --reset-vendor-interface]
                               [--reset-interfaces]
                               [--resource-class <resource_class>]
                               [--conductor-group <conductor_group>]
                               [--automated-clean] [--protected]
                               [--protected-reason <protected_reason>]
                               [--target-raid-config <target_raid_config>]
                               [--property <key=value>]
                               [--extra <key=value>]
                               [--driver-info <key=value>]
                               [--instance-info <key=value>]
                               [--owner <owner>]
                               [--description <description>]
                               <node>

```

Set baremetal properties

Table 11.255. Positional Arguments

Value	Summary
None	None

Table 11.256. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--instance-uuid <uuid>	Set instance uuid of node to <uuid>
--name <name>	Set the name of the node
--chassis-uuid <chassis UUID>	Set the chassis for the node
--driver <driver>	Set the driver for the node
--bios-interface <bios_interface>	Set the bios interface for the node
--reset-bios-interface	Reset the bios interface to its hardware type default
--boot-interface <boot_interface>	Set the boot interface for the node
--reset-boot-interface	Reset the boot interface to its hardware type default
--console-interface <console_interface>	Set the console interface for the node
--reset-console-interface	Reset the console interface to its hardware type default
--deploy-interface <deploy_interface>	Set the deploy interface for the node
--reset-deploy-interface	Reset the deploy interface to its hardware type default
--inspect-interface <inspect_interface>	Set the inspect interface for the node
--reset-inspect-interface	Reset the inspect interface to its hardware type default
--management-interface <management_interface>	Set the management interface for the node
--reset-management-interface	Reset the management interface to its hardware type default
--network-interface <network_interface>	Set the network interface for the node
--reset-network-interface	Reset the network interface to its hardware type default
--power-interface <power_interface>	Set the power interface for the node

Value	Summary
<code>--reset-power-interface</code>	Reset the power interface to its hardware type default
<code>--raid-interface <raid_interface></code>	Set the raid interface for the node
<code>--reset-raid-interface</code>	Reset the raid interface to its hardware type default
<code>--rescue-interface <rescue_interface></code>	Set the rescue interface for the node
<code>--reset-rescue-interface</code>	Reset the rescue interface to its hardware type default
<code>--storage-interface <storage_interface></code>	Set the storage interface for the node
<code>--reset-storage-interface</code>	Reset the storage interface to its hardware type default
<code>--vendor-interface <vendor_interface></code>	Set the vendor interface for the node
<code>--reset-vendor-interface</code>	Reset the vendor interface to its hardware type default
<code>--reset-interfaces</code>	Reset all interfaces not specified explicitly to their default implementations. Only valid with <code>--driver</code> .
<code>--resource-class <resource_class></code>	Set the resource class for the node
<code>--conductor-group <conductor_group></code>	Set the conductor group for the node
<code>--automated-clean</code>	Enable automated cleaning for the node
<code>--protected</code>	Mark the node as protected
<code>--protected-reason <protected_reason></code>	Set the reason of marking the node as protected
<code>--target-raid-config <target_raid_config></code>	Set the target raid configuration (json) for the node. This can be one of: 1. a file containing JSON data of the RAID configuration; 2. "-" to read the contents from standard input; or 3. a valid JSON string.
<code>--property <key=value></code>	Property to set on this baremetal node (repeat option to set multiple properties)
<code>--extra <key=value></code>	Extra to set on this baremetal node (repeat option to set multiple extras)

Value	Summary
<code>--driver-info <key=value></code>	Driver information to set on this baremetal node (repeat option to set multiple driver infos)
<code>--instance-info <key=value></code>	Instance information to set on this baremetal node (repeat option to set multiple instance infos)
<code>--owner <owner></code>	Set the owner for the node
<code>--description <description></code>	Set the description for the node This command is provided by the python-ironicclient plugin.

11.71. BAREMETAL NODE SHOW

Usage:

```
openstack baremetal node show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--instance]
                               [--fields <field> [<field> ...]]
                               <node>
```

Show baremetal node details

Table 11.257. Positional Arguments

Value	Summary
<code>--instance is specified)</code>	None

Table 11.258. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--instance</code>	<code><node></code> is an instance uuid.
<code>--fields <field> [<field> ...]</code>	One or more node fields. only these fields will be fetched from the server.

Table 11.259. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.260. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.261. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.262. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.72. BAREMETAL NODE TRAIT LIST

Usage:

```

openstack baremetal node trait list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]

```

```
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
<node>
```

List a node’s traits.

Table 11.263. Positional Arguments

Value	Summary
None	None

Table 11.264. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.265. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.266. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.267. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.268. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.73. BAREMETAL NODE UNDEPLOY

Usage:

```
openstack baremetal node undeploy [-h] [--wait [<time-out>]] <node>
```

Set provision state of baremetal node to *deleted*

Table 11.269. Positional Arguments

Value	Summary
None	None

Table 11.270. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait [<time-out>]</code>	Wait for a node to reach the desired state, available. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely. This command is provided by the python-ironicclient plugin.

11.74. BAREMETAL NODE UNRESCUE

Usage:

```
openstack baremetal node unrescue [-h] [--wait [<time-out>]] <node>
```

Set provision state of baremetal node to *unrescue*

Table 11.271. Positional Arguments

Value	Summary
None	None

Table 11.272. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely. This command is provided by the python-ironicclient plugin.

11.75. BAREMETAL NODE UNSET

Usage:

```

openstack baremetal node unset [-h] [--instance-uuid] [--name]
                                [--resource-class]
                                [--target-raid-config]
                                [--property <key>] [--extra <key>]
                                [--driver-info <key>]
                                [--instance-info <key>] [--chassis-uuid]
                                [--bios-interface] [--boot-interface]
                                [--console-interface]
                                [--deploy-interface]
                                [--inspect-interface]
                                [--management-interface]
                                [--network-interface]
                                [--power-interface] [--raid-interface]
                                [--rescue-interface]
                                [--storage-interface]
                                [--vendor-interface] [--conductor-group]
                                [--automated-clean] [--protected]
                                [--protected-reason] [--owner]
                                [--description]
                                <node>

```

Unset baremetal properties

Table 11.273. Positional Arguments

Value	Summary
None	None

Table 11.274. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--instance-uuid	Unset instance uuid on this baremetal node
--name	Unset the name of the node
--resource-class	Unset the resource class of the node
--target-raid-config	Unset the target raid configuration of the node
--property <key>	Property to unset on this baremetal node (repeat option to unset multiple properties)
--extra <key>	Extra to unset on this baremetal node (repeat option to unset multiple extras)
--driver-info <key>	Driver information to unset on this baremetal node (repeat option to unset multiple driver informations)
--instance-info <key>	Instance information to unset on this baremetal node (repeat option to unset multiple instance informations)
--chassis-uuid	Unset chassis uuid on this baremetal node
--bios-interface	Unset bios interface on this baremetal node
--boot-interface	Unset boot interface on this baremetal node
--console-interface	Unset console interface on this baremetal node
--deploy-interface	Unset deploy interface on this baremetal node
--inspect-interface	Unset inspect interface on this baremetal node
--management-interface	Unset management interface on this baremetal node
--network-interface	Unset network interface on this baremetal node
--power-interface	Unset power interface on this baremetal node
--raid-interface	Unset raid interface on this baremetal node
--rescue-interface	Unset rescue interface on this baremetal node

Value	Summary
--storage-interface	Unset storage interface on this baremetal node
--vendor-interface	Unset vendor interface on this baremetal node
--conductor-group	Unset conductor group for this baremetal node (the default group will be used)
--automated-clean	Unset automated clean option on this baremetal node (the value from configuration will be used)
--protected	Unset the protected flag on the node
--protected-reason	Unset the protected reason (gets unset automatically when protected is unset)
--owner	Unset the owner field of the node
--description	Unset the description field of the node This command is provided by the python-ironicclient plugin.

11.76. BAREMETAL NODE VALIDATE

Usage:

```

openstack baremetal node validate [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                <node>

```

Validate a node's driver interfaces

Table 11.275. Positional Arguments

Value	Summary
None	None

Table 11.276. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.277. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.278. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.279. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.280. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.77. BAREMETAL NODE VIF ATTACH

Usage:

```
openstack baremetal node vif attach [-h] [--vif-info <key=value>]
                                   <node> <vif-id>
```


Attach VIF to a given node

Table 11.281. Positional Arguments

Value	Summary
None	None

Table 11.282. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--vif-info <key=value>	Record arbitrary key/value metadata. can be specified multiple times. The mandatory <i>id</i> parameter cannot be specified as a key. This command is provided by the python-ironicclient plugin.

11.78. BAREMETAL NODE VIF DETACH

Usage:

```
openstack baremetal node vif detach [-h] <node> <vif-id>
```

Detach VIF from a given node

Table 11.283. Positional Arguments

Value	Summary
None	None

Table 11.284. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.79. BAREMETAL NODE VIF LIST

Usage:

```
openstack baremetal node vif list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN]
                                  [--quote {all,minimal,none,nonnumeric}]
                                  [--noindent] [--max-width <integer>]
```

```
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
<node>
```

Show attached VIFs for a node

Table 11.285. Positional Arguments

Value	Summary
None	None

Table 11.286. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.287. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.288. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.289. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.290. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.80. BAREMETAL PORT CREATE

Usage:

```

openstack baremetal port create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --node <uuid>
                                [--uuid <uuid>] [--extra <key=value>]
                                [--local-link-connection <key=value>]
                                [-l <key=value>]
                                [--pxe-enabled <boolean>]
                                [--port-group <uuid>]
                                [--physical-network <physical network>]
                                [--is-smartnic]
                                <address>

```

Create a new port

Table 11.291. Positional Arguments

Value	Summary
None	None

Table 11.292. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this port belongs to.

Value	Summary
<code>--uuid <uuid></code>	Uuid of the port.
<code>--extra <key=value></code>	Record arbitrary key/value metadata. argument can be specified multiple times.
<code>--local-link-connection <key=value></code>	Key/value metadata describing local link connection information. Valid keys are <i>switch_info</i> , <i>switch_id</i> , <i>port_id</i> and <i>hostname</i> . The <i>keyswitch_id</i> and <i>port_id</i> are required. In case of a Smart NIC port, the required keys are <i>port_id</i> and <i>hostname</i> . Argument can be specified multiple times.
<code>-l <key=value></code>	Deprecated. please use <code>--local-link-connection</code> instead. Key/value metadata describing Local link connection information. Valid keys are <i>switch_info</i> , <i>switch_id</i> , and <i>port_id</i> . The <i>keyswitch_id</i> and <i>port_id</i> are required. Can be specified multiple times.
<code>--pxe-enabled <boolean></code>	Indicates whether this port should be used when pxe booting this Node.
<code>--port-group <uuid></code>	Uuid of the port group that this port belongs to.
<code>--physical-network <physical network></code>	Name of the physical network to which this port is connected.
<code>--is-smartnic</code>	Indicates whether this port is a smart nic port

Table 11.293. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.294. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.295. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.296. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.81. BAREMETAL PORT DELETE

Usage:

```
openstack baremetal port delete [-h] <port> [<port> ...]
```

Delete port(s).

Table 11.297. Positional Arguments

Value	Summary
None	None

Table 11.298. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.82. BAREMETAL PORT GROUP CREATE

Usage:

```
openstack baremetal port group create [-h]
                                     [-f {json,shell,table,value,yaml}]
```

```

[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
--node <uuid>
[--address <mac-address>]
[--name NAME] [--uuid UUID]
[--extra <key=value>]
[--mode MODE]
[--property <key=value>]
[--support-standalone-ports | --unsupport-standalone-ports]

```

Create a new baremetal port group.

Table 11.299. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this port group belongs to.
--address <mac-address>	Mac address for this port group.
--name NAME	Name of the port group.
--uuid UUID	Uuid of the port group.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--mode MODE	Mode of the port group. for possible values, refer to https://www.kernel.org/doc/Documentation/networking/bonding.txt .
--property <key=value>	Key/value property related to this port group's configuration. Can be specified multiple times.
--support-standalone-ports	Ports that are members of this port group can be used as stand-alone ports. (default)
--unsupport-standalone-ports	Ports that are members of this port group cannot be used as stand-alone ports.

Table 11.300. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.301. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.302. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.303. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.83. BAREMETAL PORT GROUP DELETE

Usage:

```
openstack baremetal port group delete [-h]
                                     <port group> [<port group> ...]
```

Unregister baremetal port group(s).

Table 11.304. Positional Arguments

Value	Summary
None	None

Table 11.305. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.84. BAREMETAL PORT GROUP LIST

Usage:

```

openstack baremetal port group list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   [--limit <limit>]
                                   [--marker <port group>]
                                   [--sort <key>[:<direction>]]
                                   [--address <mac-address>]
                                   [--node <node>]
                                   [--long | --fields <field> [<field> ...]]

```

List baremetal port groups.

Table 11.306. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of port groups to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <port group>	Port group uuid (for example, of the last port group in the list from a previous request). Returns the list of port groups after this UUID.
--sort <key>[:<direction>]	Sort output by specified port group fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--address <mac-address>	Only show information for the port group with this mac address.
--node <node>	Only list port groups of this node (name or uuid).

Value	Summary
<code>--long</code>	Show detailed information about the port groups.
<code>--fields <field> [<field> ...]</code>	One or more port group fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.307. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.308. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.309. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.310. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.85. BAREMETAL PORT GROUP SET

Usage:

```
openstack baremetal port group set [-h] [--node <uuid>]
                                   [--address <mac-address>]
                                   [--name <name>]
                                   [--extra <key=value>] [--mode MODE]
                                   [--property <key=value>]
                                   [--support-standalone-ports | --unsupport-standalone-ports]
                                   <port group>
```

Set baremetal port group properties.

Table 11.311. Positional Arguments

Value	Summary
None	None

Table 11.312. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--node <uuid></code>	Update uuid of the node that this port group belongs to.
<code>--address <mac-address></code>	Mac address for this port group.
<code>--name <name></code>	Name of the port group.
<code>--extra <key=value></code>	Extra to set on this baremetal port group (repeat option to set multiple extras).
<code>--mode MODE</code>	Mode of the port group. for possible values, refer to https://www.kernel.org/doc/Documentation/netwo king/bo nding.txt .

Value	Summary
<code>--property <key=value></code>	Key/value property related to this port group's configuration (repeat option to set multiple properties).
<code>--support-standalone-ports</code>	Ports that are members of this port group can be used as stand-alone ports.
<code>--unsupport-standalone-ports</code>	Ports that are members of this port group cannot be used as stand-alone ports. This command is provided by the python-ironicclient plugin.

11.86. BAREMETAL PORT GROUP SHOW

Usage:

```

openstack baremetal port group show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--address]
                                   [--fields <field> [<field> ...]]
                                   <id>

```

Show baremetal port group details.

Table 11.313. Positional Arguments

Value	Summary
<code>--address</code> is specified).	None

Table 11.314. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--address</code>	<code><id></code> is the mac address (instead of uuid or name) of the port group.
<code>--fields <field> [<field> ...]</code>	One or more port group fields. only these fields will be fetched from the server.

Table 11.315. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.316. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.317. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.318. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.87. BAREMETAL PORT GROUP UNSET

Usage:

```
openstack baremetal port group unset [-h] [--name] [--address]
                                     [--extra <key>] [--property <key>]
                                     <port group>
```

Unset baremetal port group properties.

Table 11.319. Positional Arguments

Value	Summary
None	None

Table 11.320. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Unset the name of the port group.
--address	Unset the address of the port group.
--extra <key>	Extra to unset on this baremetal port group (repeat option to unset multiple extras).
--property <key>	Property to unset on this baremetal port group (repeat option to unset multiple properties). This command is provided by the python-ironicclient plugin.

11.88. BAREMETAL PORT LIST

Usage:

```
openstack baremetal port list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--address <mac-address>] [--node <node>]
                             [--port-group <port group>]
                             [--limit <limit>] [--marker <port>]
                             [--sort <key>[:<direction>]]
                             [--long | --fields <field> [<field> ...]]
```

List baremetal ports.

Table 11.321. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--address <mac-address>	Only show information for the port with this mac address.

Value	Summary
<code>--node <node></code>	Only list ports of this node (name or uuid).
<code>--port-group <port group></code>	Only list ports of this port group (name or uuid).
<code>--limit <limit></code>	Maximum number of ports to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
<code>--marker <port></code>	Port uuid (for example, of the last port in the list from a previous request). Returns the list of ports after this UUID.
<code>--sort <key>[:<direction>]</code>	Sort output by specified port fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
<code>--long</code>	Show detailed information about ports.
<code>--fields <field> [<field> ...]</code>	One or more port fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.322. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.323. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.324. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.325. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.89. BAREMETAL PORT SET

Usage:

```

openstack baremetal port set [-h] [--node <uuid>] [--address <address>]
                             [--extra <key=value>]
                             [--port-group <uuid>]
                             [--local-link-connection <key=value>]
                             [--pxe-enabled | --pxe-disabled]
                             [--physical-network <physical network>]
                             [--is-smartnic]
                             <port>

```

Set baremetal port properties.

Table 11.326. Positional Arguments

Value	Summary
None	None

Table 11.327. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--node <uuid></code>	Set uuid of the node that this port belongs to
<code>--address <address></code>	Set mac address for this port
<code>--extra <key=value></code>	Extra to set on this baremetal port (repeat option to set multiple extras)
<code>--port-group <uuid></code>	Set uuid of the port group that this port belongs to.
<code>--local-link-connection <key=value></code>	Key/value metadata describing local link connection information. Valid keys are <i>switch_info</i> , <i>switch_id</i> , <i>port_id</i> and <i>hostname</i> . The keys <i>switch_id</i> and <i>port_id</i> are required. In case of a Smart NIC port, the required keys are <i>port_id</i> and <i>hostname</i> . Argument can be specified multiple times.
<code>--pxe-enabled</code>	Indicates that this port should be used when pxe booting this node (default)
<code>--pxe-disabled</code>	Indicates that this port should not be used when pxe booting this node
<code>--physical-network <physical network></code>	Set the name of the physical network to which this port is connected.
<code>--is-smartnic</code>	Set port to be smart nic port This command is provided by the python-ironicclient plugin.

11.90. BAREMETAL PORT SHOW

Usage:

```

openstack baremetal port show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty] [--address]
                               [--fields <field> [<field> ...]]
                               <id>

```

Show baremetal port details.

Table 11.328. Positional Arguments

Value	Summary
None	None

Table 11.329. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--address	<id> is the mac address (instead of the uuid) of the port.
--fields <field> [<field> ...]	One or more port fields. only these fields will be fetched from the server.

Table 11.330. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.331. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.332. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.333. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.91. BAREMETAL PORT UNSET

Usage:

```
openstack baremetal port unset [-h] [--extra <key>] [--port-group]
                                [--physical-network] [--is-smartnic]
                                <port>
```

Unset baremetal port properties.

Table 11.334. Positional Arguments

Value	Summary
None	None

Table 11.335. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--extra <key>	Extra to unset on this baremetal port (repeat option to unset multiple extras)
--port-group	Remove port from the port group
--physical-network	Unset the physical network on this baremetal port.
--is-smartnic	Set port as not smart nic port This command is provided by the python-ironicclient plugin.

11.92. BAREMETAL VOLUME CONNECTOR CREATE

Usage:

```
openstack baremetal volume connector create [-h]
                                             [-f {json,shell,table,value,yaml}]
                                             [-c COLUMN] [--noindent]
                                             [--prefix PREFIX]
                                             [--max-width <integer>]
                                             [--fit-width]
```

```
[--print-empty] --node
<uuid> --type <type>
--connector-id <connector
id> [--uuid <uuid>]
[--extra <key=value>]
```

Create a new baremetal volume connector.

Table 11.336. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this volume connector belongs to.
--type <type>	Type of the volume connector. can be <i>iqn</i> , <i>ip</i> , <i>mac</i> , <i>wwnn</i> , <i>wwpn</i> , <i>port</i> , <i>portgroup</i> .
--connector-id <connector id>	Id of the volume connector in the specified type. for example, the iSCSI initiator IQN for the node if the type is <i>iqn</i> .
--uuid <uuid>	Uuid of the volume connector.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.

Table 11.337. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.338. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.339. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.340. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-ironicclient</code> plugin.

11.93. BAREMETAL VOLUME CONNECTOR DELETE

Usage:

```
openstack baremetal volume connector delete [-h]
                                         <volume connector>
                                         [<volume connector> ...]
```

Unregister baremetal volume connector(s).

Table 11.341. Positional Arguments

Value	Summary
None	None

Table 11.342. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-ironicclient</code> plugin.

11.94. BAREMETAL VOLUME CONNECTOR LIST

Usage:

```
openstack baremetal volume connector list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--node <node>]
                                         [--limit <limit>]
                                         [--marker <volume connector>]
                                         [--sort <key>[:<direction>]]
                                         [--long | --fields <field> [<field> ...]]
```

List baremetal volume connectors.

Table 11.343. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node <node>	Only list volume connectors of this node (name or UUID).
--limit <limit>	Maximum number of volume connectors to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <volume connector>	Volume connector uuid (for example, of the last volume connector in the list from a previous request). Returns the list of volume connectors after this UUID.
--sort <key>[:<direction>]	Sort output by specified volume connector fields and directions (asc or desc) (default:asc). Multiple fields and directions can be specified, separated by comma.
--long	Show detailed information about volume connectors.
--fields <field> [<field> ...]	One or more volume connector fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.344. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.345. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.346. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.347. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.95. BAREMETAL VOLUME CONNECTOR SET

Usage:

```
openstack baremetal volume connector set [-h] [--node <uuid>]
                                         [--type <type>]
                                         [--connector-id <connector id>]
                                         [--extra <key=value>]
                                         <volume connector>
```

Set baremetal volume connector properties.

Table 11.348. Positional Arguments

Value	Summary
None	None

Table 11.349. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this volume connector belongs to.
--type <type>	Type of the volume connector. can be <i>iqn</i> , <i>ip</i> , <i>mac</i> , <i>wwnn</i> , <i>wwpn</i> , <i>port</i> , <i>portgroup</i> .
--connector-id <connector id>	Id of the volume connector in the specified type.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times. This command is provided by the python-ironicclient plugin.

11.96. BAREMETAL VOLUME CONNECTOR SHOW

Usage:

```

openstack baremetal volume connector show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--fields <field> [<field> ...]]
                                         <id>

```

Show baremetal volume connector details.

Table 11.350. Positional Arguments

Value	Summary
None	None

Table 11.351. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--fields <field> [<field> ...]</code>	One or more volume connector fields. only these fields will be fetched from the server.

Table 11.352. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.353. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.354. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.355. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.97. BAREMETAL VOLUME CONNECTOR UNSET

Usage:

```
openstack baremetal volume connector unset [-h] [--extra <key>]
<volume connector>
```

Unset baremetal volume connector properties.

Table 11.356. Positional Arguments

Value	Summary
None	None

Table 11.357. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--extra <key>	Extra to unset (repeat option to unset multiple extras) This command is provided by the python-ironicclient plugin.

11.98. BAREMETAL VOLUME TARGET CREATE

Usage:

```
openstack baremetal volume target create [-h]
[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
--node <uuid> --type <volume
type> [--property <key=value>]
--boot-index <boot index>
--volume-id <volume id>
[--uuid <uuid>]
[--extra <key=value>]
```

Create a new baremetal volume target.

Table 11.358. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this volume target belongs to.

Value	Summary
<code>--type <volume type></code>	Type of the volume target, e.g. <i>iscsi</i> , <i>fibre_channel</i> .
<code>--property <key=value></code>	Key/value property related to the type of this volume target. Can be specified multiple times.
<code>--boot-index <boot index></code>	Boot index of the volume target.
<code>--volume-id <volume id></code>	Id of the volume associated with this target.
<code>--uuid <uuid></code>	Uuid of the volume target.
<code>--extra <key=value></code>	Record arbitrary key/value metadata. can be specified multiple times.

Table 11.359. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.360. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.361. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.362. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.99. BAREMETAL VOLUME TARGET DELETE

Usage:

```
openstack baremetal volume target delete [-h]
                                     <volume target>
                                     [<volume target> ...]
```

Unregister baremetal volume target(s).

Table 11.363. Positional Arguments

Value	Summary
None	None

Table 11.364. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-ironicclient plugin.

11.100. BAREMETAL VOLUME TARGET LIST

Usage:

```
openstack baremetal volume target list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--node <node>]
                                     [--limit <limit>]
```

```
[--marker <volume target>]
[--sort <key>[:<direction>]]
[--long | --fields <field> [<field> ...]]
```

List baremetal volume targets.

Table 11.365. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node <node>	Only list volume targets of this node (name or uuid).
--limit <limit>	Maximum number of volume targets to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <volume target>	Volume target uuid (for example, of the last volume target in the list from a previous request). Returns the list of volume targets after this UUID.
--sort <key>[:<direction>]	Sort output by specified volume target fields and directions (asc or desc) (default:asc). Multiple fields and directions can be specified, separated by comma.
--long	Show detailed information about volume targets.
--fields <field> [<field> ...]	One or more volume target fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.366. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.367. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.368. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.369. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.101. BAREMETAL VOLUME TARGET SET

Usage:

```

openstack baremetal volume target set [-h] [--node <uuid>]
                                     [--type <volume type>]
                                     [--property <key=value>]
                                     [--boot-index <boot index>]
                                     [--volume-id <volume id>]
                                     [--extra <key=value>]
                                     <volume target>

```

Set baremetal volume target properties.

Table 11.370. Positional Arguments

Value	Summary
None	None

Table 11.371. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--node <uuid></code>	Uuid of the node that this volume target belongs to.
<code>--type <volume type></code>	Type of the volume target, e.g. <i>iscsi</i> , <i>fibre_channel</i> .
<code>--property <key=value></code>	Key/value property related to the type of this volume target. Can be specified multiple times.
<code>--boot-index <boot index></code>	Boot index of the volume target.
<code>--volume-id <volume id></code>	Id of the volume associated with this target.
<code>--extra <key=value></code>	Record arbitrary key/value metadata. can be specified multiple times. This command is provided by the <code>python-ironicclient</code> plugin.

11.102. BAREMETAL VOLUME TARGET SHOW

Usage:

```

openstack baremetal volume target show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--fields <field> [<field> ...]]
                                         <id>

```

Show baremetal volume target details.

Table 11.372. Positional Arguments

Value	Summary
None	None

Table 11.373. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--fields <field> [<field> ...]</code>	One or more volume target fields. only these fields will be fetched from the server.

Table 11.374. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.375. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.376. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.377. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-ironicclient plugin.

11.103. BAREMETAL VOLUME TARGET UNSET

Usage:

```
openstack baremetal volume target unset [-h] [--extra <key>]
                                     [--property <key>]
                                     <volume target>
```

Unset baremetal volume target properties.

Table 11.378. Positional Arguments

Value	Summary
None	None

Table 11.379. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--extra <key>	Extra to unset (repeat option to unset multiple extras)
--property <key>	Property to unset on this baremetal volume target (repeat option to unset multiple properties). This command is provided by the python-ironicclient plugin.

CHAPTER 12. BGP

This chapter describes the commands under the **bgp** command.

12.1. BGP DRAGENT ADD SPEAKER

Usage:

```
openstack bgp dragent add speaker [-h] <agent-id> <bgp-speaker>
```

Add a BGP speaker to a dynamic routing agent

Table 12.1. Positional Arguments

Value	Summary
None	None

Table 12.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.2. BGP DRAGENT REMOVE SPEAKER

Usage:

```
openstack bgp dragent remove speaker [-h] <agent-id> <bgp-speaker>
```

Removes a BGP speaker from a dynamic routing agent

Table 12.3. Positional Arguments

Value	Summary
None	None

Table 12.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.3. BGP PEER CREATE

Usage:

```

openstack bgp peer create [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty] --peer-ip <peer-ip-address>
                           --remote-as <peer-remote-as>
                           [--auth-type <peer-auth-type>]
                           [--password <auth-password>]
                           [--project <project>]
                           [--project-domain <project-domain>]
                           <name>

```

Create a BGP peer

Table 12.5. Positional Arguments

Value	Summary
None	None

Table 12.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--peer-ip <peer-ip-address>	Peer ip address
--remote-as <peer-remote-as>	Peer as number. (integer in [1, 65535] is allowed)
--auth-type <peer-auth-type>	Authentication algorithm. supported algorithms: none (default), md5
--password <auth-password>	Authentication password
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 12.7. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 12.8. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 12.9. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 12.10. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

12.4. BGP PEER DELETE

Usage:

```
openstack bgp peer delete [-h] <bgp-peer>
```

Delete a BGP peer

Table 12.11. Positional Arguments

Value	Summary
None	None

Table 12.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.5. BGP PEER LIST

Usage:

```
openstack bgp peer list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

List BGP peers

Table 12.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 12.14. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 12.15. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 12.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 12.17. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

12.6. BGP PEER SET

Usage:

```
openstack bgp peer set [-h] [--name NAME] [--password <auth-password>]
                        <bgp-peer>
```

Update a BGP peer

Table 12.18. Positional Arguments

Value	Summary
None	None

Table 12.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Updated name of the bgp peer
--password <auth-password>	Updated authentication password This command is provided by the python-neutronclient plugin.

12.7. BGP PEER SHOW

Usage:

```
openstack bgp peer show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <bgp-peer>
```

Show information for a BGP peer

Table 12.20. Positional Arguments

Value	Summary
None	None

Table 12.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 12.22. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 12.23. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 12.24. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 12.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

12.8. BGP SPEAKER ADD NETWORK

Usage:

```
openstack bgp speaker add network [-h] <bgp-speaker> <network>
```

Add a network to a BGP speaker

Table 12.26. Positional Arguments

Value	Summary
None	None

Table 12.27. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.9. BGP SPEAKER ADD PEER

Usage:

```
openstack bgp speaker add peer [-h] <bgp-speaker> <bgp-peer>
```

Add a peer to a BGP speaker

Table 12.28. Positional Arguments

Value	Summary
None	None

Table 12.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.10. BGP SPEAKER CREATE

Usage:

```

openstack bgp speaker create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] --local-as <local-as>
                             [--ip-version {4,6}]
                             [--advertise-floating-ip-host-routes]
                             [--no-advertise-floating-ip-host-routes]
                             [--advertise-tenant-networks]
                             [--no-advertise-tenant-networks]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             <name>

```

Create a BGP speaker

Table 12.30. Positional Arguments

Value	Summary
None	None

Table 12.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--local-as <local-as>	Local as number. (integer in [1, 65535] is allowed.)
--ip-version {4,6}	Ip version for the bgp speaker (default is 4)

Value	Summary
<code>--advertise-floating-ip-host-routes</code>	Enable the advertisement of floating ip host routes by the BGP speaker. (default)
<code>--no-advertise-floating-ip-host-routes</code>	Disable the advertisement of floating ip host routes by the BGP speaker.
<code>--advertise-tenant-networks</code>	Enable the advertisement of tenant network routes by the BGP speaker. (default)
<code>--no-advertise-tenant-networks</code>	Disable the advertisement of tenant network routes by the BGP speaker.
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 12.32. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 12.33. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 12.34. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 12.35. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

12.11. BGP SPEAKER DELETE

Usage:

```
openstack bgp speaker delete [-h] <bgp-speaker>
```

Delete a BGP speaker

Table 12.36. Positional Arguments

Value	Summary
None	None

Table 12.37. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.12. BGP SPEAKER LIST ADVERTISED ROUTES

Usage:

```
openstack bgp speaker list advertised routes [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
```

```

[--print-empty]
[--sort-column SORT_COLUMN]
<bgp-speaker>

```

List routes advertised

Table 12.38. Positional Arguments

Value	Summary
None	None

Table 12.39. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 12.40. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 12.41. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 12.42. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 12.43. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-neutronclient</code> plugin.

12.13. BGP SPEAKER LIST

Usage:

```

openstack bgp speaker list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--agent <agent-id>]

```

List BGP speakers

Table 12.44. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--agent <agent-id></code>	List bgp speakers hosted by an agent (id only)

Table 12.45. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 12.46. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 12.47. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 12.48. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

12.14. BGP SPEAKER REMOVE NETWORK

Usage:

```
openstack bgp speaker remove network [-h] <bgp-speaker> <network>
```

Remove a network from a BGP speaker

Table 12.49. Positional Arguments

Value	Summary
None	None

Table 12.50. Optional Arguments

Value	Summary

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.15. BGP SPEAKER REMOVE PEER

Usage:

```
openstack bgp speaker remove peer [-h] <bgp-speaker> <bgp-peer>
```

Remove a peer from a BGP speaker

Table 12.51. Positional Arguments

Value	Summary
None	None

Table 12.52. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

12.16. BGP SPEAKER SET

Usage:

```
openstack bgp speaker set [-h] [--name NAME]
                        [--advertise-floating-ip-host-routes]
                        [--no-advertise-floating-ip-host-routes]
                        [--advertise-tenant-networks]
                        [--no-advertise-tenant-networks]
                        <bgp-speaker>
```

Set BGP speaker properties

Table 12.53. Positional Arguments

Value	Summary
None	None

Table 12.54. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Name of the bgp speaker to update
--advertise-floating-ip-host-routes	Enable the advertisement of floating ip host routes by the BGP speaker. (default)
--no-advertise-floating-ip-host-routes	Disable the advertisement of floating ip host routes by the BGP speaker.
--advertise-tenant-networks	Enable the advertisement of tenant network routes by the BGP speaker. (default)
--no-advertise-tenant-networks	Disable the advertisement of tenant network routes by the BGP speaker. This command is provided by the python-neutronclient plugin.

12.17. BGP SPEAKER SHOW DRAGENTS

Usage:

```

openstack bgp speaker show dragents [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     <bgp-speaker>

```

List dynamic routing agents hosting a BGP speaker

Table 12.55. Positional Arguments

Value	Summary
None	None

Table 12.56. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 12.57. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 12.58. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 12.59. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 12.60. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

12.18. BGP SPEAKER SHOW

Usage:

```
openstack bgp speaker show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
```



```
[--print-empty]
<bgp-speaker>
```

Show a BGP speaker

Table 12.61. Positional Arguments

Value	Summary
None	None

Table 12.62. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 12.63. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 12.64. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 12.65. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 12.66. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

CHAPTER 13. BGPVPN

This chapter describes the commands under the **bgpvpn** command.

13.1. BGPVPN CREATE

Usage:

```
openstack bgpvpn create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--project <project>]
                        [--project-domain <project-domain>]
                        [--name <name>] [--route-target <route-target>]
                        [--import-target <import-target>]
                        [--export-target <export-target>]
                        [--route-distinguisher <route-distinguisher>]
                        [--vni VNI] [--local-pref LOCAL_PREF]
                        [--type {l2,l3}]
```

Create BGP VPN resource

Table 13.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--name <name>	Name of the bgp vpn
--route-target <route-target>	Add route target to import/export list (repeat option for multiple Route Targets)
--import-target <import-target>	Add route target to import list (repeat option for multiple Route Targets)
--export-target <export-target>	Add route target to export list (repeat option for multiple Route Targets)
--route-distinguisher <route-distinguisher>	Add route distinguisher to the list of route Distinguishers from which a Route Distinguishers will be picked from to advertise a VPN route (repeat option for multiple Route Distinguishers)

Value	Summary
--vni VNI	Vxlan network identifier to be used for this bgpvpn when a VXLAN encapsulation is used
--local-pref LOCAL_PREF	Default bgp local_pref to use in route advertisementstowards this BGPVPN.
--type {I2,I3}	Bgp vpn type selection between ip vpn (I3) and Ethernet VPN (I2) (default: I3)

Table 13.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 13.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 13.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 13.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.2. BGPVPN DELETE

Usage:

```
openstack bgpvpn delete [-h] <bgpvpn> [<bgpvpn> ...]
```

Delete BGP VPN resource(s)

Table 13.6. Positional Arguments

Value	Summary
None	None

Table 13.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

13.3. BGPVPN LIST

Usage:

```
openstack bgpvpn list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--project <project>]
                        [--project-domain <project-domain>] [--long]
                        [--property <key=value>]
```

List BGP VPN resources

Table 13.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--long	List additional fields in output

Value	Summary
<code>--property <key=value></code>	Filter property to apply on returned bgp vpns (repeat to filter on multiple properties)

Table 13.9. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 13.10. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 13.11. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 13.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.4. BGPVPN NETWORK ASSOCIATION CREATE

Usage:

```
openstack bgpvpn network association create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--project <project>]
                                         [--project-domain <project-domain>]
                                         <bgpvpn> <network>
```

Create a BGP VPN network association

Table 13.13. Positional Arguments

Value	Summary
None	None

Table 13.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner’s project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 13.15. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 13.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Value	Summary

Table 13.17. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 13.18. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.5. BGPVPN NETWORK ASSOCIATION DELETE

Usage:

```
openstack bgpvpn network association delete [-h]
                                         <network association ID>
                                         [<network association ID> ...]
                                         <bgpvpn>
```

Delete a BGP VPN network association(s) for a given BGP VPN

Table 13.19. Positional Arguments

Value	Summary
None	None

Table 13.20. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

13.6. BGPVPN NETWORK ASSOCIATION LIST

Usage:

```
openstack bgpvpn network association list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--long]
                                         [--property <key=value>]
                                         <bgpvpn>
```

List BGP VPN network associations for a given BGP VPN

Table 13.21. Positional Arguments

Value	Summary
None	None

Table 13.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--property <key=value>	Filter property to apply on returned bgp vpns (repeat to filter on multiple properties)

Table 13.23. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 13.24. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 13.25. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 13.26. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.7. BGPVPN NETWORK ASSOCIATION SHOW

Usage:

```

openstack bgpvpn network association show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <network association ID>
                                         <bgpvpn>

```

Show information of a given BGP VPN network association

Table 13.27. Positional Arguments

Value	Summary
None	None

Table 13.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 13.29. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 13.30. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 13.31. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 13.32. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-neutronclient</code> plugin.

13.8. BGPVPN PORT ASSOCIATION CREATE

Usage:

```

openstack bgpvpn port association create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--project <project>]
                                         [--project-domain <project-domain>]
                                         [--advertise-fixed-ips | --no-advertise-fixed-ips]
                                         [--prefix-route prefix=<cidr>[,local_pref=<integer>]]
                                         [--bgpvpn-route bgpvpn=<BGP VPN ID or name>[,local_pref=
<integer>]]
                                         <bgpvpn> <port>

```

Create a BGP VPN port association

Table 13.33. Positional Arguments

Value	Summary
None	None

Table 13.34. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--advertise-fixed-ips</code>	Fixed ips of the port will be advertised to the bgp VPN (default)

Value	Summary
<code>--no-advertise-fixed-ips</code>	Fixed ips of the port will not be advertised to the BGP VPN
<code>--prefix-route prefix=<cidr>[,local_pref=<integer>]</code>	Add prefix route in cidr notation. optionally, can control the value of the BGP LOCAL_PREF of the routes that will be advertised (repeat option for multiple prefix routes)
<code>--bgpvpn-route bgpvpn=<BGP VPN ID or name>[,local_pref=<integer>]</code>	Add bgp vpn route for route leaking. optionally, can control the value of the BGP LOCAL_PREF of the routes that will be advertised (repeat option for multiple BGP VPN routes)

Table 13.35. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 13.36. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 13.37. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 13.38. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.9. BGPVPN PORT ASSOCIATION DELETE

Usage:

```
openstack bgpvpn port association delete [-h]
                                     <port association ID>
                                     [<port association ID> ...]
                                     <bgpvpn>
```

Delete a BGP VPN port association(s) for a given BGP VPN

Table 13.39. Positional Arguments

Value	Summary
None	None

Table 13.40. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

13.10. BGPVPN PORT ASSOCIATION LIST

Usage:

```
openstack bgpvpn port association list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--long]
                                     [--property <key=value>]
                                     <bgpvpn>
```

List BGP VPN port associations for a given BGP VPN

Table 13.41. Positional Arguments

Value	Summary
None	None

Table 13.42. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--property <key=value>	Filter property to apply on returned bgp vpns (repeat to filter on multiple properties)

Table 13.43. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 13.44. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 13.45. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 13.46. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-neutronclient</code> plugin.

13.11. BGPVPN PORT ASSOCIATION SET

Usage:

```

openstack bgpvpn port association set [-h]
                                     [--advertise-fixed-ips | --no-advertise-fixed-ips]
                                     [--prefix-route prefix=<cidr>[,local_pref=<integer>]]
                                     [--bgpvpn-route bgpvpn=<BGP VPN ID or name>[,local_pref=<integer>]]
                                     [--no-prefix-route]
                                     [--no-bgpvpn-route]
                                     <port association ID> <bgpvpn>

```

Set BGP VPN port association properties

Table 13.47. Positional Arguments

Value	Summary
None	None

Table 13.48. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--advertise-fixed-ips</code>	Fixed ips of the port will be advertised to the bgp VPN
<code>--no-advertise-fixed-ips</code>	Fixed ips of the port will not be advertised to the BGP VPN

Value	Summary
<code>--prefix-route prefix=<cidr>[,local_pref=<integer>]</code>	Add prefix route in cidr notation. optionally, can control the value of the BGP LOCAL_PREF of the routes that will be advertised (repeat option for multiple prefix routes)
<code>--bgpvpn-route bgpvpn=<BGP VPN ID or name>[,local_pref=<integer>]</code>	Add bgp vpn route for route leaking. optionally, can control the value of the BGP LOCAL_PREF of the routes that will be advertised (repeat option for multiple BGP VPN routes)
<code>--no-prefix-route</code>	Empty prefix route list
<code>--no-bgpvpn-route</code>	Empty bgp vpn route list This command is provided by the python-neutronclient plugin.

13.12. BGPVPN PORT ASSOCIATION SHOW

Usage:

```

openstack bgpvpn port association show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <port association ID> <bgpvpn>

```

Show information of a given BGP VPN port association

Table 13.49. Positional Arguments

Value	Summary
None	None

Table 13.50. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 13.51. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 13.52. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 13.53. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 13.54. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.13. BGPVPN PORT ASSOCIATION UNSET

Usage:

```

openstack bgpvpn port association unset [-h]
                                     [--advertise-fixed-ips | --no-advertise-fixed-ips]
                                     [--prefix-route <cidr>]
                                     [--bgpvpn-route <BGP VPN ID or name>]
                                     [--all-prefix-routes]
                                     [--all-bgpvpn-routes]
                                     <port association ID> <bgpvpn>

```

Unset BGP VPN port association properties

Table 13.55. Positional Arguments

Value	Summary
None	None

Table 13.56. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--advertise-fixed-ips	Fixed ips of the port will not be advertised to the BGP VPN
--no-advertise-fixed-ips	Fixed ips of the port will be advertised to the bgp VPN
--prefix-route <cidr>	Remove prefix route in cidr notation (repeat option for multiple prefix routes)
--bgpvpn-route <BGP VPN ID or name>	Remove bgp vpn route (repeat option for multiple bgp VPN routes)
--all-prefix-routes	Empty prefix route list
--all-bgpvpn-routes	Empty bgp vpn route list This command is provided by the python-neutronclient plugin.

13.14. BGPVPN ROUTER ASSOCIATION CREATE

Usage:

```
openstack bgpvpn router association create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--project <project>]
                                         [--project-domain <project-domain>]
                                         [--advertise_extra_routes | --no-advertise_extra_routes]
                                         <bgpvpn> <router>
```

Create a BGP VPN router association

Table 13.57. Positional Arguments

Value	Summary
None	None

Table 13.58. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--advertise_extra_routes	Routes will be advertised to the bgp vpn (default)
--no-advertise_extra_routes	Routes from the router will not be advertised to the BGP VPN

Table 13.59. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 13.60. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 13.61. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 13.62. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-neutronclient</code> plugin.

13.15. BGPVPN ROUTER ASSOCIATION DELETE

Usage:

```
openstack bgpvpn router association delete [-h]
                                         <router association ID>
                                         [<router association ID> ...]
                                         <bgpvpn>
```

Delete a BGP VPN router association(s) for a given BGP VPN

Table 13.63. Positional Arguments

Value	Summary
None	None

Table 13.64. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-neutronclient</code> plugin.

13.16. BGPVPN ROUTER ASSOCIATION LIST

Usage:

```
openstack bgpvpn router association list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
```

```
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--long]
[--property <key=value>]
<bgpvpn>
```

List BGP VPN router associations for a given BGP VPN

Table 13.65. Positional Arguments

Value	Summary
None	None

Table 13.66. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--property <key=value>	Filter property to apply on returned bgp vpns (repeat to filter on multiple properties)

Table 13.67. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 13.68. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 13.69. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 13.70. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.17. BGPVPN ROUTER ASSOCIATION SET

Usage:

```

openstack bgpvpn router association set [-h]
                                     [--advertise_extra_routes | --no-advertise_extra_routes]
                                     <router association ID>
                                     <bgpvpn>

```

Set BGP VPN router association properties

Table 13.71. Positional Arguments

Value	Summary
None	None

Table 13.72. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--advertise_extra_routes	Routes will be advertised to the bgp vpn

Value	Summary
<code>--no-advertise_extra_routes</code>	Routes from the router will not be advertised to the BGP VPN This command is provided by the python-neutronclient plugin.

13.18. BGPVPN ROUTER ASSOCIATION SHOW

Usage:

```

openstack bgpvpn router association show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <router association ID>
                                         <bgpvpn>

```

Show information of a given BGP VPN router association

Table 13.73. Positional Arguments

Value	Summary
None	None

Table 13.74. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 13.75. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 13.76. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 13.77. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 13.78. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.19. BGPVPN ROUTER ASSOCIATION UNSET

Usage:

```

openstack bgpvpn router association unset [-h]
                                     [--advertise_extra_routes | --no-advertise_extra_routes]
                                     <router association ID>
                                     <bgpvpn>

```

Unset BGP VPN router association properties

Table 13.79. Positional Arguments

Value	Summary
None	None

Table 13.80. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--advertise_extra_routes	Routes from the router will not be advertised to the BGP VPN

Value	Summary
<code>--no-advertise_extra_routes</code>	Routes will be advertised to the bgp vpn This command is provided by the python-neutronclient plugin.

13.20. BGPVPN SET

Usage:

```

openstack bgpvpn set [-h] [--name <name>]
                    [--route-target <route-target>]
                    [--no-route-target]
                    [--import-target <import-target>]
                    [--no-import-target]
                    [--export-target <export-target>]
                    [--no-export-target]
                    [--route-distinguisher <route-distinguisher>]
                    [--no-route-distinguisher] [--vni VNI]
                    [--local-pref LOCAL_PREF]
                    <bgpvpn>

```

Set BGP VPN properties

Table 13.81. Positional Arguments

Value	Summary
None	None

Table 13.82. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Name of the bgp vpn
<code>--route-target <route-target></code>	Add route target to import/export list (repeat option for multiple Route Targets)
<code>--no-route-target</code>	Empty route target list
<code>--import-target <import-target></code>	Add route target to import list (repeat option for multiple Route Targets)
<code>--no-import-target</code>	Empty import route target list

Value	Summary
<code>--export-target <export-target></code>	Add route target to export list (repeat option for multiple Route Targets)
<code>--no-export-target</code>	Empty export route target list
<code>--route-distinguisher <route-distinguisher></code>	Add route distinguisher to the list of route Distinguishers from which a Route Distinguishers will be picked from to advertise a VPN route (repeat option for multiple Route Distinguishers)
<code>--no-route-distinguisher</code>	Empty route distinguisher list
<code>--vni VNI</code>	Vxlan network identifier to be used for this bgpvpn when a VXLAN encapsulation is used
<code>--local-pref LOCAL_PREF</code>	Default bgp local_pref to use in route advertisementstowards this BGPVPN. This command is provided by the python-neutronclient plugin.

13.21. BGPVPN SHOW

Usage:

```

openstack bgpvpn show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <bgpvpn>

```

Show information of a given BGP VPN

Table 13.83. Positional Arguments

Value	Summary
None	None

Table 13.84. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 13.85. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 13.86. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 13.87. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 13.88. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

13.22. BGPVPN UNSET

Usage:

```

openstack bgpvpn unset [-h] [--route-target <route-target>]
                        [--all-route-target]
                        [--import-target <import-target>]
                        [--all-import-target]
                        [--export-target <export-target>]
                        [--all-export-target]
                        [--route-distinguisher <route-distinguisher>]

```

```
[--all-route-distinguisher] [--vni VNI]
[--local-pref LOCAL_PREF]
<bgpvpn>
```

Unset BGP VPN properties

Table 13.89. Positional Arguments

Value	Summary
None	None

Table 13.90. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--route-target <route-target>	Remove route target from import/export list (repeat option for multiple Route Targets)
--all-route-target	Empty route target list
--import-target <import-target>	Remove route target from import list (repeat option for multiple Route Targets)
--all-import-target	Empty import route target list
--export-target <export-target>	Remove route target from export list (repeat option for multiple Route Targets)
--all-export-target	Empty export route target list
--route-distinguisher <route-distinguisher>	Remove route distinguisher from the list of route Distinguishers from which a Route Distinguishers will be picked from to advertise a VPN route (repeat option for multiple Route Distinguishers)
--all-route-distinguisher	Empty route distinguisher list
--vni VNI	Vxlan network identifier to be used for this bgpvpn when a VXLAN encapsulation is used
--local-pref LOCAL_PREF	Default bgp local_pref to use in route advertisementstowards this BGPVPN. This command is provided by the python-neutronclient plugin.

CHAPTER 14. CA

This chapter describes the commands under the **ca** command.

14.1. CA GET

Usage:

```
openstack ca get [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                  [--noindent] [--prefix PREFIX] [--max-width <integer>]
                  [--fit-width] [--print-empty]
                  URI
```

Retrieve a CA by providing its URI.

Table 14.1. Positional Arguments

Value	Summary
None	None

Table 14.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 14.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 14.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 14.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 14.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-barbicanclient</code> plugin.

14.2. CA LIST

Usage:

```
openstack ca list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                  [--quote {all,minimal,none,nonnumeric}] [--noindent]
                  [--max-width <integer>] [--fit-width] [--print-empty]
                  [--sort-column SORT_COLUMN] [--limit LIMIT]
                  [--offset OFFSET] [--name NAME]
```

List CAs.

Table 14.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit LIMIT, -l LIMIT</code>	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
<code>--offset OFFSET, -o OFFSET</code>	Specify the page offset (default: 0)
<code>--name NAME, -n NAME</code>	Specify the ca name (default: none)

Table 14.8. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 14.9. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 14.10. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 14.11. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

CHAPTER 15. CATALOG

This chapter describes the commands under the **catalog** command.

15.1. CATALOG LIST

Usage:

```
openstack catalog list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

List services in the service catalog

Table 15.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 15.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 15.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 15.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 15.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

15.2. CATALOG SHOW

Usage:

```
openstack catalog show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <service>
```

Display service catalog details

Table 15.6. Positional Arguments

Value	Summary
None	None

Table 15.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 15.8. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 15.9. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 15.10. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 15.11. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 16. COE

This chapter describes the commands under the **coe** command.

16.1. COE CA ROTATE

Usage:

```
openstack coe ca rotate [-h] <cluster>
```

Rotate the CA certificate for cluster to revoke access.

Table 16.1. Positional Arguments

Value	Summary
None	None

Table 16.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-magnumclient plugin.

16.2. COE CA SHOW

Usage:

```
openstack coe ca show [-h] <cluster>
```

Show details about the CA certificate for a cluster.

Table 16.3. Positional Arguments

Value	Summary
None	None

Table 16.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-magnumclient plugin.

16.3. COE CA SIGN

Usage:

```
openstack coe ca sign [-h] <cluster> <csr>
```

Generate the CA certificate for a cluster.

Table 16.5. Positional Arguments

Value	Summary
None	None

Table 16.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-magnumclient plugin.

16.4. COE CLUSTER CONFIG

Usage:

```
openstack coe cluster config [-h] [--dir <dir>] [--force]
                             [--output-certs] [--use-certificate]
                             [--use-keystone]
                             <cluster>
```

Get Configuration for a Cluster

Table 16.7. Positional Arguments

Value	Summary
None	None

Table 16.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--dir <dir>	Directory to save the certificate and config files.
--force	Overwrite files if existing.
--output-certs	Output certificates in separate files.

Value	Summary
--use-certificate	Use certificate in config files.
--use-keystone	Use keystone token in config files. This command is provided by the python-magnumclient plugin.

16.5. COE CLUSTER CREATE

Usage:

```

openstack coe cluster create [-h] --cluster-template <cluster-template>
                             [--discovery-url <discovery-url>]
                             [--docker-volume-size <docker-volume-size>]
                             [--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>]
                             [--keypair <keypair>]
                             [--master-count <master-count>]
                             [--node-count <node-count>]
                             [--timeout <timeout>]
                             [--master-flavor <master-flavor>]
                             [--flavor <flavor>]
                             [--fixed-network <fixed-network>]
                             [--fixed-subnet <fixed-subnet>]
                             [--floating-ip-enabled]
                             [--floating-ip-disabled]
                             <name>

```

Create a cluster

Table 16.9. Positional Arguments

Value	Summary
None	None

Table 16.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--cluster-template <cluster-template>	Id or name of the cluster template.
--discovery-url <discovery-url>	Specifies custom delivery url for node discovery.
--docker-volume-size <docker-volume-size>	The size in gb for the docker volume to use.

Value	Summary
--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>	Arbitrary labels in the form of key=valuepairs to associate with a cluster template. May be used multiple times.
--keypair <keypair>	Uuid or name of the keypair to use.
--master-count <master-count>	The number of master nodes for the cluster.
--node-count <node-count>	The cluster node count.
--timeout <timeout>	The timeout for cluster creation time. the default is 60 minutes.
--master-flavor <master-flavor>	The nova flavor name or uuid to use when launching the master node of the Cluster.
--flavor <flavor>	The nova flavor name or uuid to use when launching the Cluster.
--fixed-network <fixed-network>	The private neutron network name to connect to this Cluster template.
--fixed-subnet <fixed-subnet>	The private neutron subnet name to connect to cluster.
--floating-ip-enabled	Indicates whether created clusters should have a floating ip.
--floating-ip-disabled	Disables floating ip creation on the new cluster This command is provided by the python-magnumclient plugin.

16.6. COE CLUSTER DELETE

Usage:

```
openstack coe cluster delete [-h] <cluster> [<cluster> ...]
```

Delete a cluster

Table 16.11. Positional Arguments

Value	Summary
None	None

Table 16.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-magnumclient plugin.

16.7. COE CLUSTER LIST

Usage:

```

openstack coe cluster list [-h] [-f {csv,json,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN]
                           [--limit <limit>] [--sort-key <sort-key>]
                           [--sort-dir <sort-dir>]

```

List clusters

Table 16.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of clusters to return
--sort-key <sort-key>	Column to sort results by
--sort-dir <sort-dir>	Direction to sort. "asc" or "desc".

Table 16.14. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 16.15. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 16.16. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 16.17. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-magnumclient plugin.

16.8. COE CLUSTER RESIZE

Usage:

```
openstack coe cluster resize [-h] [--nodes-to-remove <Server UUID>]
                             [--nodegroup <nodegroup>]
                             <cluster> node_count
```

Resize a Cluster

Table 16.18. Positional Arguments

Value	Summary
None	None

Table 16.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--nodes-to-remove <Server UUID>	Server id of the nodes to be removed. repeat to addmore server ID
--nodegroup <nodegroup>	The name or uuid of the nodegroup of current cluster. This command is provided by the python-magnumclient plugin.

16.9. COE CLUSTER SHOW

Usage:

```

openstack coe cluster show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <cluster>

```

Show a Cluster

Table 16.20. Positional Arguments

Value	Summary
None	None

Table 16.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 16.22. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 16.23. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 16.24. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 16.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-magnumclient plugin.

16.10. COE CLUSTER TEMPLATE CREATE

Usage:

```

openstack coe cluster template create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     --coe <coe> --image <image>
                                     --external-network
                                     <external-network>
                                     [--keypair <keypair>]
                                     [--fixed-network <fixed-network>]
                                     [--fixed-subnet <fixed-subnet>]

```

```

[--network-driver <network-driver>]
[--volume-driver <volume-driver>]
[--dns-nameserver <dns-nameserver>]
[--flavor <flavor>]
[--master-flavor <master-flavor>]
[--docker-volume-size <docker-volume-size>]
[--docker-storage-driver <docker-storage-driver>]
[--http-proxy <http-proxy>]
[--https-proxy <https-proxy>]
[--no-proxy <no-proxy>]
[--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>]
[--tls-disabled] [--public]
[--registry-enabled]
[--server-type <server-type>]
[--master-lb-enabled]
[--floating-ip-enabled]
[--floating-ip-disabled]
[--hidden] [--visible]
<name>

```

Create a Cluster Template.

Table 16.26. Positional Arguments

Value	Summary
None	None

Table 16.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--coe <coe>	Specify the container orchestration engine to use.
--image <image>	The name or uuid of the base image to customize for the Cluster.
--external-network <external-network>	The external neutron network name or uuid to connect to this Cluster Template.
--keypair <keypair>	The name or uuid of the ssh keypair to load into the Cluster nodes.
--fixed-network <fixed-network>	The private neutron network name to connect to this Cluster model.
--fixed-subnet <fixed-subnet>	The private neutron subnet name to connect to cluster.

Value	Summary
--network-driver <network-driver>	The network driver name for instantiating container networks.
--volume-driver <volume-driver>	The volume driver name for instantiating container volume.
--dns-nameserver <dns-nameserver>	The dns nameserver to use for this cluster template.
--flavor <flavor>	The nova flavor name or uuid to use when launching the Cluster.
--master-flavor <master-flavor>	The nova flavor name or uuid to use when launching the master node of the Cluster.
--docker-volume-size <docker-volume-size>	Specify the number of size in gb for the docker volume to use.
--docker-storage-driver <docker-storage-driver>	Select a docker storage driver. supported: devicemapper, overlay. Default: devicemapper
--http-proxy <http-proxy>	The http_proxy address to use for nodes in cluster.
--https-proxy <https-proxy>	The https_proxy address to use for nodes in cluster.
--no-proxy <no-proxy>	The no_proxy address to use for nodes in cluster.
--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>	Arbitrary labels in the form of key=value pairs to associate with a cluster template. May be used multiple times.
--tls-disabled	Disable tls in the cluster.
--public	Make cluster template public.
--registry-enabled	Enable docker registry in the cluster
--server-type <server-type>	Specify the server type to be used for example vm. for this release default server type will be vm.
--master-lb-enabled	Indicates whether created clusters should have a load balancer for master nodes or not.
--floating-ip-enabled	Indicates whether created clusters should have a floating ip.
--floating-ip-disabled	Disables floating ip creation on the new cluster

Value	Summary
--hidden	Indicates the cluster template should be hidden.
--visible	Indicates the cluster template should be visible.

Table 16.28. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 16.29. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 16.30. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 16.31. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-magnumclient plugin.

16.11. COE CLUSTER TEMPLATE DELETE

Usage:

```

openstack coe cluster template delete [-h]
                                     <cluster-templates>
                                     [<cluster-templates> ...]

```

Delete a Cluster Template.

Table 16.32. Positional Arguments

Value	Summary
None	None

Table 16.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-magnumclient plugin.

16.12. COE CLUSTER TEMPLATE LIST

Usage:

```

openstack coe cluster template list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--limit <limit>]
                                     [--sort-key <sort-key>]
                                     [--sort-dir <sort-dir>]
                                     [--fields <fields>]

```

List Cluster Templates.

Table 16.34. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of cluster templates to return
--sort-key <sort-key>	Column to sort results by

Value	Summary
<code>--sort-dir <sort-dir></code>	Direction to sort. "asc" or "desc".
<code>--fields <fields></code>	Comma-separated list of fields to display. available fields: uuid, name, coe, image_id, public, link, apiserver_port, server_type, tls_disabled, registry_enabled

Table 16.35. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 16.36. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 16.37. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 16.38. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-magnumclient</code> plugin.

16.13. COE CLUSTER TEMPLATE SHOW

Usage:

```

openstack coe cluster template show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   <cluster-template>

```

Show a Cluster Template.

Table 16.39. Positional Arguments

Value	Summary
None	None

Table 16.40. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 16.41. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 16.42. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 16.43. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 16.44. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-magnumclient</code> plugin.

16.14. COE CLUSTER TEMPLATE UPDATE

Usage:

```

openstack coe cluster template update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <cluster-template> <op>
                                     [<path=value> [<path=value> ...]]

```

Update a Cluster Template.

Table 16.45. Positional Arguments

Value	Summary
None	None

Table 16.46. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 16.47. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 16.48. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 16.49. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 16.50. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-magnumclient plugin.

16.15. COE CLUSTER UPDATE

Usage:

```
openstack coe cluster update [-h] [--rollback]
                             <cluster> <op> <path=value>
                             [<path=value> ...]
```

Update a Cluster

Table 16.51. Positional Arguments

Value	Summary
None	None

Table 16.52. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--rollback	Rollback cluster on update failure. This command is provided by the python-magnumclient plugin.

16.16. COE CLUSTER UPGRADE

Usage:

```
openstack coe cluster upgrade [-h] [--max-batch-size <max_batch_size>]
                               [--nodegroup <nodegroup>]
                               <cluster> cluster_template
```

Upgrade a Cluster

Table 16.53. Positional Arguments

Value	Summary
None	None

Table 16.54. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--max-batch-size <max_batch_size>	The max batch size for upgrading each time.
--nodegroup <nodegroup>	The name or uuid of the nodegroup of current cluster. This command is provided by the python-magnumclient plugin.

16.17. COE NODEGROUP LIST

Usage:

```
openstack coe nodegroup list [-h] [-f {csv,json,table,value,yaml}]
                              [-c COLUMN]
```

```

[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--limit <limit>] [--sort-key <sort-key>]
[--sort-dir <sort-dir>] [--role <role>]
<cluster>

```

List nodegroups

Table 16.55. Positional Arguments

Value	Summary
None	None

Table 16.56. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of nodegroups to return
--sort-key <sort-key>	Column to sort results by
--sort-dir <sort-dir>	Direction to sort. "asc" or "desc".
--role <role>	List the nodegroups in the cluster with this role

Table 16.57. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 16.58. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 16.59. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 16.60. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-magnumclient plugin.

16.18. COE NODEGROUP SHOW

Usage:

```
openstack coe nodegroup show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <cluster> <nodegroup>
```

Show a nodegroup

Table 16.61. Positional Arguments

Value	Summary
None	None

Table 16.62. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 16.63. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 16.64. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 16.65. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 16.66. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-magnumclient plugin.

16.19. COE QUOTAS CREATE

Usage:

```
openstack coe quotas create [-h] --project-id <project-id> --resource
                             <resource> [--hard-limit <hard-limit>]
```

Create a quota.

Table 16.67. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name.
--hard-limit <hard-limit>	Max resource limit (default: hard-limit=1) This command is provided by the python-magnumclient plugin.

16.20. COE QUOTAS DELETE

Usage:

```
openstack coe quotas delete [-h] --project-id <project-id> --resource
                             <resource>
```

Delete specified resource quota.

Table 16.68. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name. This command is provided by the python-magnumclient plugin.

16.21. COE QUOTAS LIST

Usage:

```
openstack coe quotas list [-h] [--marker <marker>] [--limit <limit>]
                           [--sort-key <sort-key>]
                           [--sort-dir <sort-dir>] [--all-tenants]
```

Print a list of available quotas.

Table 16.69. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--marker <marker>	The last quota uuid of the previous page; displays list of quotas after "marker".
--limit <limit>	Maximum number of quotas to return.
--sort-key <sort-key>	Column to sort results by.
--sort-dir <sort-dir>	Direction to sort. "asc" or "desc".
--all-tenants	Flag to indicate list all tenant quotas. This command is provided by the python-magnumclient plugin.

16.22. COE QUOTAS SHOW

Usage:

```
openstack coe quotas show [-h] --project-id <project-id> --resource
                           <resource>
```

Show details about the given project resource quota.

Table 16.70. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name. This command is provided by the python-magnumclient plugin.

16.23. COE QUOTAS UPDATE

Usage:

```
openstack coe quotas update [-h] --project-id <project-id> --resource
                             <resource> [--hard-limit <hard-limit>]
```

Update information about the given project resource quota.

Table 16.71. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name.
--hard-limit <hard-limit>	Max resource limit (default: hard-limit=1) This command is provided by the python-magnumclient plugin.

16.24. COE SERVICE LIST

Usage:

```
openstack coe service list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
```

Print a list of Magnum services.

Table 16.72. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 16.73. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 16.74. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 16.75. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 16.76. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-magnumclient plugin.

16.25. COE STATS LIST

Usage:

```
openstack coe stats list [-h] <project>
```

Show stats for the given project_id

Table 16.77. Positional Arguments

Value	Summary
None	None

Table 16.78. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-magnumclient plugin.

CHAPTER 17. COMMAND

This chapter describes the commands under the **command** command.

17.1. COMMAND LIST

Usage:

```
openstack command list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--group <group-keyword>]
```

List recognized commands by group

Table 17.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--group <group-keyword>	Show commands filtered by a command group, for example: identity, volume, compute, image, network and other keywords

Table 17.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 17.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 17.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 17.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 18. COMPLETE.ADOC

This chapter describes the commands under the **complete.adoc** command.

18.1. COMPLETE

Usage:

```
openstack complete [-h] [--name <command_name>] [--shell <shell>]
```

print bash completion command

Table 18.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <command_name>	Command name to support with command completion
--shell <shell>	Shell being used. use none for data only (default: bash) This command is provided by the cliff plugin.

CHAPTER 19. COMPUTE

This chapter describes the commands under the **compute** command.

19.1. COMPUTE AGENT CREATE

Usage:

```
openstack compute agent create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <os> <architecture> <version> <url>
                               <md5hash> <hypervisor>
```

Create compute agent

Table 19.1. Positional Arguments

Value	Summary
None	None

Table 19.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 19.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 19.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 19.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 19.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

19.2. COMPUTE AGENT DELETE

Usage:

```
openstack compute agent delete [-h] <id> [<id> ...]
```

Delete compute agent(s)

Table 19.7. Positional Arguments

Value	Summary
None	None

Table 19.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

19.3. COMPUTE AGENT LIST

Usage:

```
openstack compute agent list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
```



```
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--hypervisor <hypervisor>]
```

List compute agents

Table 19.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--hypervisor <hypervisor>	Type of hypervisor

Table 19.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 19.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 19.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 19.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

19.4. COMPUTE AGENT SET

Usage:

```
openstack compute agent set [-h] [--agent-version <version>]
                             [--url <url>] [--md5hash <md5hash>]
                             <id>
```

Set compute agent properties

Table 19.14. Positional Arguments

Value	Summary
None	None

Table 19.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--agent-version <version>	Version of the agent
--url <url>	Url of the agent
--md5hash <md5hash>	Md5 hash of the agent

19.5. COMPUTE SERVICE DELETE

Usage:

```
openstack compute service delete [-h] <service> [<service> ...]
```

Delete compute service(s)

Table 19.16. Positional Arguments

Value	Summary
None	None

Table 19.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

19.6. COMPUTE SERVICE LIST

Usage:

```

openstack compute service list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--host <host>] [--service <service>]
                                [--long]

```

List compute services. Using ``--os-compute-api-version`` 2.53 or greater will return the ID as a UUID value which can be used to uniquely identify the service in a multi-cell deployment.

Table 19.18. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--host <host>	List services on specified host (name only)
--service <service>	List only specified service binaries (name only). for example, ``nova-compute``, ``nova-conductor``, etc.
--long	List additional fields in output

Table 19.19. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 19.20. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 19.21. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 19.22. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

19.7. COMPUTE SERVICE SET

Usage:

```
openstack compute service set [-h] [--enable | --disable]
                                [--disable-reason <reason>]
                                [--up | --down]
                                <host> <service>
```

Set compute service properties

Table 19.23. Positional Arguments

Value	Summary
None	None

Table 19.24. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--enable	Enable service
--disable	Disable service
--disable-reason <reason>	Reason for disabling the service (in quotes). should be used with --disable option.
--up	Force up service. requires ``--os-compute-api-version`` 2.11 or greater.
--down	Force down service. requires ``--os-compute-api-version`` 2.11 or greater.

CHAPTER 20. CONFIGURATION

This chapter describes the commands under the **configuration** command.

20.1. CONFIGURATION SHOW

Usage:

```
openstack configuration show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--mask | --unmask]
```

Display configuration details

Table 20.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--mask	Attempt to mask passwords (default)
--unmask	Show password in clear text

Table 20.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 20.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 20.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 20.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 21. CONSISTENCY

This chapter describes the commands under the **consistency** command.

21.1. CONSISTENCY GROUP ADD VOLUME

Usage:

```
openstack consistency group add volume [-h]
                                     <consistency-group> <volume>
                                     [<volume> ...]
```

Add volume(s) to consistency group

Table 21.1. Positional Arguments

Value	Summary
None	None

Table 21.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

21.2. CONSISTENCY GROUP CREATE

Usage:

```
openstack consistency group create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   (--volume-type <volume-type> | --consistency-group-source <consistency-
group> | --consistency-group-snapshot <consistency-group-snapshot>)
                                   [--description <description>]
                                   [--availability-zone <availability-zone>]
                                   [<name>]
```

Create new consistency group.

Table 21.3. Positional Arguments

Value	Summary
None	None

Table 21.4. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--volume-type <volume-type></code>	Volume type of this consistency group (name or id)
<code>--consistency-group-source <consistency-group></code>	Existing consistency group (name or id)
<code>--consistency-group-snapshot <consistency-group-snapshot></code>	Existing consistency group snapshot (name or id)
<code>--description <description></code>	Description of this consistency group
<code>--availability-zone <availability-zone></code>	Availability zone for this consistency group (not available if creating consistency group from source)

Table 21.5. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 21.6. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 21.7. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 21.8. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

21.3. CONSISTENCY GROUP DELETE

Usage:

```
openstack consistency group delete [-h] [--force]
                                <consistency-group>
                                [<consistency-group> ...]
```

Delete consistency group(s).

Table 21.9. Positional Arguments

Value	Summary
None	None

Table 21.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Allow delete in state other than error or available

21.4. CONSISTENCY GROUP LIST

Usage:

```
openstack consistency group list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--all-projects] [--long]
```

List consistency groups.

Table 21.11. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show details for all projects. admin only. (defaults to False)
<code>--long</code>	List additional fields in output

Table 21.12. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 21.13. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 21.14. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 21.15. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

21.5. CONSISTENCY GROUP REMOVE VOLUME

Usage:

```
openstack consistency group remove volume [-h]
                                     <consistency-group> <volume>
                                     [<volume> ...]
```

Remove volume(s) from consistency group

Table 21.16. Positional Arguments

Value	Summary
None	None

Table 21.17. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

21.6. CONSISTENCY GROUP SET

Usage:

```
openstack consistency group set [-h] [--name <name>]
                                [--description <description>]
                                <consistency-group>
```

Set consistency group properties

Table 21.18. Positional Arguments

Value	Summary
None	None

Table 21.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New consistency group name
--description <description>	New consistency group description

21.7. CONSISTENCY GROUP SHOW

Usage:

```

openstack consistency group show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <consistency-group>

```

Display consistency group details.

Table 21.20. Positional Arguments

Value	Summary
None	None

Table 21.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 21.22. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 21.23. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 21.24. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 21.25. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

21.8. CONSISTENCY GROUP SNAPSHOT CREATE

Usage:

```

openstack consistency group snapshot create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--consistency-group <consistency-group>]
                                         [--description <description>]
                                         [<snapshot-name>]

```

Create new consistency group snapshot.

Table 21.26. Positional Arguments

Value	Summary
None	None

Table 21.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--consistency-group <consistency-group>	Consistency group to snapshot (name or id) (default to be the same as <snapshot-name>)
--description <description>	Description of this consistency group snapshot

Table 21.28. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 21.29. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 21.30. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 21.31. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

21.9. CONSISTENCY GROUP SNAPSHOT DELETE

Usage:

```
openstack consistency group snapshot delete [-h]
                                         <consistency-group-snapshot>
                                         [<consistency-group-snapshot> ...]
```

Delete consistency group snapshot(s).

Table 21.32. Positional Arguments

Value	Summary
None	None

Table 21.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

21.10. CONSISTENCY GROUP SNAPSHOT LIST

Usage:

```
openstack consistency group snapshot list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--all-projects] [--long]
                                         [--status <status>]
                                         [--consistency-group <consistency-group>]
```

List consistency group snapshots.

Table 21.34. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show detail for all projects (admin only) (defaults to False)

Value	Summary
<code>--long</code>	List additional fields in output
<code>--status <status></code>	Filters results by a status ("available", "error", "creating", "deleting" or "error_deleting")
<code>--consistency-group <consistency-group></code>	Filters results by a consistency group (name or id)

Table 21.35. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 21.36. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 21.37. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 21.38. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

21.11. CONSISTENCY GROUP SNAPSHOT SHOW

Usage:

```

openstack consistency group snapshot show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <consistency-group-snapshot>

```

Display consistency group snapshot details

Table 21.39. Positional Arguments

Value	Summary
None	None

Table 21.40. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 21.41. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 21.42. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 21.43. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 21.44. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 22. CONSOLE

This chapter describes the commands under the **console** command.

22.1. CONSOLE LOG SHOW

Usage:

```
openstack console log show [-h] [--lines <num-lines>] <server>
```

Show server’s console output

Table 22.1. Positional Arguments

Value	Summary
None	None

Table 22.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--lines <num-lines>	Number of lines to display from the end of the log (default=all)

22.2. CONSOLE URL SHOW

Usage:

```
openstack console url show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--novnc | --xvpvnc | --spice | --rdp | --serial | --mks]
                             <server>
```

Show server’s remote console URL

Table 22.3. Positional Arguments

Value	Summary
None	None

Table 22.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--novnc	Show novnc console url (default)
--xvpng	Show xvpng console url
--spice	Show spice console url
--rdp	Show rdp console url
--serial	Show serial console url
--mks	Show webmks console url

Table 22.5. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 22.6. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 22.7. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 22.8. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 23. CONSUMER

This chapter describes the commands under the **consumer** command.

23.1. CONSUMER CREATE

Usage:

```
openstack consumer create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--description <description>]
```

Create new consumer

Table 23.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	New consumer description

Table 23.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 23.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 23.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 23.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

23.2. CONSUMER DELETE

Usage:

```
openstack consumer delete [-h] <consumer> [<consumer> ...]
```

Delete consumer(s)

Table 23.6. Positional Arguments

Value	Summary
None	None

Table 23.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

23.3. CONSUMER LIST

Usage:

```
openstack consumer list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

List consumers

Table 23.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 23.9. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 23.10. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 23.11. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 23.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

23.4. CONSUMER SET

Usage:

```
openstack consumer set [-h] [--description <description>] <consumer>
```

Set consumer properties

Table 23.13. Positional Arguments

Value	Summary
None	None

Table 23.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	New consumer description

23.5. CONSUMER SHOW

Usage:

```
openstack consumer show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <consumer>
```

Display consumer details

Table 23.15. Positional Arguments

Value	Summary
None	None

Table 23.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 23.17. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 23.18. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 23.19. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 23.20. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 24. CONTAINER

This chapter describes the commands under the **container** command.

24.1. CONTAINER CREATE

Usage:

```
openstack container create [-h] [-f {csv,json,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN]
                           <container-name> [<container-name> ...]
```

Create new container

Table 24.1. Positional Arguments

Value	Summary
None	None

Table 24.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 24.3. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 24.4. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 24.5. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 24.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

24.2. CONTAINER DELETE

Usage:

```
openstack container delete [-h] [--recursive]
                           <container> [<container> ...]
```

Delete container

Table 24.7. Positional Arguments

Value	Summary
None	None

Table 24.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--recursive, -r</code>	Recursively delete objects and container

24.3. CONTAINER LIST

Usage:

```

openstack container list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--prefix <prefix>] [--marker <marker>]
                        [--end-marker <end-marker>]
                        [--limit <num-containers>] [--long] [--all]

```

List containers

Table 24.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--prefix <prefix>	Filter list using <prefix>
--marker <marker>	Anchor for paging
--end-marker <end-marker>	End anchor for paging
--limit <num-containers>	Limit the number of containers returned
--long	List additional fields in output
--all	List all containers (default is 10000)

Table 24.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 24.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 24.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 24.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

24.4. CONTAINER SAVE

Usage:

```
openstack container save [-h] <container>
```

Save container contents locally

Table 24.14. Positional Arguments

Value	Summary
None	None

Table 24.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

24.5. CONTAINER SET

Usage:

```
openstack container set [-h] --property <key=value> <container>
```

Set container properties

Table 24.16. Positional Arguments

Value	Summary
None	None

Table 24.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key=value>	Set a property on this container (repeat option to set multiple properties)

24.6. CONTAINER SHOW

Usage:

```

openstack container show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <container>

```

Display container details

Table 24.18. Positional Arguments

Value	Summary
None	None

Table 24.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 24.20. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 24.21. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 24.22. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 24.23. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

24.7. CONTAINER UNSET

Usage:

```
openstack container unset [-h] --property <key> <container>
```

Unset container properties

Table 24.24. Positional Arguments

Value	Summary
None	None

Table 24.25. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
--property <key>	Property to remove from container (repeat option to remove multiple properties)

CHAPTER 25. CREDENTIAL

This chapter describes the commands under the **credential** command.

25.1. CREDENTIAL CREATE

Usage:

```
openstack credential create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--type <type>]
                             [--project <project>]
                             <user> <data>
```

Create new credential

Table 25.1. Positional Arguments

Value	Summary
None	None

Table 25.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	New credential type: cert, ec2, totp and so on
--project <project>	Project which limits the scope of the credential (name or ID)

Table 25.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 25.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 25.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 25.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

25.2. CREDENTIAL DELETE

Usage:

```
openstack credential delete [-h] <credential-id> [<credential-id> ...]
```

Delete credential(s)

Table 25.7. Positional Arguments

Value	Summary
None	None

Table 25.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

25.3. CREDENTIAL LIST

Usage:

```
openstack credential list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
```

```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN] [--user <user>]
[--user-domain <user-domain>] [--type <type>]

```

List credentials

Table 25.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--user <user>	Filter credentials by <user> (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--type <type>	Filter credentials by type: cert, ec2, totp and so on

Table 25.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 25.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 25.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 25.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

25.4. CREDENTIAL SET

Usage:

```
openstack credential set [-h] --user <user> --type <type> --data <data>
                        [--project <project>]
                        <credential-id>
```

Set credential properties

Table 25.14. Positional Arguments

Value	Summary
None	None

Table 25.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--user <user></code>	User that owns the credential (name or id)
<code>--type <type></code>	New credential type: cert, ec2, totp and so on
<code>--data <data></code>	New credential data
<code>--project <project></code>	Project which limits the scope of the credential (name or ID)

25.5. CREDENTIAL SHOW

Usage:

```

openstack credential show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty]
                          <credential-id>

```

Display credential details

Table 25.16. Positional Arguments

Value	Summary
None	None

Table 25.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 25.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 25.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 25.20. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 25.21. Table Formatter

Value	Summary

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 26. CRON

This chapter describes the commands under the **cron** command.

26.1. CRON TRIGGER CREATE

Usage:

```
openstack cron trigger create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--params PARAMS] [--pattern <* * * * *>]
                             [--first-time <YYYY-MM-DD HH:MM>]
                             [--count <integer>] [--utc]
                             name workflow_identifier [workflow_input]
```

Create new trigger.

Table 26.1. Positional Arguments

Value	Summary
None	None

Table 26.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--params PARAMS	Workflow params
--pattern <* * * * *>	Cron trigger pattern
--first-time <YYYY-MM-DD HH:MM>	Date and time of the first execution. time is treated as local time unless --utc is also specified
--count <integer>	Number of wanted executions
--utc	All times specified should be treated as utc

Table 26.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 26.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 26.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 26.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

26.2. CRON TRIGGER DELETE

Usage:

```
openstack cron trigger delete [-h] cron_trigger [cron_trigger ...]
```

Delete trigger.

Table 26.7. Positional Arguments

Value	Summary
None	None

Table 26.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

26.3. CRON TRIGGER LIST

Usage:

```

openstack cron trigger list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker [MARKER]] [--limit [LIMIT]]
                             [--sort_keys [SORT_KEYS]]
                             [--sort_dirs [SORT_DIRS]]
                             [--filter FILTERS]

```

List all cron triggers.

Table 26.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Table 26.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 26.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 26.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 26.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

26.4. CRON TRIGGER SHOW

Usage:

```
openstack cron trigger show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
```

```

[--print-empty]
cron_trigger

```

Show specific cron trigger.

Table 26.14. Positional Arguments

Value	Summary
None	None

Table 26.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 26.16. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 26.17. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 26.18. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 26.19. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

CHAPTER 27. DATASTORE

This chapter describes the commands under the **datastore** command.

27.1. DATASTORE LIST

Usage:

```
openstack datastore list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

List available datastores

Table 27.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 27.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 27.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 27.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 27.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-troveclient plugin.

27.2. DATASTORE SHOW

Usage:

```
openstack datastore show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <datastore>
```

Shows details of a datastore

Table 27.6. Positional Arguments

Value	Summary
None	None

Table 27.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 27.8. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 27.9. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 27.10. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 27.11. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-troveclient plugin.

27.3. DATASTORE VERSION LIST

Usage:

```
openstack datastore version list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                <datastore>
```

Lists available versions for a datastore

Table 27.12. Positional Arguments

Value	Summary
None	None

Table 27.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 27.14. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 27.15. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 27.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 27.17. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-troveclient plugin.

27.4. DATASTORE VERSION SHOW

Usage:

```
openstack datastore version show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--datastore <datastore>]
                                <datastore_version>
```

Shows details of a datastore version.

Table 27.18. Positional Arguments

Value	Summary
None	None

Table 27.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--datastore <datastore>	Id or name of the datastore. optional if the id of the datastore_version is provided.

Table 27.20. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 27.21. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 27.22. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 27.23. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-troveclient plugin.

CHAPTER 28. DNS

This chapter describes the commands under the **dns** command.

28.1. DNS QUOTA LIST

Usage:

```
openstack dns quota list [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        [--project-id PROJECT_ID]
```

List quotas

Table 28.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None
--project-id PROJECT_ID	Project id default: current project

Table 28.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 28.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 28.4. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 28.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

28.2. DNS QUOTA RESET

Usage:

```
openstack dns quota reset [-h] [--all-projects] [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          [--project-id PROJECT_ID]
```

Reset quotas

Table 28.6. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None
<code>--project-id PROJECT_ID</code>	Project id This command is provided by the python-designateclient plugin.

28.3. DNS QUOTA SET

Usage:

```
openstack dns quota set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        [--project-id PROJECT_ID]
                        [--api-export-size <api-export-size>]
                        [--recordset-records <recordset-records>]
                        [--zone-records <zone-records>]
                        [--zone-recordsets <zone-recordsets>]
                        [--zones <zones>]
```

Set quotas

Table 28.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None
--project-id PROJECT_ID	Project id
--api-export-size <api-export-size>	New value for the api-export-size quota
--recordset-records <recordset-records>	New value for the recordset-records quota
--zone-records <zone-records>	New value for the zone-records quota
--zone-recordsets <zone-recordsets>	New value for the zone-recordsets quota
--zones <zones>	New value for the zones quota

Table 28.8. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 28.9. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 28.10. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 28.11. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

28.4. DNS SERVICE LIST

Usage:

```

openstack dns service list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--hostname HOSTNAME]
                             [--service_name SERVICE_NAME]
```



```
[--status STATUS] [--all-projects]
[--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
```

List service statuses

Table 28.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--hostname HOSTNAME	Hostname
--service_name SERVICE_NAME	Service name
--status STATUS	Status
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 28.13. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 28.14. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 28.15. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 28.16. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

28.5. DNS SERVICE SHOW

Usage:

```

openstack dns service show [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty] [--all-projects]
                           [--edit-managed]
                           [--sudo-project-id SUDO_PROJECT_ID]
                           id

```

Show service status details

Table 28.17. Positional Arguments

Value	Summary
None	None

Table 28.18. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false

Value	Summary
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 28.19. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 28.20. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 28.21. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 28.22. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

CHAPTER 29. DOMAIN

This chapter describes the commands under the **domain** command.

29.1. DOMAIN CREATE

Usage:

```
openstack domain create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--description <description>]
                        [--enable | --disable] [--or-show]
                        <domain-name>
```

Create new domain

Table 29.1. Positional Arguments

Value	Summary
None	None

Table 29.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	New domain description
--enable	Enable domain (default)
--disable	Disable domain
--or-show	Return existing domain

Table 29.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 29.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 29.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 29.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

29.2. DOMAIN DELETE

Usage:

```
openstack domain delete [-h] <domain> [<domain> ...]
```

Delete domain(s)

Table 29.7. Positional Arguments

Value	Summary
None	None

Table 29.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

29.3. DOMAIN LIST

Usage:

```

openstack domain list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]

```

List domains

Table 29.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 29.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 29.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 29.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 29.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

29.4. DOMAIN SET

Usage:

```
openstack domain set [-h] [--name <name>] [--description <description>]
                    [--enable | --disable]
                    <domain>
```

Set domain properties

Table 29.14. Positional Arguments

Value	Summary
None	None

Table 29.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New domain name
--description <description>	New domain description
--enable	Enable domain
--disable	Disable domain

29.5. DOMAIN SHOW

Usage:

```
openstack domain show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <domain>
```

Display domain details

Table 29.16. Positional Arguments

Value	Summary
None	None

Table 29.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 29.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 29.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 29.20. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 29.21. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

CHAPTER 30. EC2

This chapter describes the commands under the **ec2** command.

30.1. EC2 CREDENTIALS CREATE

Usage:

```
openstack ec2 credentials create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--project <project>]
                                [--user <user>]
                                [--user-domain <user-domain>]
                                [--project-domain <project-domain>]
```

Create EC2 credentials

Table 30.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Create credentials in project (name or id; default: current authenticated project)
--user <user>	Create credentials for user (name or id; default: current authenticated user)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 30.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 30.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 30.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 30.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

30.2. EC2 CREDENTIALS DELETE

Usage:

```
openstack ec2 credentials delete [-h] [--user <user>]
                                [--user-domain <user-domain>]
                                <access-key> [<access-key> ...]
```

Delete EC2 credentials

Table 30.6. Positional Arguments

Value	Summary
None	None

Table 30.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--user <user></code>	Delete credentials for user (name or id)
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

30.3. EC2 CREDENTIALS LIST

Usage:

```

openstack ec2 credentials list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--user <user>]
                               [--user-domain <user-domain>]

```

List EC2 credentials

Table 30.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--user <user></code>	Filter list by user (name or id)
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Table 30.9. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 30.10. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 30.11. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 30.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

30.4. EC2 CREDENTIALS SHOW

Usage:

```
openstack ec2 credentials show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--user <user>]
                               [--user-domain <user-domain>]
                               <access-key>
```

Display EC2 credentials details

Table 30.13. Positional Arguments

Value	Summary
None	None

Table 30.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--user <user>	Show credentials for user (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Table 30.15. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 30.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 30.17. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 30.18. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 31. ENDPOINT

This chapter describes the commands under the **endpoint** command.

31.1. ENDPOINT ADD PROJECT

Usage:

```
openstack endpoint add project [-h] [--project-domain <project-domain>]
                               <endpoint> <project>
```

Associate a project to an endpoint

Table 31.1. Positional Arguments

Value	Summary
None	None

Table 31.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

31.2. ENDPOINT CREATE

Usage:

```
openstack endpoint create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--region <region-id>]
                          [--enable | --disable]
                          <service> <interface> <url>
```

Create new endpoint

Table 31.3. Positional Arguments

Value	Summary
None	None

Table 31.4. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--region <region-id></code>	New endpoint region id
<code>--enable</code>	Enable endpoint (default)
<code>--disable</code>	Disable endpoint

Table 31.5. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 31.6. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 31.7. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 31.8. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

31.3. ENDPOINT DELETE

Usage:

```
openstack endpoint delete [-h] <endpoint-id> [<endpoint-id> ...]
```

Delete endpoint(s)

Table 31.9. Positional Arguments

Value	Summary
None	None

Table 31.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

31.4. ENDPOINT GROUP ADD PROJECT

Usage:

```
openstack endpoint group add project [-h]
                                     [--project-domain <project-domain>]
                                     <endpoint-group> <project>
```

Add a project to an endpoint group

Table 31.11. Positional Arguments

Value	Summary
None	None

Table 31.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

31.5. ENDPOINT GROUP CREATE

Usage:

```

openstack endpoint group create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description DESCRIPTION]
                                <name> <filename>

```

Create new endpoint group

Table 31.13. Positional Arguments

Value	Summary
None	None

Table 31.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Description of the endpoint group

Table 31.15. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 31.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 31.17. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 31.18. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

31.6. ENDPOINT GROUP DELETE

Usage:

```
openstack endpoint group delete [-h]
                                <endpoint-group> [<endpoint-group> ...]
```

Delete endpoint group(s)

Table 31.19. Positional Arguments

Value	Summary
None	None

Table 31.20. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

31.7. ENDPOINT GROUP LIST

Usage:

```
openstack endpoint group list [-h] [-f {csv,json,table,value,yaml}]
                              [-c COLUMN]
                              [--quote {all,minimal,none,nonnumeric}]
                              [--noindent] [--max-width <integer>]
                              [--fit-width] [--print-empty]
                              [--sort-column SORT_COLUMN]
                              [--endpointgroup <endpoint-group> | --project <project>]
                              [--domain <domain>]
```

List endpoint groups

Table 31.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--endpointgroup <endpoint-group>	Endpoint group (name or id)
--project <project>	Project (name or id)
--domain <domain>	Domain owning <project> (name or id)

Table 31.22. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 31.23. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 31.24. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 31.25. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

31.8. ENDPOINT GROUP REMOVE PROJECT

Usage:

```
openstack endpoint group remove project [-h]
                                     [--project-domain <project-domain>]
                                     <endpoint-group> <project>
```

Remove project from endpoint group

Table 31.26. Positional Arguments

Value	Summary
None	None

Table 31.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

31.9. ENDPOINT GROUP SET

Usage:

```
openstack endpoint group set [-h] [--name <name>]
                             [--filters <filename>]
                             [--description <description>]
                             <endpoint-group>
```

Set endpoint group properties

Table 31.28. Positional Arguments

Value	Summary
None	None

Table 31.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New endpoint group name
--filters <filename>	Filename that contains a new set of filters
--description <description>	New endpoint group description

31.10. ENDPOINT GROUP SHOW

Usage:

```

openstack endpoint group show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               <endpointgroup>

```

Display endpoint group details

Table 31.30. Positional Arguments

Value	Summary
None	None

Table 31.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 31.32. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 31.33. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 31.34. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 31.35. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

31.11. ENDPOINT LIST

Usage:

```

openstack endpoint list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--service <service>] [--interface <interface>]
                        [--region <region-id>]
                        [--endpoint <endpoint-group> | --project <project>]
                        [--project-domain <project-domain>]

```

List endpoints

Table 31.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--service <service>	Filter by service (type, name or id)
--interface <interface>	Filter by interface type (admin, public or internal)
--region <region-id>	Filter by region id
--endpoint <endpoint-group>	Endpoint to list filters
--project <project>	Project to list filters (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 31.37. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 31.38. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 31.39. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 31.40. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

31.12. ENDPOINT REMOVE PROJECT

Usage:

```
openstack endpoint remove project [-h]
                                [--project-domain <project-domain>]
                                <endpoint> <project>
```

Dissociate a project from an endpoint

Table 31.41. Positional Arguments

Value	Summary
None	None

Table 31.42. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

31.13. ENDPOINT SET

Usage:

```
openstack endpoint set [-h] [--region <region-id>]
                      [--interface <interface>] [--url <url>]
                      [--service <service>] [--enable | --disable]
                      <endpoint-id>
```

Set endpoint properties

Table 31.43. Positional Arguments

Value	Summary
None	None

Table 31.44. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--region <region-id>	New endpoint region id
--interface <interface>	New endpoint interface type (admin, public or internal)
--url <url>	New endpoint url
--service <service>	New endpoint service (name or id)
--enable	Enable endpoint
--disable	Disable endpoint

31.14. ENDPOINT SHOW

Usage:

```
openstack endpoint show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <endpoint>
```

Display endpoint details

Table 31.45. Positional Arguments

Value	Summary
None	None

Table 31.46. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 31.47. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 31.48. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 31.49. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 31.50. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 32. EVENT

This chapter describes the commands under the **event** command.

32.1. EVENT TRIGGER CREATE

Usage:

```
openstack event trigger create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--params PARAMS]
                               name workflow_id exchange topic event
                               [workflow_input]
```

Create new trigger.

Table 32.1. Positional Arguments

Value	Summary
None	None

Table 32.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--params PARAMS	Workflow params

Table 32.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 32.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 32.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 32.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

32.2. EVENT TRIGGER DELETE

Usage:

```
openstack event trigger delete [-h]
                               event_trigger_id [event_trigger_id ...]
```

Delete trigger.

Table 32.7. Positional Arguments

Value	Summary
None	None

Table 32.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-mistralclient</code> plugin.

32.3. EVENT TRIGGER LIST

Usage:

```
openstack event trigger list [-h] [-f {csv,json,table,value,yaml}]
```

```

[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--marker [MARKER]] [--limit [LIMIT]]
[--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]]
[--filter FILTERS]

```

List all event triggers.

Table 32.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Table 32.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 32.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 32.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 32.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

32.4. EVENT TRIGGER SHOW

Usage:

```
openstack event trigger show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             event_trigger
```

Show specific event trigger.

Table 32.14. Positional Arguments

Value	Summary
None	None

Table 32.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 32.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 32.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 32.18. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 32.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

CHAPTER 33. EXTENSION

This chapter describes the commands under the **extension** command.

33.1. EXTENSION LIST

Usage:

```
openstack extension list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--compute]
                        [--identity] [--network] [--volume] [--long]
```

List API extensions

Table 33.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--compute	List extensions for the compute api
--identity	List extensions for the identity api
--network	List extensions for the network api
--volume	List extensions for the block storage api
--long	List additional fields in output

Table 33.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 33.3. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 33.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 33.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

33.2. EXTENSION SHOW

Usage:

```

openstack extension show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <extension>

```

Show API extension

Table 33.6. Positional Arguments

Value	Summary
None	None

Table 33.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 33.8. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 33.9. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 33.10. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 33.11. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 34. FEDERATION

This chapter describes the commands under the **federation** command.

34.1. FEDERATION DOMAIN LIST

Usage:

```
openstack federation domain list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```

List accessible domains

Table 34.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 34.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 34.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 34.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 34.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.2. FEDERATION PROJECT LIST

Usage:

```
openstack federation project list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```

List accessible projects

Table 34.6. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 34.7. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 34.8. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 34.9. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.10. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.3. FEDERATION PROTOCOL CREATE

Usage:

```

openstack federation protocol create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   --identity-provider
                                   <identity-provider> --mapping
                                   <mapping>
                                   <name>

```

Create new federation protocol

Table 34.11. Positional Arguments

Value	Summary
None	None

Table 34.12. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--identity-provider <identity-provider></code>	Identity provider that will support the new federation protocol (name or ID) (required)
<code>--mapping <mapping></code>	Mapping that is to be used (name or id) (required)

Table 34.13. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 34.14. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.15. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 34.16. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.4. FEDERATION PROTOCOL DELETE

Usage:

```
openstack federation protocol delete [-h] --identity-provider
                                   <identity-provider>
                                   <federation-protocol>
                                   [<federation-protocol> ...]
```

Delete federation protocol(s)

Table 34.17. Positional Arguments

Value	Summary
None	None

Table 34.18. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider that supports <federation-protocol> (name or ID) (required)

34.5. FEDERATION PROTOCOL LIST

Usage:

```
openstack federation protocol list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent] [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   --identity-provider
                                   <identity-provider>
```

List federation protocols

Table 34.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider to list (name or id) (required)

Table 34.20. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 34.21. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 34.22. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.23. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.6. FEDERATION PROTOCOL SET

Usage:

```
openstack federation protocol set [-h] --identity-provider
                                <identity-provider>
                                [--mapping <mapping>]
                                <name>
```

Set federation protocol properties

Table 34.24. Positional Arguments

Value	Summary
None	None

Table 34.25. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider that supports <federation-protocol> (name or ID) (required)
--mapping <mapping>	Mapping that is to be used (name or id)

34.7. FEDERATION PROTOCOL SHOW

Usage:

```

openstack federation protocol show [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  --identity-provider
                                  <identity-provider>
                                  <federation-protocol>

```

Display federation protocol details

Table 34.26. Positional Arguments

Value	Summary
None	None

Table 34.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider that supports <federation-protocol> (name or ID) (required)

Table 34.28. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 34.29. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.30. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 34.31. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 35. FIREWALL

This chapter describes the commands under the **firewall** command.

35.1. FIREWALL GROUP CREATE

Usage:

```
openstack firewall group create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--name NAME]
                                [--description <description>]
                                [--ingress-firewall-policy <ingress-firewall-policy> | --no-ingress-firewall-
policy]
                                [--egress-firewall-policy <egress-firewall-policy> | --no-egress-firewall-policy]
                                [--public | --private | --share | --no-share]
                                [--enable | --disable]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                [--port <port> | --no-port]
```

Create a new firewall group

Table 35.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Name for the firewall group
--description <description>	Description of the firewall group
--ingress-firewall-policy <ingress-firewall-policy>	Ingress firewall policy (name or id)
--no-ingress-firewall-policy	Detach ingress firewall policy from the firewall group
--egress-firewall-policy <egress-firewall-policy>	Egress firewall policy (name or id)
--no-egress-firewall-policy	Detach egress firewall policy from the firewall group
--public	Make the firewall group public, which allows it to be used in all projects (as opposed to the default, which is to restrict its use to the current project). This option is deprecated and would be removed in R release.

Value	Summary
--private	Restrict use of the firewall group to the current project. This option is deprecated and would be removed in R release.
--share	Share the firewall group to be used in all projects (by default, it is restricted to be used by the current project).
--no-share	Restrict use of the firewall group to the current project
--enable	Enable firewall group
--disable	Disable firewall group
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--port <port>	Port(s) (name or id) to apply firewall group. this option can be repeated
--no-port	Detach all port from the firewall group

Table 35.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 35.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 35.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 35.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.2. FIREWALL GROUP DELETE

Usage:

```
openstack firewall group delete [-h]
                               <firewall-group> [<firewall-group> ...]
```

Delete firewall group(s)

Table 35.6. Positional Arguments

Value	Summary
None	None

Table 35.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

35.3. FIREWALL GROUP LIST

Usage:

```
openstack firewall group list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] [--long]
```

List firewall groups

Table 35.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 35.9. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 35.10. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 35.11. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 35.12. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.4. FIREWALL GROUP POLICY ADD RULE

Usage:

```

openstack firewall group policy add rule [-h]
                                         [--insert-before <firewall-rule>]
                                         [--insert-after <firewall-rule>]
                                         <firewall-policy>
                                         <firewall-rule>

```

Insert a rule into a given firewall policy

Table 35.13. Positional Arguments

Value	Summary
None	None

Table 35.14. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--insert-before <firewall-rule></code>	Insert the new rule before this existing rule (name or ID)
<code>--insert-after <firewall-rule></code>	Insert the new rule after this existing rule (name or ID) This command is provided by the python-neutronclient plugin.

35.5. FIREWALL GROUP POLICY CREATE

Usage:

```

openstack firewall group policy create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--description DESCRIPTION]
                                     [--audited | --no-audited]
                                     [--share | --public | --private | --no-share]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
                                     [--firewall-rule <firewall-rule> | --no-firewall-rule]
                                     <name>

```

Create a new firewall policy

Table 35.15. Positional Arguments

Value	Summary
None	None

Table 35.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Description of the firewall policy
--audited	Enable auditing for the policy
--no-audited	Disable auditing for the policy
--share	Share the firewall policy to be used in all projects (by default, it is restricted to be used by the current project).
--public	Make the firewall policy public, which allows it to be used in all projects (as opposed to the default, which is to restrict its use to the current project.) This option is deprecated and would be removed in R release.
--private	Restrict use of the firewall policy to the current project. This option is deprecated and would be removed in R release.

Value	Summary
<code>--no-share</code>	Restrict use of the firewall policy to the current project
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--firewall-rule <firewall-rule></code>	Firewall rule(s) to apply (name or id)
<code>--no-firewall-rule</code>	Unset all firewall rules from firewall policy

Table 35.17. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 35.18. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 35.19. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 35.20. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.6. FIREWALL GROUP POLICY DELETE

Usage:

```
openstack firewall group policy delete [-h]
                                     <firewall-policy>
                                     [<firewall-policy> ...]
```

Delete firewall policy(s)

Table 35.21. Positional Arguments

Value	Summary
None	None

Table 35.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

35.7. FIREWALL GROUP POLICY LIST

Usage:

```
openstack firewall group policy list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--long]
```

List firewall policies

Table 35.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 35.24. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 35.25. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 35.26. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 35.27. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.8. FIREWALL GROUP POLICY REMOVE RULE

Usage:

```
openstack firewall group policy remove rule [-h]
                                         <firewall-policy>
                                         <firewall-rule>
```

Remove a rule from a given firewall policy

Table 35.28. Positional Arguments

Value	Summary
None	None

Table 35.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

35.9. FIREWALL GROUP POLICY SET

Usage:

```
openstack firewall group policy set [-h] [--description DESCRIPTION]
                                     [--audited | --no-audited]
                                     [--share | --public | --private | --no-share]
                                     [--name <name>]
                                     [--firewall-rule <firewall-rule>]
                                     [--no-firewall-rule]
                                     <firewall-policy>
```

Set firewall policy properties

Table 35.30. Positional Arguments

Value	Summary
None	None

Table 35.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Description of the firewall policy
--audited	Enable auditing for the policy
--no-audited	Disable auditing for the policy
--share	Share the firewall policy to be used in all projects (by default, it is restricted to be used by the current project).
--public	Make the firewall policy public, which allows it to be used in all projects (as opposed to the default, which is to restrict its use to the current project.) This option is deprecated and would be removed in R release.
--private	Restrict use of the firewall policy to the current project. This option is deprecated and would be removed in R release.
--no-share	Restrict use of the firewall policy to the current project
--name <name>	Name for the firewall policy
--firewall-rule <firewall-rule>	Firewall rule(s) to apply (name or id)
--no-firewall-rule	Remove all firewall rules from firewall policy This command is provided by the python-neutronclient plugin.

35.10. FIREWALL GROUP POLICY SHOW

Usage:

```

openstack firewall group policy show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <firewall-policy>

```

Display firewall policy details

Table 35.32. Positional Arguments

Value	Summary
None	None

Table 35.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 35.34. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 35.35. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 35.36. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 35.37. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-neutronclient</code> plugin.

35.11. FIREWALL GROUP POLICY UNSET

Usage:

```

openstack firewall group policy unset [-h]
                                     [--firewall-rule <firewall-rule> | --all-firewall-rule]
                                     [--audited] [--share] [--public]
                                     <firewall-policy>

```

Unset firewall policy properties

Table 35.38. Positional Arguments

Value	Summary
None	None

Table 35.39. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--firewall-rule <firewall-rule></code>	Remove firewall rule(s) from the firewall policy (name or ID)
<code>--all-firewall-rule</code>	Remove all firewall rules from the firewall policy
<code>--audited</code>	Disable auditing for the policy
<code>--share</code>	Restrict use of the firewall policy to the current project
<code>--public</code>	Restrict use of the firewall policy to the current project. This option is deprecated and would be removed in R release. This command is provided by the <code>python-neutronclient</code> plugin.

35.12. FIREWALL GROUP RULE CREATE

Usage:

```

openstack firewall group rule create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--name <name>]
                                     [--description <description>]
                                     [--protocol {tcp,udp,icmp,any}]
                                     [--action {allow,deny,reject}]
                                     [--ip-version <ip-version>]
                                     [--source-ip-address <source-ip-address> | --no-source-ip-address]
                                     [--destination-ip-address <destination-ip-address> | --no-destination-ip-
address]
                                     [--source-port <source-port> | --no-source-port]
                                     [--destination-port <destination-port> | --no-destination-port]
                                     [--public | --private | --share | --no-share]
                                     [--enable-rule | --disable-rule]
                                     [--source-firewall-group <source-firewall-group> | --no-source-firewall-
group]
                                     [--destination-firewall-group <destination-firewall-group> | --no-
destination-firewall-group]
                                     [--project <project>]
                                     [--project-domain <project-domain>]

```

Create a new firewall rule

Table 35.40. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the firewall rule
--description <description>	Description of the firewall rule
--protocol {tcp,udp,icmp,any}	Protocol for the firewall rule
--action {allow,deny,reject}	Action for the firewall rule
--ip-version <ip-version>	Set ip version 4 or 6 (default is 4)
--source-ip-address <source-ip-address>	Source ip address or subnet
--no-source-ip-address	Detach source ip address
--destination-ip-address <destination-ip-address>	Destination ip address or subnet

Value	Summary
--no-destination-ip-address	Detach destination ip address
--source-port <source-port>	Source port number or range(integer in [1, 65535] or range like 123:456)
--no-source-port	Detach source port number or range
--destination-port <destination-port>	Destination port number or range(integer in [1, 65535] or range like 123:456)
--no-destination-port	Detach destination port number or range
--public	Make the firewall policy public, which allows it to be used in all projects (as opposed to the default, which is to restrict its use to the current project). This option is deprecated and would be removed in R Release
--private	Restrict use of the firewall rule to the current project.This option is deprecated and would be removed in R release.
--share	Share the firewall rule to be used in all projects (by default, it is restricted to be used by the current project).
--no-share	Restrict use of the firewall rule to the current project
--enable-rule	Enable this rule (default is enabled)
--disable-rule	Disable this rule
--source-firewall-group <source-firewall-group>	Source firewall group (name or id)
--no-source-firewall-group	No associated destination firewall group
--destination-firewall-group <destination-firewall-group>	Destination firewall group (name or id)
--no-destination-firewall-group	No associated destination firewall group
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 35.41. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 35.42. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 35.43. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 35.44. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.13. FIREWALL GROUP RULE DELETE

Usage:

```
openstack firewall group rule delete [-h]
                                     <firewall-rule>
                                     [<firewall-rule> ...]
```

Delete firewall rule(s)

Table 35.45. Positional Arguments

Value	Summary
None	None

Table 35.46. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

35.14. FIREWALL GROUP RULE LIST

Usage:

```

openstack firewall group rule list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent] [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN] [--long]

```

List firewall rules that belong to a given tenant

Table 35.47. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 35.48. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 35.49. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 35.50. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 35.51. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.15. FIREWALL GROUP RULE SET

Usage:

```
openstack firewall group rule set [-h] [--name <name>]
                                [--description <description>]
                                [--protocol {tcp,udp,icmp,any}]
                                [--action {allow,deny,reject}]
                                [--ip-version <ip-version>]
                                [--source-ip-address <source-ip-address> | --no-source-ip-address]
                                [--destination-ip-address <destination-ip-address> | --no-destination-ip-
address]
                                [--source-port <source-port> | --no-source-port]
                                [--destination-port <destination-port> | --no-destination-port]
                                [--public | --private | --share | --no-share]
                                [--enable-rule | --disable-rule]
                                [--source-firewall-group <source-firewall-group> | --no-source-firewall-
group]
                                [--destination-firewall-group <destination-firewall-group> | --no-destination-
firewall-group]
                                <firewall-rule>
```

Set firewall rule properties

Table 35.52. Positional Arguments

Value	Summary
None	None

Table 35.53. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the firewall rule
--description <description>	Description of the firewall rule
--protocol {tcp,udp,icmp,any}	Protocol for the firewall rule
--action {allow,deny,reject}	Action for the firewall rule
--ip-version <ip-version>	Set ip version 4 or 6 (default is 4)
--source-ip-address <source-ip-address>	Source ip address or subnet
--no-source-ip-address	Detach source ip address
--destination-ip-address <destination-ip-address>	Destination ip address or subnet
--no-destination-ip-address	Detach destination ip address
--source-port <source-port>	Source port number or range(integer in [1, 65535] or range like 123:456)
--no-source-port	Detach source port number or range
--destination-port <destination-port>	Destination port number or range(integer in [1, 65535] or range like 123:456)
--no-destination-port	Detach destination port number or range
--public	Make the firewall policy public, which allows it to be used in all projects (as opposed to the default, which is to restrict its use to the current project). This option is deprecated and would be removed in R Release

Value	Summary
--private	Restrict use of the firewall rule to the current project. This option is deprecated and would be removed in R release.
--share	Share the firewall rule to be used in all projects (by default, it is restricted to be used by the current project).
--no-share	Restrict use of the firewall rule to the current project
--enable-rule	Enable this rule (default is enabled)
--disable-rule	Disable this rule
--source-firewall-group <source-firewall-group>	Source firewall group (name or id)
--no-source-firewall-group	No associated destination firewall group
--destination-firewall-group <destination-firewall-group>	Destination firewall group (name or id)
--no-destination-firewall-group	No associated destination firewall group This command is provided by the python-neutronclient plugin.

35.16. FIREWALL GROUP RULE SHOW

Usage:

```

openstack firewall group rule show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   <firewall-rule>

```

Display firewall rule details

Table 35.54. Positional Arguments

Value	Summary
None	None

Table 35.55. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 35.56. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 35.57. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 35.58. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 35.59. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.17. FIREWALL GROUP RULE UNSET

Usage:

```
openstack firewall group rule unset [-h] [--source-ip-address]
```



```

openstack firewall group set [-h] [--name NAME]
                             [--description <description>]
                             [--ingress-firewall-policy <ingress-firewall-policy> | --no-ingress-firewall-policy]
                             [--egress-firewall-policy <egress-firewall-policy> | --no-egress-firewall-policy]
                             [--public | --private | --share | --no-share]
                             [--enable | --disable] [--port <port>]
                             [--no-port]
                             <firewall-group>

```

Set firewall group properties

Table 35.62. Positional Arguments

Value	Summary
None	None

Table 35.63. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Name for the firewall group
--description <description>	Description of the firewall group
--ingress-firewall-policy <ingress-firewall-policy>	Ingress firewall policy (name or id)
--no-ingress-firewall-policy	Detach ingress firewall policy from the firewall group
--egress-firewall-policy <egress-firewall-policy>	Egress firewall policy (name or id)
--no-egress-firewall-policy	Detach egress firewall policy from the firewall group
--public	Make the firewall group public, which allows it to be used in all projects (as opposed to the default, which is to restrict its use to the current project). This option is deprecated and would be removed in R release.
--private	Restrict use of the firewall group to the current project. This option is deprecated and would be removed in R release.
--share	Share the firewall group to be used in all projects (by default, it is restricted to be used by the current project).

Value	Summary
--no-share	Restrict use of the firewall group to the current project
--enable	Enable firewall group
--disable	Disable firewall group
--port <port>	Port(s) (name or id) to apply firewall group. this option can be repeated
--no-port	Detach all port from the firewall group This command is provided by the python-neutronclient plugin.

35.19. FIREWALL GROUP SHOW

Usage:

```
openstack firewall group show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             <firewall-group>
```

Display firewall group details

Table 35.64. Positional Arguments

Value	Summary
None	None

Table 35.65. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 35.66. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 35.67. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 35.68. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 35.69. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

35.20. FIREWALL GROUP UNSET

Usage:

```

openstack firewall group unset [-h] [--port <port> | --all-port]
                                [--ingress-firewall-policy]
                                [--egress-firewall-policy]
                                [--public | --share] [--enable]
                                <firewall-group>

```

Unset firewall group properties

Table 35.70. Positional Arguments

Value	Summary
None	None

Table 35.71. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--port <port>	Port(s) (name or id) to apply firewall group. this option can be repeated
--all-port	Remove all ports for this firewall group
--ingress-firewall-policy	Ingress firewall policy (name or id) to delete
--egress-firewall-policy	Egress firewall policy (name or id) to delete
--public	Make the firewall group public, which allows it to be used in all projects (as opposed to the default, which is to restrict its use to the current project). This option is deprecated and would be removed in R release.
--share	Restrict use of the firewall group to the current project
--enable	Disable firewall group This command is provided by the python-neutronclient plugin.

CHAPTER 36. FLAVOR

This chapter describes the commands under the **flavor** command.

36.1. FLAVOR CREATE

Usage:

```
openstack flavor create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--id <id>] [--ram <size-mb>]
                        [--disk <size-gb>] [--ephemeral <size-gb>]
                        [--swap <size-mb>] [--vcpus <vcpus>]
                        [--rxtx-factor <factor>] [--public | --private]
                        [--property <key=value>] [--project <project>]
                        [--description <description>]
                        [--project-domain <project-domain>]
                        <flavor-name>
```

Create new flavor

Table 36.1. Positional Arguments

Value	Summary
None	None

Table 36.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--id <id>	Unique flavor id; <i>auto</i> creates a uuid (default: auto)
--ram <size-mb>	Memory size in mb (default 256m)
--disk <size-gb>	Disk size in gb (default 0g)
--ephemeral <size-gb>	Ephemeral disk size in gb (default 0g)
--swap <size-mb>	Additional swap space size in mb (default 0m)
--vcpus <vcpus>	Number of vcpus (default 1)
--rxtx-factor <factor>	Rx/tx factor (default 1.0)
--public	Flavor is available to other projects (default)

Value	Summary
--private	Flavor is not available to other projects
--property <key=value>	Property to add for this flavor (repeat option to set multiple properties)
--project <project>	Allow <project> to access private flavor (name or id) (Must be used with --private option)
--description <description>	Description for the flavor.(supported by api versions 2.55 - 2.latest)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 36.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 36.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 36.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 36.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

36.2. FLAVOR DELETE

Usage:

```
openstack flavor delete [-h] <flavor> [<flavor> ...]
```

Delete flavor(s)

Table 36.7. Positional Arguments

Value	Summary
None	None

Table 36.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

36.3. FLAVOR LIST

Usage:

```
openstack flavor list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--public | --private | --all] [--long]
                        [--marker <flavor-id>] [--limit <num-flavors>]
```

List flavors

Table 36.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--public	List only public flavors (default)
--private	List only private flavors
--all	List all flavors, whether public or private
--long	List additional fields in output
--marker <flavor-id>	The last flavor id of the previous page
--limit <num-flavors>	Maximum number of flavors to display

Table 36.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 36.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 36.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 36.13. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

36.4. FLAVOR SET

Usage:

```

openstack flavor set [-h] [--no-property] [--property <key=value>]
                    [--project <project>]
                    [--description <description>]
                    [--project-domain <project-domain>]
                    <flavor>

```

Set flavor properties

Table 36.14. Positional Arguments

Value	Summary
None	None

Table 36.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--no-property</code>	Remove all properties from this flavor (specify both
<code>--no-property</code> and <code>--property</code> to remove the current	Properties before setting new properties.)
<code>--property <key=value></code>	Property to add or modify for this flavor (repeat option to set multiple properties)
<code>--project <project></code>	Set flavor access to project (name or id) (admin only)

Value	Summary
--description <description>	Set description for the flavor.(supported by api versions 2.55 - 2.latest
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

36.5. FLAVOR SHOW

Usage:

```
openstack flavor show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <flavor>
```

Display flavor details

Table 36.16. Positional Arguments

Value	Summary
None	None

Table 36.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 36.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 36.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 36.20. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 36.21. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

36.6. FLAVOR UNSET

Usage:

```

openstack flavor unset [-h] [--property <key>] [--project <project>]
                        [--project-domain <project-domain>]
                        <flavor>

```

Unset flavor properties

Table 36.22. Positional Arguments

Value	Summary
None	None

Table 36.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--property <key>	Property to remove from flavor (repeat option to unset multiple properties)
--project <project>	Remove flavor access from project (name or id) (admin only)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

CHAPTER 37. FLOATING

This chapter describes the commands under the **floating** command.

37.1. FLOATING IP CREATE

Usage:

```
openstack floating ip create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--subnet <subnet>]
                             [--port <port>]
                             [--floating-ip-address <ip-address>]
                             [--fixed-ip-address <ip-address>]
                             [--qos-policy <qos-policy>]
                             [--description <description>]
                             [--project <project>]
                             [--dns-domain <dns-domain>]
                             [--dns-name <dns-name>]
                             [--project-domain <project-domain>]
                             [--tag <tag> | --no-tag]
                             <network>
```

Create floating IP

Table 37.1. Positional Arguments

Value	Summary
None	None

Table 37.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--subnet <subnet>	Subnet on which you want to create the floating ip (name or ID)
--port <port>	Port to be associated with the floating ip (name or ID)
--floating-ip-address <ip-address>	Floating ip address
--fixed-ip-address <ip-address>	Fixed ip address mapped to the floating ip
--qos-policy <qos-policy>	Attach qos policy to the floating ip (name or id)

Value	Summary
--description <description>	Set floating ip description
--project <project>	Owner's project (name or id)
--dns-domain <dns-domain>	Set dns domain for this floating ip
--dns-name <dns-name>	Set dns name for this floating ip
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--tag <tag>	Tag to be added to the floating ip (repeat option to set multiple tags)
--no-tag	No tags associated with the floating ip

Table 37.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 37.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 37.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 37.6. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

37.2. FLOATING IP DELETE

Usage:

```
openstack floating ip delete [-h] <floating-ip> [<floating-ip> ...]
```

Delete floating IP(s)

Table 37.7. Positional Arguments

Value	Summary
None	None

Table 37.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

37.3. FLOATING IP LIST

Usage:

```
openstack floating ip list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--network <network>] [--port <port>]
                             [--fixed-ip-address <ip-address>]
                             [--floating-ip-address <ip-address>]
                             [--long] [--status <status>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--router <router>]
```



```

[--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

List floating IP(s)

Table 37.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--network <network>	List floating ip(s) according to given network (name or ID)
--port <port>	List floating ip(s) according to given port (name or ID)
--fixed-ip-address <ip-address>	List floating ip(s) according to given fixed ip address
--floating-ip-address <ip-address>	List floating ip(s) according to given floating ip address
--long	List additional fields in output
--status <status>	List floating ip(s) according to given status (<i>ACTIVE</i> , <i>DOWN</i>)
--project <project>	List floating ip(s) according to given project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--router <router>	List floating ip(s) according to given router (name or ID)
--tags <tag>[,<tag>,...]	List floating ip which have all given tag(s) (comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List floating ip which have any given tag(s) (comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude floating ip which have all given tag(s) (Comma-separated list of tags)
--not-any-tags <tag>[,<tag>,...]	Exclude floating ip which have any given tag(s) (Comma-separated list of tags)

Table 37.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 37.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 37.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 37.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

37.4. FLOATING IP POOL LIST

Usage:

```
openstack floating ip pool list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
```

```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]

```

List pools of floating IP addresses

Table 37.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 37.15. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 37.16. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 37.17. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 37.18. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

37.5. FLOATING IP PORT FORWARDING CREATE

Usage:

```
openstack floating ip port forwarding create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         --internal-ip-address
                                         <internal-ip-address>
                                         --port <port>
                                         --internal-protocol-port
                                         <port-number>
                                         --external-protocol-port
                                         <port-number> --protocol
                                         <protocol>
                                         <floating-ip>
```

Create floating IP port forwarding

Table 37.19. Positional Arguments

Value	Summary
None	None

Table 37.20. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--internal-ip-address <internal-ip-address>	The fixed ipv4 address of the network port associated to the floating IP port forwarding
--port <port>	The name or id of the network port associated to the floating IP port forwarding
--internal-protocol-port <port-number>	The protocol port number of the network port fixed IPv4 address associated to the floating IP port forwarding

Value	Summary
<code>--external-protocol-port <port-number></code>	The protocol port number of the port forwarding's floating IP address
<code>--protocol <protocol></code>	The protocol used in the floating ip port forwarding, for instance: TCP, UDP

Table 37.21. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 37.22. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 37.23. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 37.24. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

37.6. FLOATING IP PORT FORWARDING DELETE

Usage:

```
openstack floating ip port forwarding delete [-h]
                                         <floating-ip>
                                         <port-forwarding-id>
                                         [<port-forwarding-id> ...]
```

Delete floating IP port forwarding

Table 37.25. Positional Arguments

Value	Summary
None	None

Table 37.26. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

37.7. FLOATING IP PORT FORWARDING LIST

Usage:

```
openstack floating ip port forwarding list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--port <port>]
                                         [--external-protocol-port <port-number>]
                                         [--protocol protocol]
                                         <floating-ip>
```

List floating IP port forwarding

Table 37.27. Positional Arguments

Value	Summary
None	None

Table 37.28. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--port <port></code>	Filter the list result by the id or name of the internal network port
<code>--external-protocol-port <port-number></code>	Filter the list result by the protocol port number of the floating IP
<code>--protocol protocol</code>	Filter the list result by the port protocol

Table 37.29. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 37.30. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 37.31. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 37.32. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

37.8. FLOATING IP PORT FORWARDING SET

Usage:

```

openstack floating ip port forwarding set [-h] [--port <port>]
                                         [--internal-ip-address <internal-ip-address>]
                                         [--internal-protocol-port <port-number>]
                                         [--external-protocol-port <port-number>]
                                         [--protocol <protocol>]
                                         <floating-ip>
                                         <port-forwarding-id>

```

Set floating IP Port Forwarding Properties

Table 37.33. Positional Arguments

Value	Summary
None	None

Table 37.34. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--port <port>	The id of the network port associated to the floating IP port forwarding
--internal-ip-address <internal-ip-address>	The fixed ipv4 address of the network port associated to the floating IP port forwarding
--internal-protocol-port <port-number>	The tcp/udp/other protocol port number of the network port fixed IPv4 address associated to the floating IP port forwarding
--external-protocol-port <port-number>	The tcp/udp/other protocol port number of the port forwarding's floating IP address

Value	Summary
--protocol <protocol>	The ip protocol used in the floating ip port forwarding

37.9. FLOATING IP PORT FORWARDING SHOW

Usage:

```

openstack floating ip port forwarding show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         <floating-ip>
                                         <port-forwarding-id>

```

Display floating IP Port Forwarding details

Table 37.35. Positional Arguments

Value	Summary
None	None

Table 37.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 37.37. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 37.38. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 37.39. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 37.40. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

37.10. FLOATING IP SET

Usage:

```

openstack floating ip set [-h] [--port <port>]
                        [--fixed-ip-address <ip-address>]
                        [--qos-policy <qos-policy> | --no-qos-policy]
                        [--tag <tag>] [--no-tag]
                        <floating-ip>

```

Set floating IP Properties

Table 37.41. Positional Arguments

Value	Summary
None	None

Table 37.42. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--port <port>	Associate the floating ip with port (name or id)
--fixed-ip-address <ip-address>	Fixed ip of the port (required only if port has multiple IPs)

Value	Summary
<code>--qos-policy <qos-policy></code>	Attach qos policy to the floating ip (name or id)
<code>--no-qos-policy</code>	Remove the qos policy attached to the floating ip
<code>--tag <tag></code>	Tag to be added to the floating ip (repeat option to set multiple tags)
<code>--no-tag</code>	Clear tags associated with the floating ip. specify both <code>--tag</code> and <code>--no-tag</code> to overwrite current tags

37.11. FLOATING IP SHOW

Usage:

```
openstack floating ip show [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty]
                           <floating-ip>
```

Display floating IP details

Table 37.43. Positional Arguments

Value	Summary
None	None

Table 37.44. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 37.45. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 37.46. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 37.47. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 37.48. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

37.12. FLOATING IP UNSET

Usage:

```
openstack floating ip unset [-h] [--port] [--qos-policy]
                             [--tag <tag> | --all-tag]
                             <floating-ip>
```

Unset floating IP Properties

Table 37.49. Positional Arguments

Value	Summary
None	None

Table 37.50. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--port	Disassociate any port associated with the floating ip
--qos-policy	Remove the qos policy attached to the floating ip
--tag <tag>	Tag to be removed from the floating ip (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the floating ip

CHAPTER 38. GROUP

This chapter describes the commands under the **group** command.

38.1. GROUP ADD USER

Usage:

```
openstack group add user [-h] [--group-domain <group-domain>]
                        [--user-domain <user-domain>]
                        <group> <user> [<user> ...]
```

Add user to group

Table 38.1. Positional Arguments

Value	Summary
None	None

Table 38.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

38.2. GROUP CONTAINS USER

Usage:

```
openstack group contains user [-h] [--group-domain <group-domain>]
                             [--user-domain <user-domain>]
                             <group> <user>
```

Check user membership in group

Table 38.3. Positional Arguments

Value	Summary
None	None

Table 38.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

38.3. GROUP CREATE

Usage:

```

openstack group create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--domain <domain>]
                        [--description <description>] [--or-show]
                        <group-name>

```

Create new group

Table 38.5. Positional Arguments

Value	Summary
None	None

Table 38.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain to contain new group (name or id)
--description <description>	New group description
--or-show	Return existing group

Table 38.7. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 38.8. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 38.9. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 38.10. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

38.4. GROUP DELETE

Usage:

```
openstack group delete [-h] [--domain <domain>] <group> [<group> ...]
```

Delete group(s)

Table 38.11. Positional Arguments

Value	Summary
None	None

Table 38.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain containing group(s) (name or id)

38.5. GROUP LIST

Usage:

```

openstack group list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--domain <domain>] [--user <user>]
                    [--user-domain <user-domain>] [--long]

```

List groups

Table 38.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Filter group list by <domain> (name or id)
--user <user>	Filter group list by <user> (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--long	List additional fields in output

Table 38.14. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 38.15. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 38.16. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 38.17. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

38.6. GROUP REMOVE USER

Usage:

```

openstack group remove user [-h] [--group-domain <group-domain>]
                             [--user-domain <user-domain>]
                             <group> <user> [<user> ...]

```

Remove user from group

Table 38.18. Positional Arguments

Value	Summary
None	None

Table 38.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

38.7. GROUP SET

Usage:

```
openstack group set [-h] [--domain <domain>] [--name <name>]
                    [--description <description>]
                    <group>
```

Set group properties

Table 38.20. Positional Arguments

Value	Summary
None	None

Table 38.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain containing <group> (name or id)
--name <name>	New group name
--description <description>	New group description

38.8. GROUP SHOW

Usage:

```
openstack group show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    <group>
```

Display group details

Table 38.22. Positional Arguments

Value	Summary
None	None

Table 38.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain containing <group> (name or id)

Table 38.24. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 38.25. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 38.26. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 38.27. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 39. HELP.ADOC

This chapter describes the commands under the **help.adoc** command.

39.1. HELP

Usage:

```
openstack help [-h] [cmd [cmd ...]]
```

print detailed help for another command

Table 39.1. Positional Arguments

Value	Summary
None	None

Table 39.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the cliff plugin.

CHAPTER 40. HOST

This chapter describes the commands under the **host** command.

40.1. HOST LIST

Usage:

```
openstack host list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--zone <zone>]
```

List hosts

Table 40.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--zone <zone>	Only return hosts in the availability zone

Table 40.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 40.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 40.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 40.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

40.2. HOST SET

Usage:

```
openstack host set [-h] [--enable | --disable]
                  [--enable-maintenance | --disable-maintenance]
                  <host>
```

Set host properties

Table 40.6. Positional Arguments

Value	Summary
None	None

Table 40.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--enable	Enable the host
--disable	Disable the host
--enable-maintenance	Enable maintenance mode for the host
--disable-maintenance	Disable maintenance mode for the host

40.3. HOST SHOW

Usage:


```

openstack host show [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    <host>

```

Display host details

Table 40.8. Positional Arguments

Value	Summary
None	None

Table 40.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 40.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 40.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 40.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 40.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 41. HYPERVISOR

This chapter describes the commands under the **hypervisor** command.

41.1. HYPERVISOR LIST

Usage:

```
openstack hypervisor list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--matching <hostname>] [--long]
```

List hypervisors

Table 41.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--matching <hostname>	Filter hypervisors using <hostname> substring
--long	List additional fields in output

Table 41.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 41.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 41.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 41.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

41.2. HYPERVISOR SHOW

Usage:

```

openstack hypervisor show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <hypervisor>

```

Display hypervisor details

Table 41.6. Positional Arguments

Value	Summary
None	None

Table 41.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 41.8. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 41.9. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 41.10. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 41.11. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

41.3. HYPERVISOR STATS SHOW

Usage:

```
openstack hypervisor stats show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
```

Display hypervisor stats details

Table 41.12. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 41.13. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 41.14. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 41.15. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 41.16. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 42. IDENTITY

This chapter describes the commands under the **identity** command.

42.1. IDENTITY PROVIDER CREATE

Usage:

```
openstack identity provider create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--remote-id <remote-id> | --remote-id-file <file-name>]
                                [--description <description>]
                                [--domain <domain>]
                                [--enable | --disable]
                                <name>
```

Create new identity provider

Table 42.1. Positional Arguments

Value	Summary
None	None

Table 42.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--remote-id <remote-id>	Remote ids to associate with the identity provider (repeat option to provide multiple values)
--remote-id-file <file-name>	Name of a file that contains many remote ids to associate with the identity provider, one per line
--description <description>	New identity provider description
--domain <domain>	Domain to associate with the identity provider. if not specified, a domain will be created automatically. (Name or ID)
--enable	Enable identity provider (default)
--disable	Disable the identity provider

Table 42.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 42.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 42.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 42.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

42.2. IDENTITY PROVIDER DELETE

Usage:

```
openstack identity provider delete [-h]
                                <identity-provider>
                                [<identity-provider> ...]
```

Delete identity provider(s)

Table 42.7. Positional Arguments

Value	Summary
None	None

Table 42.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

42.3. IDENTITY PROVIDER LIST

Usage:

```

openstack identity provider list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]

```

List identity providers

Table 42.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 42.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 42.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 42.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 42.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

42.4. IDENTITY PROVIDER SET

Usage:

```

openstack identity provider set [-h] [--description <description>]
                                [--remote-id <remote-id> | --remote-id-file <file-name>]
                                [--enable | --disable]
                                <identity-provider>

```

Set identity provider properties

Table 42.14. Positional Arguments

Value	Summary
None	None

Table 42.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Set identity provider description
<code>--remote-id <remote-id></code>	Remote ids to associate with the identity provider (repeat option to provide multiple values)

Value	Summary
--remote-id-file <file-name>	Name of a file that contains many remote ids to associate with the identity provider, one per line
--enable	Enable the identity provider
--disable	Disable the identity provider

42.5. IDENTITY PROVIDER SHOW

Usage:

```

openstack identity provider show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <identity-provider>

```

Display identity provider details

Table 42.16. Positional Arguments

Value	Summary
None	None

Table 42.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 42.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 42.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 42.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 42.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 43. IMAGE

This chapter describes the commands under the **image** command.

43.1. IMAGE ADD PROJECT

Usage:

```
openstack image add project [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--project-domain <project-domain>]
                             <image> <project>
```

Associate project with image

Table 43.1. Positional Arguments

Value	Summary
None	None

Table 43.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 43.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 43.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 43.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 43.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

43.2. IMAGE CREATE

Usage:

```

openstack image create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--id <id>]
                        [--container-format <container-format>]
                        [--disk-format <disk-format>]
                        [--min-disk <disk-gb>] [--min-ram <ram-mb>]
                        [--file <file> | --volume <volume>] [--force]
                        [--sign-key-path <sign-key-path>]
                        [--sign-cert-id <sign-cert-id>]
                        [--protected | --unprotected]
                        [--public | --private | --community | --shared]
                        [--property <key=value>] [--tag <tag>]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        <image-name>

```

Create/upload an image

Table 43.7. Positional Arguments

Value	Summary
None	None

Table 43.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--id <id>	Image id to reserve
--container-format <container-format>	Image container format. the supported options are: ami, ari, aki, bare, docker, ova, ovf. The default format is: bare
--disk-format <disk-format>	Image disk format. the supported options are: ami, ari, aki, vhd, vmdk, raw, qcow2, vhdx, vdi, iso, ploop. The default format is: raw
--min-disk <disk-gb>	Minimum disk size needed to boot image, in gigabytes
--min-ram <ram-mb>	Minimum ram size needed to boot image, in megabytes
--file <file>	Upload image from local file
--volume <volume>	Create image from a volume
--force	Force image creation if volume is in use (only meaningful with --volume)
--sign-key-path <sign-key-path>	Sign the image using the specified private key. only use in combination with --sign-cert-id
--sign-cert-id <sign-cert-id>	The specified certificate uuid is a reference to the certificate in the key manager that corresponds to the public key and is used for signature validation. Only use in combination with --sign-key-path
--protected	Prevent image from being deleted
--unprotected	Allow image to be deleted (default)
--public	Image is accessible to the public
--private	Image is inaccessible to the public (default)
--community	Image is accessible to the community
--shared	Image can be shared

Value	Summary
<code>--property <key=value></code>	Set a property on this image (repeat option to set multiple properties)
<code>--tag <tag></code>	Set a tag on this image (repeat option to set multiple tags)
<code>--project <project></code>	Set an alternate project on this image (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 43.9. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 43.10. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 43.11. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 43.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

43.3. IMAGE DELETE

Usage:

```
openstack image delete [-h] <image> [<image> ...]
```

Delete image(s)

Table 43.13. Positional Arguments

Value	Summary
None	None

Table 43.14. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

43.4. IMAGE LIST

Usage:

```
openstack image list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>] [--fit-width]
                        [--print-empty] [--sort-column SORT_COLUMN]
                        [--public | --private | --community | --shared]
                        [--property <key=value>] [--name <name>]
                        [--status <status>]
                        [--member-status <member-status>] [--tag <tag>]
                        [--long] [--sort <key>[:<direction>]]
                        [--limit <num-images>] [--marker <image>]
```

List available images

Table 43.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
--public	List only public images
--private	List only private images
--community	List only community images
--shared	List only shared images
--property <key=value>	Filter output based on property (repeat option to filter on multiple properties)
--name <name>	Filter images based on name.
--status <status>	Filter images based on status.
--member-status <member-status>	Filter images based on member status. the supported options are: accepted, pending, rejected, all.
--tag <tag>	Filter images based on tag.
--long	List additional fields in output
--sort <key>[:<direction>]	Sort output by selected keys and directions(asc or desc) (default: name:asc), multiple keys and directions can be specified separated by comma
--limit <num-images>	Maximum number of images to display.
--marker <image>	The last image of the previous page. display list of images after marker. Display all images if not specified. (name or ID)

Table 43.16. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 43.17. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 43.18. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 43.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

43.5. IMAGE MEMBER LIST

Usage:

```

openstack image member list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--project-domain <project-domain>]
                             <image>

```

List projects associated with image

Table 43.20. Positional Arguments

Value	Summary
None	None

Table 43.21. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 43.22. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 43.23. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 43.24. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 43.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

43.6. IMAGE REMOVE PROJECT

Usage:

```
openstack image remove project [-h] [--project-domain <project-domain>]
                               <image> <project>
```

Disassociate project with image

Table 43.26. Positional Arguments

Value	Summary
None	None

Table 43.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

43.7. IMAGE SAVE

Usage:

```
openstack image save [-h] [--file <filename>] <image>
```

Save an image locally

Table 43.28. Positional Arguments

Value	Summary
None	None

Table 43.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--file <filename>	Downloaded image save filename (default: stdout)

43.8. IMAGE SET

Usage:

```
openstack image set [-h] [--name <name>] [--min-disk <disk-gb>]
                    [--min-ram <ram-mb>]
                    [--container-format <container-format>]
                    [--disk-format <disk-format>]
                    [--protected | --unprotected]
                    [--public | --private | --community | --shared]
                    [--property <key=value>] [--tag <tag>]
                    [--architecture <architecture>]
                    [--instance-id <instance-id>]
                    [--kernel-id <kernel-id>] [--os-distro <os-distro>]
                    [--os-version <os-version>]
                    [--ramdisk-id <ramdisk-id>]
                    [--deactivate | --activate] [--project <project>]
                    [--project-domain <project-domain>]
                    [--accept | --reject | --pending]
                    <image>
```

Set image properties

Table 43.30. Positional Arguments

Value	Summary
None	None

Table 43.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New image name
--min-disk <disk-gb>	Minimum disk size needed to boot image, in gigabytes
--min-ram <ram-mb>	Minimum ram size needed to boot image, in megabytes
--container-format <container-format>	Image container format. the supported options are: ami, ari, aki, bare, docker, ova, ovf
--disk-format <disk-format>	Image disk format. the supported options are: ami, ari, aki, vhd, vmdk, raw, qcow2, vhdx, vdi, iso, ploop
--protected	Prevent image from being deleted

Value	Summary
--unprotected	Allow image to be deleted (default)
--public	Image is accessible to the public
--private	Image is inaccessible to the public (default)
--community	Image is accessible to the community
--shared	Image can be shared
--property <key=value>	Set a property on this image (repeat option to set multiple properties)
--tag <tag>	Set a tag on this image (repeat option to set multiple tags)
--architecture <architecture>	Operating system architecture
--instance-id <instance-id>	Id of server instance used to create this image
--kernel-id <kernel-id>	Id of kernel image used to boot this disk image
--os-distro <os-distro>	Operating system distribution name
--os-version <os-version>	Operating system distribution version
--ramdisk-id <ramdisk-id>	Id of ramdisk image used to boot this disk image
--deactivate	Deactivate the image
--activate	Activate the image
--project <project>	Set an alternate project on this image (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--accept	Accept the image membership
--reject	Reject the image membership
--pending	Reset the image membership to <i>pending</i>

43.9. IMAGE SHOW

Usage:

```
openstack image show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--human-readable]
                    <image>
```

Display image details

Table 43.32. Positional Arguments

Value	Summary
None	None

Table 43.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--human-readable	Print image size in a human-friendly format.

Table 43.34. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 43.35. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 43.36. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 43.37. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

43.10. IMAGE UNSET

Usage:

```
openstack image unset [-h] [--tag <tag>] [--property <property-key>]
                        <image>
```

Unset image tags and properties

Table 43.38. Positional Arguments

Value	Summary
None	None

Table 43.39. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--tag <tag></code>	Unset a tag on this image (repeat option to unset multiple tags)
<code>--property <property-key></code>	Unset a property on this image (repeat option to unset multiple properties)

CHAPTER 44. IMPLIED

This chapter describes the commands under the **implied** command.

44.1. IMPLIED ROLE CREATE

Usage:

```
openstack implied role create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             --implied-role <role>
                             <role>
```

Creates an association between prior and implied roles

Table 44.1. Positional Arguments

Value	Summary
None	None

Table 44.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--implied-role <role>	<role> (name or id) implied by another role

Table 44.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 44.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 44.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 44.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

44.2. IMPLIED ROLE DELETE

Usage:

```
openstack implied role delete [-h] --implied-role <role> <role>
```

Deletes an association between prior and implied roles

Table 44.7. Positional Arguments

Value	Summary
None	None

Table 44.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--implied-role <role></code>	<code><role></code> (name or id) implied by another role

44.3. IMPLIED ROLE LIST

Usage:

```
openstack implied role list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]

List implied roles

Table 44.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 44.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 44.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 44.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 44.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

CHAPTER 45. IP

This chapter describes the commands under the **ip** command.

45.1. IP AVAILABILITY LIST

Usage:

```
openstack ip availability list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--ip-version <ip-version>]
                               [--project <project>]
                               [--project-domain <project-domain>]
```

List IP availability for network

Table 45.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--ip-version <ip-version>	List ip availability of given ip version networks (default is 4)
--project <project>	List ip availability of given project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 45.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 45.3. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 45.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 45.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

45.2. IP AVAILABILITY SHOW

Usage:

```
openstack ip availability show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <network>
```

Show network IP availability details

Table 45.6. Positional Arguments

Value	Summary
None	None

Table 45.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 45.8. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 45.9. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 45.10. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 45.11. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 46. KEYPAIR

This chapter describes the commands under the **keypair** command.

46.1. KEYPAIR CREATE

Usage:

```
openstack keypair create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        [--public-key <file> | --private-key <file>]
                        <name>
```

Create new public or private key for server ssh access

Table 46.1. Positional Arguments

Value	Summary
None	None

Table 46.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--public-key <file>	Filename for public key to add. if not used, creates a private key.
--private-key <file>	Filename for private key to save. if not used, print private key in console.

Table 46.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 46.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 46.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 46.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

46.2. KEYPAIR DELETE

Usage:

```
openstack keypair delete [-h] <key> [<key> ...]
```

Delete public or private key(s)

Table 46.7. Positional Arguments

Value	Summary
None	None

Table 46.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

46.3. KEYPAIR LIST

Usage:

```

openstack keypair list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]

```

List key fingerprints

Table 46.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 46.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 46.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 46.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 46.13. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

46.4. KEYPAIR SHOW

Usage:

```
openstack keypair show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--public-key]
                        <key>
```

Display key details

Table 46.14. Positional Arguments

Value	Summary
None	None

Table 46.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--public-key</code>	Show only bare public key paired with the generated key

Table 46.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 46.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 46.18. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 46.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 47. L2GW

This chapter describes the commands under the **l2gw** command.

47.1. L2GW CONNECTION CREATE

Usage:

```
openstack l2gw connection create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--default-segmentation-id SEG_ID]
                                <GATEWAY-NAME/UUID>
                                <NETWORK-NAME/UUID>
```

Create l2gateway-connection

Table 47.1. Positional Arguments

Value	Summary
None	None

Table 47.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--default-segmentation-id SEG_ID	Default segmentation-id that will be applied to the interfaces for which segmentation id was not specified in l2-gateway-create command.

Table 47.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the networking-l2gw plugin.

47.2. L2GW CONNECTION DELETE

Usage:

```
openstack l2gw connection delete [-h]
                                <L2_GATEWAY_CONNECTIONS>
                                [<L2_GATEWAY_CONNECTIONS> ...]
```

Delete a given l2gateway-connection

Table 47.7. Positional Arguments

Value	Summary
None	None

Table 47.8. Optional Arguments

Value	Summary

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the networking-l2gw plugin.

47.3. L2GW CONNECTION LIST

Usage:

```

openstack l2gw connection list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--project <project>]
                                [--project-domain <project-domain>]

```

List l2gateway-connections

Table 47.9. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 47.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 47.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the networking-l2gw plugin.

47.4. L2GW CONNECTION SHOW

Usage:

```
openstack l2gw connection show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <L2_GATEWAY_CONNECTION>
```

Show information of a given l2gateway-connection

Table 47.14. Positional Arguments

Value	Summary
None	None

Table 47.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 47.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.18. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the networking-l2gw plugin.

47.5. L2GW CREATE

Usage:

```
openstack l2gw create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
```

```

[--max-width <integer>] [--fit-width]
[--print-empty] [--project <project>]
[--project-domain <project-domain>]
[--device name=name,interface_names=INTERFACE-DETAILS]
<GATEWAY-NAME>

```

Create l2gateway resource

Table 47.20. Positional Arguments

Value	Summary
None	None

Table 47.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--device name=name,interface_names=INTERFACE-DETAILS	Device name and interface-names of l2gateway. INTERFACE-DETAILS is of form "<interface_name1> [<interface_name2>"]

Table 47.22. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.23. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.24. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the networking-l2gw plugin.

47.6. L2GW DELETE

Usage:

```
openstack l2gw delete [-h] <L2_GATEWAY> [<L2_GATEWAY> ...]
```

Delete a given l2gateway

Table 47.26. Positional Arguments

Value	Summary
None	None

Table 47.27. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the networking-l2gw plugin.

47.7. L2GW LIST

Usage:

```
openstack l2gw list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
```

```

[--print-empty] [--sort-column SORT_COLUMN]
[--project <project>]
[--project-domain <project-domain>]

```

List l2gateway that belongs to a given tenant

Table 47.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 47.29. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.30. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.31. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.32. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the networking-l2gw plugin.

47.8. L2GW SHOW

Usage:

```
openstack l2gw show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <L2_GATEWAY>
```

Show information of a given l2gateway

Table 47.33. Positional Arguments

Value	Summary
None	None

Table 47.34. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 47.35. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.36. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.37. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.38. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the networking-l2gw plugin.

47.9. L2GW UPDATE

Usage:

```
openstack l2gw update [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--name name]
                    [--device name=name,interface_names=INTERFACE-DETAILS]
                    <L2_GATEWAY>
```

Update a given l2gateway

Table 47.39. Positional Arguments

Value	Summary
None	None

Table 47.40. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name name</code>	Descriptive name for logical gateway.
<code>--device name=name,interface_names=INTERFACE-DETAILS</code>	Device name and interface-names of l2gateway. INTERFACE-DETAILS is of form "<interface_name1> [<interface_name2>"]

Table 47.41. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.42. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.43. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.44. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the networking-l2gw plugin.

CHAPTER 48. LIMIT

This chapter describes the commands under the **limit** command.

48.1. LIMIT CREATE

Usage:

```
openstack limit create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--description <description>]
                        [--region <region>] --project <project>
                        --service <service> --resource-limit
                        <resource-limit>
                        <resource-name>
```

Create a limit

Table 48.1. Positional Arguments

Value	Summary
None	None

Table 48.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the limit
--region <region>	Region for the limit to affect.
--project <project>	Project to associate the resource limit to
--service <service>	Service responsible for the resource to limit
--resource-limit <resource-limit>	The resource limit for the project to assume

Table 48.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 48.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 48.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 48.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

48.2. LIMIT DELETE

Usage:

```
openstack limit delete [-h] <limit-id> [<limit-id> ...]
```

Delete a limit

Table 48.7. Positional Arguments

Value	Summary
None	None

Table 48.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

48.3. LIMIT LIST

Usage:

```

openstack limit list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--service <service>]
                    [--resource-name <resource-name>]
                    [--region <region>] [--project <project>]

```

List limits

Table 48.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--service <service>	Service responsible for the resource to limit
--resource-name <resource-name>	The name of the resource to limit
--region <region>	Region for the registered limit to affect.
--project <project>	List resource limits associated with project

Table 48.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 48.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 48.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 48.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

48.4. LIMIT SET

Usage:

```

openstack limit set [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--description <description>]
                    [--resource-limit <resource-limit>]
                    <limit-id>

```

Update information about a limit

Table 48.14. Positional Arguments

Value	Summary
None	None

Table 48.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Description of the limit
<code>--resource-limit <resource-limit></code>	The resource limit for the project to assume

Table 48.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 48.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 48.18. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 48.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

48.5. LIMIT SHOW

Usage:

```

openstack limit show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <limit-id>

```

Display limit details

Table 48.20. Positional Arguments

Value	Summary
None	None

Table 48.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 48.22. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 48.23. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 48.24. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 48.25. Table Formatter

Value	Summary

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 49. LIMITS

This chapter describes the commands under the **limits** command.

49.1. LIMITS SHOW

Usage:

```
openstack limits show [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] (--absolute | --rate)
                        [--reserved] [--project <project>]
                        [--domain <domain>]
```

Show compute and block storage limits

Table 49.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--absolute	Show absolute limits
--rate	Show rate limits
--reserved	Include reservations count [only valid with
--absolute] --project <project>	Show limits for a specific project (name or id) [only valid with --absolute]
--domain <domain>	Domain the project belongs to (name or id) [only valid with --absolute]

Table 49.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 49.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 50. LOADBALANCER

This chapter describes the commands under the **loadbalancer** command.

50.1. LOADBALANCER AMPHORA CONFIGURE

Usage:

```
openstack loadbalancer amphora configure [-h] <amphora-id>
```

Update the amphora agent configuration

Table 50.1. Positional Arguments

Value	Summary
None	None

Table 50.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.2. LOADBALANCER AMPHORA FAILOVER

Usage:

```
openstack loadbalancer amphora failover [-h] <amphora-id>
```

Force failover an amphora

Table 50.3. Positional Arguments

Value	Summary
None	None

Table 50.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.3. LOADBALANCER AMPHORA LIST

Usage:

```

openstack loadbalancer amphora list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   [--loadbalancer <loadbalancer>]
                                   [--compute-id <compute-id>]
                                   [--role {BACKUP,MASTER,STANDALONE}]
                                   [--status
{ALLOCATED,BOOTING,DELETED,ERROR,PENDING_CREATE,PENDING_DELETE,READY}]

```

List amphorae

Table 50.5. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--loadbalancer <loadbalancer>	Filter by load balancer (name or id).
--compute-id <compute-id>	Filter by compute id.
--role {BACKUP,MASTER,STANDALONE}	Filter by role.
--status {ALLOCATED,BOOTING,DELETED,ERROR,PENDING_CREATE,PENDING_DELETE,READY}, --provisioning-status {ALLOCATED,BOOTING,DELETED,ERROR,PENDING_CREATE,PENDING_DELETE,READY}	Filter by amphora provisioning status.

Table 50.6. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.7. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.8. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.9. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.4. LOADBALANCER AMPHORA SHOW

Usage:

```

openstack loadbalancer amphora show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <amphora-id>

```

Show the details of a single amphora

Table 50.10. Positional Arguments

Value	Summary
None	None

Table 50.11. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.12. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.13. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.14. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.15. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.5. LOADBALANCER CREATE

Usage:

```

openstack loadbalancer create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--name <name>]
                             [--description <description>]
                             [--vip-address <vip_address>]
                             [--vip-port-id <vip_port_id>]
                             [--vip-subnet-id <vip_subnet_id>]
                             [--vip-network-id <vip_network_id>]
                             [--vip-qos-policy-id <vip_qos_policy_id>]
                             [--project <project>]
                             [--provider <provider>]
                             [--enable | --disable]
                             [--flavor <flavor>]

```

Create a load balancer

Table 50.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New load balancer name.
--description <description>	Set load balancer description.
--vip-address <vip_address>	Set the vip ip address.
--vip-qos-policy-id <vip_qos_policy_id>	Set qos policy id for vip port. unset with <i>none</i> .
--project <project>	Project for the load balancer (name or id).
--provider <provider>	Provider name for the load balancer.
--enable	Enable load balancer (default).
--disable	Disable load balancer.
--flavor <flavor>	The name or id of the flavor for the load balancer.

Table 50.17. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.18. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.19. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.20. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

Table 50.21. VIP Network

Value	Summary
<code>--vip-port-id <vip_port_id></code>	Set port for the load balancer (name or id).
<code>--vip-subnet-id <vip_subnet_id></code>	Set subnet for the load balancer (name or id).
<code>--vip-network-id <vip_network_id></code>	Set network for the load balancer (name or id). This command is provided by the python-octaviaclient plugin.

50.6. LOADBALANCER DELETE

Usage:

```
openstack loadbalancer delete [-h] [--cascade] <load_balancer>
```

Delete a load balancer

Table 50.22. Positional Arguments

Value	Summary
None	None

Table 50.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--cascade	Cascade the delete to all child elements of the load balancer. This command is provided by the python-octaviaclient plugin.

50.7. LOADBALANCER FAILOVER

Usage:

```
openstack loadbalancer failover [-h] <load_balancer>
```

Trigger load balancer failover

Table 50.24. Positional Arguments

Value	Summary
None	None

Table 50.25. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.8. LOADBALANCER FLAVOR CREATE

Usage:

```
openstack loadbalancer flavor create [-h]
                                     [-f {json,shell,table,value,yaml}]
```



```

[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
--name <name> --flavorprofile
<flavor_profile>
[--description <description>]
[--enable | --disable]

```

Create a octavia flavor

Table 50.26. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New flavor name.
--flavorprofile <flavor_profile>	Flavor profile to add the flavor to (name or id).
--description <description>	Set flavor description.
--enable	Enable flavor.
--disable	Disable flavor.

Table 50.27. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.28. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.29. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.30. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.9. LOADBALANCER FLAVOR DELETE

Usage:

```
openstack loadbalancer flavor delete [-h] <flavor>
```

Delete a flavor

Table 50.31. Positional Arguments

Value	Summary
None	None

Table 50.32. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-octaviaclient</code> plugin.

50.10. LOADBALANCER FLAVOR LIST

Usage:

```
openstack loadbalancer flavor list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```

```
[--name <name>]
[--flavorprofile <flavor_profile>]
[--enable | --disable]
```

List flavor

Table 50.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List flavors according to their name.
--flavorprofile <flavor_profile>	List flavors according to their flavor profile.
--enable	List enabled flavors.
--disable	List disabled flavors.

Table 50.34. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.35. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.36. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.37. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.11. LOADBALANCER FLAVOR SET

Usage:

```
openstack loadbalancer flavor set [-h] [--name <name>]
                                [--enable | --disable]
                                <flavor>
```

Update a flavor

Table 50.38. Positional Arguments

Value	Summary
None	None

Table 50.39. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set the name of the flavor.
<code>--enable</code>	Enable flavor.
<code>--disable</code>	Disable flavor. This command is provided by the <code>python-octaviaclient</code> plugin.

50.12. LOADBALANCER FLAVOR SHOW

Usage:

```

openstack loadbalancer flavor show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                <flavor>

```

Show the details for a single flavor

Table 50.40. Positional Arguments

Value	Summary
None	None

Table 50.41. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.42. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.43. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.44. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.45. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.13. LOADBALANCER FLAVOR UNSET

Usage:

```
openstack loadbalancer flavor unset [-h] [--description] <flavor>
```

Clear health monitor settings

Table 50.46. Positional Arguments

Value	Summary
None	None

Table 50.47. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description</code>	Clear the flavor description. This command is provided by the python-octaviaclient plugin.

50.14. LOADBALANCER FLAVORPROFILE CREATE

Usage:

```
openstack loadbalancer flavorprofile create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
```

```

[--fit-width]
[--print-empty] --name
<name> --provider <provider
name> --flavor-data
<flavor_data>

```

Create a octavia flavor profile

Table 50.48. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New octavia flavor profile name.
--provider <provider name>	Provider name for the flavor profile.
--flavor-data <flavor_data>	The json string containing the flavor metadata.

Table 50.49. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.50. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.51. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.52. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.15. LOADBALANCER FLAVORPROFILE DELETE

Usage:

```
openstack loadbalancer flavorprofile delete [-h] <flavor_profile>
```

Delete a flavor profile

Table 50.53. Positional Arguments

Value	Summary
None	None

Table 50.54. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-octaviaclient</code> plugin.

50.16. LOADBALANCER FLAVORPROFILE LIST

Usage:

```
openstack loadbalancer flavorprofile list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--name <name>]
                                         [--provider <provider_name>]
```


List flavor profile

Table 50.55. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List flavor profiles by flavor profile name.
--provider <provider_name>	List flavor profiles according to their provider.

Table 50.56. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.57. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.58. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.59. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.17. LOADBALANCER FLAVORPROFILE SET

Usage:

```
openstack loadbalancer flavorprofile set [-h] [--name <name>]
                                         [--provider <provider_name>]
                                         [--flavor-data <flavor_data>]
                                         <flavor_profile>
```

Update a flavor profile

Table 50.60. Positional Arguments

Value	Summary
None	None

Table 50.61. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set the name of the flavor profile.
<code>--provider <provider_name></code>	Set the provider of the flavor profile.
<code>--flavor-data <flavor_data></code>	Set the flavor data of the flavor profile. This command is provided by the <code>python-octaviaclient</code> plugin.

50.18. LOADBALANCER FLAVORPROFILE SHOW

Usage:

```

openstack loadbalancer flavorprofile show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <flavor_profile>

```

Show the details for a single flavor profile

Table 50.62. Positional Arguments

Value	Summary
None	None

Table 50.63. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.64. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.65. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.66. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.67. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.19. LOADBALANCER HEALTHMONITOR CREATE

Usage:

```

openstack loadbalancer healthmonitor create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty]
                                           [--name <name>] --delay
                                           <delay>
                                           [--domain-name <domain_name>]
                                           [--expected-codes <codes>]
                                           [--http-method
{GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,CONNECT,TRACE}]
                                           [--http-version <http_version>]
                                           --timeout <timeout>
                                           --max-retries <max_retries>
                                           [--url-path <url_path>]
                                           --type
{PING,HTTP,TCP,HTTPS,TLS-HELLO,UDP-CONNECT}
                                           [--max-retries-down <max_retries_down>]
                                           [--enable | --disable]
                                           <pool>

```

Create a health monitor

Table 50.68. Positional Arguments

Value	Summary
None	None

Table 50.69. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the health monitor name.
--delay <delay>	Set the time in seconds, between sending probes to members.
--domain-name <domain_name>	Set the domain name, which be injected into the http Host Header to the backend server for HTTP health check.
--expected-codes <codes>	Set the list of http status codes expected in response from the member to declare it healthy.
--http-method {GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,CONNECT,TRACE}	Set the http method that the health monitor uses for requests.
--http-version <http_version>	Set the http version.
--timeout <timeout>	Set the maximum time, in seconds, that a monitor waits to connect before it times out. This value must be less than the delay value.
--max-retries <max_retries>	The number of successful checks before changing the operating status of the member to ONLINE.
--url-path <url_path>	Set the http url path of the request sent by the monitor to test the health of a backend member.
--type {PING,HTTP,TCP,HTTPS,TLS-HELLO,UDP-CONNECT}	Set the health monitor type.
--max-retries-down <max_retries_down>	Set the number of allowed check failures before changing the operating status of the member to ERROR.
--enable	Enable health monitor (default).
--disable	Disable health monitor.

Table 50.70. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.71. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.72. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.73. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.20. LOADBALANCER HEALTHMONITOR DELETE

Usage:

```
openstack loadbalancer healthmonitor delete [-h] <health_monitor>
```

Delete a health monitor

Table 50.74. Positional Arguments

Value	Summary
None	None

Table 50.75. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.21. LOADBALANCER HEALTHMONITOR LIST

Usage:

```

openstack loadbalancer healthmonitor list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]

```

List health monitors

Table 50.76. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.77. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.78. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.79. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.80. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.22. LOADBALANCER HEALTHMONITOR SET

Usage:

```

openstack loadbalancer healthmonitor set [-h] [--name <name>]
                                         [--delay <delay>]
                                         [--domain-name <domain_name>]
                                         [--expected-codes <codes>]
                                         [--http-method
{GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,CONNECT,TRACE}]
                                         [--http-version <http_version>]
                                         [--timeout <timeout>]
                                         [--max-retries <max_retries>]
                                         [--max-retries-down <max_retries_down>]
                                         [--url-path <url_path>]
                                         [--enable | --disable]
                                         <health_monitor>

```

Update a health monitor

Table 50.81. Positional Arguments

Value	Summary
None	None

Table 50.82. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set health monitor name.
--delay <delay>	Set the time in seconds, between sending probes to members.
--domain-name <domain_name>	Set the domain name, which be injected into the http Host Header to the backend server for HTTP health check.
--expected-codes <codes>	Set the list of http status codes expected in response from the member to declare it healthy.
--http-method {GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,C ONNECT,TRACE}	Set the http method that the health monitor uses for requests.
--http-version <http_version>	Set the http version.
--timeout <timeout>	Set the maximum time, in seconds, that a monitor waits to connect before it times out. This value must be less than the delay value.
--max-retries <max_retries>	Set the number of successful checks before changing the operating status of the member to ONLINE.
--max-retries-down <max_retries_down>	Set the number of allowed check failures before changing the operating status of the member to ERROR.
--url-path <url_path>	Set the http url path of the request sent by the monitor to test the health of a backend member.
--enable	Enable health monitor.
--disable	Disable health monitor. This command is provided by the python-octaviaclient plugin.

50.23. LOADBALANCER HEALTHMONITOR SHOW

Usage:

```
openstack loadbalancer healthmonitor show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <health_monitor>
```

Show the details of a single health monitor

Table 50.83. Positional Arguments

Value	Summary
None	None

Table 50.84. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.85. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.86. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.87. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.88. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.24. LOADBALANCER HEALTHMONITOR UNSET

Usage:

```
openstack loadbalancer healthmonitor unset [-h] [--domain-name]
                                         [--expected-codes]
                                         [--http-method]
                                         [--http-version]
                                         [--max-retries-down]
                                         [--name] [--url-path]
                                         <health_monitor>
```

Clear health monitor settings

Table 50.89. Positional Arguments

Value	Summary
None	None

Table 50.90. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain-name	Clear the health monitor domain name.
--expected-codes	Reset the health monitor expected codes to the api default.
--http-method	Reset the health monitor http method to the api default.

Value	Summary
--http-version	Reset the health monitor http version to the api default.
--max-retries-down	Reset the health monitor max retries down to the api default.
--name	Clear the health monitor name.
--url-path	Clear the health monitor url path. This command is provided by the python-octaviaclient plugin.

50.25. LOADBALANCER L7POLICY CREATE

Usage:

```

openstack loadbalancer l7policy create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--name <name>]
                                     [--description <description>]
                                     --action

{REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}
                                     [--redirect-pool <pool> | --redirect-url <url> | --redirect-prefix <url>]
                                     [--redirect-http-code <redirect_http_code>]
                                     [--position <position>]
                                     [--enable | --disable]
                                     <listener>

```

Create a l7policy

Table 50.91. Positional Arguments

Value	Summary
None	None

Table 50.92. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the l7policy name.

Value	Summary
--description <description>	Set l7policy description.
--action {REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}	Set the action of the policy.
--redirect-pool <pool>	Set the pool to redirect requests to (name or id).
--redirect-url <url>	Set the url to redirect requests to.
--redirect-prefix <url>	Set the url prefix to redirect requests to.
--redirect-http-code <redirect_http_code>	Set the http response code for redirect_url or REDIRECT_PREFIX action.
--position <position>	Sequence number of this l7 policy.
--enable	Enable l7policy (default).
--disable	Disable l7policy.

Table 50.93. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.94. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.95. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.96. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.26. LOADBALANCER L7POLICY DELETE

Usage:

```
openstack loadbalancer l7policy delete [-h] <policy>
```

Delete a l7policy

Table 50.97. Positional Arguments

Value	Summary
None	None

Table 50.98. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.27. LOADBALANCER L7POLICY LIST

Usage:

```
openstack loadbalancer l7policy list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

List l7policies

Table 50.99. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.100. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.101. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.102. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.103. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.28. LOADBALANCER L7POLICY SET

Usage:

```
openstack loadbalancer l7policy set [-h] [--name <name>]
                                     [--description <description>]
                                     [--action
                                     {REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}]
                                     [--redirect-pool <pool> | --redirect-url <url> | --redirect-prefix <url>]
                                     [--redirect-http-code <redirect_http_code>]
                                     [--position <position>]
                                     [--enable | --disable]
                                     <policy>
```

Update a l7policy

Table 50.104. Positional Arguments

Value	Summary
None	None

Table 50.105. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set l7policy name.
--description <description>	Set l7policy description.
--action {REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}	Set the action of the policy.
--redirect-pool <pool>	Set the pool to redirect requests to (name or id).
--redirect-url <url>	Set the url to redirect requests to.
--redirect-prefix <url>	Set the url prefix to redirect requests to.
--redirect-http-code <redirect_http_code>	Set the http response code for redirect_url or REDIRECT_PREFIX action.
--position <position>	Set sequence number of this l7 policy.
--enable	Enable l7policy.

Value	Summary
--disable	Disable l7policy. This command is provided by the python-octaviaclient plugin.

50.29. LOADBALANCER L7POLICY SHOW

Usage:

```

openstack loadbalancer l7policy show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <policy>

```

Show the details of a single l7policy

Table 50.106. Positional Arguments

Value	Summary
None	None

Table 50.107. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.108. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.109. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.110. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.111. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.30. LOADBALANCER L7POLICY UNSET

Usage:

```
openstack loadbalancer l7policy unset [-h] [--description] [--name]
                                     [--redirect-http-code]
                                     <policy>
```

Clear l7policy settings

Table 50.112. Positional Arguments

Value	Summary
None	None

Table 50.113. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description	Clear the l7policy description.
--name	Clear the l7policy name.

Value	Summary
--redirect-http-code	Clear the l7policy redirect http code. This command is provided by the python-octaviaclient plugin.

50.31. LOADBALANCER L7RULE CREATE

Usage:

```

openstack loadbalancer l7rule create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     --compare-type
                                     {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,STARTS_WITH}
                                     [--invert] --value <value>
                                     [--key <key>] --type
                                     {FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,SSL_CONN_HAS_CERT,SSL_VERIFY_RESULT,SSL_DN_FIELD}
                                     [--enable | --disable]
                                     <l7policy>

```

Create a l7rule

Table 50.114. Positional Arguments

Value	Summary
None	None

Table 50.115. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--compare-type {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,STARTS_WITH}	Set the compare type for the l7rule.
--invert	Invert l7rule.
--value <value>	Set the rule value to match on.
--key <key>	Set the key for the l7rule's value to match on.

Value	Summary
<code>--type</code> {FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,SSL_CONN_HAS_CERT,SSL_VERIFY_RESULT,SSL_DN_FIELD}	Set the type for the l7rule.
<code>--enable</code>	Enable l7rule (default).
<code>--disable</code>	Disable l7rule.

Table 50.116. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.117. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.118. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.119. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.32. LOADBALANCER L7RULE DELETE

Usage:

```
openstack loadbalancer l7rule delete [-h] <l7policy> <rule_id>
```

Delete a l7rule

Table 50.120. Positional Arguments

Value	Summary
None	None

Table 50.121. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.33. LOADBALANCER L7RULE LIST

Usage:

```
openstack loadbalancer l7rule list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                <l7policy>
```

List l7rules for l7policy

Table 50.122. Positional Arguments

Value	Summary
None	None

Table 50.123. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.124. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.125. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.126. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.127. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.34. LOADBALANCER L7RULE SET

Usage:

```
openstack loadbalancer l7rule set [-h]
                                [--compare-type
                                {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,STARTS_WITH}]
```

```

[--invert] [--value <value>]
[--key <key>]
[--type
{FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,SSL_CONN_HAS_CERT,SSL_VERIFY_RESU
LT,SSL_DN_FIELD}]
[--enable | --disable]
<l7policy> <l7rule_id>

```

Update a l7rule

Table 50.128. Positional Arguments

Value	Summary
None	None

Table 50.129. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--compare-type {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,START S_WITH}	Set the compare type for the l7rule.
--invert	Invert l7rule.
--value <value>	Set the rule value to match on.
--key <key>	Set the key for the l7rule's value to match on.
--type {FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,S SL_CONN_HAS_CERT,SSL_VERIFY_RESULT,SSL_D N_FIELD}	Set the type for the l7rule.
--enable	Enable l7rule.
--disable	Disable l7rule. This command is provided by the python-octaviaclient plugin.

50.35. LOADBALANCER L7RULE SHOW

Usage:

```

openstack loadbalancer l7rule show [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]

```

```
[--max-width <integer>]
[--fit-width] [--print-empty]
<l7policy> <l7rule_id>
```

Show the details of a single l7rule

Table 50.130. Positional Arguments

Value	Summary
None	None

Table 50.131. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.132. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.133. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.134. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.135. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.36. LOADBALANCER L7RULE UNSET

Usage:

```
openstack loadbalancer l7rule unset [-h] [--invert] [--key]
                                   <l7policy> <l7rule_id>
```

Clear l7rule settings

Table 50.136. Positional Arguments

Value	Summary
None	None

Table 50.137. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--invert	Reset the l7rule invert to the api default.
--key	Clear the l7rule key. This command is provided by the python-octaviaclient plugin.

50.37. LOADBALANCER LIST

Usage:

```
openstack loadbalancer list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--name <name>]
                             [--enable | --disable]
```

```

[--project <project-id>]
[--vip-network-id <vip_network_id>]
[--vip-subnet-id <vip_subnet_id>]
[--vip-qos-policy-id <vip_qos_policy_id>]
[--vip-port-id <vip_port_id>]
[--provisioning-status
{ACTIVE,DELETED,ERROR,PENDING_CREATE,PENDING_UPDATE,PENDING_DELETE}]
[--operating-status
{ONLINE,DRAINING,OFFLINE,DEGRADED,ERROR,NO_MONITOR}]
[--provider <provider>] [--flavor <flavor>]

```

List load balancers

Table 50.138. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List load balancers according to their name.
--enable	List enabled load balancers.
--disable	List disabled load balancers.
--project <project-id>	List load balancers according to their project (name or ID).
--vip-network-id <vip_network_id>	List load balancers according to their vip network (name or ID).
--vip-subnet-id <vip_subnet_id>	List load balancers according to their vip subnet (name or ID).
--vip-qos-policy-id <vip_qos_policy_id>	List load balancers according to their vip qos policy (name or ID).
--vip-port-id <vip_port_id>	List load balancers according to their vip port (name or ID).
--provisioning-status {ACTIVE,DELETED,ERROR,PENDING_CREATE,PENDING_UPDATE,PENDING_DELETE}	List load balancers according to their provisioning status.
--operating-status {ONLINE,DRAINING,OFFLINE,DEGRADED,ERROR,NO_MONITOR}	List load balancers according to their operating status.
--provider <provider>	List load balancers according to their provider.
--flavor <flavor>	List load balancers according to their flavor.

Value	Summary

Table 50.139. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.140. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.141. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.142. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.38. LOADBALANCER LISTENER CREATE

Usage:

```

openstack loadbalancer listener create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--name <name>]
                                     [--description <description>]
                                     --protocol
                                     {TCP,HTTP,HTTPS,TERMINATED_HTTPS,UDP}
                                     [--connection-limit <limit>]
                                     [--default-pool <pool>]
                                     [--default-tls-container-ref <container_ref>]
                                     [--sni-container-refs [<container_ref> [<container_ref> ...]]]
                                     [--insert-headers <header=value,...>]
                                     --protocol-port <port>
                                     [--timeout-client-data <timeout>]
                                     [--timeout-member-connect <timeout>]
                                     [--timeout-member-data <timeout>]
                                     [--timeout-tcp-inspect <timeout>]
                                     [--enable | --disable]
                                     [--client-ca-tls-container-ref <container_ref>]
                                     [--client-authentication {NONE,OPTIONAL,MANDATORY}]
                                     [--client-crl-container-ref <client_crl_container_ref>]
                                     [--allowed-cidr [<allowed_cidr>]]
                                     <loadbalancer>

```

Create a listener

Table 50.143. Positional Arguments

Value	Summary
None	None

Table 50.144. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the listener name.
--description <description>	Set the description of this listener.
--protocol {TCP,HTTP,HTTPS,TERMINATED_HTTPS,UDP}	The protocol for the listener.

Value	Summary
--connection-limit <limit>	Set the maximum number of connections permitted for this listener.
--default-pool <pool>	Set the name or id of the pool used by the listener if no L7 policies match.
--default-tls-container-ref <container_ref>	The uri to the key manager service secrets container containing the certificate and key for TERMINATED_TLS listeners.
--sni-container-refs [<container_ref> [<container_ref> ...]]	A list of uris to the key manager service secrets containers containing the certificates and keys for TERMINATED_TLS the listener using Server Name Indication.
--insert-headers <header=value,...>	A dictionary of optional headers to insert into the request before it is sent to the backend member.
--protocol-port <port>	Set the protocol port number for the listener.
--timeout-client-data <timeout>	Frontend client inactivity timeout in milliseconds. Default: 50000.
--timeout-member-connect <timeout>	Backend member connection timeout in milliseconds. Default: 5000.
--timeout-member-data <timeout>	Backend member inactivity timeout in milliseconds. Default: 50000.
--timeout-tcp-inspect <timeout>	Time, in milliseconds, to wait for additional tcp packets for content inspection. Default: 0.
--enable	Enable listener (default).
--disable	Disable listener.
--client-ca-tls-container-ref <container_ref>	The uri to the key manager service secrets container containing the CA certificate for TERMINATED_TLS listeners.
--client-authentication {NONE,OPTIONAL,MANDATORY}	The tls client authentication verify options for TERMINATED_TLS listeners.
--client-crl-container-ref <client_crl_container_ref>	The uri to the key manager service secrets container containing the CA revocation list file for TERMINATED_TLS listeners.

Value	Summary
<code>--allowed-cidr [<allowed_cidr>]</code>	Cidr to allow access to the listener (can be set multiple times).

Table 50.145. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.146. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.147. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.148. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.39. LOADBALANCER LISTENER DELETE

Usage:

```
openstack loadbalancer listener delete [-h] <listener>
```

Delete a listener

Table 50.149. Positional Arguments

Value	Summary
None	None

Table 50.150. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.40. LOADBALANCER LISTENER LIST

Usage:

```
openstack loadbalancer listener list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--name <name>]
                                     [--loadbalancer <loadbalancer>]
                                     [--enable | --disable]
                                     [--project <project>]
```

List listeners

Table 50.151. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List listeners by listener name.
--loadbalancer <loadbalancer>	Filter by load balancer (name or id).
--enable	List enabled listeners.
--disable	List disabled listeners.

Value	Summary
<code>--project <project></code>	List listeners by project id.

Table 50.152. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.153. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.154. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.155. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.41. LOADBALANCER LISTENER SET

Usage:

```

openstack loadbalancer listener set [-h] [--name <name>]
                                   [--description <description>]
                                   [--connection-limit <limit>]
                                   [--default-pool <pool>]
                                   [--default-tls-container-ref <container-ref>]
                                   [--sni-container-refs [<container-ref> [<container-ref> ...]]]
                                   [--insert-headers <header=value>]
                                   [--timeout-client-data <timeout>]
                                   [--timeout-member-connect <timeout>]
                                   [--timeout-member-data <timeout>]
                                   [--timeout-tcp-inspect <timeout>]
                                   [--enable | --disable]
                                   [--client-ca-tls-container-ref <container_ref>]
                                   [--client-authentication {NONE,OPTIONAL,MANDATORY}]
                                   [--client-crl-container-ref <client_crl_container_ref>]
                                   [--allowed-cidr [<allowed_cidr>]]
                                   <listener>

```

Update a listener

Table 50.156. Positional Arguments

Value	Summary
None	None

Table 50.157. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the listener name.
--description <description>	Set the description of this listener.
--connection-limit <limit>	The maximum number of connections permitted for this listener. Default value is -1 which represents infinite connections.
--default-pool <pool>	The id of the pool used by the listener if no l7 policies match.
--default-tls-container-ref <container-ref>	The uri to the key manager service secrets container containing the certificate and key for TERMINATED_TLSlisteners.

Value	Summary
<code>--sni-container-refs [<container-ref> [<container-ref> ...]]</code>	A list of uris to the key manager service secrets containers containing the certificates and keys for TERMINATED_TLS the listener using Server Name Indication.
<code>--insert-headers <header=value></code>	A dictionary of optional headers to insert into the request before it is sent to the backend member.
<code>--timeout-client-data <timeout></code>	Frontend client inactivity timeout in milliseconds. Default: 50000.
<code>--timeout-member-connect <timeout></code>	Backend member connection timeout in milliseconds. Default: 5000.
<code>--timeout-member-data <timeout></code>	Backend member inactivity timeout in milliseconds. Default: 50000.
<code>--timeout-tcp-inspect <timeout></code>	Time, in milliseconds, to wait for additional tcp packets for content inspection. Default: 0.
<code>--enable</code>	Enable listener.
<code>--disable</code>	Disable listener.
<code>--client-ca-tls-container-ref <container_ref></code>	The uri to the key manager service secrets container containing the CA certificate for TERMINATED_TLS listeners.
<code>--client-authentication {NONE,OPTIONAL,MANDATORY}</code>	The tls client authentication verify options for TERMINATED_TLS listeners.
<code>--client-crl-container-ref <client_crl_container_ref></code>	The uri to the key manager service secrets container containing the CA revocation list file for TERMINATED_TLS listeners.
<code>--allowed-cidr [<allowed_cidr>]</code>	Cidr to allow access to the listener (can be set multiple times). This command is provided by the python-octaviaclient plugin.

50.42. LOADBALANCER LISTENER SHOW

Usage:

```
openstack loadbalancer listener show [-h]
                                     [-f {json,shell,table,value,yaml}]
```

```

[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
<listener>

```

Show the details of a single listener

Table 50.158. Positional Arguments

Value	Summary
None	None

Table 50.159. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.160. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.161. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.162. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.163. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.43. LOADBALANCER LISTENER STATS SHOW

Usage:

```

openstack loadbalancer listener stats show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         <listener>

```

Shows the current statistics for a listener.

Table 50.164. Positional Arguments

Value	Summary
None	None

Table 50.165. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 50.166. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.167. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.168. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.169. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.44. LOADBALANCER LISTENER UNSET

Usage:

```

openstack loadbalancer listener unset [-h] [--name] [--description]
                                     [--connection-limit]
                                     [--default-pool]
                                     [--default-tls-container-ref]
                                     [--sni-container-refs]
                                     [--insert-headers]
                                     [--timeout-client-data]
                                     [--timeout-member-connect]
                                     [--timeout-member-data]
                                     [--timeout-tcp-inspect]
                                     [--client-ca-tls-container-ref]
                                     [--client-authentication]

```

```

[--client-crl-container-ref]
[--allowed-cidrs]
<listener>

```

Clear listener settings

Table 50.170. Positional Arguments

Value	Summary
None	None

Table 50.171. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Clear the listener name.
--description	Clear the description of this listener.
--connection-limit	Reset the connection limit to the api default.
--default-pool	Clear the default pool from the listener.
--default-tls-container-ref	Remove the default tls container reference from the listener.
--sni-container-refs	Remove the tls sni container references from the listener.
--insert-headers	Clear the insert headers from the listener.
--timeout-client-data	Reset the client data timeout to the api default.
--timeout-member-connect	Reset the member connect timeout to the api default.
--timeout-member-data	Reset the member data timeout to the api default.
--timeout-tcp-inspect	Reset the tcp inspection timeout to the api default.
--client-ca-tls-container-ref	Clear the client ca tls container reference from the listener.
--client-authentication	Reset the client authentication setting to the api default.

Value	Summary
--client-crl-container-ref	Clear the client crl container reference from the listener.
--allowed-cidrs	Clear all allowed cidrs from the listener. This command is provided by the python-octaviaclient plugin.

50.45. LOADBALANCER MEMBER CREATE

Usage:

```

openstack loadbalancer member create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--name <name>]
                                     [--disable-backup | --enable-backup]
                                     [--weight <weight>] --address
                                     <ip_address>
                                     [--subnet-id <subnet_id>]
                                     --protocol-port <protocol_port>
                                     [--monitor-port <monitor_port>]
                                     [--monitor-address <monitor_address>]
                                     [--enable | --disable]
                                     <pool>

```

Creating a member in a pool

Table 50.172. Positional Arguments

Value	Summary
None	None

Table 50.173. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the member.
--disable-backup	Disable member backup (default)
--enable-backup	Enable member backup

Value	Summary
--weight <weight>	The weight of a member determines the portion of requests or connections it services compared to the other members of the pool.
--address <ip_address>	The ip address of the backend member server
--subnet-id <subnet_id>	The subnet id the member service is accessible from.
--protocol-port <protocol_port>	The protocol port number the backend member server is listening on.
--monitor-port <monitor_port>	An alternate protocol port used for health monitoring a backend member.
--monitor-address <monitor_address>	An alternate ip address used for health monitoring a backend member.
--enable	Enable member (default)
--disable	Disable member

Table 50.174. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.175. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.176. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.177. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.46. LOADBALANCER MEMBER DELETE

Usage:

```
openstack loadbalancer member delete [-h] <pool> <member>
```

Delete a member from a pool

Table 50.178. Positional Arguments

Value	Summary
None	None

Table 50.179. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.47. LOADBALANCER MEMBER LIST

Usage:

```
openstack loadbalancer member list [-h]
                                  [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN]
                                  [--quote {all,minimal,none,nonnumeric}]
                                  [--noindent] [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  [--sort-column SORT_COLUMN]
                                  <pool>
```

List members in a pool

Table 50.180. Positional Arguments

Value	Summary
None	None

Table 50.181. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.182. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.183. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.184. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.185. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.48. LOADBALANCER MEMBER SET

Usage:

```

openstack loadbalancer member set [-h] [--name <name>]
                                [--disable-backup | --enable-backup]
                                [--weight <weight>]
                                [--monitor-port <monitor_port>]
                                [--monitor-address <monitor_address>]
                                [--enable | --disable]
                                <pool> <member>

```

Update a member

Table 50.186. Positional Arguments

Value	Summary
None	None

Table 50.187. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the name of the member
--disable-backup	Disable member backup (default)
--enable-backup	Enable member backup
--weight <weight>	Set the weight of member in the pool
--monitor-port <monitor_port>	An alternate protocol port used for health monitoring a backend member

Value	Summary
<code>--monitor-address <monitor_address></code>	An alternate ip address used for health monitoring a backend member.
<code>--enable</code>	Set the <code>admin_state_up</code> to true
<code>--disable</code>	Set the <code>admin_state_up</code> to false This command is provided by the <code>python-octaviaclient</code> plugin.

50.49. LOADBALANCER MEMBER SHOW

Usage:

```

openstack loadbalancer member show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   <pool> <member>

```

Shows details of a single Member

Table 50.188. Positional Arguments

Value	Summary
None	None

Table 50.189. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 50.190. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.191. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.192. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.193. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.50. LOADBALANCER MEMBER UNSET

Usage:

```
openstack loadbalancer member unset [-h] [--backup] [--monitor-address]
                                   [--monitor-port] [--name]
                                   [--weight]
                                   <pool> <member>
```

Clear member settings

Table 50.194. Positional Arguments

Value	Summary
None	None

Table 50.195. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--backup	Clear the backup member flag.
--monitor-address	Clear the member monitor address.
--monitor-port	Clear the member monitor port.
--name	Clear the member name.
--weight	Reset the member weight to the api default. This command is provided by the python-octaviaclient plugin.

50.51. LOADBALANCER POOL CREATE

Usage:

```

openstack loadbalancer pool create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--name <name>]
                                [--description <description>]
                                --protocol
                                {TCP,HTTP,HTTPS,TERMINATED_HTTPS,PROXY,UDP}
                                (--listener <listener> | --loadbalancer <load_balancer>)
                                [--session-persistence <session persistence>]
                                --lb-algorithm

                                {SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP_PORT}
                                [--enable | --disable]
                                [--tls-container-ref <container-ref>]
                                [--ca-tls-container-ref <ca_tls_container_ref>]
                                [--crl-container-ref <crl_container_ref>]
                                [--enable-tls | --disable-tls]

```

Create a pool

Table 50.196. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set pool name.

Value	Summary
--description <description>	Set pool description.
--protocol {TCP,HTTP,HTTPS,TERMINATED_HTTPS,PROXY,UDP}	Set the pool protocol.
--listener <listener>	Listener to add the pool to (name or id).
--loadbalancer <load_balancer>	Load balancer to add the pool to (name or id)
--session-persistence <session persistence>	Set the session persistence for the listener (key=value).
--lb-algorithm {SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP_PORT}	Load balancing algorithm to use.
--enable	Enable pool (default).
--disable	Disable pool.
--tls-container-ref <container-ref>	The reference to the key manager service secrets container containing the certificate and key for ``tls_enabled`` pools to re-encrypt the traffic to backend member servers.
--ca-tls-container-ref <ca_tls_container_ref>	The reference to the key manager service secrets container containing the CA certificate for ``tls_enabled`` pools to check the backend member servers certificates
--crl-container-ref <crl_container_ref>	The reference to the key manager service secrets container containing the CA revocation list file for ``tls_enabled`` pools to validate the backend member servers certificates.
--enable-tls	Enable backend member re-encryption.
--disable-tls	Disable backend member re-encryption.

Table 50.197. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.198. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.199. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.200. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.52. LOADBALANCER POOL DELETE

Usage:

```
openstack loadbalancer pool delete [-h] <pool>
```

Delete a pool

Table 50.201. Positional Arguments

Value	Summary
None	None

Table 50.202. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.53. LOADBALANCER POOL LIST

Usage:

```
openstack loadbalancer pool list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--loadbalancer <loadbalancer>]
```

List pools

Table 50.203. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--loadbalancer <loadbalancer>	Filter by load balancer (name or id).

Table 50.204. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.205. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.206. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.207. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.54. LOADBALANCER POOL SET

Usage:

```

openstack loadbalancer pool set [-h] [--name <name>]
                                [--description <description>]
                                [--session-persistence <session_persistence>]
                                [--lb-algorithm
{SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP_PORT}]
                                [--enable | --disable]
                                [--tls-container-ref <container-ref>]
                                [--ca-tls-container-ref <ca_tls_container_ref>]
                                [--crl-container-ref <crl_container_ref>]
                                [--enable-tls | --disable-tls]
                                <pool>

```

Update a pool

Table 50.208. Positional Arguments

Value	Summary
None	None

Table 50.209. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the name of the pool.
--description <description>	Set the description of the pool.
--session-persistence <session_persistence>	Set the session persistence for the listener (key=value).
--lb-algorithm {SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTION, SOURCE_IP_PORT}	Set the load balancing algorithm to use.
--enable	Enable pool.
--disable	Disable pool.
--tls-container-ref <container-ref>	The uri to the key manager service secrets container containing the certificate and key for TERMINATED_TLS pools to re-encrypt the traffic from TERMINATED_TLS listener to backend servers.
--ca-tls-container-ref <ca_tls_container_ref>	The uri to the key manager service secrets container containing the CA certificate for TERMINATED_TLS listeners to check the backend servers certificates in ssl traffic.
--crl-container-ref <crl_container_ref>	The uri to the key manager service secrets container containing the CA revocation list file for TERMINATED_TLS listeners to valid the backend servers certificates in ssl traffic.
--enable-tls	Enable backend associated members re-encryption.
--disable-tls	Disable backend associated members re-encryption. This command is provided by the python-octaviaclient plugin.

50.55. LOADBALANCER POOL SHOW

Usage:

```
openstack loadbalancer pool show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
```

```
[--max-width <integer>] [--fit-width]
[--print-empty]
<pool>
```

Show the details of a single pool

Table 50.210. Positional Arguments

Value	Summary
None	None

Table 50.211. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.212. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.213. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.214. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.215. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.56. LOADBALANCER POOL UNSET

Usage:

```

openstack loadbalancer pool unset [-h] [--name] [--description]
                                [--ca-tls-container-ref]
                                [--crl-container-ref]
                                [--session-persistence]
                                [--tls-container-ref]
                                <pool>

```

Clear pool settings

Table 50.216. Positional Arguments

Value	Summary
None	None

Table 50.217. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Clear the pool name.
--description	Clear the description of this pool.
--ca-tls-container-ref	Clear the certificate authority certificate reference on this pool.
--crl-container-ref	Clear the certificate revocation list reference on this pool.
--session-persistence	Disables session persistence on the pool.

Value	Summary
<code>--tls-container-ref</code>	Clear the certificate reference for this pool. This command is provided by the python-octaviaclient plugin.

50.57. LOADBALANCER PROVIDER CAPABILITY LIST

Usage:

```

openstack loadbalancer provider capability list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         <provider_name>

```

List specified provider driver's flavor capabilities.

Table 50.218. Positional Arguments

Value	Summary
None	None

Table 50.219. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 50.220. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.221. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.222. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.223. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.58. LOADBALANCER PROVIDER LIST

Usage:

```

openstack loadbalancer provider list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]

```

List all providers

Table 50.224. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.225. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.226. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.227. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.228. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.59. LOADBALANCER QUOTA DEFAULTS SHOW

Usage:

```
openstack loadbalancer quota defaults show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
```



```

[--prefix PREFIX]
[--max-width <integer>]
[--fit-width]
[--print-empty]

```

Show quota defaults

Table 50.229. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.230. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.231. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.232. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.233. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.60. LOADBALANCER QUOTA LIST

Usage:

```

openstack loadbalancer quota list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--project <project-id>]

```

List quotas

Table 50.234. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--project <project-id></code>	Name or uuid of the project.

Table 50.235. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.236. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.237. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.238. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.61. LOADBALANCER QUOTA RESET

Usage:

```
openstack loadbalancer quota reset [-h] <project>
```

Resets quotas to default quotas

Table 50.239. Positional Arguments

Value	Summary
None	None

Table 50.240. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.62. LOADBALANCER QUOTA SET

Usage:

```
openstack loadbalancer quota set [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--healthmonitor <health_monitor>]
                                [--listener <listener>]
                                [--loadbalancer <load_balancer>]
                                [--member <member>] [--pool <pool>]
                                <project>
```

Update a quota

Table 50.241. Positional Arguments

Value	Summary
None	None

Table 50.242. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.243. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.244. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.245. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.246. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

Table 50.247. Quota limits

Value	Summary
--healthmonitor <health_monitor>	New value for the health monitor quota. value -1 means unlimited.
--listener <listener>	New value for the listener quota. value -1 means unlimited.
--loadbalancer <load_balancer>	New value for the load balancer quota limit. value -1 means unlimited.
--member <member>	New value for the member quota limit. value -1 means unlimited.
--pool <pool>	New value for the pool quota limit. value -1 means unlimited. This command is provided by the python-octaviaclient plugin.

50.63. LOADBALANCER QUOTA SHOW

Usage:

```
openstack loadbalancer quota show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
```

`--max-width <integer>] [--fit-width]
[--print-empty]
<project>`

Show the quota details for a project

Table 50.248. Positional Arguments

Value	Summary
None	None

Table 50.249. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.250. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.251. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.252. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.253. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.64. LOADBALANCER QUOTA UNSET

Usage:

```
openstack loadbalancer quota unset [-h] [--loadbalancer] [--listener]
                                   [--pool] [--member]
                                   [--healthmonitor]
                                   <project>
```

Clear quota settings

Table 50.254. Positional Arguments

Value	Summary
None	None

Table 50.255. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--loadbalancer	Reset the load balancer quota to the default.
--listener	Reset the listener quota to the default.
--pool	Reset the pool quota to the default.
--member	Reset the member quota to the default.
--healthmonitor	Reset the health monitor quota to the default. This command is provided by the python-octaviaclient plugin.

50.65. LOADBALANCER SET

Usage:

```
openstack loadbalancer set [-h] [--name <name>]
                        [--description <description>]
                        [--vip-qos-policy-id <vip_qos_policy_id>]
                        [--enable | --disable]
                        <load_balancer>
```

Update a load balancer

Table 50.256. Positional Arguments

Value	Summary
None	None

Table 50.257. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set load balancer name.
--description <description>	Set load balancer description.
--vip-qos-policy-id <vip_qos_policy_id>	Set qos policy id for vip port. unset with <i>none</i> .
--enable	Enable load balancer.
--disable	Disable load balancer. This command is provided by the python-octaviaclient plugin.

50.66. LOADBALANCER SHOW

Usage:

```
openstack loadbalancer show [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty]
                           <load_balancer>
```

Show the details for a single load balancer

Table 50.258. Positional Arguments

Value	Summary
None	None

Table 50.259. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.260. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.261. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.262. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.263. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-octaviaclient</code> plugin.

50.67. LOADBALANCER STATS SHOW

Usage:

```

openstack loadbalancer stats show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <load_balancer>

```

Shows the current statistics for a load balancer

Table 50.264. Positional Arguments

Value	Summary
None	None

Table 50.265. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 50.266. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.267. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.268. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.269. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-octaviaclient plugin.

50.68. LOADBALANCER STATUS SHOW

Usage:

```
openstack loadbalancer status show [-h] <load_balancer>
```

Display load balancer status tree in json format

Table 50.270. Positional Arguments

Value	Summary
None	None

Table 50.271. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-octaviaclient plugin.

50.69. LOADBALANCER UNSET

Usage:

```
openstack loadbalancer unset [-h] [--name] [--description]
                             [--vip-qos-policy-id]
                             <load_balancer>
```

Clear load balancer settings

Table 50.272. Positional Arguments

Value	Summary
None	None

Table 50.273. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Clear the load balancer name.
--description	Clear the load balancer description.
--vip-qos-policy-id	Clear the load balancer qos policy. This command is provided by the python-octaviaclient plugin.

CHAPTER 51. MAPPING

This chapter describes the commands under the **mapping** command.

51.1. MAPPING CREATE

Usage:

```
openstack mapping create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] --rules <filename>
                        <name>
```

Create new mapping

Table 51.1. Positional Arguments

Value	Summary
None	None

Table 51.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--rules <filename>	Filename that contains a set of mapping rules (required)

Table 51.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 51.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 51.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 51.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

51.2. MAPPING DELETE

Usage:

```
openstack mapping delete [-h] <mapping> [<mapping> ...]
```

Delete mapping(s)

Table 51.7. Positional Arguments

Value	Summary
None	None

Table 51.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

51.3. MAPPING LIST

Usage:

```
openstack mapping list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
```


Value	Summary
--print-empty	Print empty table if there is no data to show.

51.4. MAPPING SET

Usage:

```
openstack mapping set [-h] [--rules <filename>] <name>
```

Set mapping properties

Table 51.14. Positional Arguments

Value	Summary
None	None

Table 51.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--rules <filename>	Filename that contains a new set of mapping rules

51.5. MAPPING SHOW

Usage:

```
openstack mapping show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <mapping>
```

Display mapping details

Table 51.16. Positional Arguments

Value	Summary
None	None

Table 51.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 51.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 51.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 51.20. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 51.21. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 52. MESSAGING

This chapter describes the commands under the **messaging** command.

52.1. MESSAGING CLAIM CREATE

Usage:

```
openstack messaging claim create [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--ttl <ttl>] [--grace <grace>]
                                [--limit <limit>]
                                <queue_name>
```

Create claim and return a list of claimed messages

Table 52.1. Positional Arguments

Value	Summary
None	None

Table 52.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--ttl <ttl>	Time to live in seconds for claim
--grace <grace>	The message grace period in seconds
--limit <limit>	Claims a set of messages, up to limit

Table 52.3. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.4. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.5. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.2. MESSAGING CLAIM QUERY

Usage:

```
openstack messaging claim query [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               <queue_name> <claim_id>
```

Display claim details

Table 52.7. Positional Arguments

Value	Summary
None	None

Table 52.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.9. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.10. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.11. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.12. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.3. MESSAGING CLAIM RELEASE

Usage:

```
openstack messaging claim release [-h] <queue_name> <claim_id>
```

Delete a claim

Table 52.13. Positional Arguments

Value	Summary
None	None

Table 52.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-zaqarclient plugin.

52.4. MESSAGING CLAIM RENEW

Usage:

```
openstack messaging claim renew [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--ttl <ttl>] [--grace <grace>]
                                <queue_name> <claim_id>
```

Renew a claim

Table 52.15. Positional Arguments

Value	Summary
None	None

Table 52.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--ttl <ttl>	Time to live in seconds for claim
--grace <grace>	The message grace period in seconds

Table 52.17. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.18. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.20. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-zaqarclient</code> plugin.

52.5. MESSAGING FLAVOR CREATE

Usage:

```

openstack messaging flavor create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--pool_list <pool_list>]
                                [--capabilities <capabilities>]
                                <flavor_name>

```

Create a pool flavor

Table 52.21. Positional Arguments

Value	Summary
None	None

Table 52.22. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--pool_list <pool_list></code>	Pool list for flavor
<code>--capabilities <capabilities></code>	Describes flavor-specific capabilities, this option is only available in client api version < 2 .

Table 52.23. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.24. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.25. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.26. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.6. MESSAGING FLAVOR DELETE

Usage:

```
openstack messaging flavor delete [-h] <flavor_name>
```

Delete a pool flavor

Table 52.27. Positional Arguments

Value	Summary
None	None

Table 52.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-zaqarclient plugin.

52.7. MESSAGING FLAVOR LIST

Usage:

```

openstack messaging flavor list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--marker <flavor_name>]
                                [--limit <limit>] [--detailed]

```

List available pool flavors

Table 52.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker <flavor_name>	Flavor's paging marker
--limit <limit>	Page size limit
--detailed	If show detailed capabilities of flavor

Table 52.30. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.31. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.32. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.33. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.8. MESSAGING FLAVOR SHOW

Usage:

```

openstack messaging flavor show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <flavor_name>

```

Display pool flavor details

Table 52.34. Positional Arguments

Value	Summary
None	None

Table 52.35. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.36. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.37. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.38. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.39. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-zaqarclient</code> plugin.

52.9. MESSAGING FLAVOR UPDATE

Usage:

```

openstack messaging flavor update [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--pool_list <pool_list>]
                                [--capabilities <capabilities>]
                                <flavor_name>

```

Update a flavor's attributes

Table 52.40. Positional Arguments

Value	Summary
None	None

Table 52.41. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--pool_list <pool_list></code>	Pool list the flavor sits on
<code>--capabilities <capabilities></code>	Describes flavor-specific capabilities.

Table 52.42. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.43. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.44. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.45. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.10. MESSAGING HEALTH

Usage:

```
openstack messaging health [-h]
```

Display detailed health status of Zaqar server

Table 52.46. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-zaqarclient plugin.

52.11. MESSAGING HOMEDOC

Usage:

```
openstack messaging homedoc [-h]

Display detailed resource doc of Zaqr server
```

Table 52.47. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-zaqarclient plugin.

52.12. MESSAGING MESSAGE LIST

Usage:

```
openstack messaging message list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--message-ids <message_ids>]
                                [--limit <limit>] [--echo]
                                [--include-claimed]
                                [--include-delayed]
                                [--client-id <client_id>]
                                <queue_name>
```

List all messages for a given queue

Table 52.48. Positional Arguments

Value	Summary
None	None

Table 52.49. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--message-ids <message_ids>	List of messages' ids to retrieve
--limit <limit>	Maximum number of messages to get

Value	Summary
<code>--echo</code>	Whether to get this client's own messages
<code>--include-claimed</code>	Whether to include claimed messages
<code>--include-delayed</code>	Whether to include delayed messages
<code>--client-id <client_id></code>	A uuid for each client instance.

Table 52.50. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.51. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.52. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.53. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.13. MESSAGING MESSAGE POST

Usage:

```
openstack messaging message post [-h] [--client-id <client_id>]
                                <queue_name> <messages>
```

Post messages for a given queue

Table 52.54. Positional Arguments

Value	Summary
None	None

Table 52.55. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--client-id <client_id></code>	A uuid for each client instance. This command is provided by the python-zaqarclient plugin.

52.14. MESSAGING PING

Usage:

```
openstack messaging ping [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty]
```

Check if Zaqar server is alive or not

Table 52.56. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.57. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.58. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.59. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.60. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.15. MESSAGING POOL CREATE

Usage:

```
openstack messaging pool create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--flavor <flavor>]
                                [--pool_options <pool_options>]
                                <pool_name> <pool_uri> <pool_weight>
```

Create a pool

Table 52.61. Positional Arguments

Value	Summary
None	None

Table 52.62. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--flavor <flavor>	Flavor of the pool
--pool_options <pool_options>	An optional request component related to storage-specific options

Table 52.63. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.64. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.65. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.66. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.16. MESSAGING POOL DELETE

Usage:

```
openstack messaging pool delete [-h] <pool_name>
```

Delete a pool

Table 52.67. Positional Arguments

Value	Summary
None	None

Table 52.68. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-zaqarclient plugin.

52.17. MESSAGING POOL LIST

Usage:

```
openstack messaging pool list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker <pool_name>] [--limit <limit>]
                             [--detailed]
```

List available Pools

Table 52.69. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker <pool_name>	Pool's paging marker
--limit <limit>	Page size limit
--detailed	Detailed output

Table 52.70. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.71. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.72. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.73. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.18. MESSAGING POOL SHOW

Usage:

```
openstack messaging pool show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             <pool_name>
```

Display pool details

Table 52.74. Positional Arguments

Value	Summary
None	None

Table 52.75. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.76. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.77. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.78. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.79. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.19. MESSAGING POOL UPDATE

Usage:

```

openstack messaging pool update [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--pool_uri <pool_uri>]
                                [--pool_weight <pool_weight>]
                                [--flavor <flavor>]
                                [--pool_options <pool_options>]
                                <pool_name>

```

Update a pool attribute

Table 52.80. Positional Arguments

Value	Summary
None	None

Table 52.81. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--pool_uri <pool_uri>	Storage engine uri
--pool_weight <pool_weight>	Weight of the pool
--flavor <flavor>	Flavor of the pool
--pool_options <pool_options>	An optional request component related to storage-specific options

Table 52.82. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.83. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.84. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.85. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-zaqarclient</code> plugin.

52.20. MESSAGING QUEUE CREATE

Usage:

```

openstack messaging queue create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <queue_name>

```

Create a queue

Table 52.86. Positional Arguments

Value	Summary
None	None

Table 52.87. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.88. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.89. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.90. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.91. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-zaqarclient</code> plugin.

52.21. MESSAGING QUEUE DELETE

Usage:

```
openstack messaging queue delete [-h] <queue_name>
```

Delete a queue

Table 52.92. Positional Arguments

Value	Summary
None	None

Table 52.93. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-zaqarclient</code> plugin.

52.22. MESSAGING QUEUE GET METADATA

Usage:

```
openstack messaging queue get metadata [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <queue_name>
```

Get queue metadata

Table 52.94. Positional Arguments

Value	Summary
None	None

Table 52.95. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.96. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.97. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.98. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.99. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-zaqarclient</code> plugin.

52.23. MESSAGING QUEUE LIST

Usage:

```

openstack messaging queue list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--marker <queue_id>] [--limit <limit>]
                               [--detailed]

```

List available queues

Table 52.100. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--marker <queue_id></code>	Queue's paging marker
<code>--limit <limit></code>	Page size limit
<code>--detailed</code>	If show detailed information of queue

Table 52.101. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.102. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.103. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.104. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.24. MESSAGING QUEUE PURGE

Usage:

```
openstack messaging queue purge [-h]
                                [--resource_types <resource_types>]
                                <queue_name>
```

Purge a queue

Table 52.105. Positional Arguments

Value	Summary
None	None

Table 52.106. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource_types <resource_types>	Resource types want to be purged. This command is provided by the python-zaqarclient plugin.

52.25. MESSAGING QUEUE SET METADATA

Usage:

```
openstack messaging queue set metadata [-h]
                                     <queue_name> <queue_metadata>
```

Set queue metadata

Table 52.107. Positional Arguments

Value	Summary
None	None

Table 52.108. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-zaqarclient plugin.

52.26. MESSAGING QUEUE SIGNED URL

Usage:

```
openstack messaging queue signed url [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--paths <paths>]
```

```
[--ttl-seconds <ttl_seconds>]
[--methods <methods>]
<queue_name>
```

Create a pre-signed url

Table 52.109. Positional Arguments

Value	Summary
None	None

Table 52.110. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--paths <paths>	Allowed paths in a comma-separated list. options: messages, subscriptions, claims
--ttl-seconds <ttl_seconds>	Length of time (in seconds) until the signature expires
--methods <methods>	Http methods to allow as a comma-separated list. Options: GET, HEAD, OPTIONS, POST, PUT, DELETE

Table 52.111. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.112. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.113. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.114. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.27. MESSAGING QUEUE STATS

Usage:

```

openstack messaging queue stats [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <queue_name>

```

Get queue stats

Table 52.115. Positional Arguments

Value	Summary
None	None

Table 52.116. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.117. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.118. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.119. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.120. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.28. MESSAGING SUBSCRIPTION CREATE

Usage:

```

openstack messaging subscription create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--options <options>]
                                     <queue_name> <subscriber> <ttl>

```


Create a subscription for queue

Table 52.121. Positional Arguments

Value	Summary
None	None

Table 52.122. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--options <options>	Metadata of the subscription in json format

Table 52.123. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.124. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.125. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.126. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.29. MESSAGING SUBSCRIPTION DELETE

Usage:

```
openstack messaging subscription delete [-h]
                                     <queue_name> <subscription_id>
```

Delete a subscription

Table 52.127. Positional Arguments

Value	Summary
None	None

Table 52.128. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-zaqarclient plugin.

52.30. MESSAGING SUBSCRIPTION LIST

Usage:

```
openstack messaging subscription list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

```

[--marker <subscription_id>]
[--limit <limit>]
<queue_name>

```

List available subscriptions

Table 52.129. Positional Arguments

Value	Summary
None	None

Table 52.130. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker <subscription_id>	Subscription's paging marker, the id of the last subscription of the previous page
--limit <limit>	Page size limit, default value is 20

Table 52.131. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.132. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.133. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.134. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-zaqarclient</code> plugin.

52.31. MESSAGING SUBSCRIPTION SHOW

Usage:

```

openstack messaging subscription show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <queue_name> <subscription_id>

```

Display subscription details

Table 52.135. Positional Arguments

Value	Summary
None	None

Table 52.136. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.137. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.138. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.139. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.140. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

52.32. MESSAGING SUBSCRIPTION UPDATE

Usage:

```

openstack messaging subscription update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--subscriber <subscriber>]
                                     [--ttl <ttl>]
                                     [--options <options>]
                                     <queue_name> <subscription_id>

```

Update a subscription

Table 52.141. Positional Arguments

Value	Summary
None	None

Table 52.142. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--subscriber <subscriber>	Subscriber which will be notified
--ttl <ttl>	Time to live of the subscription in seconds
--options <options>	Metadata of the subscription in json format

Table 52.143. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.144. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.145. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.146. Table Formatter

Value	Summary

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-zaqarclient plugin.

CHAPTER 53. METRIC

This chapter describes the commands under the **metric** command.

53.1. METRIC AGGREGATES

Usage:

```
openstack metric aggregates [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--resource-type RESOURCE_TYPE]
                             [--start START] [--stop STOP]
                             [--granularity GRANULARITY]
                             [--needed-overlap NEEDED_OVERLAP]
                             [--groupby GROUPBY] [--fill FILL]
                             operations [search]
```

Get measurements of aggregated metrics.

Table 53.1. Positional Arguments

Value	Summary
None	None

Table 53.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-type RESOURCE_TYPE	Resource type to query
--start START	Beginning of the period
--stop STOP	End of the period
--granularity GRANULARITY	Granularity to retrieve
--needed-overlap NEEDED_OVERLAP	Percentage of overlap across datapoints
--groupby GROUPBY	Attribute to use to group resources

Value	Summary
<code>--fill FILL</code>	Value to use when backfilling timestamps with missing values in a subset of series. Value should be a float or <i>null</i> .

Table 53.3. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.4. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 53.5. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchiclient</code> plugin.

53.2. METRIC ARCHIVE-POLICY CREATE

Usage:

```
openstack metric archive-policy create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty] -d
                                     <DEFINITION> [-b BACK_WINDOW]
                                     [-m AGGREGATION_METHODS]
                                     name
```

Create an archive policy.

Table 53.7. Positional Arguments

Value	Summary
None	None

Table 53.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-d <DEFINITION>, --definition <DEFINITION>	Two attributes (separated by ,) of an archive policy definition with its name and value separated with a :
-b BACK_WINDOW, --back-window BACK_WINDOW	Back window of the archive policy
-m AGGREGATION_METHODS, --aggregation-method AGGREGATION_METHODS	Aggregation method of the archive policy

Table 53.9. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.10. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.11. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.12. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.3. METRIC ARCHIVE-POLICY DELETE

Usage:

```
openstack metric archive-policy delete [-h] name
```

Delete an archive policy.

Table 53.13. Positional Arguments

Value	Summary
None	None

Table 53.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the gnocchiclient plugin.

53.4. METRIC ARCHIVE-POLICY LIST

Usage:

```
openstack metric archive-policy list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
```

List archive policies.

Table 53.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 53.16. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.17. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 53.18. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchiclient</code> plugin.

53.5. METRIC ARCHIVE-POLICY-RULE CREATE

Usage:

```
openstack metric archive-policy-rule create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty] -a
ARCHIVE_POLICY_NAME -m
METRIC_PATTERN
name
```

Create an archive policy rule.

Table 53.20. Positional Arguments

Value	Summary
None	None

Table 53.21. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-a ARCHIVE_POLICY_NAME, --archive-policy-name ARCHIVE_POLICY_NAME</code>	Archive policy name
<code>-m METRIC_PATTERN, --metric-pattern METRIC_PATTERN</code>	Wildcard of metric name to match

Table 53.22. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.23. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.24. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.6. METRIC ARCHIVE-POLICY-RULE DELETE

Usage:

```
openstack metric archive-policy-rule delete [-h] name
```

Delete an archive policy rule.

Table 53.26. Positional Arguments

Value	Summary
None	None

Table 53.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the gnocchiclient plugin.

53.7. METRIC ARCHIVE-POLICY-RULE LIST

Usage:

```

openstack metric archive-policy-rule list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]

```

List archive policy rules.

Table 53.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 53.29. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.30. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 53.31. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.32. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.8. METRIC ARCHIVE-POLICY-RULE SHOW

Usage:

```
openstack metric archive-policy-rule show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         name
```

Show an archive policy rule.

Table 53.33. Positional Arguments

Value	Summary
None	None

Table 53.34. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 53.35. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.36. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.37. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.38. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.9. METRIC ARCHIVE-POLICY SHOW

Usage:

```
openstack metric archive-policy show [-h]
                                   [-f {json,shell,table,value,yaml}]
```

```
[-c COLUMN] [--noindent]  
[--prefix PREFIX]  
[--max-width <integer>]  
[--fit-width] [--print-empty]  
name
```

Show an archive policy.

Table 53.39. Positional Arguments

Value	Summary
None	None

Table 53.40. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 53.41. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.42. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.43. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.44. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.10. METRIC ARCHIVE-POLICY UPDATE

Usage:

```
openstack metric archive-policy update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty] -d
                                     <DEFINITION>
                                     name
```

Update an archive policy.

Table 53.45. Positional Arguments

Value	Summary
None	None

Table 53.46. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-d <DEFINITION>, --definition <DEFINITION></code>	Two attributes (separated by ,) of an archive policy definition with its name and value separated with a :

Table 53.47. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.48. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.49. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.50. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.11. METRIC BENCHMARK MEASURES ADD

Usage:

```

openstack metric benchmark measures add [-h]
                                         [--resource-id RESOURCE_ID]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--workers WORKERS] --count
                                         COUNT [--batch BATCH]
                                         [--timestamp-start TIMESTAMP_START]

```

```

[--timestamp-end TIMESTAMP_END]
[--wait]
metric

```

Do benchmark testing of adding measurements.

Table 53.51. Positional Arguments

Value	Summary
None	None

Table 53.52. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--workers WORKERS, -w WORKERS	Number of workers to use
--count COUNT, -n COUNT	Number of total measures to send
--batch BATCH, -b BATCH	Number of measures to send in each batch
--timestamp-start TIMESTAMP_START, -s TIMESTAMP_START	First timestamp to use
--timestamp-end TIMESTAMP_END, -e TIMESTAMP_END	Last timestamp to use
--wait	Wait for all measures to be processed

Table 53.53. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.54. JSON Formatter

Value	Summary

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.55. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.56. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.12. METRIC BENCHMARK MEASURES SHOW

Usage:

```
openstack metric benchmark measures show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--utc]
                                         [--resource-id RESOURCE_ID]
                                         [--aggregation AGGREGATION]
                                         [--start START] [--stop STOP]
                                         [--granularity GRANULARITY]
                                         [--refresh]
                                         [--resample RESAMPLE]
                                         [--workers WORKERS] --count
                                         COUNT
                                         metric
```

Do benchmark testing of measurements show.

Table 53.57. Positional Arguments

Value	Summary
None	None

Table 53.58. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--utc	Return timestamps as utc
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--aggregation AGGREGATION	Aggregation to retrieve
--start START	Beginning of the period
--stop STOP	End of the period
--granularity GRANULARITY	Granularity to retrieve
--refresh	Force aggregation of all known measures
--resample RESAMPLE	Granularity to resample time-series to (in seconds)
--workers WORKERS, -w WORKERS	Number of workers to use
--count COUNT, -n COUNT	Number of total measures to send

Table 53.59. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.60. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.61. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.62. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.13. METRIC BENCHMARK METRIC CREATE

Usage:

```

openstack metric benchmark metric create [-h]
                                         [--resource-id RESOURCE_ID]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--archive-policy-name ARCHIVE_POLICY_NAME]
                                         [--workers WORKERS] --count
                                         COUNT [--keep]

```

Do benchmark testing of metric creation.

Table 53.63. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME	Name of the archive policy
--workers WORKERS, -w WORKERS	Number of workers to use
--count COUNT, -n COUNT	Number of metrics to create
--keep, -k	Keep created metrics

Table 53.64. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.65. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.66. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.67. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchiclient</code> plugin.

53.14. METRIC BENCHMARK METRIC SHOW

Usage:

```

openstack metric benchmark metric show [-h] [--resource-id RESOURCE_ID]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--workers WORKERS] --count
                                         COUNT
                                         metric [metric ...]

```

Do benchmark testing of metric show.

Table 53.68. Positional Arguments

Value	Summary
None	None

Table 53.69. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--resource-id RESOURCE_ID, -r RESOURCE_ID</code>	Id of the resource
<code>--workers WORKERS, -w WORKERS</code>	Number of workers to use
<code>--count COUNT, -n COUNT</code>	Number of metrics to get

Table 53.70. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.71. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.72. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.73. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.15. METRIC CAPABILITIES LIST

Usage:

```

openstack metric capabilities list [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]

```

List capabilities.

Table 53.74. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 53.75. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.76. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.77. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.78. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.16. METRIC CREATE

Usage:

```
openstack metric create [-h] [--resource-id RESOURCE_ID]
                        [-f {json,shell,table,value,yaml}] [-c COLUMN]
```

```

[--noindent] [--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
[--archive-policy-name ARCHIVE_POLICY_NAME]
[--unit UNIT]
[METRIC_NAME]

```

Create a metric.

Table 53.79. Positional Arguments

Value	Summary
None	None

Table 53.80. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME	Name of the archive policy
--unit UNIT, -u UNIT	Unit of the metric

Table 53.81. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.82. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.83. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.84. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.17. METRIC DELETE

Usage:

```
openstack metric delete [-h] [--resource-id RESOURCE_ID]
                        metric [metric ...]
```

Delete a metric.

Table 53.85. Positional Arguments

Value	Summary
None	None

Table 53.86. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource This command is provided by the gnocchiclient plugin.

53.18. METRIC LIST

Usage:

```

openstack metric list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--limit <LIMIT>]
                        [--marker <MARKER>] [--sort <SORT>]

```

List metrics.

Table 53.87. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <LIMIT>	Number of metrics to return (default is server default)
--marker <MARKER>	Last item of the previous listing. return the next results after this value
--sort <SORT>	Sort of metric attribute (example: user_id:desc-nullslast)

Table 53.88. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.89. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 53.90. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.91. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.19. METRIC MEASURES ADD

Usage:

```
openstack metric measures add [-h] [--resource-id RESOURCE_ID] -m
                             MEASURE
                             metric
```

Add measurements to a metric.

Table 53.92. Positional Arguments

Value	Summary
None	None

Table 53.93. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
-m MEASURE, --measure MEASURE	Timestamp and value of a measure separated with a @ This command is provided by the gnocchiclient plugin.

53.20. METRIC MEASURES AGGREGATION

Usage:

```
openstack metric measures aggregation [-h]
```



```

[-f {csv,json,table,value,yaml}]
[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--utc] -m METRIC [METRIC ...]
[--aggregation AGGREGATION]
[--reaggregation REAGGREGATION]
[--start START] [--stop STOP]
[--granularity GRANULARITY]
[--needed-overlap NEEDED_OVERLAP]
[--query QUERY]
[--resource-type RESOURCE_TYPE]
[--groupby GROUPBY] [--refresh]
[--resample RESAMPLE]
[--fill FILL]

```

Get measurements of aggregated metrics.

Table 53.94. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--utc	Return timestamps as utc
-m METRIC [METRIC ...], --metric METRIC [METRIC ...]	Metrics ids or metric name
--aggregation AGGREGATION	Granularity aggregation function to retrieve
--reaggregation REAGGREGATION	Groupby aggregation function to retrieve
--start START	Beginning of the period
--stop STOP	End of the period
--granularity GRANULARITY	Granularity to retrieve
--needed-overlap NEEDED_OVERLAP	Percent of datapoints in each metrics required

Value	Summary
--query QUERY	A query to filter resource. the syntax is a combination of attribute, operator and value. For example: id=90d58eea-70d7-4294-a49a-170dcdf44c3c would filter resource with a certain id. More complex queries can be built, e.g.: not (flavor_id!="1" and memory>=24). Use "" to force data to be interpreted as string. Supported operators are: not, and, $\wedge$ or, $\vee$, >=, <=, !=, >, <, =, ==, eq, ne, lt, gt, ge, le, in, like, $\neq$, $\geq$, $\leq$, like, in.
--resource-type RESOURCE_TYPE	Resource type to query
--groupby GROUPBY	Attribute to use to group resources
--refresh	Force aggregation of all known measures
--resample RESAMPLE	Granularity to resample time-series to (in seconds)
--fill FILL	Value to use when backfilling timestamps with missing values in a subset of series. Value should be a float or <i>null</i> .

Table 53.95. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.96. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 53.97. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.98. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.21. METRIC MEASURES BATCH-METRICS

Usage:

```
openstack metric measures batch-metrics [-h] file
```

Table 53.99. Positional Arguments

Value	Summary
None	None

Table 53.100. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the gnocchiclient plugin.

53.22. METRIC MEASURES BATCH-RESOURCES-METRICS

Usage:

```
openstack metric measures batch-resources-metrics [-h]
                                                    [--create-metrics]
                                                    file
```

Table 53.101. Positional Arguments

Value	Summary
None	None

Table 53.102. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--create-metrics	Create unknown metrics This command is provided by the gnocchiclient plugin.

53.23. METRIC MEASURES SHOW

Usage:

```

openstack metric measures show [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] [--utc]
                               [--resource-id RESOURCE_ID]
                               [--aggregation AGGREGATION]
                               [--start START] [--stop STOP]
                               [--granularity GRANULARITY] [--refresh]
                               [--resample RESAMPLE]
                               metric

```

Get measurements of a metric.

Table 53.103. Positional Arguments

Value	Summary
None	None

Table 53.104. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--utc	Return timestamps as utc
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource

Value	Summary
--aggregation AGGREGATION	Aggregation to retrieve
--start START	Beginning of the period
--stop STOP	End of the period
--granularity GRANULARITY	Granularity to retrieve
--refresh	Force aggregation of all known measures
--resample RESAMPLE	Granularity to resample time-series to (in seconds)

Table 53.105. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.106. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 53.107. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.108. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchclient</code> plugin.

53.24. METRIC METRIC CREATE

Usage:

```

openstack metric metric create [-h] [--resource-id RESOURCE_ID]
                               [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--archive-policy-name ARCHIVE_POLICY_NAME]
                               [--unit UNIT]
                               [METRIC_NAME]

```

Deprecated: Create a metric.

Table 53.109. Positional Arguments

Value	Summary
None	None

Table 53.110. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--resource-id RESOURCE_ID, -r RESOURCE_ID</code>	Id of the resource
<code>--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME</code>	Name of the archive policy
<code>--unit UNIT, -u UNIT</code>	Unit of the metric

Table 53.111. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.112. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.113. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.114. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.25. METRIC METRIC DELETE

Usage:

```
openstack metric metric delete [-h] [--resource-id RESOURCE_ID]
                               metric [metric ...]
```

Deprecated: Delete a metric.

Table 53.115. Positional Arguments

Value	Summary
None	None

Table 53.116. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource This command is provided by the gnocchiclient plugin.

53.26. METRIC METRIC LIST

Usage:

```

openstack metric metric list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--limit <LIMIT>] [--marker <MARKER>]
                             [--sort <SORT>]

```

Deprecated: List metrics.

Table 53.117. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <LIMIT>	Number of metrics to return (default is server default)
--marker <MARKER>	Last item of the previous listing. return the next results after this value
--sort <SORT>	Sort of metric attribute (example: user_id:desc-nullslast

Table 53.118. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.119. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 53.120. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.121. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.27. METRIC METRIC SHOW

Usage:

```
openstack metric metric show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
```

```

--print-empty]
--resource-id RESOURCE_ID]
metric
```

Deprecated: Show a metric.

Table 53.122. Positional Arguments

Value	Summary
None	None

Table 53.123. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource

Table 53.124. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.125. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.126. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.127. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchclient</code> plugin.

53.28. METRIC RESOURCE BATCH DELETE

Usage:

```

openstack metric resource batch delete [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--type RESOURCE_TYPE]
                                     query

```

Delete a batch of resources based on attribute values.

Table 53.128. Positional Arguments

Value	Summary
None	None

Table 53.129. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type RESOURCE_TYPE, -t RESOURCE_TYPE</code>	Type of resource

Table 53.130. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.131. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.132. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.133. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.29. METRIC RESOURCE CREATE

Usage:

```

openstack metric resource create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--type RESOURCE_TYPE]
                                [-a ATTRIBUTE] [-m ADD_METRIC]
                                [-n CREATE_METRIC]
                                resource_id

```

Create a resource.

Table 53.134. Positional Arguments

Value	Summary
None	None

Table 53.135. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource
-a ATTRIBUTE, --attribute ATTRIBUTE	Name and value of an attribute separated with a :
-m ADD_METRIC, --add-metric ADD_METRIC	Name:id of a metric to add
-n CREATE_METRIC, --create-metric CREATE_METRIC	Name:archive_policy_name of a metric to create

Table 53.136. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.137. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.138. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.139. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.30. METRIC RESOURCE DELETE

Usage:

```
openstack metric resource delete [-h] resource_id
```

Delete a resource.

Table 53.140. Positional Arguments

Value	Summary
None	None

Table 53.141. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the gnocchiclient plugin.

53.31. METRIC RESOURCE HISTORY

Usage:

```
openstack metric resource history [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--details] [--limit <LIMIT>]
                                [--marker <MARKER>] [--sort <SORT>]
                                [--type RESOURCE_TYPE]
                                resource_id
```

Show the history of a resource.

Table 53.142. Positional Arguments

Value	Summary
None	None

Table 53.143. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--details	Show all attributes of generic resources
--limit <LIMIT>	Number of resources to return (default is server default)
--marker <MARKER>	Last item of the previous listing. return the next results after this value
--sort <SORT>	Sort of resource attribute (example: user_id:desc-nullslast)
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource

Table 53.144. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.145. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 53.146. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.147. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.32. METRIC RESOURCE LIST

Usage:

```

openstack metric resource list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] [--details]
                               [--history] [--limit <LIMIT>]
                               [--marker <MARKER>] [--sort <SORT>]
                               [--type RESOURCE_TYPE]

```

List resources.

Table 53.148. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--details</code>	Show all attributes of generic resources
<code>--history</code>	Show history of the resources
<code>--limit <LIMIT></code>	Number of resources to return (default is server default)

Value	Summary
--marker <MARKER>	Last item of the previous listing. return the next results after this value
--sort <SORT>	Sort of resource attribute (example: user_id:desc-nullslast)
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource

Table 53.149. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.150. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 53.151. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.152. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchiclient</code> plugin.

53.33. METRIC RESOURCE SEARCH

Usage:

```

openstack metric resource search [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--details] [--history]
                                [--limit <LIMIT>] [--marker <MARKER>]
                                [--sort <SORT>] [--type RESOURCE_TYPE]
                                query

```

Search resources with specified query rules.

Table 53.153. Positional Arguments

Value	Summary
None	None

Table 53.154. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--details</code>	Show all attributes of generic resources
<code>--history</code>	Show history of the resources
<code>--limit <LIMIT></code>	Number of resources to return (default is server default)
<code>--marker <MARKER></code>	Last item of the previous listing. return the next results after this value

Value	Summary
<code>--sort <SORT></code>	Sort of resource attribute (example: <code>user_id:desc-nullslast</code>)
<code>--type RESOURCE_TYPE, -t RESOURCE_TYPE</code>	Type of resource

Table 53.155. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.156. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 53.157. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.158. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchiclient</code> plugin.

53.34. METRIC RESOURCE SHOW

Usage:

```

openstack metric resource show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--type RESOURCE_TYPE]
                               resource_id

```

Show a resource.

Table 53.159. Positional Arguments

Value	Summary
None	None

Table 53.160. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type RESOURCE_TYPE, -t RESOURCE_TYPE</code>	Type of resource

Table 53.161. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.162. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.163. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.164. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.35. METRIC RESOURCE-TYPE CREATE

Usage:

```

openstack metric resource-type create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [-a ATTRIBUTE]
                                     name

```

Create a resource type.

Table 53.165. Positional Arguments

Value	Summary
None	None

Table 53.166. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
-a ATTRIBUTE, --attribute ATTRIBUTE	Attribute definition, attribute_name:attribute_type:attribute_is_required:attribute_type_option_name=attribute_type_option_value:... For example: display_name:string:true:max_length=255

Table 53.167. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.168. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.169. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.170. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.36. METRIC RESOURCE-TYPE DELETE

Usage:

```
openstack metric resource-type delete [-h] name
```

Delete a resource type.

Table 53.171. Positional Arguments

Value	Summary
None	None

Table 53.172. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the gnocchiclient plugin.

53.37. METRIC RESOURCE-TYPE LIST

Usage:

```
openstack metric resource-type list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
```

List resource types.

Table 53.173. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 53.174. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.175. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 53.176. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.177. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.38. METRIC RESOURCE-TYPE SHOW

Usage:

```

openstack metric resource-type show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     name

```

Show a resource type.

Table 53.178. Positional Arguments

Value	Summary
None	None

Table 53.179. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 53.180. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.181. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.182. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.183. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.39. METRIC RESOURCE-TYPE UPDATE

Usage:

```
openstack metric resource-type update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [-a ATTRIBUTE]
                                     [-r REMOVE_ATTRIBUTE]
                                     name
```

Create a resource type.

Table 53.184. Positional Arguments

Value	Summary
None	None

Table 53.185. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-a ATTRIBUTE, --attribute ATTRIBUTE	Attribute definition, attribute_name:attribute_type:attribute_is_required:attribute_type_option_name=attribute_type_option_value:... For example: display_name:string:true:max_length=255
-r REMOVE_ATTRIBUTE, --remove-attribute REMOVE_ATTRIBUTE	Attribute name

Table 53.186. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.187. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.188. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.189. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.40. METRIC RESOURCE UPDATE

Usage:

```

openstack metric resource update [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--type RESOURCE_TYPE]
                                [-a ATTRIBUTE] [-m ADD_METRIC]
                                [-n CREATE_METRIC] [-d DELETE_METRIC]
                                resource_id

```

Update a resource.

Table 53.190. Positional Arguments

Value	Summary
None	None

Table 53.191. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource
-a ATTRIBUTE, --attribute ATTRIBUTE	Name and value of an attribute separated with a :
-m ADD_METRIC, --add-metric ADD_METRIC	Name:id of a metric to add
-n CREATE_METRIC, --create-metric CREATE_METRIC	Name:archive_policy_name of a metric to create
-d DELETE_METRIC, --delete-metric DELETE_METRIC	Name of a metric to delete

Table 53.192. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.193. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.194. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.195. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.41. METRIC SERVER VERSION

Usage:

```

openstack metric server version [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]

```

Show the version of Gnocchi server.

Table 53.196. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 53.197. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.198. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.199. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.200. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>gnocchiclient</code> plugin.

53.42. METRIC SHOW

Usage:

```

openstack metric show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--resource-id RESOURCE_ID]
                    metric

```

Show a metric.

Table 53.201. Positional Arguments

Value	Summary
None	None

Table 53.202. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--resource-id RESOURCE_ID, -r RESOURCE_ID</code>	Id of the resource

Table 53.203. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.204. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.205. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.206. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

53.43. METRIC STATUS

Usage:

```
openstack metric status [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
```

Show the status of measurements processing.

Table 53.207. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 53.208. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 53.209. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.210. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 53.211. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the gnocchiclient plugin.

CHAPTER 54. MODULE

This chapter describes the commands under the **module** command.

54.1. MODULE LIST

Usage:

```

openstack module list [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--all]
```

List module versions

Table 54.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all	Show all modules that have version information

Table 54.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 54.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 54.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 54.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 55. NETWORK

This chapter describes the commands under the **network** command.

55.1. NETWORK AGENT ADD NETWORK

Usage:

```
openstack network agent add network [-h] [--dhcp] <agent-id> <network>
```

Add network to an agent

Table 55.1. Positional Arguments

Value	Summary
None	None

Table 55.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--dhcp	Add network to a dhcp agent

55.2. NETWORK AGENT ADD ROUTER

Usage:

```
openstack network agent add router [-h] [--l3] <agent-id> <router>
```

Add router to an agent

Table 55.3. Positional Arguments

Value	Summary
None	None

Table 55.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--l3	Add router to an l3 agent

55.3. NETWORK AGENT DELETE

Usage:

```
openstack network agent delete [-h]
                               <network-agent> [<network-agent> ...]
```

Delete network agent(s)

Table 55.5. Positional Arguments

Value	Summary
None	None

Table 55.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.4. NETWORK AGENT LIST

Usage:

```
openstack network agent list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--agent-type <agent-type>]
                             [--host <host>]
                             [--network <network> | --router <router>]
                             [--long]
```

List network agents

Table 55.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--agent-type <agent-type>	List only agents with the specified agent type. the supported agent types are: bgp, dhcp, open-vswitch, linux-bridge, ofa, l3, loadbalancer, metering, metadata, macvtap, nic.

Value	Summary
<code>--host <host></code>	List only agents running on the specified host
<code>--network <network></code>	List agents hosting a network (name or id)
<code>--router <router></code>	List agents hosting this router (name or id)
<code>--long</code>	List additional fields in output

Table 55.8. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.9. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.10. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.11. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

55.5. NETWORK AGENT REMOVE NETWORK

Usage:

```
openstack network agent remove network [-h] [--dhcp]
                                     <agent-id> <network>
```

Remove network from an agent.

Table 55.12. Positional Arguments

Value	Summary
None	None

Table 55.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--dhcp	Remove network from dhcp agent

55.6. NETWORK AGENT REMOVE ROUTER

Usage:

```
openstack network agent remove router [-h] [--l3] <agent-id> <router>
```

Remove router from an agent

Table 55.14. Positional Arguments

Value	Summary
None	None

Table 55.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--l3	Remove router from an l3 agent

55.7. NETWORK AGENT SET

Usage:

```
openstack network agent set [-h] [--description <description>]
                             [--enable | --disable]
                             <network-agent>
```

Set network agent properties

Table 55.16. Positional Arguments

Value	Summary
None	None

Table 55.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Set network agent description
--enable	Enable network agent
--disable	Disable network agent

55.8. NETWORK AGENT SHOW

Usage:

```
openstack network agent show [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--noindent] [--prefix PREFIX]
                              [--max-width <integer>] [--fit-width]
                              [--print-empty]
                              <network-agent>
```

Display network agent details

Table 55.18. Positional Arguments

Value	Summary
None	None

Table 55.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.20. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.21. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.22. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.23. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.9. NETWORK AUTO ALLOCATED TOPOLOGY CREATE

Usage:

```
openstack network auto allocated topology create [-h]
                                                [-f {json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--noindent]
                                                [--prefix PREFIX]
                                                [--max-width <integer>]
                                                [--fit-width]
                                                [--print-empty]
                                                [--project <project>]
                                                [--project-domain <project-domain>]
                                                [--check-resources]
                                                [--or-show]
```

Create the auto allocated topology for project

Table 55.24. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Return the auto allocated topology for a given project. Default is current project
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--check-resources	Validate the requirements for auto allocated topology. Does not return a topology.
--or-show	If topology exists returns the topology's information (Default)

Table 55.25. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.26. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.27. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.28. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.10. NETWORK AUTO ALLOCATED TOPOLOGY DELETE

Usage:

```
openstack network auto allocated topology delete [-h]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
```

Delete auto allocated topology for project

Table 55.29. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--project <project></code>	Delete auto allocated topology for a given project. Default is the current project
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

55.11. NETWORK CREATE

Usage:

```
openstack network create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--share | --no-share]
                        [--enable | --disable] [--project <project>]
                        [--description <description>] [--mtu <mtu>]
                        [--project-domain <project-domain>]
                        [--availability-zone-hint <availability-zone>]
                        [--enable-port-security | --disable-port-security]
                        [--external | --internal]
                        [--default | --no-default]
                        [--qos-policy <qos-policy>]
                        [--transparent-vlan | --no-transparent-vlan]
                        [--provider-network-type <provider-network-type>]
                        [--provider-physical-network <provider-physical-network>]
                        [--provider-segment <provider-segment>]
                        [--dns-domain <dns-domain>]
                        [--tag <tag> | --no-tag]
                        <name>
```

Create new network

Table 55.30. Positional Arguments

Value	Summary
None	None

Table 55.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--share	Share the network between projects
--no-share	Do not share the network between projects
--enable	Enable network (default)
--disable	Disable network
--project <project>	Owner’s project (name or id)
--description <description>	Set network description

Value	Summary
--mtu <mtu>	Set network mtu
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--availability-zone-hint <availability-zone>	Availability zone in which to create this network (Network Availability Zone extension required, repeat option to set multiple availability zones)
--enable-port-security	Enable port security by default for ports created on this network (default)
--disable-port-security	Disable port security by default for ports created on this network
--external	Set this network as an external network (external-net extension required)
--internal	Set this network as an internal network (default)
--default	Specify if this network should be used as the default external network
--no-default	Do not use the network as the default external network (default)
--qos-policy <qos-policy>	Qos policy to attach to this network (name or id)
--transparent-vlan	Make the network vlan transparent
--no-transparent-vlan	Do not make the network vlan transparent
--provider-network-type <provider-network-type>	The physical mechanism by which the virtual network is implemented. For example: flat, geneve, gre, local, vlan, vxlan.
--provider-physical-network <provider-physical-network>	Name of the physical network over which the virtual network is implemented
--provider-segment <provider-segment>	Vlan id for vlan networks or tunnel id for GENEVE/GRE/VXLAN networks
--dns-domain <dns-domain>	Set dns domain for this network (requires dns integration extension)

Value	Summary
<code>--tag <tag></code>	Tag to be added to the network (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the network

Table 55.32. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.33. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.34. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.35. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.12. NETWORK DELETE

Usage:

```
openstack network delete [-h] <network> [<network> ...]
```

Delete network(s)

Table 55.36. Positional Arguments

Value	Summary
None	None

Table 55.37. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.13. NETWORK FLAVOR ADD PROFILE

Usage:

```
openstack network flavor add profile [-h] <flavor> <service-profile>
```

Add a service profile to a network flavor

Table 55.38. Positional Arguments

Value	Summary
None	None

Table 55.39. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.14. NETWORK FLAVOR CREATE

Usage:

```
openstack network flavor create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --service-type
                                <service-type>
                                [--description DESCRIPTION]
                                [--project <project>]
```

```
[--project-domain <project-domain>]
[--enable | --disable]
<name>
```

Create new network flavor

Table 55.40. Positional Arguments

Value	Summary
None	None

Table 55.41. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--service-type <service-type>	Service type to which the flavor applies to: e.g. vpn (See openstack network service provider list for loaded examples.)
--description DESCRIPTION	Description for the flavor
--project <project>	Owner’s project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--enable	Enable the flavor (default)
--disable	Disable the flavor

Table 55.42. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.43. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.44. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.45. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.15. NETWORK FLAVOR DELETE

Usage:

```
openstack network flavor delete [-h] <flavor> [<flavor> ...]
```

Delete network flavors

Table 55.46. Positional Arguments

Value	Summary
None	None

Table 55.47. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.16. NETWORK FLAVOR LIST

Usage:

```
openstack network flavor list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
```



```
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
```

List network flavors

Table 55.48. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.49. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.50. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.51. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.52. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

55.17. NETWORK FLAVOR PROFILE CREATE

Usage:

```

openstack network flavor profile create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
                                     [--description <description>]
                                     [--enable | --disable]
                                     [--driver DRIVER]
                                     [--metainfo METAINFO]

```

Create new network flavor profile

Table 55.53. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--description <description></code>	Description for the flavor profile
<code>--enable</code>	Enable the flavor profile
<code>--disable</code>	Disable the flavor profile
<code>--driver DRIVER</code>	Python module path to driver. this becomes required if
<code>--metainfo</code> is missing and vice versa <code>--metainfo METAINFO</code>	Metainfo for the flavor profile. this becomes required if <code>--driver</code> is missing and vice versa

Table 55.54. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.55. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.56. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.57. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.18. NETWORK FLAVOR PROFILE DELETE

Usage:

```
openstack network flavor profile delete [-h]
                                     <flavor-profile>
                                     [<flavor-profile> ...]
```

Delete network flavor profile

Table 55.58. Positional Arguments

Value	Summary
None	None

Table 55.59. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.19. NETWORK FLAVOR PROFILE LIST

Usage:

```
openstack network flavor profile list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

List network flavor profile(s)

Table 55.60. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.61. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.62. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.63. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.64. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.20. NETWORK FLAVOR PROFILE SET

Usage:

```

openstack network flavor profile set [-h]
                                   [--project-domain <project-domain>]
                                   [--description <description>]
                                   [--enable | --disable]
                                   [--driver DRIVER]
                                   [--metainfo METAINFO]
                                   <flavor-profile>

```

Set network flavor profile properties

Table 55.65. Positional Arguments

Value	Summary
None	None

Table 55.66. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--description <description>	Description for the flavor profile
--enable	Enable the flavor profile
--disable	Disable the flavor profile
--driver DRIVER	Python module path to driver. this becomes required if
--metainfo is missing and vice versa --metainfo METAINFO	Metainfo for the flavor profile. this becomes required if --driver is missing and vice versa

55.21. NETWORK FLAVOR PROFILE SHOW

Usage:

```

openstack network flavor profile show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <flavor-profile>

```

Display network flavor profile details

Table 55.67. Positional Arguments

Value	Summary
None	None

Table 55.68. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.69. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.70. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.71. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.72. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.22. NETWORK FLAVOR REMOVE PROFILE

Usage:

```
openstack network flavor remove profile [-h] <flavor> <service-profile>
```

Remove service profile from network flavor

Table 55.73. Positional Arguments

Value	Summary
None	None

Table 55.74. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.23. NETWORK FLAVOR SET

Usage:

```
openstack network flavor set [-h] [--description DESCRIPTION]
                             [--disable | --enable] [--name <name>]
                             <flavor>
```

Set network flavor properties

Table 55.75. Positional Arguments

Value	Summary
None	None

Table 55.76. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Set network flavor description
--disable	Disable network flavor
--enable	Enable network flavor
--name <name>	Set flavor name

55.24. NETWORK FLAVOR SHOW

Usage:

```
openstack network flavor show [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--noindent]
                              [--prefix PREFIX] [--max-width <integer>]
                              [--fit-width] [--print-empty]
                              <flavor>
```

Display network flavor details

Table 55.77. Positional Arguments

Value	Summary
None	None

Table 55.78. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.79. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.80. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.81. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.82. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.25. NETWORK LIST

Usage:

```

openstack network list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--external | --internal] [--long]
                        [--name <name>] [--enable | --disable]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--share | --no-share] [--status <status>]
                        [--provider-network-type <provider-network-type>]
                        [--provider-physical-network <provider-physical-network>]
                        [--provider-segment <provider-segment>]
                        [--agent <agent-id>] [--tags <tag>[,<tag>,...]]
                        [--any-tags <tag>[,<tag>,...]]
                        [--not-tags <tag>[,<tag>,...]]
                        [--not-any-tags <tag>[,<tag>,...]]

```

List networks

Table 55.83. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--external	List external networks
--internal	List internal networks
--long	List additional fields in output
--name <name>	List networks according to their name
--enable	List enabled networks
--disable	List disabled networks
--project <project>	List networks according to their project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	List networks shared between projects

Value	Summary
<code>--no-share</code>	List networks not shared between projects
<code>--status <status></code>	List networks according to their status (<i>active</i> , <i>BUILD</i> , <i>DOWN</i> , <i>ERROR</i>)
<code>--provider-network-type <provider-network-type></code>	List networks according to their physical mechanisms. The supported options are: flat, geneve, gre, local, vlan, vxlan.
<code>--provider-physical-network <provider-physical-network></code>	List networks according to name of the physical network
<code>--provider-segment <provider-segment></code>	List networks according to vlan id for vlan networks or Tunnel ID for GENEVE/GRE/VXLAN networks
<code>--agent <agent-id></code>	List networks hosted by agent (id only)
<code>--tags <tag>[,<tag>,...]</code>	List networks which have all given tag(s) (comma-separated list of tags)
<code>--any-tags <tag>[,<tag>,...]</code>	List networks which have any given tag(s) (comma-separated list of tags)
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude networks which have all given tag(s) (comma-separated list of tags)
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude networks which have any given tag(s) (comma-separated list of tags)

Table 55.84. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.85. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.86. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.87. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.26. NETWORK LOG CREATE

Usage:

```

openstack network log create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--description <description>]
                             [--enable | --disable]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--event {ALL,ACCEPT,DROP}]
                             --resource-type <resource-type>
                             [--resource <resource>]
                             [--target <target>]
                             <name>

```

Create a new network log

Table 55.88. Positional Arguments

Value	Summary
None	None

Table 55.89. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the network log
--enable	Enable this log (default is disabled)
--disable	Disable this log
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--event {ALL,ACCEPT,DROP}	An event to store with log
--resource-type <resource-type>	Network log type(s). you can see supported type(s) with following command: \$ openstack network loggable resources list
--resource <resource>	Name or id of resource (security group or firewall group) that used for logging. You can control for logging target combination with --target option.
--target <target>	Port (name or id) for logging. you can control for logging target combination with --resource option.

Table 55.90. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.91. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.92. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.93. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

55.27. NETWORK LOG DELETE

Usage:

```
openstack network log delete [-h] <network-log> [<network-log> ...]
```

Delete network log(s)

Table 55.94. Positional Arguments

Value	Summary
None	None

Table 55.95. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

55.28. NETWORK LOG LIST

Usage:

```
openstack network log list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
```

List network logs

Table 55.96. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 55.97. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.98. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.99. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.100. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

55.29. NETWORK LOG SET

Usage:

```
openstack network log set [-h] [--description <description>]
                          [--enable | --disable] [--name <name>]
                          <network-log>
```

Set network log properties

Table 55.101. Positional Arguments

Value	Summary
None	None

Table 55.102. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Description of the network log
<code>--enable</code>	Enable this log (default is disabled)
<code>--disable</code>	Disable this log
<code>--name <name></code>	Name of the network log This command is provided by the python-neutronclient plugin.

55.30. NETWORK LOG SHOW

Usage:

```
openstack network log show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <network-log>
```

Display network log details

Table 55.103. Positional Arguments

Value	Summary
None	None

Table 55.104. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.105. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.106. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.107. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.108. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-neutronclient</code> plugin.

55.31. NETWORK LOGGABLE RESOURCES LIST

Usage:

```

openstack network loggable resources list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--long]

```

List supported loggable resources

Table 55.109. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--long</code>	List additional fields in output

Table 55.110. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.111. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.112. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.113. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

55.32. NETWORK METER CREATE

Usage:

```
openstack network meter create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--description <description>]
                               [--project <project>]
                               [--project-domain <project-domain>]
                               [--share | --no-share]
                               <name>
```

Create network meter

Table 55.114. Positional Arguments

Value	Summary
None	None

Table 55.115. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Create description for meter
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	Share meter between projects
--no-share	Do not share meter between projects

Table 55.116. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.117. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.118. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.119. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.33. NETWORK METER DELETE

Usage:

```
openstack network meter delete [-h] <meter> [<meter> ...]
```

Delete network meter

Table 55.120. Positional Arguments

Value	Summary
None	None

Table 55.121. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.34. NETWORK METER LIST

Usage:

```
openstack network meter list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
```

List network meters

Table 55.122. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 55.123. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.124. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.125. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.126. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.35. NETWORK METER RULE CREATE

Usage:

```
openstack network meter rule create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
                                     [--exclude | --include]
                                     [--ingress | --egress]
                                     --remote-ip-prefix
                                     <remote-ip-prefix>
                                     <meter>
```

Create a new meter rule

Table 55.127. Positional Arguments

Value	Summary
None	None

Table 55.128. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner’s project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--exclude	Exclude remote ip prefix from traffic count
--include	Include remote ip prefix from traffic count (default)
--ingress	Apply rule to incoming network traffic (default)
--egress	Apply rule to outgoing network traffic
--remote-ip-prefix <remote-ip-prefix>	The remote ip prefix to associate with this rule

Table 55.129. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.130. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.131. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.132. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.36. NETWORK METER RULE DELETE

Usage:

```
openstack network meter rule delete [-h]
                                   <meter-rule-id>
                                   [<meter-rule-id> ...]
```

Delete meter rule(s)

Table 55.133. Positional Arguments

Value	Summary
None	None

Table 55.134. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.37. NETWORK METER RULE LIST

Usage:

```

openstack network meter rule list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]

```

List meter rules

Table 55.135. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.136. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.137. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.138. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.139. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.38. NETWORK METER RULE SHOW

Usage:

```
openstack network meter rule show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <meter-rule-id>
```

Display meter rules details

Table 55.140. Positional Arguments

Value	Summary
None	None

Table 55.141. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.142. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.143. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.144. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.145. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.39. NETWORK METER SHOW

Usage:

```
openstack network meter show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
```

```
[-print-empty]
<meter>
```

Show network meter

Table 55.146. Positional Arguments

Value	Summary
None	None

Table 55.147. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.148. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.149. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.150. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.151. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.40. NETWORK ONBOARD SUBNETS

Usage:

```
openstack network onboard subnets [-h] <network> <subnetpool>
```

Onboard network subnets into a subnet pool

Table 55.152. Positional Arguments

Value	Summary
None	None

Table 55.153. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

55.41. NETWORK QOS POLICY CREATE

Usage:

```
openstack network qos policy create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--description <description>]
                                   [--share | --no-share]
                                   [--project <project>]
                                   [--project-domain <project-domain>]
                                   [--default | --no-default]
                                   <name>
```

Create a QoS policy

Table 55.154. Positional Arguments

Value	Summary
None	None

Table 55.155. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the qos policy
--share	Make the qos policy accessible by other projects
--no-share	Make the qos policy not accessible by other projects (default)
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--default	Set this as a default network qos policy
--no-default	Set this as a non-default network qos policy

Table 55.156. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.157. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.158. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.159. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.42. NETWORK QOS POLICY DELETE

Usage:

```
openstack network qos policy delete [-h]
                                <qos-policy> [<qos-policy> ...]
```

Delete Qos Policy(s)

Table 55.160. Positional Arguments

Value	Summary
None	None

Table 55.161. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.43. NETWORK QOS POLICY LIST

Usage:

```
openstack network qos policy list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--project <project>]
[--project-domain <project-domain>]
[--share | --no-share]

```

List QoS policies

Table 55.162. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	List qos policies according to their project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	List qos policies shared between projects
--no-share	List qos policies not shared between projects

Table 55.163. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.164. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.165. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.166. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.44. NETWORK QOS POLICY SET

Usage:

```

openstack network qos policy set [-h] [--name <name>]
                                [--description <description>]
                                [--share | --no-share]
                                [--default | --no-default]
                                <qos-policy>

```

Set QoS policy properties

Table 55.167. Positional Arguments

Value	Summary
None	None

Table 55.168. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set qos policy name
--description <description>	Description of the qos policy
--share	Make the qos policy accessible by other projects

Value	Summary
--no-share	Make the qos policy not accessible by other projects
--default	Set this as a default network qos policy
--no-default	Set this as a non-default network qos policy

55.45. NETWORK QOS POLICY SHOW

Usage:

```

openstack network qos policy show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <qos-policy>

```

Display QoS policy details

Table 55.169. Positional Arguments

Value	Summary
None	None

Table 55.170. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.171. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.172. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.173. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.174. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.46. NETWORK QOS RULE CREATE

Usage:

```
openstack network qos rule create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--type <type>]
                                [--max-kbps <max-kbps>]
                                [--max-burst-kbits <max-burst-kbits>]
                                [--dscp-mark <dscp-mark>]
                                [--min-kbps <min-kbps>]
                                [--ingress | --egress]
                                <qos-policy>
```

Create new Network QoS rule

Table 55.175. Positional Arguments

Value	Summary
None	None

Table 55.176. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	Qos rule type (minimum-bandwidth, dscp-marking, bandwidth-limit)
--max-kbps <max-kbps>	Maximum bandwidth in kbps
--max-burst-kbits <max-burst-kbits>	Maximum burst in kilobits, 0 or not specified means automatic, which is 80% of the bandwidth limit, which works for typical TCP traffic. For details check the QoS user workflow.
--dscp-mark <dscp-mark>	Dscp mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54
--min-kbps <min-kbps>	Minimum guaranteed bandwidth in kbps
--ingress	Ingress traffic direction from the project point of view
--egress	Egress traffic direction from the project point of view

Table 55.177. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.178. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.179. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.180. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.47. NETWORK QOS RULE DELETE

Usage:

```
openstack network qos rule delete [-h] <qos-policy> <rule-id>
```

Delete Network QoS rule

Table 55.181. Positional Arguments

Value	Summary
None	None

Table 55.182. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

55.48. NETWORK QOS RULE LIST

Usage:

```
openstack network qos rule list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                <qos-policy>
```

List Network QoS rules

Table 55.183. Positional Arguments

Value	Summary
None	None

Table 55.184. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.185. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.186. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.187. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.188. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

55.49. NETWORK QOS RULE SET

Usage:

```

openstack network qos rule set [-h] [--max-kbps <max-kbps>]
                                [--max-burst-kbits <max-burst-kbits>]
                                [--dscp-mark <dscp-mark>]
                                [--min-kbps <min-kbps>]
                                [--ingress | --egress]
                                <qos-policy> <rule-id>

```

Set Network QoS rule properties

Table 55.189. Positional Arguments

Value	Summary
None	None

Table 55.190. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--max-kbps <max-kbps>	Maximum bandwidth in kbps
--max-burst-kbits <max-burst-kbits>	Maximum burst in kilobits, 0 or not specified means automatic, which is 80% of the bandwidth limit, which works for typical TCP traffic. For details check the QoS user workflow.
--dscp-mark <dscp-mark>	Dscp mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54
--min-kbps <min-kbps>	Minimum guaranteed bandwidth in kbps
--ingress	Ingress traffic direction from the project point of view
--egress	Egress traffic direction from the project point of view

55.50. NETWORK QOS RULE SHOW

Usage:

```
openstack network qos rule show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <qos-policy> <rule-id>
```

Display Network QoS rule details

Table 55.191. Positional Arguments

Value	Summary
None	None

Table 55.192. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.193. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.194. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.195. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.196. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.51. NETWORK QOS RULE TYPE LIST

Usage:

```

openstack network qos rule type list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]

```

List QoS rule types

Table 55.197. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 55.198. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.199. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.200. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.201. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.52. NETWORK QOS RULE TYPE SHOW

Usage:

```
openstack network qos rule type show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <qos-rule-type-name>
```

Show details about supported QoS rule type

Table 55.202. Positional Arguments

Value	Summary
None	None

Table 55.203. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.204. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.205. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.206. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.207. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.53. NETWORK RBAC CREATE

Usage:

```
openstack network rbac create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
```

```

[--fit-width] [--print-empty] --type
<type> --action <action>
(--target-project <target-project> | --target-all-projects)
[--target-project-domain <target-project-domain>]
[--project <project>]
[--project-domain <project-domain>]
<rbac-object>

```

Create network RBAC policy

Table 55.208. Positional Arguments

Value	Summary
None	None

Table 55.209. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	Type of the object that rbac policy affects ("security_group", "qos_policy" or "network")
--action <action>	Action for the rbac policy ("access_as_external" or "access_as_shared")
--target-project <target-project>	The project to which the rbac policy will be enforced (name or ID)
--target-all-projects	Allow creating rbac policy for all projects.
--target-project-domain <target-project-domain>	Domain the target project belongs to (name or id). This can be used in case collisions between project names exist.
--project <project>	The owner project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 55.210. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.211. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.212. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.213. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.54. NETWORK RBAC DELETE

Usage:

```
openstack network rbac delete [-h] <rbac-policy> [<rbac-policy> ...]
```

Delete network RBAC policy(s)

Table 55.214. Positional Arguments

Value	Summary
None	None

Table 55.215. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

55.55. NETWORK RBAC LIST

Usage:

```

openstack network rbac list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--type <type>]
                             [--action <action>] [--long]

```

List network RBAC policies

Table 55.216. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type <type></code>	List network rbac policies according to given object type ("security_group", "qos_policy" or "network")
<code>--action <action></code>	List network rbac policies according to given action ("access_as_external" or "access_as_shared")
<code>--long</code>	List additional fields in output

Table 55.217. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.218. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.219. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.220. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.56. NETWORK RBAC SET

Usage:

```
openstack network rbac set [-h] [--target-project <target-project>]
                           [--target-project-domain <target-project-domain>]
                           <rbac-policy>
```

Set network RBAC policy properties

Table 55.221. Positional Arguments

Value	Summary
None	None

Table 55.222. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--target-project <target-project></code>	The project to which the rbac policy will be enforced (name or ID)
<code>--target-project-domain <target-project-domain></code>	Domain the target project belongs to (name or id). This can be used in case collisions between project names exist.

55.57. NETWORK RBAC SHOW

Usage:

```

openstack network rbac show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <rbac-policy>

```

Display network RBAC policy details

Table 55.223. Positional Arguments

Value	Summary
None	None

Table 55.224. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 55.225. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.226. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.227. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.228. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.58. NETWORK SEGMENT CREATE

Usage:

```

openstack network segment create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description <description>]
                                [--physical-network <physical-network>]
                                [--segment <segment>] --network
                                <network> --network-type
                                <network-type>
                                <name>

```

Create new network segment

Table 55.229. Positional Arguments

Value	Summary
None	None

Table 55.230. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Network segment description
--physical-network <physical-network>	Physical network name of this network segment
--segment <segment>	Segment identifier for this network segment which is based on the network type, VLAN ID for vlan network type and tunnel ID for geneve, gre and vxlan network types
--network <network>	Network this network segment belongs to (name or id)
--network-type <network-type>	Network type of this network segment (flat, geneve, gre, local, vlan or vxlan)

Table 55.231. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.232. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.233. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.234. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.59. NETWORK SEGMENT DELETE

Usage:

```
openstack network segment delete [-h]
                                <network-segment>
                                [<network-segment> ...]
```

Delete network segment(s)

Table 55.235. Positional Arguments

Value	Summary
None	None

Table 55.236. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

55.60. NETWORK SEGMENT LIST

Usage:

```
openstack network segment list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
                                [--network <network>]
```

List network segments

Table 55.237. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--network <network>	List network segments that belong to this network (name or ID)

Table 55.238. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.239. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.240. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.241. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.61. NETWORK SEGMENT RANGE CREATE

Usage:

```
openstack network segment range create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--private | --shared]
                                         [--project <project>]
                                         [--project-domain <project-domain>]
                                         --network-type <network-type>
                                         [--physical-network <physical-network-name>]
                                         --minimum
                                         <minimum-segmentation-id>
                                         --maximum
                                         <maximum-segmentation-id>
                                         <name>
```

Create new network segment range

Table 55.242. Positional Arguments

Value	Summary
None	None

Table 55.243. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--private	Network segment range is assigned specifically to the project
--shared	Network segment range is shared with other projects

Value	Summary
<code>--project <project></code>	Network segment range owner (name or id). optional when the segment range is shared
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--network-type <network-type></code>	Network type of this network segment range (geneve, gre, vlan or vxlan)
<code>--physical-network <physical-network-name></code>	Physical network name of this network segment range
<code>--minimum <minimum-segmentation-id></code>	Minimum segment identifier for this network segment range which is based on the network type, VLAN ID for vlan network type and tunnel ID for geneve, gre and vxlan network types
<code>--maximum <maximum-segmentation-id></code>	Maximum segment identifier for this network segment range which is based on the network type, VLAN ID for vlan network type and tunnel ID for geneve, gre and vxlan network types

Table 55.244. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.245. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.246. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.247. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.62. NETWORK SEGMENT RANGE DELETE

Usage:

```
openstack network segment range delete [-h]
                                     <network-segment-range>
                                     [<network-segment-range> ...]
```

Delete network segment range(s)

Table 55.248. Positional Arguments

Value	Summary
None	None

Table 55.249. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

55.63. NETWORK SEGMENT RANGE LIST

Usage:

```
openstack network segment range list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--long] [--used | --unused]
                                     [--available | --unavailable]
```

List network segment ranges

Table 55.250. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--used	List network segment ranges that have segments in use
--unused	List network segment ranges that have segments not in use
--available	List network segment ranges that have available segments
--unavailable	List network segment ranges without available segments

Table 55.251. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.252. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.253. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.254. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.64. NETWORK SEGMENT RANGE SET

Usage:

```
openstack network segment range set [-h] [--name <name>]
                                     [--minimum <minimum-segmentation-id>]
                                     [--maximum <maximum-segmentation-id>]
                                     <network-segment-range>
```

Set network segment range properties

Table 55.255. Positional Arguments

Value	Summary
None	None

Table 55.256. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set network segment name
--minimum <minimum-segmentation-id>	Set network segment range minimum segment identifier
--maximum <maximum-segmentation-id>	Set network segment range maximum segment identifier

55.65. NETWORK SEGMENT RANGE SHOW

Usage:

```

openstack network segment range show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <network-segment-range>

```

Display network segment range details

Table 55.257. Positional Arguments

Value	Summary
None	None

Table 55.258. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.259. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.260. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.261. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.262. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.66. NETWORK SEGMENT SET

Usage:

```
openstack network segment set [-h] [--description <description>]
                               [--name <name>]
                               <network-segment>
```

Set network segment properties

Table 55.263. Positional Arguments

Value	Summary
None	None

Table 55.264. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Set network segment description
--name <name>	Set network segment name

55.67. NETWORK SEGMENT SHOW

Usage:

```
openstack network segment show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
```

```

[--max-width <integer>] [--fit-width]
[--print-empty]
<network-segment>

```

Display network segment details

Table 55.265. Positional Arguments

Value	Summary
None	None

Table 55.266. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.267. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.268. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.269. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.270. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.68. NETWORK SERVICE PROVIDER LIST

Usage:

```
openstack network service provider list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
```

List Service Providers

Table 55.271. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.272. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.273. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.274. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.275. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.69. NETWORK SET

Usage:

```

openstack network set [-h] [--name <name>] [--enable | --disable]
                        [--share | --no-share]
                        [--description <description>] [--mtu <mtu>]
                        [--enable-port-security | --disable-port-security]
                        [--external | --internal]
                        [--default | --no-default]
                        [--qos-policy <qos-policy> | --no-qos-policy]
                        [--tag <tag>] [--no-tag]
                        [--provider-network-type <provider-network-type>]
                        [--provider-physical-network <provider-physical-network>]
                        [--provider-segment <provider-segment>]
                        [--dns-domain <dns-domain>]
                        <network>

```

Set network properties

Table 55.276. Positional Arguments

Value	Summary
None	None

Table 55.277. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set network name
--enable	Enable network
--disable	Disable network
--share	Share the network between projects
--no-share	Do not share the network between projects
--description <description>	Set network description
--mtu <mtu>	Set network mtu
--enable-port-security	Enable port security by default for ports created on this network
--disable-port-security	Disable port security by default for ports created on this network
--external	Set this network as an external network (external-net extension required)
--internal	Set this network as an internal network
--default	Set the network as the default external network
--no-default	Do not use the network as the default external network
--qos-policy <qos-policy>	Qos policy to attach to this network (name or id)
--no-qos-policy	Remove the qos policy attached to this network
--tag <tag>	Tag to be added to the network (repeat option to set multiple tags)
--no-tag	Clear tags associated with the network. specify both
--tag and --no-tag to overwrite current tags -- provider-network-type <provider-network-type>	The physical mechanism by which the virtual network is implemented. For example: flat, geneve, gre, local, vlan, vxlan.

Value	Summary
<code>--provider-physical-network <provider-physical-network></code>	Name of the physical network over which the virtual network is implemented
<code>--provider-segment <provider-segment></code>	Vlan id for vlan networks or tunnel id for GENEVE/GRE/VXLAN networks
<code>--dns-domain <dns-domain></code>	Set dns domain for this network (requires dns integration extension)

55.70. NETWORK SHOW

Usage:

```

openstack network show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <network>

```

Show network details

Table 55.278. Positional Arguments

Value	Summary
None	None

Table 55.279. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 55.280. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 55.281. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.282. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.283. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.71. NETWORK SUBPORT LIST

Usage:

```
openstack network subport list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] --trunk
                               <trunk>
```

List all subports for a given network trunk

Table 55.284. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--trunk <trunk>	List subports belonging to this trunk (name or id)

Table 55.285. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.286. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.287. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.288. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

55.72. NETWORK TRUNK CREATE

Usage:

```
openstack network trunk create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
```

```

[--print-empty]
[--description <description>]
--parent-port <parent-port>
[--subport <port=,segmentation-type=,segmentation-id=>]
[--enable | --disable]
[--project <project>]
[--project-domain <project-domain>]
<name>

```

Create a network trunk for a given project

Table 55.289. Positional Arguments

Value	Summary
None	None

Table 55.290. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	A description of the trunk
--parent-port <parent-port>	Parent port belonging to this trunk (name or id)
--subport <port=,segmentation-type=,segmentation-id=>	Subport to add. subport is of form <i>port=<name or ID>,segmentation-type=,segmentation-ID=</i> (--subport) option can be repeated
--enable	Enable trunk (default)
--disable	Disable trunk
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 55.291. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.292. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.293. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.294. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

55.73. NETWORK TRUNK DELETE

Usage:

```
openstack network trunk delete [-h] <trunk> [<trunk> ...]
```

Delete a given network trunk

Table 55.295. Positional Arguments

Value	Summary
None	None

Table 55.296. Optional Arguments

Value	Summary

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

55.74. NETWORK TRUNK LIST

Usage:

```
openstack network trunk list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
```

List all network trunks

Table 55.297. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 55.298. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.299. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 55.300. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.301. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

55.75. NETWORK TRUNK SET

Usage:

```

openstack network trunk set [-h] [--name <name>]
                             [--description <description>]
                             [--subport <port=,segmentation-type=,segmentation-id=>]
                             [--enable | --disable]
                             <trunk>

```

Set network trunk properties

Table 55.302. Positional Arguments

Value	Summary
None	None

Table 55.303. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set trunk name
--description <description>	A description of the trunk

Value	Summary
--subport <port=,segmentation-type=,segmentation-id=>	Subport to add. subport is of form <i>port=<name or ID>,segmentation-type=,segmentation-ID=(--subport)</i> option can be repeated
--enable	Enable trunk
--disable	Disable trunk This command is provided by the python-neutronclient plugin.

55.76. NETWORK TRUNK SHOW

Usage:

```

openstack network trunk show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <trunk>

```

Show information of a given network trunk

Table 55.304. Positional Arguments

Value	Summary
None	None

Table 55.305. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 55.306. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.307. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.308. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 55.309. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

55.77. NETWORK TRUNK UNSET

Usage:

```
openstack network trunk unset [-h] --subport <subport> <trunk>
```

Unset subports from a given network trunk

Table 55.310. Positional Arguments

Value	Summary
None	None

Table 55.311. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
--subport <subport>	Subport to delete (name or id of the port) (--subport) option can be repeated This command is provided by the python-neutronclient plugin.

55.78. NETWORK UNSET

Usage:

```
openstack network unset [-h] [--tag <tag> | --all-tag] <network>
```

Unset network properties

Table 55.312. Positional Arguments

Value	Summary
None	None

Table 55.313. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--tag <tag>	Tag to be removed from the network (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the network

CHAPTER 56. OBJECT

This chapter describes the commands under the **object** command.

56.1. OBJECT CREATE

Usage:

```
openstack object create [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--name <name>]
                        <container> <filename> [<filename> ...]
```

Upload object to container

Table 56.1. Positional Arguments

Value	Summary
None	None

Table 56.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Upload a file and rename it. can only be used when uploading a single object

Table 56.3. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 56.4. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 56.5. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 56.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

56.2. OBJECT DELETE

Usage:

```
openstack object delete [-h] <container> <object> [<object> ...]
```

Delete object from container

Table 56.7. Positional Arguments

Value	Summary
None	None

Table 56.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

56.3. OBJECT LIST

Usage:

```

openstack object list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--prefix <prefix>]
                        [--delimiter <delimiter>] [--marker <marker>]
                        [--end-marker <end-marker>]
                        [--limit <num-objects>] [--long] [--all]
                        <container>

```

List objects

Table 56.9. Positional Arguments

Value	Summary
None	None

Table 56.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--prefix <prefix>	Filter list using <prefix>
--delimiter <delimiter>	Roll up items with <delimiter>
--marker <marker>	Anchor for paging
--end-marker <end-marker>	End anchor for paging
--limit <num-objects>	Limit the number of objects returned
--long	List additional fields in output
--all	List all objects in container (default is 10000)

Table 56.11. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 56.12. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 56.13. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 56.14. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

56.4. OBJECT SAVE

Usage:

```
openstack object save [-h] [--file <filename>] <container> <object>
```

Save object locally

Table 56.15. Positional Arguments

Value	Summary
None	None

Table 56.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--file <filename>	Destination filename (defaults to object name); using - as the filename will print the file to stdout

56.5. OBJECT SET

Usage:

```
openstack object set [-h] --property <key=value> <container> <object>
```

Set object properties

Table 56.17. Positional Arguments

Value	Summary
None	None

Table 56.18. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key=value>	Set a property on this object (repeat option to set multiple properties)

56.6. OBJECT SHOW

Usage:

```
openstack object show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <container> <object>
```

Display object details

Table 56.19. Positional Arguments

Value	Summary
None	None

Table 56.20. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 56.21. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 56.22. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 56.23. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 56.24. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

56.7. OBJECT STORE ACCOUNT SET

Usage:

```
openstack object store account set [-h] --property <key=value>
```

Set account properties

Table 56.25. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key=value>	Set a property on this account (repeat option to set multiple properties)

56.8. OBJECT STORE ACCOUNT SHOW

Usage:

```
openstack object store account show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
```

Display account details

Table 56.26. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 56.27. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 56.28. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 56.29. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 56.30. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

56.9. OBJECT STORE ACCOUNT UNSET

Usage:

```
openstack object store account unset [-h] --property <key>
```

Unset account properties

Table 56.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from account (repeat option to remove multiple properties)

56.10. OBJECT UNSET

Usage:

```
openstack object unset [-h] --property <key> <container> <object>
```

Unset object properties

Table 56.32. Positional Arguments

Value	Summary
None	None

Table 56.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from object (repeat option to remove multiple properties)

CHAPTER 57. ORCHESTRATION

This chapter describes the commands under the **orchestration** command.

57.1. ORCHESTRATION BUILD INFO

Usage:

```
openstack orchestration build info [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
```

Retrieve build information.

Table 57.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 57.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 57.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 57.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 57.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-heatclient</code> plugin.

57.2. ORCHESTRATION RESOURCE TYPE LIST

Usage:

```

openstack orchestration resource type list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--filter <key=value>]
                                         [--long]

```

List resource types.

Table 57.6. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--filter <key=value></code>	Filter parameters to apply on returned resource types. This can be specified multiple times. It can be any of name, version or support_status
<code>--long</code>	Show resource types with corresponding description of each resource type.

Table 57.7. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 57.8. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 57.9. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 57.10. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

57.3. ORCHESTRATION RESOURCE TYPE SHOW

Usage:

```
openstack orchestration resource type show [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
```

```
[--max-width <integer>]
[--fit-width]
[--print-empty]
[--template-type <template-type>]
[--long]
<resource-type>
```

Show details and optionally generate a template for a resource type.

Table 57.11. Positional Arguments

Value	Summary
None	None

Table 57.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--template-type <template-type>	Optional template type to generate, hot or cfn
--long	Show resource type with corresponding description.

Table 57.13. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 57.14. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 57.15. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 57.16. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-heatclient</code> plugin.

57.4. ORCHESTRATION SERVICE LIST

Usage:

```

openstack orchestration service list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]

```

List the Heat engines.

Table 57.17. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 57.18. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 57.19. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 57.20. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 57.21. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

57.5. ORCHESTRATION TEMPLATE FUNCTION LIST

Usage:

```
openstack orchestration template function list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--with_conditions]
                                         <template-version>
```

List the available functions.

Table 57.22. Positional Arguments

Value	Summary
None	None

Table 57.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--with_conditions	Show condition functions for template.

Table 57.24. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 57.25. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 57.26. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 57.27. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

57.6. ORCHESTRATION TEMPLATE VALIDATE

Usage:

```

openstack orchestration template validate [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [-e <environment>]
                                         [--show-nested]
                                         [--parameter <key=value>]
                                         [--ignore-errors <error1,error2,...>]
                                         -t <template>

```

Validate a template

Table 57.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-e <environment>, --environment <environment>	Path to the environment. can be specified multiple times
--show-nested	Resolve parameters from nested templates as well
--parameter <key=value>	Parameter values used to create the stack. this can be specified multiple times
--ignore-errors <error1,error2,...>	List of heat errors to ignore
-t <template>, --template <template>	Path to the template

Table 57.29. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to yaml
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 57.30. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 57.31. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 57.32. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

57.7. ORCHESTRATION TEMPLATE VERSION LIST

Usage:

```

openstack orchestration template version list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]

```

-

List the available template versions.

Table 57.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 57.34. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 57.35. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 57.36. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 57.37. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

CHAPTER 58. OVERCLOUD

This chapter describes the commands under the **overcloud** command.

58.1. OVERCLOUD ADMIN AUTHORIZE

Usage:

```
openstack overcloud admin authorize [-h] [--stack STACK]
                                   [--overcloud-ssh-user OVERCLOUD_SSH_USER]
                                   [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
                                   [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
                                   [--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
                                   [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
```

Deploy the ssh keys needed by Mistral.

Table 58.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
--overcloud-ssh-user OVERCLOUD_SSH_USER	User for ssh access to overcloud nodes
--overcloud-ssh-key OVERCLOUD_SSH_KEY	Key path for ssh access to overcloud nodes.
--overcloud-ssh-network OVERCLOUD_SSH_NETWORK	Network name to use for ssh access to overcloud nodes.
--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT	Timeout for the ssh enable process to finish.
--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT	Timeout for to wait for the ssh port to become active.

58.2. OVERCLOUD CELL EXPORT

Usage:

```
openstack overcloud cell export [-h]
                                [--control-plane-stack <control plane stack>]
                                [--cell-stack <cell stack>]
                                [--output-file <output file>]
                                [--force-overwrite]
                                <cell name>
```

Export cell information used as import of another cell

Table 58.2. Positional Arguments

Value	Summary
None	None

Table 58.3. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--control-plane-stack <control plane stack>	Name of the environment main heat stack to export information from. (default=Env: OVERCLOUD_STACK_NAME)
--cell-stack <cell stack>, -e <cell stack>	Name of the controller cell heat stack to export information from. Used in case of: control plane stack
→ cell controller stack → multiple compute stacks -- output-file <output file>, -o <output file>	Name of the output file for the cell data export. it will default to "<name>.yaml"
--force-overwrite, -f	Overwrite output file if it exists.

58.3. OVERCLOUD CONFIG DOWNLOAD

Usage:

```
openstack overcloud config download [-h] [--name NAME]
                                     [--config-dir CONFIG_DIR]
                                     [--config-type CONFIG_TYPE]
                                     [--no-preserve-config]
```

Download Overcloud Config

Table 58.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	The name of the plan, which is used for the object storage container, workflow environment and orchestration stack names.
--config-dir CONFIG_DIR	The directory where the configuration files will be pushed

Value	Summary
<code>--config-type CONFIG_TYPE</code>	Type of object config to be extract from the deployment, defaults to all keys available
<code>--no-preserve-config</code>	If specified, will delete and recreate the <code>--config-</code> dir if it already exists. Default is to use the existing dir location and overwrite files. Files in
<code>--config-dir</code> not from the stack will be preserved by	Default.

58.4. OVERCLOUD CONTAINER IMAGE BUILD

Usage:

```

openstack overcloud container image build [-h]
                                         [--config-file <yaml config file>]
                                         --kolla-config-file <config
                                         file> [--list-images]
                                         [--list-dependencies]
                                         [--exclude <container-name>]
                                         [--use-buildah]

```

Build overcloud container images with kolla-build.

Table 58.5. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--config-file <yaml config file></code>	Yaml config file specifying the images to build. may be specified multiple times. Order is preserved, and later files will override some options in previous files. Other options will append. If not specified, the default set of containers will be built.
<code>--kolla-config-file <config file></code>	Path to a kolla config file to use. multiple config files can be specified, with values in later files taking precedence. By default, tripleo kolla conf file <code>/usr/share/tripleo-common/container-images/tripleo_kolla_config_overrides.conf</code> is added.
<code>--list-images</code>	Show the images which would be built instead of building them.
<code>--list-dependencies</code>	Show the image build dependencies instead of building them.

Value	Summary
<code>--exclude <container-name></code>	Name of a container to match against the list of containers to be built to skip. Can be specified multiple times.
<code>--use-buildah</code>	Use buildah instead of docker to build the images with Kolla.

58.5. OVERCLOUD CONTAINER IMAGE PREPARE

Usage:

```

openstack overcloud container image prepare [-h]
                                           [--template-file <yaml template file>]
                                           [--push-destination <location>]
                                           [--tag <tag>]
                                           [--tag-from-label <image label>]
                                           [--namespace <namespace>]
                                           [--prefix <prefix>]
                                           [--suffix <suffix>]
                                           [--set <variable=value>]
                                           [--exclude <regex>]
                                           [--include <regex>]
                                           [--output-images-file <file path>]
                                           [--environment-file <file path>]
                                           [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
                                           [--output-env-file <file path>]
                                           [--roles-file ROLES_FILE]
                                           [--modify-role MODIFY_ROLE]
                                           [--modify-vars MODIFY_VARS]

```

Generate files defining the images, tags and registry.

Table 58.6. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--template-file <yaml template file></code>	Yaml template file which the images config file will be built from. Default: <code>/usr/share/tripleo-common/container-images/overcloud_containers.yaml.j2</code>
<code>--push-destination <location></code>	Location of image registry to push images to. if specified, a <code>push_destination</code> will be set for every image entry.

Value	Summary
<code>--tag <tag></code>	Override the default tag substitution. if <code>--tag-from-label</code> is specified, start discovery with this tag. Default: 16.0
<code>--tag-from-label <image label></code>	Use the value of the specified label(s) to discover the tag. Labels can be combined in a template format, for example: <code>{version}-{release}</code>
<code>--namespace <namespace></code>	Override the default namespace substitution. Default: <code>registry.redhat.io/rhosp-rhel8</code>
<code>--prefix <prefix></code>	Override the default name prefix substitution. Default: <code>openstack-</code>
<code>--suffix <suffix></code>	Override the default name suffix substitution. Default:
<code>--set <variable=value></code>	Set the value of a variable in the template, even if it has no dedicated argument such as <code>--suffix</code> .
<code>--exclude <regex></code>	Pattern to match against resulting imagename entries to exclude from the final output. Can be specified multiple times.
<code>--include <regex></code>	Pattern to match against resulting imagename entries to include in final output. Can be specified multiple times, entries not matching any <code>--include</code> will be excluded. <code>--exclude</code> is ignored if <code>--include</code> is used.
<code>--output-images-file <file path></code>	File to write resulting image entries to, as well as stdout. Any existing file will be overwritten.
<code>--environment-file <file path>, -e <file path></code>	Environment files specifying which services are containerized. Entries will be filtered to only contain images used by containerized services. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the update command. Entries will be filtered to only contain images used by containerized services. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--output-env-file <file path></code>	File to write heat environment file which specifies all image parameters. Any existing file will be overwritten.

Value	Summary
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>t-h-t</code> templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
<code>--modify-role MODIFY_ROLE</code>	Name of ansible role to run between every image upload pull and push.
<code>--modify-vars MODIFY_VARS</code>	Ansible variable file containing variables to use when invoking the role <code>--modify-role</code> .

58.6. OVERCLOUD CONTAINER IMAGE TAG DISCOVER

Usage:

```
openstack overcloud container image tag discover [-h] --image
<container image>
[--tag-from-label <image label>]
```

Discover the versioned tag for an image.

Table 58.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--image <container image></code>	Fully qualified name of the image to discover the tag for (Including registry and stable tag).
<code>--tag-from-label <image label></code>	Use the value of the specified label(s) to discover the tag. Labels can be combined in a template format, for example: <code>{version}-{release}</code>

58.7. OVERCLOUD CONTAINER IMAGE UPLOAD

Usage:

```
openstack overcloud container image upload [-h] --config-file <yaml
config file>
[--cleanup <full, partial, none>]
```

Push overcloud container images to registries.

Table 58.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--config-file <yaml config file></code>	Yaml config file specifying the image build. may be specified multiple times. Order is preserved, and later files will override some options in previous files. Other options will append.
<code>--cleanup <full, partial, none></code>	Cleanup behavior for local images left after upload. The default <i>full</i> will attempt to delete all local images. <i>partial</i> will leave images required for deployment on this host. <i>none</i> will do no cleanup.

58.8. OVERCLOUD CREDENTIALS

Usage:

```
openstack overcloud credentials [-h] [--directory [DIRECTORY]] plan
```

Create the overcloudrc files

Table 58.9. Positional Arguments

Value	Summary
None	None

Table 58.10. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--directory [DIRECTORY]</code>	The directory to create the rc files. defaults to the current directory.

58.9. OVERCLOUD DELETE

Usage:

```
openstack overcloud delete [-h] [-y] [stack]
```

Delete overcloud stack and plan

Table 58.11. Positional Arguments

Value	Summary
None	None

Table 58.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-y, --yes	Skip yes/no prompt (assume yes).

58.10. OVERCLOUD DEPLOY

Usage:

```

openstack overcloud deploy [--templates [TEMPLATES]] [--stack STACK]
                             [--timeout <TIMEOUT>]
                             [--control-scale CONTROL_SCALE]
                             [--compute-scale COMPUTE_SCALE]
                             [--ceph-storage-scale CEPH_STORAGE_SCALE]
                             [--block-storage-scale BLOCK_STORAGE_SCALE]
                             [--swift-storage-scale SWIFT_STORAGE_SCALE]
                             [--control-flavor CONTROL_FLAVOR]
                             [--compute-flavor COMPUTE_FLAVOR]
                             [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
                             [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
                             [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
                             [--libvirt-type {kvm,qemu}]
                             [--ntp-server NTP_SERVER]
                             [--no-proxy NO_PROXY]
                             [--overcloud-ssh-user OVERCLOUD_SSH_USER]
                             [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
                             [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
                             [--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT]
                             [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
                             [--environment-file <HEAT ENVIRONMENT FILE>]
                             [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
                             [--roles-file ROLES_FILE]
                             [--networks-file NETWORKS_FILE]
                             [--plan-environment-file PLAN_ENVIRONMENT_FILE]
                             [--no-cleanup] [--update-plan-only]
                             [--validation-errors-nonfatal]
                             [--validation-warnings-fatal]
                             [--disable-validations]
                             [--inflight-validations] [--dry-run]
                             [--run-validations] [--skip-postconfig]
                             [--force-postconfig]
                             [--skip-deploy-identifier]
                             [--answers-file ANSWERS_FILE]
                             [--disable-password-generation]

```

```

[--deployed-server] [--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]

```

Deploy Overcloud

Table 58.13. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter CephStorageCount. This option will be removed in the "U" release.)
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter BlockStorageCount. This option will be removed in the "U" release.)
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes. (deprecated. use an environment file and set the parameter ObjectStorageCount. This option will be removed in the "U" release.)
--control-flavor CONTROL_FLAVOR	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter OvercloudControlFlavor. This option will be removed in the "U" release.)

Value	Summary
--compute-flavor COMPUTE_FLAVOR	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter OvercloudComputeFlavor. This option will be removed in the "U" release.)
--ceph-storage-flavor CEPH_STORAGE_FLAVOR	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter OvercloudCephStorageFlavor. This option will be removed in the "U" release.)
--block-storage-flavor BLOCK_STORAGE_FLAVOR	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter OvercloudBlockStorageFlavor. This option will be removed in the "U" release.)
--swift-storage-flavor SWIFT_STORAGE_FLAVOR	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter OvercloudSwiftStorageFlavor. This option will be removed in the "U" release.)
--libvirt-type {kvm,qemu}	Libvirt domain type.
--ntp-server NTP_SERVER	The ntp for overcloud nodes.
--no-proxy NO_PROXY	A comma separated list of hosts that should not be proxied.
--overcloud-ssh-user OVERCLOUD_SSH_USER	User for ssh access to overcloud nodes
--overcloud-ssh-key OVERCLOUD_SSH_KEY	Key path for ssh access to overcloud nodes.
--overcloud-ssh-network OVERCLOUD_SSH_NETWORK	Network name to use for ssh access to overcloud nodes.
--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT	Timeout for the ssh enable process to finish.
--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT	Timeout for to wait for the ssh port to become active.
--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)

Value	Summary
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the <code>heat stack-create</code> or <code>heat stack-update</code> commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from <code>tripleo-validations</code> , use the <code>--run-validations</code> flag. These validations are now run via the external validations in <code>tripleo-validations</code> .
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--run-validations</code>	Run external validations from the <code>tripleo-validations</code> project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.

Value	Summary
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.

Value	Summary
<code>--deployment-python-interpreter</code> <code>DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment

58.11. OVERCLOUD EXECUTE

Usage:

```
openstack overcloud execute [-h] [-s SERVER_NAME] [-g GROUP] file_in
```

Execute a Heat software config on the servers.

Table 58.14. Positional Arguments

Value	Summary
None	None

Table 58.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-s SERVER_NAME, --server_name SERVER_NAME</code>	Nova server_name or partial name to match.
<code>-g GROUP, --group GROUP</code>	Heat software config "group" type. defaults to "script".

58.12. OVERCLOUD EXPORT

Usage:

```
openstack overcloud export [-h] [--stack <stack>]
                          [--output-file <output file>]
                          [--force-overwrite]
                          [--config-download-dir CONFIG_DOWNLOAD_DIR]
                          [--no-password-excludes]
```

Export stack information used as import of another stack

Table 58.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--stack <stack>	Name of the environment main heat stack to export information from. (default=Env: OVERCLOUD_STACK_NAME)
--output-file <output file>, -o <output file>	Name of the output file for the stack data export. it will default to "<name>.yaml"
--force-overwrite, -f	Overwrite output file if it exists.
--config-download-dir CONFIG_DOWNLOAD_DIR	Directory to search for config-download export data. Defaults to /var/lib/mistral/<stack>
--no-password-excludes	Dont exclude certain passwords from the password export. Defaults to False in that some passwords will be excluded that are not typically necessary.

58.13. OVERCLOUD EXTERNAL-UPDATE RUN

Usage:

```

openstack overcloud external-update run [-h]
                                         [--static-inventory STATIC_INVENTORY]
                                         [--ssh-user SSH_USER]
                                         [--tags TAGS]
                                         [--skip-tags SKIP_TAGS]
                                         [--stack STACK] [-e EXTRA_VARS]
                                         [--no-workflow]

```

Run external minor update Ansible playbook This will run the external minor update Ansible playbook, executing tasks from the undercloud. The update playbooks are made available after completion of the *overcloud update prepare* command.

Table 58.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--static-inventory STATIC_INVENTORY	Path to an existing ansible inventory to use. if not specified, one will be generated in ~/tripleo-ansible-inventory.yaml
--ssh-user SSH_USER	Deprecated: only tripleo-admin should be used as ssh user.

Value	Summary
<code>--tags TAGS</code>	A string specifying the tag or comma separated list of tags to be passed as <code>--tags</code> to <code>ansible-playbook</code> .
<code>--skip-tags SKIP_TAGS</code>	A string specifying the tag or comma separated list of tags to be passed as <code>--skip-tags</code> to <code>ansible-playbook</code> .
<code>--stack STACK</code>	Name or id of heat stack (default= <code>env: OVERCLOUD_STACK_NAME</code>)
<code>-e EXTRA_VARS, --extra-vars EXTRA_VARS</code>	Set additional variables as <code>key=value</code> or <code>yaml/json</code>
<code>--no-workflow</code>	Run <code>ansible-playbook</code> directly via system command instead of running Ansible via the TripleO mistral workflows.

58.14. OVERCLOUD EXTERNAL-UPGRADE RUN

Usage:

```

openstack overcloud external-upgrade run [-h]
                                         [--static-inventory STATIC_INVENTORY]
                                         [--ssh-user SSH_USER]
                                         [--tags TAGS]
                                         [--skip-tags SKIP_TAGS]
                                         [--stack STACK]
                                         [-e EXTRA_VARS]
                                         [--no-workflow]

```

Run external major upgrade Ansible playbook This will run the external major upgrade Ansible playbook, executing tasks from the undercloud. The upgrade playbooks are made available after completion of the *overcloud upgrade prepare* command.

Table 58.18. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--static-inventory STATIC_INVENTORY</code>	Path to an existing ansible inventory to use. if not specified, one will be generated in <code>~/tripleo-ansible-inventory.yaml</code>
<code>--ssh-user SSH_USER</code>	Deprecated: only <code>tripleo-admin</code> should be used as ssh user.

Value	Summary
--tags TAGS	A string specifying the tag or comma separated list of tags to be passed as --tags to ansible-playbook.
--skip-tags SKIP_TAGS	A string specifying the tag or comma separated list of tags to be passed as --skip-tags to ansible-playbook.
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
-e EXTRA_VARS, --extra-vars EXTRA_VARS	Set additional variables as key=value or yaml/json
--no-workflow	Run ansible-playbook directly via system command instead of running Ansible via the TripleO mistral workflows.

58.15. OVERCLOUD FAILURES

Usage:

```
openstack overcloud failures [-h] [--plan PLAN]
```

Get deployment failures

Table 58.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--plan PLAN, --stack PLAN	Name of the stack/plan. (default: overcloud)

58.16. OVERCLOUD FFWD-UPGRADE CONVERGE

Usage:

```
openstack overcloud ffwd-upgrade converge [--templates [TEMPLATES]]
                                         [--stack STACK]
                                         [--timeout <TIMEOUT>]
                                         [--control-scale CONTROL_SCALE]
                                         [--compute-scale COMPUTE_SCALE]
                                         [--ceph-storage-scale CEPH_STORAGE_SCALE]
                                         [--block-storage-scale BLOCK_STORAGE_SCALE]
                                         [--swift-storage-scale SWIFT_STORAGE_SCALE]
                                         [--control-flavor CONTROL_FLAVOR]
                                         [--compute-flavor COMPUTE_FLAVOR]
```

```

[--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
[--block-storage-flavor BLOCK_STORAGE_FLAVOR]
[--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
[--libvirt-type {kvm,qemu}]
[--ntp-server NTP_SERVER]
[--no-proxy NO_PROXY]
[--overcloud-ssh-user OVERCLOUD_SSH_USER]
[--overcloud-ssh-key OVERCLOUD_SSH_KEY]
[--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
[--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
[--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
[--environment-file <HEAT ENVIRONMENT FILE>]
[--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
[--roles-file ROLES_FILE]
[--networks-file NETWORKS_FILE]
[--plan-environment-file PLAN_ENVIRONMENT_FILE]
[--no-cleanup]
[--update-plan-only]
[--validation-errors-nonfatal]
[--validation-warnings-fatal]
[--disable-validations]
[--inflight-validations]
[--dry-run]
[--run-validations]
[--skip-postconfig]
[--force-postconfig]
[--skip-deploy-identifier]
[--answers-file ANSWERS_FILE]
[--disable-password-generation]
[--deployed-server]
[--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]
[--yes]

```

Converge the fast-forward upgrade on Overcloud Nodes This is the last step for completion of a fast forward upgrade. The main task is updating the plan and stack to unblock future stack updates. For the ffw upgrade workflow we have set and used the config-download Software/Structured Deployment for the OS::TripleO and OS::Heat resources. This unsets those back to their default values.

Table 58.20. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy

Value	Summary
<code>--stack STACK</code>	Stack name to create or update
<code>--timeout <TIMEOUT>, -t <TIMEOUT></code>	Deployment timeout in minutes.
<code>--control-scale CONTROL_SCALE</code>	New number of control nodes. (deprecated. use an environment file and set the parameter <code>ControllerCount</code> . This option will be removed in the "U" release.)
<code>--compute-scale COMPUTE_SCALE</code>	New number of compute nodes. (deprecated. use an environment file and set the parameter <code>ComputeCount</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-scale CEPH_STORAGE_SCALE</code>	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter <code>CephStorageCount</code> . This option will be removed in the "U" release.)
<code>--block-storage-scale BLOCK_STORAGE_SCALE</code>	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter <code>BlockStorageCount</code> . This option will be removed in the "U" release.)
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes. (deprecated. use an environment file and set the parameter <code>ObjectStorageCount</code> . This option will be removed in the "U" release.)
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)

Value	Summary
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the heat stack-create or heat stack-update commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location

Value	Summary
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from tripleo-validations, use the <code>--run-validations</code> flag. These validations are now run via the external validations in tripleo-validations.
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--run-validations</code>	Run external validations from the tripleo-validations project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.

Value	Summary
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter</code> <code>DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment
<code>--yes</code>	Use <code>--yes</code> to skip the confirmation required before any <code>ffwd-upgrade</code> operation. Use this with caution!

58.17. OVERCLOUD FFWD-UPGRADE PREPARE

Usage:

```
openstack overcloud ffwd-upgrade prepare [--templates [TEMPLATES]]
```

```

[--stack STACK]
[--timeout <TIMEOUT>]
[--control-scale CONTROL_SCALE]
[--compute-scale COMPUTE_SCALE]
[--ceph-storage-scale CEPH_STORAGE_SCALE]
[--block-storage-scale BLOCK_STORAGE_SCALE]
[--swift-storage-scale SWIFT_STORAGE_SCALE]
[--control-flavor CONTROL_FLAVOR]
[--compute-flavor COMPUTE_FLAVOR]
[--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
[--block-storage-flavor BLOCK_STORAGE_FLAVOR]
[--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
[--libvirt-type {kvm,qemu}]
[--ntp-server NTP_SERVER]
[--no-proxy NO_PROXY]
[--overcloud-ssh-user OVERCLOUD_SSH_USER]
[--overcloud-ssh-key OVERCLOUD_SSH_KEY]
[--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
[--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
[--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
[--environment-file <HEAT ENVIRONMENT FILE>]
[--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
[--roles-file ROLES_FILE]
[--networks-file NETWORKS_FILE]
[--plan-environment-file PLAN_ENVIRONMENT_FILE]
[--no-cleanup]
[--update-plan-only]
[--validation-errors-nonfatal]
[--validation-warnings-fatal]
[--disable-validations]
[--inflight-validations]
[--dry-run]
[--run-validations]
[--skip-postconfig]
[--force-postconfig]
[--skip-deploy-identifier]
[--answers-file ANSWERS_FILE]
[--disable-password-generation]
[--deployed-server]
[--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpret
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]
[--yes]

```

Run heat stack update for overcloud nodes to refresh heat stack outputs. The heat stack outputs are what we use later on to generate ansible playbooks which deliver the ffwd upgrade workflow. This is used as the first step for a fast forward upgrade of your overcloud.

Table 58.21. Optional Arguments

Value	Summary
<code>--templates [TEMPLATES]</code>	The directory containing the heat templates to deploy
<code>--stack STACK</code>	Stack name to create or update
<code>--timeout <TIMEOUT>, -t <TIMEOUT></code>	Deployment timeout in minutes.
<code>--control-scale CONTROL_SCALE</code>	New number of control nodes. (deprecated. use an environment file and set the parameter <code>ControllerCount</code> . This option will be removed in the "U" release.)
<code>--compute-scale COMPUTE_SCALE</code>	New number of compute nodes. (deprecated. use an environment file and set the parameter <code>ComputeCount</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-scale CEPH_STORAGE_SCALE</code>	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter <code>CephStorageCount</code> . This option will be removed in the "U" release.)
<code>--block-storage-scale BLOCK_STORAGE_SCALE</code>	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter <code>BlockStorageCount</code> . This option will be removed in the "U" release.)
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes. (deprecated. use an environment file and set the parameter <code>ObjectStorageCount</code> . This option will be removed in the "U" release.)
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)

Value	Summary
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the heat stack-create or heat stack-update commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory

Value	Summary
--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE	Plan environment file, overrides the default plan-environment.yaml in the --templates directory
--no-cleanup	Don't cleanup temporary files, just log their location
--update-plan-only	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
--validation-errors-nonfatal	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
--validation-warnings-fatal	Exit if there are warnings from the configuration pre-checks.
--disable-validations	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from tripleo-validations, use the --run-validations flag. These validations are now run via the external validations in tripleo-validations.
--inflight-validations	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
--dry-run	Only run validations, but do not apply any changes.
--run-validations	Run external validations from the tripleo-validations project.
--skip-postconfig	Skip the overcloud post-deployment configuration.
--force-postconfig	Force the overcloud post-deployment configuration.
--skip-deploy-identifier	Skip generation of a unique identifier for the DeployIdentifier parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.

Value	Summary
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter</code> <code>DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment
<code>--yes</code>	Use <code>--yes</code> to skip the confirmation required before any fwd-upgrade operation. Use this with caution!

58.18. OVERCLOUD FFWD-UPGRADE RUN

Usage:

```
openstack overcloud ffwd-upgrade run [-h] [--yes]
                                     [--static-inventory STATIC_INVENTORY]
                                     [--ssh-user SSH_USER]
                                     [--stack STACK] [--no-workflow]
```

Run fast forward upgrade ansible playbooks on Overcloud nodes This will run the `fast_forward_upgrade_playbook.yaml` ansible playbook. This playbook was generated when you ran the `ffwd-upgrade prepare` command. Running `'ffwd-upgrade run '` is the second step in the `ffwd` upgrade workflow.

Table 58.22. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--yes</code>	Use <code>--yes</code> to skip the confirmation required before any <code>ffwd-upgrade</code> operation. Use this with caution!
<code>--static-inventory STATIC_INVENTORY</code>	Path to an existing ansible inventory to use. if not specified, one will be generated in <code>~/tripleo-ansible-inventory.yaml</code>
<code>--ssh-user SSH_USER</code>	Deprecated: only <code>tripleo-admin</code> should be used as ssh user.
<code>--stack STACK</code>	Name or id of heat stack (default= <code>env: OVERCLOUD_STACK_NAME</code>)
<code>--no-workflow</code>	Run ansible-playbook directly via system command instead of running Ansible via the TripleO mistral workflows.

58.19. OVERCLOUD GENERATE FENCING**Usage:**

```
openstack overcloud generate fencing [-h] [-a FENCE_ACTION]
                                     [--delay DELAY] [--ipmi-lanplus]
                                     [--ipmi-no-lanplus]
                                     [--ipmi-cipher IPMI_CIPHER]
                                     [--ipmi-level IPMI_LEVEL]
                                     [--output OUTPUT]
                                     instackenv
```

Generate fencing parameters

Table 58.23. Positional Arguments

Value	Summary
None	None

Table 58.24. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-a FENCE_ACTION, --action FENCE_ACTION	Deprecated: this option is ignored.
--delay DELAY	Wait delay seconds before fencing is started
--ipmi-lanplus	Deprecated: this is the default.
--ipmi-no-lanplus	Do not use lanplus. defaults to: false
--ipmi-cipher IPMI_CIPHER	Ciphersuite to use (same as ipmitool -c parameter.
--ipmi-level IPMI_LEVEL	Privileged level on ipmi device. valid levels: callback, user, operator, administrator.
--output OUTPUT	Write parameters to a file

58.20. OVERCLOUD IMAGE BUILD

Usage:

```
openstack overcloud image build [-h] [--config-file <yaml config file>]
                                [--image-name <image name>] [--no-skip]
                                [--output-directory OUTPUT_DIRECTORY]
```

Build images for the overcloud

Table 58.25. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--config-file <yaml config file>	Yaml config file specifying the image build. may be specified multiple times. Order is preserved, and later files will override some options in previous files. Other options will append.

Value	Summary
<code>--image-name <image name></code>	Name of image to build. may be specified multiple times. If unspecified, will build all images in given YAML files.
<code>--no-skip</code>	Skip build if cached image exists.
<code>--output-directory OUTPUT_DIRECTORY</code>	Output directory for images. defaults to \$TRIPLEO_ROOT, or current directory if unset.

58.21. OVERCLOUD IMAGE UPLOAD

Usage:

```
openstack overcloud image upload [-h] [--image-path IMAGE_PATH]
                                [--os-image-name OS_IMAGE_NAME]
                                [--ironic-python-agent-name IPA_NAME]
                                [--http-boot HTTP_BOOT]
                                [--update-existing] [--whole-disk]
                                [--architecture ARCHITECTURE]
                                [--platform PLATFORM]
                                [--image-type {os,ironic-python-agent}]
                                [--progress]
```

Create overcloud glance images from existing image files.

Table 58.26. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--image-path IMAGE_PATH</code>	Path to directory containing image files
<code>--os-image-name OS_IMAGE_NAME</code>	Openstack disk image filename
<code>--ironic-python-agent-name IPA_NAME</code>	Openstack ironic-python-agent (agent) image filename
<code>--http-boot HTTP_BOOT</code>	Root directory for the ironic-python-agent image. if uploading images for multiple architectures/platforms, vary this argument such that a distinct folder is created for each architecture/platform.
<code>--update-existing</code>	Update images if already exist

Value	Summary
<code>--whole-disk</code>	When set, the overcloud-full image to be uploaded will be considered as a whole disk one
<code>--architecture ARCHITECTURE</code>	Architecture type for these images, <i>x86_64</i> , <i>i386</i> and <i>ppc64le</i> are common options. This option should match at least one <i>arch</i> value in <i>instackenv.json</i>
<code>--platform PLATFORM</code>	Platform type for these images. platform is a sub-category of architecture. For example you may have generic images for <i>x86_64</i> but offer images specific to SandyBridge (SNB).
<code>--image-type {os,ironic-python-agent}</code>	If specified, allows to restrict the image type to upload (os for the overcloud image or ironic-python-agent for the ironic-python-agent one)
<code>--progress</code>	Show progress bar for upload files action

58.22. OVERCLOUD NETENV VALIDATE

Usage:

```
openstack overcloud netenv validate [-h] [-f NETENV]
```

Validate the network environment file.

Table 58.27. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-f NETENV, --file NETENV</code>	Path to the network environment file

58.23. OVERCLOUD NODE BIOS CONFIGURE

Usage:

```
openstack overcloud node bios configure [-h] [--all-manageable]
                                         [--configuration <configuration>]
                                         [<node_uuid> [<node_uuid> ...]]
```

Apply BIOS configuration on given nodes

Table 58.28. Positional Arguments

Value	Summary
None	None

Table 58.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Configure bios for all nodes currently in <i>manageable</i> state
--configuration <configuration>	Bios configuration (yaml/json string or file name).

58.24. OVERCLOUD NODE BIOS RESET

Usage:

```
openstack overcloud node bios reset [-h] [--all-manageable]
                                     [<node_uuid> [<node_uuid> ...]]
```

Reset BIOS configuration to factory default

Table 58.30. Positional Arguments

Value	Summary
None	None

Table 58.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Reset bios on all nodes currently in <i>manageable</i> state

58.25. OVERCLOUD NODE CLEAN

Usage:

```
openstack overcloud node clean [-h] [--all-manageable] [--provide]
                                [<node_uuid> [<node_uuid> ...]]
```

Run node(s) through cleaning.

Table 58.32. Positional Arguments

Value	Summary
None	None

Table 58.33. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Clean all nodes currently in <i>manageable</i> state
--provide	Provide (make available) the nodes once cleaned

58.26. OVERCLOUD NODE CONFIGURE

Usage:

```

openstack overcloud node configure [-h] [--all-manageable]
                                   [--deploy-kernel DEPLOY_KERNEL]
                                   [--deploy-ramdisk DEPLOY_RAMDISK]
                                   [--instance-boot-option {local,netboot}]
                                   [--root-device ROOT_DEVICE]
                                   [--root-device-minimum-size ROOT_DEVICE_MINIMUM_SIZE]
                                   [--overwrite-root-device-hints]
                                   [<node_uuid> [<node_uuid> ...]]

```

Configure Node boot options.

Table 58.34. Positional Arguments

Value	Summary
None	None

Table 58.35. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Configure all nodes currently in <i>manageable</i> state
--deploy-kernel DEPLOY_KERNEL	Image with deploy kernel.
--deploy-ramdisk DEPLOY_RAMDISK	Image with deploy ramdisk.

Value	Summary
<code>--instance-boot-option {local,netboot}</code>	Whether to set instances for booting from local hard drive (local) or network (netboot).
<code>--root-device ROOT_DEVICE</code>	Define the root device for nodes. can be either a list of device names (without /dev) to choose from or one of two strategies: largest or smallest. For it to work this command should be run after the introspection.
<code>--root-device-minimum-size ROOT_DEVICE_MINIMUM_SIZE</code>	Minimum size (in gib) of the detected root device. Used with <code>--root-device</code> .
<code>--overwrite-root-device-hints</code>	Whether to overwrite existing root device hints when
<code>--root-device</code> is used.	None

58.27. OVERCLOUD NODE DELETE

Usage:

```

openstack overcloud node delete [-h] [--stack STACK]
                                [--templates [TEMPLATES]]
                                [-e <HEAT ENVIRONMENT FILE>]
                                [--timeout <TIMEOUT>] [-y]
                                <node> [<node> ...]

```

Delete overcloud nodes.

Table 58.36. Positional Arguments

Value	Summary
None	None

Table 58.37. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--stack STACK</code>	Name or id of heat stack to scale (default=env: OVERCLOUD_STACK_NAME)

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy. This argument is deprecated. The command now utilizes a deployment plan, which should be updated prior to running this command, should that be required. Otherwise this argument will be silently ignored.
-e <HEAT ENVIRONMENT FILE>, --environment-file <HEAT ENVIRONMENT FILE>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.) This argument is deprecated. The command now utilizes a deployment plan, which should be updated prior to running this command, should that be required. Otherwise this argument will be silently ignored.
--timeout <TIMEOUT>	Timeout in minutes to wait for the nodes to be deleted. Keep in mind that due to keystone session duration that timeout has an upper bound of 4 hours
-y, --yes	Skip yes/no prompt (assume yes).

58.28. OVERCLOUD NODE DISCOVER

Usage:

```

openstack overcloud node discover [-h] (--ip <ips> | --range <range>)
                                --credentials <key:value>
                                [--port <ports>] [--introspect]
                                [--run-validations] [--provide]
                                [--no-deploy-image]
                                [--instance-boot-option {local,netboot}]
                                [--concurrency CONCURRENCY]

```

Discover overcloud nodes by polling their BMCs.

Table 58.38. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--ip <ips>	Ip address(es) to probe
--range <range>	Ip range to probe
--credentials <key:value>	Key/value pairs of possible credentials

Value	Summary
<code>--port <ports></code>	Bmc port(s) to probe
<code>--introspect</code>	Introspect the imported nodes
<code>--run-validations</code>	Run the pre-deployment validations. these external validations are from the TripleO Validations project.
<code>--provide</code>	Provide (make available) the nodes
<code>--no-deploy-image</code>	Skip setting the deploy kernel and ramdisk.
<code>--instance-boot-option {local,netboot}</code>	Whether to set instances for booting from local hard drive (local) or network (netboot).
<code>--concurrency CONCURRENCY</code>	Maximum number of nodes to introspect at once.

58.29. OVERCLOUD NODE IMPORT

Usage:

```

openstack overcloud node import [-h] [--introspect] [--run-validations]
                                [--validate-only] [--provide]
                                [--no-deploy-image]
                                [--instance-boot-option {local,netboot}]
                                [--http-boot HTTP_BOOT]
                                [--concurrency CONCURRENCY]
                                env_file

```

Import baremetal nodes from a JSON, YAML or CSV file. The node status will be set to *manageable* by default.

Table 58.39. Positional Arguments

Value	Summary
None	None

Table 58.40. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--introspect</code>	Introspect the imported nodes

Value	Summary
<code>--run-validations</code>	Run the pre-deployment validations. these external validations are from the TripleO Validations project.
<code>--validate-only</code>	Validate the <code>env_file</code> and then exit without actually importing the nodes.
<code>--provide</code>	Provide (make available) the nodes
<code>--no-deploy-image</code>	Skip setting the deploy kernel and ramdisk.
<code>--instance-boot-option {local,netboot}</code>	Whether to set instances for booting from local hard drive (local) or network (netboot).
<code>--http-boot HTTP_BOOT</code>	Root directory for the ironic-python-agent image
<code>--concurrency CONCURRENCY</code>	Maximum number of nodes to introspect at once.

58.30. OVERCLOUD NODE INTROSPECT

Usage:

```
openstack overcloud node introspect [-h] [--all-manageable] [--provide]
                                     [--run-validations]
                                     [--concurrency CONCURRENCY]
                                     [<node_uuid> [<node_uuid> ...]]
```

Introspect specified nodes or all nodes in *manageable* state.

Table 58.41. Positional Arguments

Value	Summary
None	None

Table 58.42. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-manageable</code>	Introspect all nodes currently in <i>manageable</i> state
<code>--provide</code>	Provide (make available) the nodes once introspected

Value	Summary
--run-validations	Run the pre-deployment validations. these external validations are from the TripleO Validations project.
--concurrency CONCURRENCY	Maximum number of nodes to introspect at once.

58.31. OVERCLOUD NODE PROVIDE

Usage:

```
openstack overcloud node provide [-h] [--all-manageable]
                                [<node_uuid> [<node_uuid> ...]]
```

Mark nodes as available based on UUIDs or current *manageable* state.

Table 58.43. Positional Arguments

Value	Summary
None	None

Table 58.44. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Provide all nodes currently in <i>manageable</i> state

58.32. OVERCLOUD NODE PROVISION

Usage:

```
openstack overcloud node provision [-h] [-o OUTPUT] [--stack STACK]
                                   [--overcloud-ssh-user OVERCLOUD_SSH_USER]
                                   [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
                                   <baremetal_deployment.yaml>
```

Provision new nodes using Ironic.

Table 58.45. Positional Arguments

Value	Summary
None	None

Table 58.46. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-o OUTPUT, --output OUTPUT	The output environment file path
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
--overcloud-ssh-user OVERCLOUD_SSH_USER	User for ssh access to newly deployed nodes
--overcloud-ssh-key OVERCLOUD_SSH_KEY	Public key path for ssh access to newly deployed nodes

58.33. OVERCLOUD NODE UNPROVISION

Usage:

```
openstack overcloud node unprovision [-h] [--stack STACK] [--all] [-y]
                                     <baremetal_deployment.yaml>
```

Unprovisions nodes using Ironic.

Table 58.47. Positional Arguments

Value	Summary
None	None

Table 58.48. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
--all	Unprovision every instance in the deployment
-y, --yes	Skip yes/no prompt (assume yes)

58.34. OVERCLOUD PARAMETERS SET

Usage:

-

```
openstack overcloud parameters set [-h] name file_in
```

Set a parameters for a plan

Table 58.49. Positional Arguments

Value	Summary
None	None

Table 58.50. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

58.35. OVERCLOUD PLAN CREATE

Usage:

```
openstack overcloud plan create [-h] [--templates TEMPLATES]
                                [--plan-environment-file PLAN_ENVIRONMENT_FILE]
                                [--disable-password-generation]
                                [--source-url SOURCE_URL]
                                name
```

Create a deployment plan

Table 58.51. Positional Arguments

Value	Summary
None	None

Table 58.52. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--templates TEMPLATES	The directory containing the heat templates to deploy. If this or --source_url isn't provided, the templates packaged on the Undercloud will be used.
--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE	Plan environment file, overrides the default plan-environment.yaml in the --templates directory

Value	Summary
<code>--disable-password-generation</code>	Disable password generation.
<code>--source-url SOURCE_URL</code>	The url of a git repository containing the heat templates to deploy. If this or <code>--templates</code> isn't provided, the templates packaged on the Undercloud will be used.

58.36. OVERCLOUD PLAN DELETE

Usage:

```
openstack overcloud plan delete [-h] <name> [<name> ...]
```

Delete an overcloud deployment plan. The plan will not be deleted if a stack exists with the same name.

Table 58.53. Positional Arguments

Value	Summary
None	None

Table 58.54. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

58.37. OVERCLOUD PLAN DEPLOY

Usage:

```
openstack overcloud plan deploy [-h] [--timeout <TIMEOUT>]
                                [--run-validations]
                                name
```

Deploy a deployment plan

Table 58.55. Positional Arguments

Value	Summary
None	None

Table 58.56. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--run-validations	Run the pre-deployment validations. these external validations are from the TripleO Validations project.

58.38. OVERCLOUD PLAN EXPORT

Usage:

```
openstack overcloud plan export [-h] [--output-file <output file>]
                                [--force-overwrite]
                                <name>
```

Export a deployment plan

Table 58.57. Positional Arguments

Value	Summary
None	None

Table 58.58. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--output-file <output file>, -o <output file>	Name of the output file for export. it will default to "<name>.tar.gz".
--force-overwrite, -f	Overwrite output file if it exists.

58.39. OVERCLOUD PLAN LIST

Usage:

```
openstack overcloud plan list [-h] [-f {csv,json,table,value,yaml}]
                              [-c COLUMN]
                              [--quote {all,minimal,none,nonnumeric}]
                              [--noindent] [--max-width <integer>]
                              [--fit-width] [--print-empty]
                              [--sort-column SORT_COLUMN]
```

List overcloud deployment plans.

Table 58.59. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 58.60. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 58.61. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 58.62. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 58.63. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

58.40. OVERCLOUD PROFILES LIST

Usage:

```

openstack overcloud profiles list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--all]
                                [--control-scale CONTROL_SCALE]
                                [--compute-scale COMPUTE_SCALE]
                                [--ceph-storage-scale CEPH_STORAGE_SCALE]
                                [--block-storage-scale BLOCK_STORAGE_SCALE]
                                [--swift-storage-scale SWIFT_STORAGE_SCALE]
                                [--control-flavor CONTROL_FLAVOR]
                                [--compute-flavor COMPUTE_FLAVOR]
                                [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
                                [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
                                [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]

```

List overcloud node profiles

Table 58.64. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all	List all nodes, even those not available to nova.
--control-scale CONTROL_SCALE	New number of control nodes.
--compute-scale COMPUTE_SCALE	New number of compute nodes.
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes.
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes.
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes.
--control-flavor CONTROL_FLAVOR	Nova flavor to use for control nodes.
--compute-flavor COMPUTE_FLAVOR	Nova flavor to use for compute nodes.
--ceph-storage-flavor CEPH_STORAGE_FLAVOR	Nova flavor to use for ceph storage nodes.
--block-storage-flavor BLOCK_STORAGE_FLAVOR	Nova flavor to use for cinder storage nodes
--swift-storage-flavor SWIFT_STORAGE_FLAVOR	Nova flavor to use for swift storage nodes

Table 58.65. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 58.66. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 58.67. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 58.68. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

58.41. OVERCLOUD PROFILES MATCH

Usage:

```
openstack overcloud profiles match [-h] [--dry-run]
                                [--control-scale CONTROL_SCALE]
                                [--compute-scale COMPUTE_SCALE]
                                [--ceph-storage-scale CEPH_STORAGE_SCALE]
                                [--block-storage-scale BLOCK_STORAGE_SCALE]
                                [--swift-storage-scale SWIFT_STORAGE_SCALE]
```

[--control-flavor CONTROL_FLAVOR]

[--compute-flavor COMPUTE_FLAVOR]

[--ceph-storage-flavor CEPH_STORAGE_FLAVOR]

[--block-storage-flavor BLOCK_STORAGE_FLAVOR]

[--swift-storage-flavor SWIFT_STORAGE_FLAVOR]

Assign and validate profiles on nodes

Table 58.69. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--dry-run	Only run validations, but do not apply any changes.
--control-scale CONTROL_SCALE	New number of control nodes.
--compute-scale COMPUTE_SCALE	New number of compute nodes.
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes.
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes.
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes.
--control-flavor CONTROL_FLAVOR	Nova flavor to use for control nodes.
--compute-flavor COMPUTE_FLAVOR	Nova flavor to use for compute nodes.
--ceph-storage-flavor CEPH_STORAGE_FLAVOR	Nova flavor to use for ceph storage nodes.
--block-storage-flavor BLOCK_STORAGE_FLAVOR	Nova flavor to use for cinder storage nodes
--swift-storage-flavor SWIFT_STORAGE_FLAVOR	Nova flavor to use for swift storage nodes

58.42. OVERCLOUD RAID CREATE

Usage:

openstack overcloud raid create [-h] --node NODE configuration

Create RAID on given nodes

Table 58.70. Positional Arguments

Value	Summary
None	None

Table 58.71. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--node NODE	Nodes to create raid on (expected to be in manageable state). Can be specified multiple times.

58.43. OVERCLOUD ROLE LIST

Usage:

```
openstack overcloud role list [-h] [--roles-path <roles directory>]
```

List availables roles (DEPRECATED). Please use "openstack overcloud roles list" instead.

Table 58.72. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--roles-path <roles directory>	Filesystem path containing the role yaml files. by default this is /usr/share/openstack-tripleo-heat-templates/roles

58.44. OVERCLOUD ROLE SHOW

Usage:

```
openstack overcloud role show [-h] [--roles-path <roles directory>]
                               <role>
```

Show information about a given role (DEPRECATED). Please use "openstack overcloud roles show" intead.

Table 58.73. Positional Arguments

Value	Summary
None	None

Table 58.74. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--roles-path <roles directory>	Filesystem path containing the role yaml files. by default this is /usr/share/openstack-tripleo-heat-templates/roles

58.45. OVERCLOUD ROLES GENERATE

Usage:

```
openstack overcloud roles generate [-h]
                                   [--roles-path <roles directory>]
                                   [-o <output file>] [--skip-validate]
                                   <role> [<role> ...]
```

Generate roles_data.yaml file

Table 58.75. Positional Arguments

Value	Summary
None	None

Table 58.76. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--roles-path <roles directory>	Filesystem path containing the role yaml files. by default this is /usr/share/openstack-tripleo-heat-templates/roles
-o <output file>, --output-file <output file>	File to capture all output to. for example, roles_data.yaml
--skip-validate	Skip role metadata type validation whengenerating the roles_data.yaml

58.46. OVERCLOUD ROLES LIST

Usage:

```
openstack overcloud roles list [-h] [-f {csv,json,table,value,yaml}]
```

```
[ -c COLUMN]
[ --quote {all,minimal,none,nonnumeric}]
[ --noindent] [ --max-width <integer>]
[ --fit-width] [ --print-empty]
[ --sort-column SORT_COLUMN]
[ --name NAME] [ --detail] [ --current]
```

List the current and available roles in a given plan

Table 58.77. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	The name of the plan, which is used for the object storage container, workflow environment and orchestration stack names.
--detail	Include details about each role
--current	Only show the information for the roles currently enabled for the plan.

Table 58.78. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 58.79. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 58.80. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 58.81. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

58.47. OVERCLOUD ROLES SHOW

Usage:

```

openstack overcloud roles show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--name NAME]
                               <role>

```

Show details for a specific role, given a plan

Table 58.82. Positional Arguments

Value	Summary
None	None

Table 58.83. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME</code>	The name of the plan, which is used for the object storage container, workflow environment and orchestration stack names.

Table 58.84. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 58.85. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 58.86. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 58.87. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

58.48. OVERCLOUD STATUS

Usage:

```
openstack overcloud status [-h] [--plan PLAN]
```

Get deployment status

Table 58.88. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--plan PLAN, --stack PLAN	Name of the stack/plan. (default: overcloud)

58.49. OVERCLOUD SUPPORT REPORT COLLECT

Usage:

```

openstack overcloud support report collect [-h] [-c CONTAINER]
                                         [-o DESTINATION]
                                         [--skip-container-delete]
                                         [-t TIMEOUT]
                                         [-n CONCURRENCY]
                                         [--collect-only | --download-only]
server_name

```

Run sosreport on selected servers.

Table 58.89. Positional Arguments

Value	Summary
None	None

Table 58.90. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-c CONTAINER, --container CONTAINER	Swift container to store logs to
-o DESTINATION, --output DESTINATION	Output directory for the report
--skip-container-delete	Do not delete the container after the files have been downloaded. Ignored if --collect-only or --download-only is provided.
-t TIMEOUT, --timeout TIMEOUT	Maximum time to wait for the log collection and container deletion workflows to finish.
-n CONCURRENCY, --concurrency CONCURRENCY	Number of parallel log collection and object deletion tasks to run.
--collect-only	Skip log downloads, only collect logs and put in the container

Value	Summary
--download-only	Skip generation, only download from the provided container

58.50. OVERCLOUD UPDATE CONVERGE

Usage:

```

openstack overcloud update converge [--templates [TEMPLATES]]
    [--stack STACK]
    [--timeout <TIMEOUT>]
    [--control-scale CONTROL_SCALE]
    [--compute-scale COMPUTE_SCALE]
    [--ceph-storage-scale CEPH_STORAGE_SCALE]
    [--block-storage-scale BLOCK_STORAGE_SCALE]
    [--swift-storage-scale SWIFT_STORAGE_SCALE]
    [--control-flavor CONTROL_FLAVOR]
    [--compute-flavor COMPUTE_FLAVOR]
    [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
    [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
    [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
    [--libvirt-type {kvm,qemu}]
    [--ntp-server NTP_SERVER]
    [--no-proxy NO_PROXY]
    [--overcloud-ssh-user OVERCLOUD_SSH_USER]
    [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
    [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
    [--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
    [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
    [--environment-file <HEAT ENVIRONMENT FILE>]
    [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
    [--roles-file ROLES_FILE]
    [--networks-file NETWORKS_FILE]
    [--plan-environment-file PLAN_ENVIRONMENT_FILE]
    [--no-cleanup] [--update-plan-only]
    [--validation-errors-nonfatal]
    [--validation-warnings-fatal]
    [--disable-validations]
    [--inflight-validations]
    [--dry-run] [--run-validations]
    [--skip-postconfig]
    [--force-postconfig]
    [--skip-deploy-identifier]
    [--answers-file ANSWERS_FILE]
    [--disable-password-generation]
    [--deployed-server]
    [--config-download]
    [--no-config-download]
    [--config-download-only]

```

```

[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]

```

Converge the update on Overcloud nodes. This restores the plan and stack so that normal deployment workflow is back in place.

Table 58.91. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter CephStorageCount. This option will be removed in the "U" release.)
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter BlockStorageCount. This option will be removed in the "U" release.)
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes. (deprecated. use an environment file and set the parameter ObjectStorageCount. This option will be removed in the "U" release.)
--control-flavor CONTROL_FLAVOR	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter OvercloudControlFlavor. This option will be removed in the "U" release.)

Value	Summary
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)

Value	Summary
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the <code>heat stack-create</code> or <code>heat stack-update</code> commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from <code>tripleo-validations</code> , use the <code>--run-validations</code> flag. These validations are now run via the external validations in <code>tripleo-validations</code> .
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to <code>False</code> .
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--run-validations</code>	Run external validations from the <code>tripleo-validations</code> project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.

Value	Summary
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.

Value	Summary
--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml>	Configuration file describing the baremetal deployment

58.51. OVERCLOUD UPDATE PREPARE

Usage:

```

openstack overcloud update prepare [--templates [TEMPLATES]]
                                [--stack STACK]
                                [--timeout <TIMEOUT>]
                                [--control-scale CONTROL_SCALE]
                                [--compute-scale COMPUTE_SCALE]
                                [--ceph-storage-scale CEPH_STORAGE_SCALE]
                                [--block-storage-scale BLOCK_STORAGE_SCALE]
                                [--swift-storage-scale SWIFT_STORAGE_SCALE]
                                [--control-flavor CONTROL_FLAVOR]
                                [--compute-flavor COMPUTE_FLAVOR]
                                [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
                                [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
                                [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
                                [--libvirt-type {kvm,qemu}]
                                [--ntp-server NTP_SERVER]
                                [--no-proxy NO_PROXY]
                                [--overcloud-ssh-user OVERCLOUD_SSH_USER]
                                [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
                                [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
                                [--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT]
                                [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
                                [--environment-file <HEAT ENVIRONMENT FILE>]
                                [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
                                [--roles-file ROLES_FILE]
                                [--networks-file NETWORKS_FILE]
                                [--plan-environment-file PLAN_ENVIRONMENT_FILE]
                                [--no-cleanup] [--update-plan-only]
                                [--validation-errors-nonfatal]
                                [--validation-warnings-fatal]
                                [--disable-validations]
                                [--inflight-validations] [--dry-run]
                                [--run-validations]
                                [--skip-postconfig]
                                [--force-postconfig]
                                [--skip-deploy-identifier]
                                [--answers-file ANSWERS_FILE]
                                [--disable-password-generation]
                                [--deployed-server]
                                [--config-download]

```

```

[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]

```

Run heat stack update for overcloud nodes to refresh heat stack outputs. The heat stack outputs are what we use later on to generate ansible playbooks which deliver the minor update workflow. This is used as the first step for a minor update of your overcloud.

Table 58.92. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter CephStorageCount. This option will be removed in the "U" release.)
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter BlockStorageCount. This option will be removed in the "U" release.)
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes. (deprecated. use an environment file and set the parameter ObjectStorageCount. This option will be removed in the "U" release.)

Value	Summary
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)

Value	Summary
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the <code>heat stack-create</code> or <code>heat stack-update</code> commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from <code>tripleo-validations</code> , use the <code>--run-validations</code> flag. These validations are now run via the external validations in <code>tripleo-validations</code> .
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to <code>False</code> .
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--run-validations</code>	Run external validations from the <code>tripleo-validations</code> project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.

Value	Summary
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.

Value	Summary
<code>--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment

58.52. OVERCLOUD UPDATE RUN

Usage:

```
openstack overcloud update run [-h] --limit LIMIT [--playbook PLAYBOOK]
                               [--ssh-user SSH_USER]
                               [--static-inventory STATIC_INVENTORY]
                               [--stack STACK] [--no-workflow]
```

Run minor update ansible playbooks on Overcloud nodes

Table 58.93. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes to be upgraded in parallel in this upgrade run invocation. For example: <code>--limit "compute-0, compute-1, compute-5"</code> .
<code>--playbook PLAYBOOK</code>	Ansible playbook to use for the minor update. defaults to the special value <i>all</i> which causes all the update playbooks to be executed. That is the <code>update_steps_playbook.yaml</code> and then <code>thedeploy_steps_playbook.yaml</code> . Set this to each of those playbooks in consecutive invocations of this command if you prefer to run them manually. Note: make sure to run both those playbooks so that all services are updated and running with the target version configuration.
<code>--ssh-user SSH_USER</code>	Deprecated: only <code>tripleo-admin</code> should be used as ssh user.
<code>--static-inventory STATIC_INVENTORY</code>	Path to an existing ansible inventory to use. if not specified, one will be generated in <code>~/tripleo-ansible-inventory.yaml</code>

Value	Summary
<code>--stack STACK</code>	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
<code>--no-workflow</code>	Run ansible-playbook directly via system command instead of running Ansible via the TripleO mistral workflows.

58.53. OVERCLOUD UPGRADE CONVERGE

Usage:

```

openstack overcloud upgrade converge [--templates [TEMPLATES]]
    [--stack STACK]
    [--timeout <TIMEOUT>]
    [--control-scale CONTROL_SCALE]
    [--compute-scale COMPUTE_SCALE]
    [--ceph-storage-scale CEPH_STORAGE_SCALE]
    [--block-storage-scale BLOCK_STORAGE_SCALE]
    [--swift-storage-scale SWIFT_STORAGE_SCALE]
    [--control-flavor CONTROL_FLAVOR]
    [--compute-flavor COMPUTE_FLAVOR]
    [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
    [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
    [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
    [--libvirt-type {kvm,qemu}]
    [--ntp-server NTP_SERVER]
    [--no-proxy NO_PROXY]
    [--overcloud-ssh-user OVERCLOUD_SSH_USER]
    [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
    [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
    [--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
    [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
    [--environment-file <HEAT ENVIRONMENT FILE>]
    [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
    [--roles-file ROLES_FILE]
    [--networks-file NETWORKS_FILE]
    [--plan-environment-file PLAN_ENVIRONMENT_FILE]
    [--no-cleanup]
    [--update-plan-only]
    [--validation-errors-nonfatal]
    [--validation-warnings-fatal]
    [--disable-validations]
    [--inflight-validations]
    [--dry-run] [--run-validations]
    [--skip-postconfig]
    [--force-postconfig]
    [--skip-deploy-identifier]
    [--answers-file ANSWERS_FILE]
    [--disable-password-generation]

```

```

[--deployed-server]
[--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]

```

Major upgrade converge - reset Heat resources in the stored plan This is the last step for completion of a overcloud major upgrade. The main task is updating the plan and stack to unblock future stack updates. For the major upgrade workflow we have set specific values for some stack Heat resources. This unsets those back to their default values.

Table 58.94. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter CephStorageCount. This option will be removed in the "U" release.)
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter BlockStorageCount. This option will be removed in the "U" release.)
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes. (deprecated. use an environment file and set the parameter ObjectStorageCount. This option will be removed in the "U" release.)

Value	Summary
--control-flavor CONTROL_FLAVOR	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter OvercloudControlFlavor. This option will be removed in the "U" release.)
--compute-flavor COMPUTE_FLAVOR	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter OvercloudComputeFlavor. This option will be removed in the "U" release.)
--ceph-storage-flavor CEPH_STORAGE_FLAVOR	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter OvercloudCephStorageFlavor. This option will be removed in the "U" release.)
--block-storage-flavor BLOCK_STORAGE_FLAVOR	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter OvercloudBlockStorageFlavor. This option will be removed in the "U" release.)
--swift-storage-flavor SWIFT_STORAGE_FLAVOR	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter OvercloudSwiftStorageFlavor. This option will be removed in the "U" release.)
--libvirt-type {kvm,qemu}	Libvirt domain type.
--ntp-server NTP_SERVER	The ntp for overcloud nodes.
--no-proxy NO_PROXY	A comma separated list of hosts that should not be proxied.
--overcloud-ssh-user OVERCLOUD_SSH_USER	User for ssh access to overcloud nodes
--overcloud-ssh-key OVERCLOUD_SSH_KEY	Key path for ssh access to overcloud nodes.
--overcloud-ssh-network OVERCLOUD_SSH_NETWORK	Network name to use for ssh access to overcloud nodes.
--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT	Timeout for the ssh enable process to finish.
--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT	Timeout for to wait for the ssh port to become active.

Value	Summary
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the heat stack-create or heat stack-update commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default roles_data.yaml in the --templates directory. May be an absolute path or the path relative to --templates
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default network_data.yaml in the --templates directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default plan-environment.yaml in the --templates directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from tripleo-validations, use the --run-validations flag. These validations are now run via the external validations in tripleo-validations.
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Only run validations, but do not apply any changes.

Value	Summary
<code>--run-validations</code>	Run external validations from the tripleo-validations project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from theundercloud node. Must only be used with the <code>-- disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>-- config- download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.

Value	Summary
--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the --timeout parameter after the stack operation.
--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml>	Configuration file describing the baremetal deployment

58.54. OVERCLOUD UPGRADE PREPARE

Usage:

```

openstack overcloud upgrade prepare [--templates [TEMPLATES]]
                                   [--stack STACK]
                                   [--timeout <TIMEOUT>]
                                   [--control-scale CONTROL_SCALE]
                                   [--compute-scale COMPUTE_SCALE]
                                   [--ceph-storage-scale CEPH_STORAGE_SCALE]
                                   [--block-storage-scale BLOCK_STORAGE_SCALE]
                                   [--swift-storage-scale SWIFT_STORAGE_SCALE]
                                   [--control-flavor CONTROL_FLAVOR]
                                   [--compute-flavor COMPUTE_FLAVOR]
                                   [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
                                   [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
                                   [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
                                   [--libvirt-type {kvm,qemu}]
                                   [--ntp-server NTP_SERVER]
                                   [--no-proxy NO_PROXY]
                                   [--overcloud-ssh-user OVERCLOUD_SSH_USER]
                                   [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
                                   [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
                                   [--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
                                   [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
                                   [--environment-file <HEAT ENVIRONMENT FILE>]
                                   [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
                                   [--roles-file ROLES_FILE]
                                   [--networks-file NETWORKS_FILE]
                                   [--plan-environment-file PLAN_ENVIRONMENT_FILE]
                                   [--no-cleanup] [--update-plan-only]
                                   [--validation-errors-nonfatal]
                                   [--validation-warnings-fatal]
                                   [--disable-validations]
                                   [--inflight-validations]
                                   [--dry-run] [--run-validations]
                                   [--skip-postconfig]

```

```

[--force-postconfig]
[--skip-deploy-identifier]
[--answers-file ANSWERS_FILE]
[--disable-password-generation]
[--deployed-server]
[--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]

```

Run heat stack update for overcloud nodes to refresh heat stack outputs. The heat stack outputs are what we use later on to generate ansible playbooks which deliver the major upgrade workflow. This is used as the first step for a major upgrade of your overcloud.

Table 58.95. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter CephStorageCount. This option will be removed in the "U" release.)
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter BlockStorageCount. This option will be removed in the "U" release.)

Value	Summary
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes. (deprecated. use an environment file and set the parameter <code>ObjectStorageCount</code> . This option will be removed in the "U" release.)
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.

Value	Summary
<code>--overcloud-ssh-port-timeout</code> <code>OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the heat stack-create or heat stack-update commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default roles_data.yaml in the --templates directory. May be an absolute path or the path relative to --templates
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default network_data.yaml in the --templates directory
<code>--plan-environment-file</code> <code>PLAN_ENVIRONMENT_FILE, -p</code> <code>PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default plan-environment.yaml in the --templates directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from tripleo-validations, use the --run-validations flag. These validations are now run via the external validations in tripleo-validations.
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.

Value	Summary
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--run-validations</code>	Run external validations from the tripleo-validations project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .

Value	Summary
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter</code> <code>DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment

58.55. OVERCLOUD UPGRADE RUN

Usage:

```

openstack overcloud upgrade run [-h] --limit LIMIT
                                [--playbook PLAYBOOK]
                                [--static-inventory STATIC_INVENTORY]
                                [--ssh-user SSH_USER] [--tags TAGS]
                                [--skip-tags SKIP_TAGS] [--stack STACK]
                                [--no-workflow]

```

Run major upgrade ansible playbooks on Overcloud nodes This will run the major upgrade ansible playbooks on the overcloud. By default all playbooks are executed, that is the `upgrade_steps_playbook.yaml` then the `deploy_steps_playbook.yaml` and then the `post_upgrade_steps_playbook.yaml`. The upgrade playbooks are made available after completion of the *overcloud upgrade prepare* command. This *overcloud upgrade run* command is the second step in the major upgrade workflow.

Table 58.96. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separatedlist of nodes to be upgraded in parallel in this upgrade run invocation. For example: <code>--limit "compute-0, compute-1, compute-5"</code> .

Value	Summary
<code>--playbook PLAYBOOK</code>	Ansible playbook to use for the major upgrade. Defaults to the special value <i>all</i> which causes all the upgrade playbooks to run. That is the <code>upgrade_steps_playbook.yaml</code> then <code>deploy_steps_playbook.yaml</code> and then <code>post_upgrade_steps_playbook.yaml</code> . Set this to each of those playbooks in consecutive invocations of this command if you prefer to run them manually. Note: you will have to run all of those playbooks so that all services are upgraded and running with the target version configuration.
<code>--static-inventory STATIC_INVENTORY</code>	Path to an existing ansible inventory to use. if not specified, one will be generated in <code>~/tripleo-ansible-inventory.yaml</code>
<code>--ssh-user SSH_USER</code>	Deprecated: only <code>tripleo-admin</code> should be used as ssh user.
<code>--tags TAGS</code>	A string specifying the tag or comma separated list of tags to be passed as <code>--tags</code> to <code>ansible-playbook</code> .
<code>--skip-tags SKIP_TAGS</code>	A string specifying the tag or comma separated list of tags to be passed as <code>--skip-tags</code> to <code>ansible-playbook</code> . The currently supported values are <i>validation</i> and <i>pre-upgrade</i> . In particular <i>validation</i> is useful if you must re-run following a failed upgrade and some services cannot be started.
<code>--stack STACK</code>	Name or id of heat stack (default= <code>env: OVERCLOUD_STACK_NAME</code>)
<code>--no-workflow</code>	Run <code>ansible-playbook</code> directly via system command instead of running Ansible via the TripleO mistral workflows.

CHAPTER 59. POLICY

This chapter describes the commands under the **policy** command.

59.1. POLICY CREATE

Usage:

```
openstack policy create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--type <type>]
                        <filename>
```

Create new policy

Table 59.1. Positional Arguments

Value	Summary
None	None

Table 59.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	New mime type of the policy rules file (defaults to application/json)

Table 59.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 59.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 59.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 59.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

59.2. POLICY DELETE

Usage:

```
openstack policy delete [-h] <policy> [<policy> ...]
```

Delete policy(s)

Table 59.7. Positional Arguments

Value	Summary
None	None

Table 59.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

59.3. POLICY LIST

Usage:

```
openstack policy list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
                    [--fit-width] [--print-empty]
                    [--sort-column SORT_COLUMN] [--long]
```

List policies

Table 59.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 59.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 59.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 59.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 59.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

59.4. POLICY SET

Usage:

```
openstack policy set [-h] [--type <type>] [--rules <filename>] <policy>
```

Set policy properties

Table 59.14. Positional Arguments

Value	Summary
None	None

Table 59.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type <type></code>	New mime type of the policy rules file
<code>--rules <filename></code>	New serialized policy rules file

59.5. POLICY SHOW

Usage:

```
openstack policy show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <policy>
```

Display policy details

Table 59.16. Positional Arguments

Value	Summary
None	None

Table 59.17. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 59.18. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 59.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 59.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 59.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 60. PORT

This chapter describes the commands under the **port** command.

60.1. PORT CREATE

Usage:

```
openstack port create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] --network <network>
                    [--description <description>]
                    [--device <device-id>]
                    [--mac-address <mac-address>]
                    [--device-owner <device-owner>]
                    [--vnic-type <vnic-type>] [--host <host-id>]
                    [--dns-domain dns-domain] [--dns-name <dns-name>]
                    [--fixed-ip subnet=<subnet>,ip-address=<ip-address> | --no-fixed-ip]
                    [--binding-profile <binding-profile>]
                    [--enable | --disable]
                    [--enable-uplink-status-propagation | --disable-uplink-status-propagation]
                    [--project <project>]
                    [--project-domain <project-domain>]
                    [--extra-dhcp-option name=<name>[,value=<value>,ip-version={4,6}]]
                    [--security-group <security-group> | --no-security-group]
                    [--qos-policy <qos-policy>]
                    [--enable-port-security | --disable-port-security]
                    [--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]]
                    [--tag <tag> | --no-tag]
                    <name>
```

Create a new port

Table 60.1. Positional Arguments

Value	Summary
None	None

Table 60.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--network <network>	Network this port belongs to (name or id)
--description <description>	Description of this port
--device <device-id>	Port device id

Value	Summary
--mac-address <mac-address>	Mac address of this port (admin only)
--device-owner <device-owner>	Device owner of this port. this is the entity that uses the port (for example, network:dhcp).
--vnic-type <vnic-type>	Vnic type for this port (direct
direct-physical	macvtap
normal	baremetal
virtio-forwarder, default: normal)	--host <host-id>
Allocate port on host <host-id> (id only)	--dns-domain dns-domain
Set dns domain to this port (requires dns_domain extension for ports)	--dns-name <dns-name>
Set dns name for this port (requires dns integration extension)	--fixed-ip subnet=<subnet>,ip-address=<ip-address>
Desired ip and/or subnet for this port (name or id): subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)	--no-fixed-ip
No ip or subnet for this port.	--binding-profile <binding-profile>
Custom data to be passed as binding:profile. data may be passed as <key>=<value> or JSON. (repeat option to set multiple binding:profile data)	--enable
Enable port (default)	--disable
Disable port	--enable-uplink-status-propagation
Enable uplink status propagate	--disable-uplink-status-propagation
Disable uplink status propagate (default)	--project <project>
Owner's project (name or id)	--project-domain <project-domain>
Domain the project belongs to (name or id). this can be used in case collisions between project names exist.	--extra-dhcp-option name=<name>[,value=<value>],ip-version={4,6}]

Value	Summary
Extra dhcp options to be assigned to this port: name=<name>[,value=<value>,ip-version={4,6}] (repeat option to set multiple extra DHCP options)	--security-group <security-group>
Security group to associate with this port (name or ID) (repeat option to set multiple security groups)	--no-security-group
Associate no security groups with this port	--qos-policy <qos-policy>
Attach qos policy to this port (name or id)	--enable-port-security
Enable port security for this port (default)	--disable-port-security
Disable port security for this port	--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]
Add allowed-address pair associated with this port: ip-address=<ip-address>[,mac-address=<mac-address>] (repeat option to set multiple allowed-address pairs)	--tag <tag>
Tag to be added to the port (repeat option to set multiple tags)	--no-tag

Table 60.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 60.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 60.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 60.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

60.2. PORT DELETE

Usage:

```
openstack port delete [-h] <port> [<port> ...]
```

Delete port(s)

Table 60.7. Positional Arguments

Value	Summary
None	None

Table 60.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

60.3. PORT LIST

Usage:

```
openstack port list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--device-owner <device-owner>]
                    [--network <network>]
                    [--router <router> | --server <server> | --device-id <device-id>]
                    [--mac-address <mac-address>] [--long]
                    [--project <project>]
                    [--project-domain <project-domain>]
                    [--fixed-ip subnet=<subnet>,ip-address=<ip-address>,ip-substring=<ip-substring>]
```



```

[--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

List ports

Table 60.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--device-owner <device-owner>	List only ports with the specified device owner. this is the entity that uses the port (for example, network:dhcp).
--network <network>	List only ports connected to this network (name or id)
--router <router>	List only ports attached to this router (name or id)
--server <server>	List only ports attached to this server (name or id)
--device-id <device-id>	List only ports with the specified device id
--mac-address <mac-address>	List only ports with this mac address
--long	List additional fields in output
--project <project>	List ports according to their project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--fixed-ip subnet=<subnet>,ip-address=<ip-address>,ip-substring=<ip-substring>	Desired ip and/or subnet for filtering ports (name or ID): subnet=<subnet>,ip-address=<ip-address>,ip-substring=<ip-substring> (repeat option to set multiple fixed IP addresses)
--tags <tag>[,<tag>,...]	List ports which have all given tag(s) (comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List ports which have any given tag(s) (comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude ports which have all given tag(s) (comma-separated list of tags)

Value	Summary
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude ports which have any given tag(s) (comma-separated list of tags)

Table 60.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 60.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 60.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 60.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

60.4. PORT SET

Usage:

```

openstack port set [-h] [--description <description>]
                  [--device <device-id>] [--mac-address <mac-address>]
                  [--device-owner <device-owner>]
                  [--vnic-type <vnic-type>] [--host <host-id>]
                  [--dns-domain dns-domain] [--dns-name <dns-name>]
                  [--enable | --disable] [--name <name>]
                  [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
                  [--no-fixed-ip]
                  [--binding-profile <binding-profile>]
                  [--no-binding-profile] [--qos-policy <qos-policy>]
                  [--security-group <security-group>]
                  [--no-security-group]
                  [--enable-port-security | --disable-port-security]
                  [--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]]
                  [--no-allowed-address]
                  [--data-plane-status <status>] [--tag <tag>]
                  [--no-tag]
                  <port>

```

Set port properties

Table 60.14. Positional Arguments

Value	Summary
None	None

Table 60.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of this port
--device <device-id>	Port device id
--mac-address <mac-address>	Mac address of this port (admin only)
--device-owner <device-owner>	Device owner of this port. this is the entity that uses the port (for example, network:dhcp).
--vnic-type <vnic-type>	Vnic type for this port (direct
direct-physical	macvtap
normal	baremetal

Value	Summary
virtio-forwarder, default: normal)	--host <host-id>
Allocate port on host <host-id> (id only)	--dns-domain dns-domain
Set dns domain to this port (requires dns_domain extension for ports)	--dns-name <dns-name>
Set dns name for this port (requires dns integration extension)	--enable
Enable port	--disable
Disable port	--name <name>
Set port name	--fixed-ip subnet=<subnet>,ip-address=<ip-address>
Desired ip and/or subnet for this port (name or id): subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)	--no-fixed-ip
Clear existing information of fixed ip addresses.Specify both --fixed-ip and --no-fixed-ip to overwrite the current fixed IP addresses.	--binding-profile <binding-profile>
Custom data to be passed as binding:profile. data may be passed as <key>=<value> or JSON. (repeat option to set multiple binding:profile data)	--no-binding-profile
Clear existing information of binding:profile. specify both --binding-profile and --no-binding-profile to overwrite the current binding:profile information.	--qos-policy <qos-policy>
Attach qos policy to this port (name or id)	--security-group <security-group>
Security group to associate with this port (name or ID) (repeat option to set multiple security groups)	--no-security-group
Clear existing security groups associated with this port	--enable-port-security
Enable port security for this port	--disable-port-security
Disable port security for this port	--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]

Value	Summary
Add allowed-address pair associated with this port: ip-address=<ip-address>[,mac-address=<mac-address>] (repeat option to set multiple allowed-address pairs)	--no-allowed-address
Clear existing allowed-address pairs associated with this port. (Specify both --allowed-address and --no-allowed-address to overwrite the current allowed-address pairs)	--data-plane-status <status>
Set data plane status of this port (active	down). Unset it to None with the <i>port unset</i> command (requires data plane status extension)
--tag <tag>	Tag to be added to the port (repeat option to set multiple tags)
--no-tag	Clear tags associated with the port. specify both
--tag and --no-tag to overwrite current tags	None

60.5. PORT SHOW

Usage:

```

openstack port show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <port>

```

Display port details

Table 60.16. Positional Arguments

Value	Summary
None	None

Table 60.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 60.18. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 60.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 60.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 60.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

60.6. PORT UNSET

Usage:

```

openstack port unset [-h]
                    [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
                    [--binding-profile <binding-profile-key>]
                    [--security-group <security-group>]
                    [--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]]
                    [--qos-policy] [--data-plane-status]
                    [--tag <tag> | --all-tag]
                    <port>

```

Unset port properties

Table 60.22. Positional Arguments

Value	Summary
None	None

Table 60.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--fixed-ip subnet=<subnet>,ip-address=<ip-address>	Desired ip and/or subnet which should be removed from this port (name or ID): subnet=<subnet>,ip-address=<ip-address> (repeat option to unset multiple fixed IP addresses)
--binding-profile <binding-profile-key>	Desired key which should be removed from binding:profile (repeat option to unset multiple binding:profile data)
--security-group <security-group>	Security group which should be removed this port (name or ID) (repeat option to unset multiple security groups)
--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]	Desired allowed-address pair which should be removed from this port: ip-address=<ip-address> [,mac-address=<mac-address>] (repeat option to unset multiple allowed-address pairs)
--qos-policy	Remove the qos policy attached to the port
--data-plane-status	Clear existing information of data plane status
--tag <tag>	Tag to be removed from the port (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the port

CHAPTER 61. PROJECT

This chapter describes the commands under the **project** command.

61.1. PROJECT CREATE

Usage:

```
openstack project create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--domain <domain>]
                        [--parent <project>]
                        [--description <description>]
                        [--enable | --disable]
                        [--property <key=value>] [--or-show]
                        [--tag <tag>]
                        <project-name>
```

Create new project

Table 61.1. Positional Arguments

Value	Summary
None	None

Table 61.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning the project (name or id)
--parent <project>	Parent of the project (name or id)
--description <description>	Project description
--enable	Enable project
--disable	Disable project
--property <key=value>	Add a property to <name> (repeat option to set multiple properties)
--or-show	Return existing project

Value	Summary
<code>--tag <tag></code>	Tag to be added to the project (repeat option to set multiple tags)

Table 61.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 61.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 61.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 61.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

61.2. PROJECT DELETE

Usage:

```
openstack project delete [-h] [--domain <domain>]
                        <project> [<project> ...]
```

Delete project(s)

Table 61.7. Positional Arguments

Value	Summary
None	None

Table 61.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <project> (name or id)

61.3. PROJECT LIST

Usage:

```

openstack project list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--domain <domain>]
                        [--user <user>] [--my-projects] [--long]
                        [--sort <key>[:<direction>]]
                        [--tags <tag>[,<tag>,...]]
                        [--tags-any <tag>[,<tag>,...]]
                        [--not-tags <tag>[,<tag>,...]]
                        [--not-tags-any <tag>[,<tag>,...]]

```

List projects

Table 61.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Filter projects by <domain> (name or id)
--user <user>	Filter projects by <user> (name or id)
--my-projects	List projects for the authenticated user. supersedes other filters.
--long	List additional fields in output

Value	Summary
<code>--sort <key>[:<direction>]</code>	Sort output by selected keys and directions (asc or desc) (default: asc), repeat this option to specify multiple keys and directions.
<code>--tags <tag>[,<tag>,...]</code>	List projects which have all given tag(s) (comma-separated list of tags)
<code>--tags-any <tag>[,<tag>,...]</code>	List projects which have any given tag(s) (comma-separated list of tags)
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude projects which have all given tag(s) (comma-separated list of tags)
<code>--not-tags-any <tag>[,<tag>,...]</code>	Exclude projects which have any given tag(s) (comma-separated list of tags)

Table 61.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 61.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 61.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 61.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

61.4. PROJECT PURGE

Usage:

```
openstack project purge [-h] [--dry-run] [--keep-project]
                        (--auth-project | --project <project>)
                        [--project-domain <project-domain>]
```

Clean resources associated with a project

Table 61.14. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--dry-run</code>	List a project's resources
<code>--keep-project</code>	Clean project resources, but don't delete the project
<code>--auth-project</code>	Delete resources of the project used to authenticate
<code>--project <project></code>	Project to clean (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

61.5. PROJECT SET

Usage:

```
openstack project set [-h] [--name <name>] [--domain <domain>]
                      [--description <description>]
                      [--enable | --disable] [--property <key=value>]
```

```
[--tag <tag>] [--clear-tags] [--remove-tag <tag>]
<project>
```

Set project properties

Table 61.15. Positional Arguments

Value	Summary
None	None

Table 61.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set project name
--domain <domain>	Domain owning <project> (name or id)
--description <description>	Set project description
--enable	Enable project
--disable	Disable project
--property <key=value>	Set a property on <project> (repeat option to set multiple properties)
--tag <tag>	Tag to be added to the project (repeat option to set multiple tags)
--clear-tags	Clear tags associated with the project. specify both
--tag and --clear-tags to overwrite current tags --remove-tag <tag>	Tag to be deleted from the project (repeat option to delete multiple tags)

61.6. PROJECT SHOW

Usage:

```
openstack project show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--domain <domain>] [--parents]
                        [--children]
                        <project>
```

Display project details

Table 61.17. Positional Arguments

Value	Summary
None	None

Table 61.18. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <project> (name or id)
--parents	Show the project's parents as a list
--children	Show project's subtree (children) as a list

Table 61.19. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 61.20. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 61.21. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 61.22. Table Formatter

Value	Summary

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 62. PTR

This chapter describes the commands under the **ptr** command.

62.1. PTR RECORD LIST

Usage:

```
openstack ptr record list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
```

List floatingip ptr records

Table 62.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 62.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 62.3. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 62.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 62.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

62.2. PTR RECORD SET

Usage:

```
openstack ptr record set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        [--description DESCRIPTION | --no-description]
                        [--ttl TTL | --no-ttl] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
floatingip_id ptrdname
```

Set floatingip ptr record

Table 62.6. Positional Arguments

Value	Summary
None	None

Table 62.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Description
--no-description --ttl TTL	Ttl
--no-ttl --all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 62.8. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 62.9. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 62.10. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 62.11. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

62.3. PTR RECORD SHOW

Usage:

```
openstack ptr record show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          floatingip_id
```

Show floatingip ptr record details

Table 62.12. Positional Arguments

Value	Summary
None	None

Table 62.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 62.14. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 62.15. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 62.16. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 62.17. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

62.4. PTR RECORD UNSET

Usage:

```
openstack ptr record unset [-h] [--all-projects] [--edit-managed]
                           [--sudo-project-id SUDO_PROJECT_ID]
                           floatingip_id
```

Unset floatingip ptr record

Table 62.18. Positional Arguments

Value	Summary
None	None

Table 62.19. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

CHAPTER 63. QUOTA

This chapter describes the commands under the **quota** command.

63.1. QUOTA LIST

Usage:

```
openstack quota list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--project <project>] [--detail]
                    (--compute | --volume | --network)
```

List quotas for all projects with non-default quota values or list detailed quota informations for requested project

Table 63.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	List quotas for this project <project> (name or id)
--detail	Show details about quotas usage
--compute	List compute quota
--volume	List volume quota
--network	List network quota

Table 63.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 63.3. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 63.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 63.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

63.2. QUOTA SET

Usage:

```

openstack quota set [-h] [--class] [--cores <cores>]
                    [--fixed-ips <fixed-ips>]
                    [--injected-file-size <injected-file-size>]
                    [--injected-path-size <injected-path-size>]
                    [--injected-files <injected-files>]
                    [--instances <instances>] [--key-pairs <key-pairs>]
                    [--properties <properties>] [--ram <ram>]
                    [--server-groups <server-groups>]
                    [--server-group-members <server-group-members>]
                    [--backups <backups>]
                    [--backup-gigabytes <backup-gigabytes>]
                    [--gigabytes <gigabytes>]
                    [--per-volume-gigabytes <per-volume-gigabytes>]
                    [--snapshots <snapshots>] [--volumes <volumes>]
                    [--floating-ips <floating-ips>]
                    [--secgroup-rules <secgroup-rules>]
                    [--secgroups <secgroups>] [--networks <networks>]
                    [--subnets <subnets>] [--ports <ports>]
                    [--routers <routers>]
                    [--rbac-policies <rbac-policies>]

```

```

[--subnetpools <subnetpools>]
[--volume-type <volume-type>]
<project/class>

```

Set quotas for project or class

Table 63.6. Positional Arguments

Value	Summary
None	None

Table 63.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--class	Set quotas for <class>
--cores <cores>	New value for the cores quota
--fixed-ips <fixed-ips>	New value for the fixed-ips quota
--injected-file-size <injected-file-size>	New value for the injected-file-size quota
--injected-path-size <injected-path-size>	New value for the injected-path-size quota
--injected-files <injected-files>	New value for the injected-files quota
--instances <instances>	New value for the instances quota
--key-pairs <key-pairs>	New value for the key-pairs quota
--properties <properties>	New value for the properties quota
--ram <ram>	New value for the ram quota
--server-groups <server-groups>	New value for the server-groups quota
--server-group-members <server-group-members>	New value for the server-group-members quota
--backups <backups>	New value for the backups quota
--backup-gigabytes <backup-gigabytes>	New value for the backup-gigabytes quota
--gigabytes <gigabytes>	New value for the gigabytes quota

Value	Summary
--per-volume-gigabytes <per-volume-gigabytes>	New value for the per-volume-gigabytes quota
--snapshots <snapshots>	New value for the snapshots quota
--volumes <volumes>	New value for the volumes quota
--floating-ips <floating-ips>	New value for the floating-ips quota
--secgroup-rules <secgroup-rules>	New value for the secgroup-rules quota
--secgroups <secgroups>	New value for the secgroups quota
--networks <networks>	New value for the networks quota
--subnets <subnets>	New value for the subnets quota
--ports <ports>	New value for the ports quota
--routers <routers>	New value for the routers quota
--rbac-policies <rbac-policies>	New value for the rbac-policies quota
--subnetpools <subnetpools>	New value for the subnetpools quota
--volume-type <volume-type>	Set quotas for a specific <volume-type>

63.3. QUOTA SHOW

Usage:

```
openstack quota show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--class | --default]
                    [<project/class>]
```

Show quotas for project or class. Specify ``--os-compute-api-version 2.50`` or higher to see ``server-groups`` and ``server-group-members`` output for a given quota class.

Table 63.8. Positional Arguments

Value	Summary
None	None

Table 63.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--class	Show quotas for <class>
--default	Show default quotas for <project>

Table 63.10. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 63.11. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 63.12. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 63.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 64. RECORDSET

This chapter describes the commands under the **recordset** command.

64.1. RECORDSET CREATE

Usage:

```
openstack recordset create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] --record RECORD --type TYPE
                          [--ttl TTL] [--description DESCRIPTION]
                          [--all-projects] [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          zone_id name
```

Create new recordset

Table 64.1. Positional Arguments

Value	Summary
None	None

Table 64.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--record RECORD	Recordset record, repeat if necessary
--type TYPE	Recordset type
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 64.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 64.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 64.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 64.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

64.2. RECORDSET DELETE

Usage:

```

openstack recordset delete [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty] [--all-projects]
                           [--edit-managed]
                           [--sudo-project-id SUDO_PROJECT_ID]
                           zone_id id

```

Delete recordset

Table 64.7. Positional Arguments

Value	Summary
None	None

Table 64.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 64.9. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 64.10. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 64.11. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 64.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-designateclient</code> plugin.

64.3. RECORDSET LIST

Usage:

```

openstack recordset list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--name NAME]
                        [--type TYPE] [--data DATA] [--ttl TTL]
                        [--description DESCRIPTION] [--status STATUS]
                        [--action ACTION] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        zone_id

```

List recordsets

Table 64.13. Positional Arguments

Value	Summary
None	None

Table 64.14. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME</code>	Recordset name
<code>--type TYPE</code>	Recordset type

Value	Summary
--data DATA	Recordset record data
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description
--status STATUS	Recordset status
--action ACTION	Recordset action
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 64.15. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 64.16. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 64.17. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 64.18. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-designateclient</code> plugin.

64.4. RECORDSET SET

Usage:

```

openstack recordset set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--record RECORD]
                        [--description DESCRIPTION | --no-description]
                        [--ttl TTL | --no-ttl] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        zone_id id

```

Set recordset properties

Table 64.19. Positional Arguments

Value	Summary
None	None

Table 64.20. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--record RECORD</code>	Recordset record, repeat if necessary
<code>--description DESCRIPTION</code>	Description
<code>--no-description --ttl TTL</code>	Ttl

Value	Summary
<code>--no-ttl --all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 64.21. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 64.22. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 64.23. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 64.24. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

64.5. RECORDSET SHOW

Usage:

```
openstack recordset show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        zone_id id
```

Show recordset details

Table 64.25. Positional Arguments

Value	Summary
None	None

Table 64.26. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 64.27. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 64.28. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 64.29. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 64.30. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

CHAPTER 65. REGION

This chapter describes the commands under the **region** command.

65.1. REGION CREATE

Usage:

```
openstack region create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--parent-region <region-id>]
                        [--description <description>]
                        <region-id>
```

Create new region

Table 65.1. Positional Arguments

Value	Summary
None	None

Table 65.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--parent-region <region-id>	Parent region id
--description <description>	New region description

Table 65.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 65.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 65.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 65.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

65.2. REGION DELETE

Usage:

```
openstack region delete [-h] <region-id> [<region-id> ...]
```

Delete region(s)

Table 65.7. Positional Arguments

Value	Summary
None	None

Table 65.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

65.3. REGION LIST

Usage:

```
openstack region list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
```

```
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--parent-region <region-id>]
```

List regions

Table 65.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--parent-region <region-id>	Filter by parent region id

Table 65.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 65.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 65.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 65.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

65.4. REGION SET

Usage:

```

openstack region set [-h] [--parent-region <region-id>]
                    [--description <description>]
                    <region-id>

```

Set region properties

Table 65.14. Positional Arguments

Value	Summary
None	None

Table 65.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--parent-region <region-id>	New parent region id
--description <description>	New region description

65.5. REGION SHOW

Usage:

```

openstack region show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <region-id>

```

Display region details

Table 65.16. Positional Arguments

Value	Summary
None	None

Table 65.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 65.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 65.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 65.20. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 65.21. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 66. REGISTERED

This chapter describes the commands under the **registered** command.

66.1. REGISTERED LIMIT CREATE

Usage:

```
openstack registered limit create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description <description>]
                                [--region <region>] --service
                                <service> --default-limit
                                <default-limit>
                                <resource-name>
```

Create a registered limit

Table 66.1. Positional Arguments

Value	Summary
None	None

Table 66.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the registered limit
--region <region>	Region for the registered limit to affect
--service <service>	Service responsible for the resource to limit (required)
--default-limit <default-limit>	The default limit for the resources to assume (required)

Table 66.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 66.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 66.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 66.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

66.2. REGISTERED LIMIT DELETE

Usage:

```
openstack registered limit delete [-h]
                                <registered-limit-id>
                                [<registered-limit-id> ...]
```

Delete a registered limit

Table 66.7. Positional Arguments

Value	Summary
None	None

Table 66.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

66.3. REGISTERED LIMIT LIST

Usage:

```

openstack registered limit list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--service <service>]
                                [--resource-name <resource-name>]
                                [--region <region>]

```

List registered limits

Table 66.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--service <service>	Service responsible for the resource to limit
--resource-name <resource-name>	The name of the resource to limit
--region <region>	Region for the limit to affect.

Table 66.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 66.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 66.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 66.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

66.4. REGISTERED LIMIT SET

Usage:

```

openstack registered limit set [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--service <service>]
                               [--resource-name <resource-name>]
                               [--default-limit <default-limit>]
                               [--description <description>]
                               [--region <region>]
                               <registered-limit-id>

```

Update information about a registered limit

Table 66.14. Positional Arguments

Value	Summary
None	None

Table 66.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--service <service>	Service to be updated responsible for the resource to limit. Either --service, --resource-name or --region must be different than existing value otherwise it will be duplicate entry
--resource-name <resource-name>	Resource to be updated responsible for the resource to limit. Either --service, --resource-name or --region must be different than existing value otherwise it will be duplicate entry
--default-limit <default-limit>	The default limit for the resources to assume
--description <description>	Description to update of the registered limit
--region <region>	Region for the registered limit to affect. either
--service, --resource-name or --region must be	Different than existing value otherwise it will be duplicate entry

Table 66.16. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 66.17. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 66.18. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 66.19. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

66.5. REGISTERED LIMIT SHOW

Usage:

```
openstack registered limit show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <registered-limit-id>
```

Display registered limit details

Table 66.20. Positional Arguments

Value	Summary
None	None

Table 66.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 66.22. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 66.23. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 66.24. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 66.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 67. REQUEST

This chapter describes the commands under the **request** command.

67.1. REQUEST TOKEN AUTHORIZE

Usage:

```
openstack request token authorize [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --request-key
                                <request-key> --role <role>
```

Authorize a request token

Table 67.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--request-key <request-key>	Request token to authorize (id only) (required)
--role <role>	Roles to authorize (name or id) (repeat option to set multiple values) (required)

Table 67.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 67.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 67.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 67.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

67.2. REQUEST TOKEN CREATE

Usage:

```

openstack request token create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] --consumer-key
                               <consumer-key> --consumer-secret
                               <consumer-secret> --project <project>
                               [--domain <domain>]

```

Create a request token

Table 67.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--consumer-key <consumer-key>	Consumer key (required)
--consumer-secret <consumer-secret>	Consumer secret (required)
--project <project>	Project that consumer wants to access (name or id) (required)
--domain <domain>	Domain owning <project> (name or id)

Table 67.7. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 67.8. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 67.9. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 67.10. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 68. RESOURCE

This chapter describes the commands under the **resource** command.

68.1. RESOURCE MEMBER CREATE

Usage:

```
openstack resource member create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                resource_id resource_type member_id
```

Shares a resource to another tenant.

Table 68.1. Positional Arguments

Value	Summary
None	None

Table 68.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 68.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 68.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 68.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

68.2. RESOURCE MEMBER DELETE

Usage:

```
openstack resource member delete [-h] resource resource_type member_id
```

Delete a resource sharing relationship.

Table 68.7. Positional Arguments

Value	Summary
None	None

Table 68.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-mistralclient</code> plugin.

68.3. RESOURCE MEMBER LIST

Usage:

```
openstack resource member list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
```

```

[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--marker [MARKER]] [--limit [LIMIT]]
[--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]]
[--filter FILTERS]
resource_id resource_type

```

List all members.

Table 68.9. Positional Arguments

Value	Summary
None	None

Table 68.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Table 68.11. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 68.12. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 68.13. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 68.14. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

68.4. RESOURCE MEMBER SHOW

Usage:

```

openstack resource member show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [-m MEMBER_ID]
                               resource resource_type

```

Show specific member information.

Table 68.15. Positional Arguments

Value	Summary
None	None

Table 68.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-m MEMBER_ID, --member-id MEMBER_ID	Project id to whom the resource is shared to. no need to provide this param if you are the resource member.

Table 68.17. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 68.18. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.19. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 68.20. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

68.5. RESOURCE MEMBER UPDATE

Usage:

```

openstack resource member update [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [-m MEMBER_ID]
                                [-s {pending,accepted,rejected}]
                                resource_id resource_type

```

Update resource sharing status.

Table 68.21. Positional Arguments

Value	Summary
None	None

Table 68.22. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-m MEMBER_ID, --member-id MEMBER_ID</code>	Project id to whom the resource is shared to. no need to provide this param if you are the resource member.
<code>-s {pending,accepted,rejected}, --status {pending,accepted,rejected}</code>	Status of the sharing.

Table 68.23. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 68.24. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 68.25. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 68.26. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

CHAPTER 69. ROLE

This chapter describes the commands under the **role** command.

69.1. ROLE ADD

Usage:

```
openstack role add [-h]
                    [--system <system> | --domain <domain> | --project <project>]
                    [--user <user> | --group <group>]
                    [--group-domain <group-domain>]
                    [--project-domain <project-domain>]
                    [--user-domain <user-domain>] [--inherited]
                    [--role-domain <role-domain>]
                    <role>
```

Adds a role assignment to a user or group on the system, a domain, or a project

Table 69.1. Positional Arguments

Value	Summary
None	None

Table 69.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--system <system>	Include <system> (all)
--domain <domain>	Include <domain> (name or id)
--project <project>	Include <project> (name or id)
--user <user>	Include <user> (name or id)
--group <group>	Include <group> (name or id)
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Value	Summary
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
<code>--inherited</code>	Specifies if the role grant is inheritable to the sub projects
<code>--role-domain <role-domain></code>	Domain the role belongs to (name or id). this must be specified when the name of a domain specific role is used.

69.2. ROLE ASSIGNMENT LIST

Usage:

```

openstack role assignment list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--effective] [--role <role>]
                               [--role-domain <role-domain>] [--names]
                               [--user <user>]
                               [--user-domain <user-domain>]
                               [--group <group>]
                               [--group-domain <group-domain>]
                               [--domain <domain> | --project <project> | --system <system>]
                               [--project-domain <project-domain>]
                               [--inherited] [--auth-user]
                               [--auth-project]

```

List role assignments

Table 69.3. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--effective</code>	Returns only effective role assignments
<code>--role <role></code>	Role to filter (name or id)
<code>--role-domain <role-domain></code>	Domain the role belongs to (name or id). this must be specified when the name of a domain specific role is used.
<code>--names</code>	Display names instead of ids

Value	Summary
--user <user>	User to filter (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--group <group>	Group to filter (name or id)
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--domain <domain>	Domain to filter (name or id)
--project <project>	Project to filter (name or id)
--system <system>	Filter based on system role assignments
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--inherited	Specifies if the role grant is inheritable to the sub projects
--auth-user	Only list assignments for the authenticated user
--auth-project	Only list assignments for the project to which the authenticated user's token is scoped

Table 69.4. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 69.5. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 69.6. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 69.7. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

69.3. ROLE CREATE

Usage:

```
openstack role create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>] [--or-show]
                    <role-name>
```

Create new role

Table 69.8. Positional Arguments

Value	Summary
None	None

Table 69.9. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--domain <domain></code>	Domain the role belongs to (name or id)
<code>--or-show</code>	Return existing role

Table 69.10. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 69.11. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 69.12. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 69.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

69.4. ROLE DELETE

Usage:

```
openstack role delete [-h] [--domain <domain>] <role> [<role> ...]
```

Delete role(s)

Table 69.14. Positional Arguments

Value	Summary
None	None

Table 69.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain the role belongs to (name or id)

69.5. ROLE LIST

Usage:

```
openstack role list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--domain <domain>]
```

List roles

Table 69.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Include <domain> (name or id)

Table 69.17. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 69.18. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 69.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 69.20. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

69.6. ROLE REMOVE

Usage:

```

openstack role remove [-h]
                        [--system <system> | --domain <domain> | --project <project>]
                        [--user <user> | --group <group>]
                        [--group-domain <group-domain>]
                        [--project-domain <project-domain>]
                        [--user-domain <user-domain>] [--inherited]
                        [--role-domain <role-domain>]
                        <role>

```

Removes a role assignment from system/domain/project : user/group

Table 69.21. Positional Arguments

Value	Summary
None	None

Table 69.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--system <system>	Include <system> (all)
--domain <domain>	Include <domain> (name or id)
--project <project>	Include <project> (name or id)
--user <user>	Include <user> (name or id)
--group <group>	Include <group> (name or id)
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--inherited	Specifies if the role grant is inheritable to the sub projects
--role-domain <role-domain>	Domain the role belongs to (name or id). this must be specified when the name of a domain specific role is used.

69.7. ROLE SET

Usage:

```
openstack role set [-h] [--domain <domain>] [--name <name>] <role>
```

Set role properties

Table 69.23. Positional Arguments

Value	Summary
None	None

Table 69.24. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain the role belongs to (name or id)
--name <name>	Set role name

69.8. ROLE SHOW

Usage:

```

openstack role show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    <role>

```

Display role details

Table 69.25. Positional Arguments

Value	Summary
None	None

Table 69.26. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain the role belongs to (name or id)

Table 69.27. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 69.28. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 69.29. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 69.30. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 70. ROUTER

This chapter describes the commands under the **router** command.

70.1. ROUTER ADD PORT

Usage:

```
openstack router add port [-h] <router> <port>
```

Add a port to a router

Table 70.1. Positional Arguments

Value	Summary
None	None

Table 70.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

70.2. ROUTER ADD SUBNET

Usage:

```
openstack router add subnet [-h] <router> <subnet>
```

Add a subnet to a router

Table 70.3. Positional Arguments

Value	Summary
None	None

Table 70.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

70.3. ROUTER CREATE

Usage:

```

openstack router create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--enable | --disable]
                        [--distributed | --centralized]
                        [--ha | --no-ha] [--description <description>]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--availability-zone-hint <availability-zone>]
                        [--tag <tag> | --no-tag]
                        <name>

```

Create a new router

Table 70.5. Positional Arguments

Value	Summary
None	None

Table 70.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--enable	Enable router (default)
--disable	Disable router
--distributed	Create a distributed router
--centralized	Create a centralized router
--ha	Create a highly available router
--no-ha	Create a legacy router
--description <description>	Set router description
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--availability-zone-hint <availability-zone>	Availability zone in which to create this router (Router Availability Zone extension required, repeat option to set multiple availability zones)

Value	Summary
<code>--tag <tag></code>	Tag to be added to the router (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the router

Table 70.7. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 70.8. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.9. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 70.10. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.4. ROUTER DELETE

Usage:

```
openstack router delete [-h] <router> [<router> ...]
```

Delete router(s)

Table 70.11. Positional Arguments

Value	Summary
None	None

Table 70.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

70.5. ROUTER LIST

Usage:

```
openstack router list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--name <name>]
                        [--enable | --disable] [--long]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--agent <agent-id>] [--tags <tag>[,<tag>,...]]
                        [--any-tags <tag>[,<tag>,...]]
                        [--not-tags <tag>[,<tag>,...]]
                        [--not-any-tags <tag>[,<tag>,...]]
```

List routers

Table 70.13. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List routers according to their name
--enable	List enabled routers
--disable	List disabled routers
--long	List additional fields in output

Value	Summary
<code>--project <project></code>	List routers according to their project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--agent <agent-id></code>	List routers hosted by an agent (id only)
<code>--tags <tag>[,<tag>,...]</code>	List routers which have all given tag(s) (comma-separated list of tags)
<code>--any-tags <tag>[,<tag>,...]</code>	List routers which have any given tag(s) (comma-separated list of tags)
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude routers which have all given tag(s) (comma-separated list of tags)
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude routers which have any given tag(s) (comma-separated list of tags)

Table 70.14. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 70.15. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 70.16. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.17. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.6. ROUTER REMOVE PORT

Usage:

```
openstack router remove port [-h] <router> <port>
```

Remove a port from a router

Table 70.18. Positional Arguments

Value	Summary
None	None

Table 70.19. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

70.7. ROUTER REMOVE SUBNET

Usage:

```
openstack router remove subnet [-h] <router> <subnet>
```

Remove a subnet from a router

Table 70.20. Positional Arguments

Value	Summary
None	None

Table 70.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

70.8. ROUTER SET

Usage:

```

openstack router set [-h] [--name <name>] [--description <description>]
                    [--enable | --disable]
                    [--distributed | --centralized]
                    [--route destination=<subnet>,gateway=<ip-address>]
                    [--no-route] [--ha | --no-ha]
                    [--external-gateway <network>]
                    [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
                    [--enable-snat | --disable-snat]
                    [--qos-policy <qos-policy> | --no-qos-policy]
                    [--tag <tag>] [--no-tag]
                    <router>

```

Set router properties

Table 70.22. Positional Arguments

Value	Summary
None	None

Table 70.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set router name
--description <description>	Set router description
--enable	Enable router
--disable	Disable router
--distributed	Set router to distributed mode (disabled router only)
--centralized	Set router to centralized mode (disabled router only)

Value	Summary
--route destination=<subnet>,gateway=<ip-address>	Routes associated with the router destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to set multiple routes)
--no-route	Clear routes associated with the router. specify both
--route and --no-route to overwrite current value of	Route.
--ha	Set the router as highly available (disabled router only)
--no-ha	Clear high availability attribute of the router (disabled router only)
--external-gateway <network>	External network used as router's gateway (name or id)
--fixed-ip subnet=<subnet>,ip-address=<ip-address>	Desired ip and/or subnet (name or id) on external gateway: subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)
--enable-snat	Enable source nat on external gateway
--disable-snat	Disable source nat on external gateway
--qos-policy <qos-policy>	Attach qos policy to router gateway ips
--no-qos-policy	Remove qos policy from router gateway ips
--tag <tag>	Tag to be added to the router (repeat option to set multiple tags)
--no-tag	Clear tags associated with the router. specify both
--tag and --no-tag to overwrite current tags	None

70.9. ROUTER SHOW

Usage:

```
openstack router show [-h] [-f {json,shell,table,value,yaml}]
                      [-c COLUMN] [--noindent] [--prefix PREFIX]
                      [--max-width <integer>] [--fit-width]
```

`--print-empty`
`<router>`

Display router details

Table 70.24. Positional Arguments

Value	Summary
None	None

Table 70.25. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 70.26. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 70.27. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.28. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 70.29. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

70.10. ROUTER UNSET

Usage:

```

openstack router unset [-h]
                        [--route destination=<subnet>,gateway=<ip-address>]
                        [--external-gateway] [--qos-policy]
                        [--tag <tag> | --all-tag]
                        <router>

```

Unset router properties

Table 70.30. Positional Arguments

Value	Summary
None	None

Table 70.31. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--route destination=<subnet>,gateway=<ip-address>	Routes to be removed from the router destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to unset multiple routes)
--external-gateway	Remove external gateway information from the router
--qos-policy	Remove qos policy from router gateway ips
--tag <tag>	Tag to be removed from the router (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the router

CHAPTER 71. SECRET

This chapter describes the commands under the **secret** command.

71.1. SECRET CONTAINER CREATE

Usage:

```
openstack secret container create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--name NAME]
                                [--type TYPE] [--secret SECRET]
```

Store a container in Barbican.

Table 71.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME, -n NAME	A human-friendly name.
--type TYPE	Type of container to create (default: generic).
--secret SECRET, -s SECRET	One secret to store in a container (can be set multiple times). Example: --secret "private_key=https://url.test/v1/secrets/1-2-3-4"

Table 71.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 71.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 71.4. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 71.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-barbicanclient</code> plugin.

71.2. SECRET CONTAINER DELETE

Usage:

```
openstack secret container delete [-h] URI
```

Delete a container by providing its href.

Table 71.6. Positional Arguments

Value	Summary
None	None

Table 71.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-barbicanclient</code> plugin.

71.3. SECRET CONTAINER GET

Usage:

```
openstack secret container get [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
```

[--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
URI

Retrieve a container by providing its URI.

Table 71.8. Positional Arguments

Value	Summary
None	None

Table 71.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 71.10. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 71.11. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 71.12. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 71.13. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-barbicanclient</code> plugin.

71.4. SECRET CONTAINER LIST

Usage:

```

openstack secret container list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--limit LIMIT] [--offset OFFSET]
                                [--name NAME] [--type TYPE]

```

List containers.

Table 71.14. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit LIMIT, -l LIMIT</code>	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
<code>--offset OFFSET, -o OFFSET</code>	Specify the page offset (default: 0)
<code>--name NAME, -n NAME</code>	Specify the container name (default: none)
<code>--type TYPE, -t TYPE</code>	Specify the type filter for the list (default: none).

Table 71.15. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 71.16. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 71.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.18. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

71.5. SECRET DELETE

Usage:

```
openstack secret delete [-h] URI
```

Delete a secret by providing its URI.

Table 71.19. Positional Arguments

Value	Summary

Value	Summary
None	None

Table 71.20. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-barbicanclient plugin.

71.6. SECRET GET

Usage:

```

openstack secret get [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    [--decrypt | --payload | --file <filename>]
                    [--payload_content_type PAYLOAD_CONTENT_TYPE]
                    URI

```

Retrieve a secret by providing its URI.

Table 71.21. Positional Arguments

Value	Summary
None	None

Table 71.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--decrypt, -d	If specified, retrieve the unencrypted secret data.
--payload, -p	If specified, retrieve the unencrypted secret data.
--file <filename>, -F <filename>	If specified, save the payload to a new file with the given filename.
--payload_content_type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE	The content type of the decrypted secret (default: text/plain).

Table 71.23. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 71.24. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.25. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 71.26. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

71.7. SECRET LIST

Usage:

```

openstack secret list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--limit LIMIT]

```

```

[--offset OFFSET] [--name NAME]
[--algorithm ALGORITHM] [--bit-length BIT_LENGTH]
[--mode MODE] [--secret-type SECRET_TYPE]

```

List secrets.

Table 71.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit LIMIT, -l LIMIT	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
--offset OFFSET, -o OFFSET	Specify the page offset (default: 0)
--name NAME, -n NAME	Specify the secret name (default: none)
--algorithm ALGORITHM, -a ALGORITHM	The algorithm filter for the list(default: none).
--bit-length BIT_LENGTH, -b BIT_LENGTH	The bit length filter for the list (default: 0).
--mode MODE, -m MODE	The algorithm mode filter for the list (default: None).
--secret-type SECRET_TYPE, -s SECRET_TYPE	Specify the secret type (default: none).

Table 71.28. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 71.29. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 71.30. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.31. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-barbicanclient</code> plugin.

71.8. SECRET ORDER CREATE

Usage:

```

openstack secret order create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--name NAME] [--algorithm ALGORITHM]
                             [--bit-length BIT_LENGTH] [--mode MODE]
                             [--payload-content-type PAYLOAD_CONTENT_TYPE]
                             [--expiration EXPIRATION]
                             [--request-type REQUEST_TYPE]
                             [--subject-dn SUBJECT_DN]
                             [--source-container-ref SOURCE_CONTAINER_REF]
                             [--ca-id CA_ID] [--profile PROFILE]
                             [--request-file REQUEST_FILE]
                             type

```

Create a new order.

Table 71.32. Positional Arguments

Value	Summary
None	None

Table 71.33. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME, -n NAME</code>	A human-friendly name.
<code>--algorithm ALGORITHM, -a ALGORITHM</code>	The algorithm to be used with the requested key (default: aes).
<code>--bit-length BIT_LENGTH, -b BIT_LENGTH</code>	The bit length of the requested secret key (default: 256).
<code>--mode MODE, -m MODE</code>	The algorithm mode to be used with the requested key (default: cbc).
<code>--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE</code>	The type/format of the secret to be generated (default: application/octet-stream).
<code>--expiration EXPIRATION, -x EXPIRATION</code>	The expiration time for the secret in iso 8601 format.
<code>--request-type REQUEST_TYPE</code>	The type of the certificate request.
<code>--subject-dn SUBJECT_DN</code>	The subject of the certificate.
<code>--source-container-ref SOURCE_CONTAINER_REF</code>	The source of the certificate when using stored-key requests.
<code>--ca-id CA_ID</code>	The identifier of the ca to use for the certificate request.
<code>--profile PROFILE</code>	The profile of certificate to use.
<code>--request-file REQUEST_FILE</code>	The file containing the csr.

Table 71.34. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 71.35. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.36. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 71.37. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

71.9. SECRET ORDER DELETE

Usage:

```
openstack secret order delete [-h] URI
```

Delete an order by providing its href.

Table 71.38. Positional Arguments

Value	Summary
None	None

Table 71.39. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-barbicanclient plugin.

71.10. SECRET ORDER GET

Usage:

```
openstack secret order get [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty]
                           URI
```

Retrieve an order by providing its URI.

Table 71.40. Positional Arguments

Value	Summary
None	None

Table 71.41. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 71.42. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 71.43. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 71.44. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 71.45. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-barbicanclient</code> plugin.

71.11. SECRET ORDER LIST

Usage:

```

openstack secret order list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--limit LIMIT]
                             [--offset OFFSET]

```

List orders.

Table 71.46. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit LIMIT, -l LIMIT</code>	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
<code>--offset OFFSET, -o OFFSET</code>	Specify the page offset (default: 0)

Table 71.47. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 71.48. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 71.49. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.50. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

71.12. SECRET STORE

Usage:

```
openstack secret store [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--name NAME]
                        [--secret-type SECRET_TYPE]
                        [--payload-content-type PAYLOAD_CONTENT_TYPE]
                        [--payload-content-encoding PAYLOAD_CONTENT_ENCODING]
                        [--algorithm ALGORITHM]
```

```
[--bit-length BIT_LENGTH] [--mode MODE]
[--expiration EXPIRATION]
[--payload PAYLOAD | --file <filename>]
```

Store a secret in Barbican.

Table 71.51. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME, -n NAME	A human-friendly name.
--secret-type SECRET_TYPE, -s SECRET_TYPE	The secret type; must be one of symmetric, public, private, certificate, passphrase, opaque (default)
--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE	The type/format of the provided secret data; "text/plain" is assumed to be UTF-8; required when
--payload is supplied. --payload-content-encoding PAYLOAD_CONTENT_ENCODING, -e PAYLOAD_CONTENT_ENCODING	Required if --payload-content-type is "application/octet-stream".
--algorithm ALGORITHM, -a ALGORITHM	The algorithm (default: aes).
--bit-length BIT_LENGTH, -b BIT_LENGTH	The bit length (default: 256).
--mode MODE, -m MODE	The algorithm mode; used only for reference (default: cbc)
--expiration EXPIRATION, -x EXPIRATION	The expiration time for the secret in iso 8601 format.
--payload PAYLOAD, -p PAYLOAD	The unencrypted secret data.
--file <filename>, -F <filename>	File containing the secret payload

Table 71.52. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 71.53. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 71.54. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 71.55. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-barbicanclient plugin.

71.13. SECRET UPDATE

Usage:

```
openstack secret update [-h] URI payload
```

Update a secret with no payload in Barbican.

Table 71.56. Positional Arguments

Value	Summary
None	None

Table 71.57. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-barbicanclient plugin.

CHAPTER 72. SECURITY

This chapter describes the commands under the **security** command.

72.1. SECURITY GROUP CREATE

Usage:

```
openstack security group create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description <description>]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                [--tag <tag> | --no-tag]
                                <name>
```

Create a new security group

Table 72.1. Positional Arguments

Value	Summary
None	None

Table 72.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Security group description
--project <project>	Owner’s project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--tag <tag>	Tag to be added to the security group (repeat option to set multiple tags)
--no-tag	No tags associated with the security group

Table 72.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.2. SECURITY GROUP DELETE

Usage:

```
openstack security group delete [-h] <group> [<group> ...]
```

Delete security group(s)

Table 72.7. Positional Arguments

Value	Summary
None	None

Table 72.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

72.3. SECURITY GROUP LIST

Usage:

```

openstack security group list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--tags <tag>[,<tag>,...]]
                             [--any-tags <tag>[,<tag>,...]]
                             [--not-tags <tag>[,<tag>,...]]
                             [--not-any-tags <tag>[,<tag>,...]]

```

List security groups

Table 72.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	List security groups according to the project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--tags <tag>[,<tag>,...]	List security group which have all given tag(s) (Comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List security group which have any given tag(s) (Comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude security group which have all given tag(s) (Comma-separated list of tags)
--not-any-tags <tag>[,<tag>,...]	Exclude security group which have any given tag(s) (Comma-separated list of tags)

Table 72.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 72.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 72.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.4. SECURITY GROUP RULE CREATE

Usage:

```
openstack security group rule create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--remote-ip <ip-address> | --remote-group <group>]
[--description <description>]
[--dst-port <port-range>]
[--icmp-type <icmp-type>]
[--icmp-code <icmp-code>]
[--protocol <protocol>]
[--ingress | --egress]
[--ethertype <ethertype>]
[--project <project>]
[--project-domain <project-domain>]
<group>

```

Create a new security group rule

Table 72.14. Positional Arguments

Value	Summary
None	None

Table 72.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--remote-ip <ip-address>	Remote ip address block (may use cidr notation; default for IPv4 rule: 0.0.0.0/0, default for IPv6 rule: ::/0)
--remote-group <group>	Remote security group (name or id)
--description <description>	Set security group rule description
--dst-port <port-range>	Destination port, may be a single port or a starting and ending port range: 137:139. Required for IP protocols TCP and UDP. Ignored for ICMP IP protocols.
--icmp-type <icmp-type>	Icmp type for icmp ip protocols
--icmp-code <icmp-code>	Icmp code for icmp ip protocols
--protocol <protocol>	Ip protocol (ah, dccp, egp, esp, gre, icmp, igmp, ipv6-encap, ipv6-frag, ipv6-icmp, ipv6-nonxt, ipv6-opts, ipv6-route, ospf, pgm, rsvp, sctp, tcp, udp, udplite, vrrp and integer representations [0-255] or any; default: any (all protocols))

Value	Summary
--ingress	Rule applies to incoming network traffic (default)
--egress	Rule applies to outgoing network traffic
--ethertype <ethertype>	Ethertype of network traffic (ipv4, ipv6; default: based on IP protocol)
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 72.16. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 72.17. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 72.18. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 72.19. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

72.5. SECURITY GROUP RULE DELETE

Usage:

```
openstack security group rule delete [-h] <rule> [<rule> ...]
```

Delete security group rule(s)

Table 72.20. Positional Arguments

Value	Summary
None	None

Table 72.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

72.6. SECURITY GROUP RULE LIST

Usage:

```
openstack security group rule list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--protocol <protocol>]
                                [--ethertype <ethertype>]
                                [--ingress | --egress] [--long]
                                [<group>]
```

List security group rules

Table 72.22. Positional Arguments

Value	Summary
None	None

Table 72.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--protocol <protocol>	List rules by the ip protocol (ah, dhcp, egp, esp, gre, icmp, igmp, ipv6-encap, ipv6-frag, ipv6-icmp, ipv6-nonxt, ipv6-opts, ipv6-route, ospf, pgm, rsvp, sctp, tcp, udp, udplite, vrrp and integer representations [0-255] or any; default: any (all protocols))
--ethertype <ethertype>	List rules by the ethertype (ipv4 or ipv6)
--ingress	List rules applied to incoming network traffic
--egress	List rules applied to outgoing network traffic
--long	List additional fields in output

Table 72.24. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 72.25. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 72.26. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.27. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.7. SECURITY GROUP RULE SHOW

Usage:

```

openstack security group rule show [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  <rule>

```

Display security group rule details

Table 72.28. Positional Arguments

Value	Summary
None	None

Table 72.29. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 72.30. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.31. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.32. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.33. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.8. SECURITY GROUP SET

Usage:

```
openstack security group set [-h] [--name <new-name>]
                             [--description <description>]
                             [--tag <tag>] [--no-tag]
                             <group>
```

Set security group properties

Table 72.34. Positional Arguments

Value	Summary
None	None

Table 72.35. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <new-name>	New security group name
--description <description>	New security group description
--tag <tag>	Tag to be added to the security group (repeat option to set multiple tags)
--no-tag	Clear tags associated with the security group. specify both --tag and --no-tag to overwrite current tags

72.9. SECURITY GROUP SHOW

Usage:

```

openstack security group show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             <group>

```

Display security group details

Table 72.36. Positional Arguments

Value	Summary
None	None

Table 72.37. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 72.38. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.39. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.40. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.41. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.10. SECURITY GROUP UNSET

Usage:

```
openstack security group unset [-h] [--tag <tag> | --all-tag] <group>
```

Unset security group properties

Table 72.42. Positional Arguments

Value	Summary
None	None

Table 72.43. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--tag <tag>	Tag to be removed from the security group (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the security group

CHAPTER 73. SERVER

This chapter describes the commands under the **server** command.

73.1. SERVER ADD FIXED IP

Usage:

```
openstack server add fixed ip [-h] [--fixed-ip-address <ip-address>]  
                                <server> <network>
```

Add fixed IP address to server

Table 73.1. Positional Arguments

Value	Summary
None	None

Table 73.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--fixed-ip-address <ip-address>	Requested fixed ip address

73.2. SERVER ADD FLOATING IP

Usage:

```
openstack server add floating ip [-h] [--fixed-ip-address <ip-address>]  
                                <server> <ip-address>
```

Add floating IP address to server

Table 73.3. Positional Arguments

Value	Summary
None	None

Table 73.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--fixed-ip-address <ip-address>	Fixed ip address to associate with this floating ip address. The first server port containing the fixed IP address will be used

73.3. SERVER ADD NETWORK

Usage:

```
openstack server add network [-h] <server> <network>
```

Add network to server

Table 73.5. Positional Arguments

Value	Summary
None	None

Table 73.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.4. SERVER ADD PORT

Usage:

```
openstack server add port [-h] <server> <port>
```

Add port to server

Table 73.7. Positional Arguments

Value	Summary
None	None

Table 73.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.5. SERVER ADD SECURITY GROUP

Usage:

```
openstack server add security group [-h] <server> <group>
```

Add security group to server

Table 73.9. Positional Arguments

Value	Summary
None	None

Table 73.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.6. SERVER ADD VOLUME

Usage:

```
openstack server add volume [-h] [--device <device>] <server> <volume>
```

Add volume to server. Specify ``--os-compute-api-version 2.20`` or higher to add a volume to a server with status ``SHELVED`` or ``SHELVED\_OFFLOADED``.

Table 73.11. Positional Arguments

Value	Summary
None	None

Table 73.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--device <device>	Server internal device name for volume

73.7. SERVER BACKUP CREATE

Usage:

```

openstack server backup create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--name <image-name>]
                               [--type <backup-type>]
                               [--rotate <count>] [--wait]
                               <server>

```

Create a server backup image

Table 73.13. Positional Arguments

Value	Summary
None	None

Table 73.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <image-name>	Name of the backup image (default: server name)
--type <backup-type>	Used to populate the backup_type property of the backup image (default: empty)
--rotate <count>	Number of backups to keep (default: 1)
--wait	Wait for backup image create to complete

Table 73.15. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 73.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.17. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 73.18. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

73.8. SERVER CREATE

Usage:

```

openstack server create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        [--image <image> | --image-property <key=value> | --volume <volume>]
                        --flavor <flavor>
                        [--security-group <security-group>]
                        [--key-name <key-name>]
                        [--property <key=value>]
                        [--file <dest-filename=source-filename>]
                        [--user-data <user-data>]
                        [--description <description>]
                        [--availability-zone <zone-name>]
                        [--host <host>]
                        [--hypervisor-hostname <hypervisor-hostname>]
                        [--boot-from-volume <volume-size>]
                        [--block-device-mapping <dev-name=mapping>]
                        [--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-
uuid,auto,none>]
                        [--network <network>] [--port <port>]
                        [--hint <key=value>]
                        [--config-drive <config-drive-volume>|True]
                        [--min <count>] [--max <count>] [--wait]
                        <server-name>

```

Create a new server

Table 73.19. Positional Arguments

Value	Summary
None	None

Table 73.20. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--image <image>	Create server boot disk from this image (name or id)
--image-property <key=value>	Image property to be matched
--volume <volume>	Create server using this volume as the boot disk (name or ID). This option automatically creates a block device mapping with a boot index of 0. On many hypervisors (libvirt/kvm for example) this will be device vda. Do not create a duplicate mapping using --block-device- mapping for this volume.
--flavor <flavor>	Create server with this flavor (name or id)
--security-group <security-group>	Security group to assign to this server (name or id) (repeat option to set multiple groups)
--key-name <key-name>	Keypair to inject into this server (optional extension)
--property <key=value>	Set a property on this server (repeat option to set multiple values)
--file <dest-filename=source-filename>	File to inject into image before boot (repeat option to set multiple files)
--user-data <user-data>	User data file to serve from the metadata server
--description <description>	Set description for the server (supported by --os-compute-api-version 2.19 or above)
--availability-zone <zone-name>	Select an availability zone for the server
--host <host>	Requested host to create servers. admin only by default. (supported by --os-compute-api-version 2.74 or above)
--hypervisor-hostname <hypervisor-hostname>	Requested hypervisor hostname to create servers. admin only by default. (supported by --os-compute-api-version 2.74 or above)

Value	Summary
<code>--boot-from-volume <volume-size></code>	When used in conjunction with the <code>--image</code> or <code>--image-property</code> option, this option automatically creates a block device mapping with a boot index of 0 and tells the compute service to create a volume of the given size (in GB) from the specified image and use it as the root disk of the server. The root volume will not be deleted when the server is deleted. This option is mutually exclusive with the <code>--volume</code> option.
<code>--block-device-mapping <dev-name=mapping></code>	Create a block device on the server. Block device mapping in the format <code><dev-name>=<id>:<type>:<size(GB)>:<delete-on-terminate></code> <code><dev-name></code> : block device name, like: vdb, xvdc (required) <code><id></code> : Name or ID of the volume, volume snapshot or image (required) <code><type></code> : volume, snapshot or image; default: volume (optional) <code><size(GB)></code> : volume size if create from image or snapshot (optional) <code><delete-on-terminate></code> : true or false; default: false (optional) (optional extension)
<code>--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-uuid,auto,none></code>	Create a nic on the server. specify option multiple times to create multiple NICs. Either net-id or port-id must be provided, but not both. net-id: attach NIC to network with this UUID, port-id: attach NIC to port with this UUID, v4-fixed-ip: IPv4 fixed address for NIC (optional), v6-fixed-ip: IPv6 fixed address for NIC (optional), none: (v2.37+) no network is attached, auto: (v2.37+) the compute service will automatically allocate a network. Specifying a --nic of auto or none cannot be used with any other --nic value.
<code>--network <network></code>	Create a nic on the server and connect it to network. Specify option multiple times to create multiple NICs. This is a wrapper for the <code>--nic net-id=<network></code> parameter that provides simple syntax for the standard use case of connecting a new server to a given network. For more advanced use cases, refer to the <code>--nic</code> parameter.
<code>--port <port></code>	Create a nic on the server and connect it to port. Specify option multiple times to create multiple NICs. This is a wrapper for the <code>--nic port-id=<port></code> parameter that provides simple syntax for the standard use case of connecting a new server to a given port. For more advanced use cases, refer to the <code>--nic</code> parameter.
<code>--hint <key=value></code>	Hints for the scheduler (optional extension)

Value	Summary
<code>--config-drive <config-drive-volume></code>	True
Use specified volume as the config drive, or <i>true</i> to use an ephemeral drive	<code>--min <count></code>
Minimum number of servers to launch (default=1)	<code>--max <count></code>
Maximum number of servers to launch (default=1)	<code>--wait</code>

Table 73.21. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 73.22. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.23. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 73.24. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.9. SERVER DELETE

Usage:

```
openstack server delete [-h] [--wait] <server> [<server> ...]
```

Delete server(s)

Table 73.25. Positional Arguments

Value	Summary
None	None

Table 73.26. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait	Wait for delete to complete

73.10. SERVER DUMP CREATE

Usage:

```
openstack server dump create [-h] <server> [<server> ...]
```

Create a dump file in server(s) Trigger crash dump in server(s) with features like kdump in Linux. It will create a dump file in the server(s) dumping the server(s)' memory, and also crash the server(s). OSC sees the dump file (server dump) as a kind of resource. This command requires ``--os-compute-api-version`` 2.17 or greater.

Table 73.27. Positional Arguments

Value	Summary
None	None

Table 73.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.11. SERVER EVENT LIST

Usage:

```
openstack server event list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
                             <server>
```

List recent events of a server. Specify ``--os-compute-api-version 2.21`` or higher to show events for a deleted server.

Table 73.29. Positional Arguments

Value	Summary
None	None

Table 73.30. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 73.31. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 73.32. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 73.33. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.34. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

73.12. SERVER EVENT SHOW

Usage:

```
openstack server event show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <server> <request-id>
```

Show server event details. Specify ``--os-compute-api-version 2.21`` or higher to show event details for a deleted server. Specify ``--os-compute-api-version 2.51`` or higher to show event details for non-admin users.

Table 73.35. Positional Arguments

Value	Summary
None	None

Table 73.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 73.37. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 73.38. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.39. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 73.40. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.13. SERVER GROUP CREATE

Usage:

```

openstack server group create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--policy <policy>]
                             <name>

```

Create a new server group.

Table 73.41. Positional Arguments

Value	Summary
None	None

Table 73.42. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--policy <policy>	Add a policy to <name> (<i>affinity</i> or <i>anti-affinity</i> , defaults to <i>affinity</i>). Specify --os-compute-api-version 2.15 or higher for the <i>soft-affinity</i> or <i>soft-anti-affinity</i> policy.

Table 73.43. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 73.44. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.45. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 73.46. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

73.14. SERVER GROUP DELETE

Usage:

```
openstack server group delete [-h] <server-group> [<server-group> ...]
```

Delete existing server group(s).

Table 73.47. Positional Arguments

Value	Summary
None	None

Table 73.48. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.15. SERVER GROUP LIST

Usage:

```
openstack server group list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--all-projects] [--long]
```

List all server groups.

Table 73.49. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--all-projects</code>	Display information from all projects (admin only)
<code>--long</code>	List additional fields in output

Table 73.50. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 73.51. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 73.52. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.53. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.16. SERVER GROUP SHOW

Usage:

```
openstack server group show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <server-group>
```

Display server group details.

Table 73.54. Positional Arguments

Value	Summary
None	None

Table 73.55. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 73.56. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 73.57. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.58. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 73.59. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.17. SERVER IMAGE CREATE

Usage:

```
openstack server image create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--name <image-name>] [--wait]
                             <server>
```

Create a new server disk image from an existing server

Table 73.60. Positional Arguments

Value	Summary
None	None

Table 73.61. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <image-name></code>	Name of new disk image (default: server name)
<code>--wait</code>	Wait for operation to complete

Table 73.62. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 73.63. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.64. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 73.65. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.18. SERVER LIST

Usage:

```

openstack server list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--reservation-id <reservation-id>]
                        [--ip <ip-address-regex>]
                        [--ip6 <ip-address-regex>] [--name <name-regex>]
                        [--instance-name <server-name>]
                        [--status <status>] [--flavor <flavor>]
                        [--image <image>] [--host <hostname>]
                        [--all-projects] [--project <project>]
                        [--project-domain <project-domain>]
                        [--user <user>] [--user-domain <user-domain>]

```

```

[--long] [-n | --name-lookup-one-by-one]
[--marker <server>] [--limit <num-servers>]
[--deleted] [--changes-before <changes-before>]
[--changes-since <changes-since>]
[--locked | --unlocked]

```

List servers

Table 73.66. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--reservation-id <reservation-id>	Only return instances that match the reservation
--ip <ip-address-regex>	Regular expression to match ip addresses
--ip6 <ip-address-regex>	Regular expression to match ipv6 addresses. note that this option only applies for non-admin users when using `` <b>--os-compute-api-version</b> `` 2.5 or greater.
--name <name-regex>	Regular expression to match names
--instance-name <server-name>	Regular expression to match instance name (admin only)
--status <status>	Search by server status
--flavor <flavor>	Search by flavor (name or id)
--image <image>	Search by image (name or id)
--host <hostname>	Search by hostname
--all-projects	Include all projects (admin only)
--project <project>	Search by project (admin only) (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--user <user>	Search by user (admin only) (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Value	Summary
--long	List additional fields in output
-n, --no-name-lookup	Skip flavor and image name lookup. mutually exclusive with "--name-lookup-one-by-one" option.
--name-lookup-one-by-one	When looking up flavor and image names, look them up one by one as needed instead of all together (default). Mutually exclusive with "--no-name-lookup"
-n" option.	--marker <server>
The last server of the previous page. display list of servers after marker. Display all servers if not specified. (name or ID)	--limit <num-servers>
Maximum number of servers to display. if limit equals	-1, all servers will be displayed. If limit is greater
Than <i>osapi_max_limit</i> option of nova api, <i>osapi_max_limit</i> will be used instead.	--deleted
Only display deleted servers (admin only).	--changes-before <changes-before>
List only servers changed before a certain point of time. The provided time should be an ISO 8061 formatted time (e.g., 2016-03-05T06:27:59Z). (Supported by API versions 2.66 - 2.latest)	--changes-since <changes-since>
List only servers changed after a certain point of time. The provided time should be an ISO 8061 formatted time (e.g., 2016-03-04T06:27:59Z).	--locked
Only display locked servers. requires ``--os-compute-api-version` 2.73 or greater.	--unlocked

Table 73.67. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 73.68. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 73.69. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.70. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.19. SERVER LOCK

Usage:

```
openstack server lock [-h] [--reason <reason>] <server> [<server> ...]
```

Lock server(s). A non-admin user will not be able to execute actions

Table 73.71. Positional Arguments

Value	Summary
None	None

Table 73.72. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--reason <reason></code>	Reason for locking the server(s). requires ``--os-compute-api-version`` 2.73 or greater.

73.20. SERVER MIGRATE

Usage:

```

openstack server migrate [-h] [--live-migration]
                        [--live <hostname> | --host <hostname>]
                        [--shared-migration | --block-migration]
                        [--disk-overcommit | --no-disk-overcommit]
                        [--wait]
                        <server>

```

Migrate server to different host

Table 73.73. Positional Arguments

Value	Summary
None	None

Table 73.74. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--live-migration</code>	Live migrate the server. use the ``--host`` option to specify a target host for the migration which will be validated by the scheduler.
<code>--live <hostname></code>	deprecated this option is problematic in that it requires a host and prior to compute API version 2.30, specifying a host during live migration will bypass validation by the scheduler which could result in failures to actually migrate the server to the specified host or over-subscribe the host. Use the ``--live-migration`` option instead. If both this option and ``--live-migration`` are used, ``--live-migration`` takes priority.
<code>--host <hostname></code>	Migrate the server to the specified host. requires ``--os-compute-api-version`` 2.30 or greater when used with the ``--live-migration`` option, otherwise requires ``--os-compute-api-version`` 2.56 or greater.

Value	Summary
--shared-migration	Perform a shared live migration (default)
--block-migration	Perform a block live migration
--disk-overcommit	Allow disk over-commit on the destination host
--no-disk-overcommit	Do not over-commit disk on the destination host (default)
--wait	Wait for migrate to complete

73.21. SERVER PAUSE

Usage:

```
openstack server pause [-h] <server> [<server> ...]
```

Pause server(s)

Table 73.75. Positional Arguments

Value	Summary
None	None

Table 73.76. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.22. SERVER REBOOT

Usage:

```
openstack server reboot [-h] [--hard | --soft] [--wait] <server>
```

Perform a hard or soft server reboot

Table 73.77. Positional Arguments

Value	Summary
None	None

Table 73.78. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--hard	Perform a hard reboot
--soft	Perform a soft reboot
--wait	Wait for reboot to complete

73.23. SERVER REBUILD

Usage:

```

openstack server rebuild [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--image <image>]
                        [--password <password>]
                        [--property <key=value>]
                        [--description <description>] [--wait]
                        [--key-name <key-name> | --key-unset]
                        <server>

```

Rebuild server

Table 73.79. Positional Arguments

Value	Summary
None	None

Table 73.80. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--image <image>	Recreate server from the specified image (name or id). Defaults to the currently used one.
--password <password>	Set the password on the rebuilt instance
--property <key=value>	Set a property on the rebuilt instance (repeat option to set multiple values)

Value	Summary
<code>--description <description></code>	New description for the server (supported by <code>--os-compute-api-version</code> 2.19 or above)
<code>--wait</code>	Wait for rebuild to complete
<code>--key-name <key-name></code>	Set the key name of key pair on the rebuilt instance. Cannot be specified with the <code>--key-unset</code> option. (Supported by API versions 2.54 - 2.latest)
<code>--key-unset</code>	Unset the key name of key pair on the rebuilt instance. Cannot be specified with the <code>--key-name</code> option. (Supported by API versions 2.54 - 2.latest)

Table 73.81. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 73.82. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.83. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 73.84. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

73.24. SERVER REMOVE FIXED IP

Usage:

```
openstack server remove fixed ip [-h] <server> <ip-address>
```

Remove fixed IP address from server

Table 73.85. Positional Arguments

Value	Summary
None	None

Table 73.86. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.25. SERVER REMOVE FLOATING IP

Usage:

```
openstack server remove floating ip [-h] <server> <ip-address>
```

Remove floating IP address from server

Table 73.87. Positional Arguments

Value	Summary
None	None

Table 73.88. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.26. SERVER REMOVE NETWORK

Usage:

```
openstack server remove network [-h] <server> <network>
```

Remove all ports of a network from server

Table 73.89. Positional Arguments

Value	Summary
None	None

Table 73.90. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.27. SERVER REMOVE PORT

Usage:

```
openstack server remove port [-h] <server> <port>
```

Remove port from server

Table 73.91. Positional Arguments

Value	Summary
None	None

Table 73.92. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.28. SERVER REMOVE SECURITY GROUP

Usage:

```
openstack server remove security group [-h] <server> <group>
```

Remove security group from server

Table 73.93. Positional Arguments

Value	Summary
None	None

Table 73.94. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.29. SERVER REMOVE VOLUME

Usage:

```
openstack server remove volume [-h] <server> <volume>
```

Remove volume from server. Specify ``--os-compute-api-version 2.20`` or higher to remove a volume from a server with status ``SHELVED`` or ``SHELVED\_OFFLOADED``.

Table 73.95. Positional Arguments

Value	Summary
None	None

Table 73.96. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.30. SERVER RESCUE

Usage:

```
openstack server rescue [-h] [--image <image>] [--password <password>]
                        <server>
```

Put server in rescue mode

Table 73.97. Positional Arguments

Value	Summary
None	None

Table 73.98. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--image <image>	Image (name or id) to use for the rescue mode. Defaults to the currently used one.
--password <password>	Set the password on the rescued instance

73.31. SERVER RESIZE CONFIRM

Usage:

```
openstack server resize confirm [-h] <server>
```

Confirm server resize. Confirm (verify) success of resize operation and release the old server.

Table 73.99. Positional Arguments

Value	Summary
None	None

Table 73.100. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.32. SERVER RESIZE REVERT

Usage:

```
openstack server resize revert [-h] <server>
```

Revert server resize. Revert the resize operation. Release the new server and restart the old one.

Table 73.101. Positional Arguments

Value	Summary
None	None

Table 73.102. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.33. SERVER RESIZE

Usage:

```

openstack server resize [-h] [--flavor <flavor> | --confirm | --revert]
                        [--wait]
                        <server>

```

Scale server to a new flavor. A resize operation is implemented by creating a new server and copying the contents of the original disk into a new one. It is also a two-step process for the user: the first is to perform the resize, the second is to either confirm (verify) success and release the old server, or to declare a revert to release the new server and restart the old one.

Table 73.103. Positional Arguments

Value	Summary
None	None

Table 73.104. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--flavor <flavor>	Resize server to specified flavor
--confirm	Confirm server resize is complete
--revert	Restore server state before resize
--wait	Wait for resize to complete

73.34. SERVER RESTORE

Usage:

```

■

```



```
openstack server restore [-h] <server> [<server> ...]
```

Restore server(s)

Table 73.105. Positional Arguments

Value	Summary
None	None

Table 73.106. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.35. SERVER RESUME

Usage:

```
openstack server resume [-h] <server> [<server> ...]
```

Resume server(s)

Table 73.107. Positional Arguments

Value	Summary
None	None

Table 73.108. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.36. SERVER SET

Usage:

```
openstack server set [-h] [--name <new-name>] [--root-password]
                    [--property <key=value>] [--state <state>]
                    [--description <description>]
                    <server>
```

Set server properties

Table 73.109. Positional Arguments

Value	Summary
None	None

Table 73.110. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <new-name>	New server name
--root-password	Set new root password (interactive only)
--property <key=value>	Property to add/change for this server (repeat option to set multiple properties)
--state <state>	New server state (valid value: active, error)
--description <description>	New server description (supported by --os-compute-api- version 2.19 or above)

73.37. SERVER SHELVE

Usage:

```
openstack server shelve [-h] <server> [<server> ...]
```

Shelve server(s)

Table 73.111. Positional Arguments

Value	Summary
None	None

Table 73.112. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.38. SERVER SHOW

Usage:

```

openstack server show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--diagnostics]
                        <server>

```

Show server details. Specify ``--os-compute-api-version 2.47`` or higher to see the embedded flavor information for the server.

Table 73.113. Positional Arguments

Value	Summary
None	None

Table 73.114. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--diagnostics	Display server diagnostics information

Table 73.115. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 73.116. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.117. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 73.118. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.39. SERVER SSH

Usage:

```

openstack server ssh [-h] [--login <login-name>] [--port <port>]
                    [--identity <keyfile>] [--option <config-options>]
                    [-4 | -6]
                    [--public | --private | --address-type <address-type>]
                    <server>

```

SSH to server

Table 73.119. Positional Arguments

Value	Summary
None	None

Table 73.120. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--login <login-name></code>	Login name (ssh -l option)
<code>--port <port></code>	Destination port (ssh -p option)
<code>--identity <keyfile></code>	Private key file (ssh -i option)
<code>--option <config-options></code>	Options in ssh_config(5) format (ssh -o option)
<code>-4</code>	Use only ipv4 addresses
<code>-6</code>	Use only ipv6 addresses

Value	Summary
--public	Use public ip address
--private	Use private ip address
--address-type <address-type>	Use other ip address (public, private, etc)

73.40. SERVER START

Usage:

```
openstack server start [-h] <server> [<server> ...]
```

Start server(s).

Table 73.121. Positional Arguments

Value	Summary
None	None

Table 73.122. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.41. SERVER STOP

Usage:

```
openstack server stop [-h] <server> [<server> ...]
```

Stop server(s).

Table 73.123. Positional Arguments

Value	Summary
None	None

Table 73.124. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.42. SERVER SUSPEND

Usage:

```
openstack server suspend [-h] <server> [<server> ...]
```

Suspend server(s)

Table 73.125. Positional Arguments

Value	Summary
None	None

Table 73.126. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.43. SERVER UNLOCK

Usage:

```
openstack server unlock [-h] <server> [<server> ...]
```

Unlock server(s)

Table 73.127. Positional Arguments

Value	Summary
None	None

Table 73.128. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.44. SERVER UNPAUSE

Usage:

```
openstack server unpause [-h] <server> [<server> ...]
```

Unpause server(s)

Table 73.129. Positional Arguments

Value	Summary
None	None

Table 73.130. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.45. SERVER UNRESCUE**Usage:**

```
openstack server unrescue [-h] <server>
```

Restore server from rescue mode

Table 73.131. Positional Arguments

Value	Summary
None	None

Table 73.132. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

73.46. SERVER UNSET**Usage:**

```
openstack server unset [-h] [--property <key>] [--description] <server>
```

Unset server properties

Table 73.133. Positional Arguments

Value	Summary
None	None

Table 73.134. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property key to remove from server (repeat option to remove multiple values)
--description	Unset server description (supported by --os-compute-api- version 2.19 or above)

73.47. SERVER UNSHELVE

Usage:

```
openstack server unshelve [-h] [--availability-zone AVAILABILITY_ZONE]
                           <server> [<server> ...]
```

Unshelve server(s)

Table 73.135. Positional Arguments

Value	Summary
None	None

Table 73.136. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--availability-zone AVAILABILITY_ZONE	Name of the availability zone in which to unshelve a SHELVED_OFFLOADED server (supported by --os-compute- api-version 2.77 or above)

CHAPTER 74. SERVICE

This chapter describes the commands under the **service** command.

74.1. SERVICE CREATE

Usage:

```
openstack service create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--name <name>]
                        [--description <description>]
                        [--enable | --disable]
                        <type>
```

Create new service

Table 74.1. Positional Arguments

Value	Summary
None	None

Table 74.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New service name
--description <description>	New service description
--enable	Enable service (default)
--disable	Disable service

Table 74.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.2. SERVICE DELETE

Usage:

```
openstack service delete [-h] <service> [<service> ...]
```

Delete service(s)

Table 74.7. Positional Arguments

Value	Summary
None	None

Table 74.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

74.3. SERVICE LIST

Usage:

```

openstack service list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--long]

```

List services

Table 74.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 74.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 74.12. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.4. SERVICE PROVIDER CREATE

Usage:

```

openstack service provider create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --auth-url <auth-url>
                                [--description <description>]
                                --service-provider-url <sp-url>
                                [--enable | --disable]
                                <name>

```

Create new service provider

Table 74.14. Positional Arguments

Value	Summary
None	None

Table 74.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--auth-url <auth-url></code>	Authentication url of remote federated service provider (required)
<code>--description <description></code>	New service provider description
<code>--service-provider-url <sp-url></code>	A service url where saml assertions are being sent (required)

Value	Summary
<code>--enable</code>	Enable the service provider (default)
<code>--disable</code>	Disable the service provider

Table 74.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.18. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.5. SERVICE PROVIDER DELETE

Usage:

```
openstack service provider delete [-h]
                                <service-provider>
                                [<service-provider> ...]
```

Delete service provider(s)

Table 74.20. Positional Arguments

Value	Summary
None	None

Table 74.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

74.6. SERVICE PROVIDER LIST

Usage:

```
openstack service provider list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```

List service providers

Table 74.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.23. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.24. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 74.25. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.26. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.7. SERVICE PROVIDER SET

Usage:

```

openstack service provider set [-h] [--auth-url <auth-url>]
                                [--description <description>]
                                [--service-provider-url <sp-url>]
                                [--enable | --disable]
                                <service-provider>

```

Set service provider properties

Table 74.27. Positional Arguments

Value	Summary
None	None

Table 74.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--auth-url <auth-url>	New authentication url of remote federated service provider
--description <description>	New service provider description
--service-provider-url <sp-url>	New service provider url, where saml assertions are sent
--enable	Enable the service provider
--disable	Disable the service provider

74.8. SERVICE PROVIDER SHOW

Usage:

```

openstack service provider show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <service-provider>

```

Display service provider details

Table 74.29. Positional Arguments

Value	Summary
None	None

Table 74.30. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.31. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.32. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.33. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.34. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.9. SERVICE SET

Usage:

```
openstack service set [-h] [--type <type>] [--name <service-name>]
                        [--description <description>]
                        [--enable | --disable]
                        <service>
```

Set service properties

Table 74.35. Positional Arguments

Value	Summary
None	None

Table 74.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	New service type (compute, image, identity, volume, etc)
--name <service-name>	New service name
--description <description>	New service description
--enable	Enable service
--disable	Disable service

74.10. SERVICE SHOW

Usage:

```

openstack service show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <service>

```

Display service details

Table 74.37. Positional Arguments

Value	Summary
None	None

Table 74.38. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.39. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.40. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.41. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.42. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 75. SFC

This chapter describes the commands under the **sfc** command.

75.1. SFC FLOW CLASSIFIER CREATE

Usage:

```
openstack sfc flow classifier create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--description <description>]
                                   [--protocol <protocol>]
                                   [--ethertype {IPv4,IPv6}]
                                   [--source-port <min-port>:<max-port>]
                                   [--destination-port <min-port>:<max-port>]
                                   [--source-ip-prefix <source-ip-prefix>]
                                   [--destination-ip-prefix <destination-ip-prefix>]
                                   [--logical-source-port <logical-source-port>]
                                   [--logical-destination-port <logical-destination-port>]
                                   [--l7-parameters L7_PARAMETERS]
                                   <name>
```

Create a flow classifier

Table 75.1. Positional Arguments

Value	Summary
None	None

Table 75.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the flow classifier
--protocol <protocol>	Ip protocol name. protocol name should be as per iana standard.
--ethertype {IPv4,IPv6}	L2 ethertype, default is ipv4
--source-port <min-port>:<max-port>	Source protocol port (allowed range [1,65535]. must be specified as a:b, where a=min-port and b=max-port) in the allowed range.

Value	Summary
--destination-port <min-port>:<max-port>	Destination protocol port (allowed range [1,65535]. Must be specified as a:b, where a=min-port and b=max- port) in the allowed range.
--source-ip-prefix <source-ip-prefix>	Source ip address in cidr notation
--destination-ip-prefix <destination-ip-prefix>	Destination ip address in cidr notation
--logical-source-port <logical-source-port>	Neutron source port (name or id)
--logical-destination-port <logical-destination-port>	Neutron destination port (name or id)
--l7-parameters L7_PARAMETERS	Dictionary of l7 parameters. currently, no value is supported for this option.

Table 75.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.2. SFC FLOW CLASSIFIER DELETE

Usage:

```
openstack sfc flow classifier delete [-h] <flow-classifier>
```

Delete a given flow classifier

Table 75.7. Positional Arguments

Value	Summary
None	None

Table 75.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

75.3. SFC FLOW CLASSIFIER LIST

Usage:

```
openstack sfc flow classifier list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
```

List flow classifiers

Table 75.9. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--long</code>	List additional fields in output

Table 75.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 75.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 75.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.4. SFC FLOW CLASSIFIER SET

Usage:

```
openstack sfc flow classifier set [-h] [--name <name>]
                                [--description <description>]
                                <flow-classifier>
```

Set flow classifier properties

Table 75.14. Positional Arguments

Value	Summary
None	None

Table 75.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the flow classifier
--description <description>	Description for the flow classifier This command is provided by the python-neutronclient plugin.

75.5. SFC FLOW CLASSIFIER SHOW

Usage:

```
openstack sfc flow classifier show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   <flow-classifier>
```

Display flow classifier details

Table 75.16. Positional Arguments

Value	Summary
None	None

Table 75.17. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 75.18. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 75.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 75.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.6. SFC PORT CHAIN CREATE

Usage:

```
openstack sfc port chain create [-h] [-f {json,shell,table,value,yaml}]
```

```

[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
[--description <description>]
[--flow-classifier <flow-classifier>]
[--chain-parameters correlation=<correlation-type>,symmetric=<boolean>]
--port-pair-group <port-pair-group>
<name>

```

Create a port chain

Table 75.22. Positional Arguments

Value	Summary
None	None

Table 75.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the port chain
--flow-classifier <flow-classifier>	Add flow classifier (name or id). this option can be repeated.
--chain-parameters correlation=<correlation-type>,symmetric=<boolean>	Dictionary of chain parameters. supports correlation=(mpls
nsh) (default is mpls) and symmetric=(true	false).
--port-pair-group <port-pair-group>	Add port pair group (name or id). this option can be repeated.

Table 75.24. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.25. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.26. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.27. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.7. SFC PORT CHAIN DELETE

Usage:

```
openstack sfc port chain delete [-h] <port-chain>
```

Delete a given port chain

Table 75.28. Positional Arguments

Value	Summary
None	None

Table 75.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

75.8. SFC PORT CHAIN LIST

Usage:

```
openstack sfc port chain list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
```

List port chains

Table 75.30. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 75.31. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 75.32. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 75.33. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.34. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.9. SFC PORT CHAIN SET

Usage:

```

openstack sfc port chain set [-h] [--name <name>]
                             [--description <description>]
                             [--flow-classifier <flow-classifier>]
                             [--no-flow-classifier]
                             [--port-pair-group <port-pair-group>]
                             [--no-port-pair-group]
                             <port-chain>

```

Set port chain properties

Table 75.35. Positional Arguments

Value	Summary
None	None

Table 75.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the port chain
--description <description>	Description for the port chain
--flow-classifier <flow-classifier>	Add flow classifier (name or id). this option can be repeated.

Value	Summary
<code>--no-flow-classifier</code>	Remove associated flow classifiers from the port chain
<code>--port-pair-group <port-pair-group></code>	Add port pair group (name or id). current port pair groups order is kept, the added port pair group will be placed at the end of the port chain. This option can be repeated.
<code>--no-port-pair-group</code>	Remove associated port pair groups from the port chain. At least one <code>--port-pair-group</code> must be specified together. This command is provided by the <code>python-neutronclient</code> plugin.

75.10. SFC PORT CHAIN SHOW

Usage:

```

openstack sfc port chain show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               <port-chain>

```

Display port chain details

Table 75.37. Positional Arguments

Value	Summary
None	None

Table 75.38. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 75.39. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 75.40. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.41. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.42. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.11. SFC PORT CHAIN UNSET

Usage:

```
openstack sfc port chain unset [-h]
                               [--flow-classifier <flow-classifier> | --all-flow-classifier]
                               [--port-pair-group <port-pair-group>]
                               <port-chain>
```

Unset port chain properties

Table 75.43. Positional Arguments

Value	Summary
None	None

Table 75.44. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--flow-classifier <flow-classifier></code>	Remove flow classifier(s) from the port chain (name or ID). This option can be repeated.
<code>--all-flow-classifier</code>	Remove all flow classifiers from the port chain
<code>--port-pair-group <port-pair-group></code>	Remove port pair group(s) from the port chain (name or ID). This option can be repeated. This command is provided by the python-neutronclient plugin.

75.12. SFC PORT PAIR CREATE

Usage:

```

openstack sfc port pair create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--description <description>]
                               [--service-function-parameters correlation=<correlation-type>,weight=
<weight>]
                               --ingress <ingress> --egress <egress>
                               <name>

```

Create a port pair

Table 75.45. Positional Arguments

Value	Summary
None	None

Table 75.46. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Description for the port pair
<code>--service-function-parameters correlation=<correlation-type>,weight=<weight></code>	Dictionary of service function parameters. currently, correlation=(None

Value	Summary
mpls	nsh) and weight are supported. Weight is an integer that influences the selection of a port pair within a port pair group for a flow. The higher the weight, the more flows will hash to the port pair. The default weight is 1.
--ingress <ingress>	Ingress neutron port (name or id)
--egress <egress>	Egress neutron port (name or id)

Table 75.47. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.48. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.49. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.50. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.13. SFC PORT PAIR DELETE

Usage:

```
openstack sfc port pair delete [-h] <port-pair>
```

Delete a given port pair

Table 75.51. Positional Arguments

Value	Summary
None	None

Table 75.52. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

75.14. SFC PORT PAIR GROUP CREATE

Usage:

```
openstack sfc port pair group create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--description <description>]
                                     [--port-pair <port-pair>]
                                     [--enable-tap | --disable-tap]
                                     [--port-pair-group-parameters lb-fields=<lb-fields>]
                                     <name>
```

Create a port pair group

Table 75.53. Positional Arguments

Value	Summary
None	None

Table 75.54. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the port pair group
--port-pair <port-pair>	Port pair (name or id). this option can be repeated.
--enable-tap	Port pairs of this port pair group are deployed as passive tap service function
--disable-tap	Port pairs of this port pair group are deployed as I3 service function (default)
--port-pair-group-parameters lb-fields=<lb-fields>	Dictionary of port pair group parameters. currently only one parameter lb-fields is supported. <lb-fields> is a & separated list of load-balancing fields.

Table 75.55. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.56. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.57. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.58. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.15. SFC PORT PAIR GROUP DELETE

Usage:

```
openstack sfc port pair group delete [-h] <port-pair-group>
```

Delete a given port pair group

Table 75.59. Positional Arguments

Value	Summary
None	None

Table 75.60. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the python-neutronclient plugin.

75.16. SFC PORT PAIR GROUP LIST

Usage:

```
openstack sfc port pair group list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
```

List port pair group

Table 75.61. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 75.62. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 75.63. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 75.64. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.65. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.17. SFC PORT PAIR GROUP SET

Usage:

```
openstack sfc port pair group set [-h] [--name <name>]
                                [--description <description>]
                                [--port-pair <port-pair>]
                                [--no-port-pair]
                                <port-pair-group>
```

Set port pair group properties

Table 75.66. Positional Arguments

Value	Summary
None	None

Table 75.67. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the port pair group
--description <description>	Description for the port pair group
--port-pair <port-pair>	Port pair (name or id). this option can be repeated.
--no-port-pair	Remove all port pair from port pair group This command is provided by the python-neutronclient plugin.

75.18. SFC PORT PAIR GROUP SHOW

Usage:

```
openstack sfc port pair group show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
```

```
[--max-width <integer>]
[--fit-width] [--print-empty]
<port-pair-group>
```

Display port pair group details

Table 75.68. Positional Arguments

Value	Summary
None	None

Table 75.69. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 75.70. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.71. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.72. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.73. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.19. SFC PORT PAIR GROUP UNSET

Usage:

```
openstack sfc port pair group unset [-h]
                                   [--port-pair <port-pair> | --all-port-pair]
                                   <port-pair-group>
```

Unset port pairs from port pair group

Table 75.74. Positional Arguments

Value	Summary
None	None

Table 75.75. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--port-pair <port-pair>	Remove port pair(s) from the port pair group (name or ID). This option can be repeated.
--all-port-pair	Remove all port pairs from the port pair group This command is provided by the python-neutronclient plugin.

75.20. SFC PORT PAIR LIST

Usage:

```
openstack sfc port pair list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
```



```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN] [--long]

```

List port pairs

Table 75.76. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 75.77. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 75.78. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 75.79. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.80. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.21. SFC PORT PAIR SET

Usage:

```
openstack sfc port pair set [-h] [--name <name>]
                             [--description <description>]
                             <port-pair>
```

Set port pair properties

Table 75.81. Positional Arguments

Value	Summary
None	None

Table 75.82. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the port pair
--description <description>	Description for the port pair This command is provided by the python-neutronclient plugin.

75.22. SFC PORT PAIR SHOW

Usage:

```
openstack sfc port pair show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <port-pair>
```

Display port pair details

Table 75.83. Positional Arguments

Value	Summary
None	None

Table 75.84. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 75.85. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.86. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.87. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.88. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-neutronclient</code> plugin.

75.23. SFC SERVICE GRAPH CREATE

Usage:

```

openstack sfc service graph create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--description DESCRIPTION]
                                   --branching-point
                                   SRC_CHAIN:DST_CHAIN_1,DST_CHAIN_2,DST_CHAIN_N
                                   <name>

```

Create a service graph.

Table 75.89. Positional Arguments

Value	Summary
None	None

Table 75.90. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description DESCRIPTION</code>	Description for the service graph.
<code>--branching-point</code> <code>SRC_CHAIN:DST_CHAIN_1,DST_CHAIN_2,DST_CHAIN_N</code>	Service graph branching point: the key is the source Port Chain while the value is a list of destination Port Chains. This option can be repeated.

Table 75.91. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 75.92. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.93. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 75.94. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.24. SFC SERVICE GRAPH DELETE

Usage:

```
openstack sfc service graph delete [-h] <service-graph>
```

Delete a given service graph.

Table 75.95. Positional Arguments

Value	Summary
None	None

Table 75.96. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

75.25. SFC SERVICE GRAPH LIST

Usage:

```

openstack sfc service graph list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]

```

List service graphs

Table 75.97. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 75.98. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 75.99. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 75.100. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.101. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

75.26. SFC SERVICE GRAPH SET

Usage:

```
openstack sfc service graph set [-h] [--name <name>]
                                [--description <description>]
                                <service-graph>
```

Set service graph properties

Table 75.102. Positional Arguments

Value	Summary
None	None

Table 75.103. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the service graph
--description <description>	Description for the service graph This command is provided by the python-neutronclient plugin.

75.27. SFC SERVICE GRAPH SHOW

Usage:

```
openstack sfc service graph show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <service-graph>
```

Show information of a given service graph.

Table 75.104. Positional Arguments

Value	Summary
None	None

Table 75.105. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 75.106. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.107. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.108. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.109. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

CHAPTER 76. SOFTWARE

This chapter describes the commands under the **software** command.

76.1. SOFTWARE CONFIG CREATE

Usage:

```
openstack software config create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--config-file <config-file>]
                                [--definition-file <destination-file>]
                                [--group <group>]
                                <config-name>
```

Create software config

Table 76.1. Positional Arguments

Value	Summary
None	None

Table 76.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--config-file <config-file>	Path to json/yaml containing map defining <inputs>, <outputs>, and <options>
--definition-file <destination-file>	Path to software config script/data
--group <group>	Group name of tool expected by the software config

Table 76.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to json
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 76.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 76.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 76.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

76.2. SOFTWARE CONFIG DELETE

Usage:

```
openstack software config delete [-h] <config> [<config> ...]
```

Delete software configs

Table 76.7. Positional Arguments

Value	Summary
None	None

Table 76.8. Optional Arguments

Value	Summary

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-heatclient plugin.

76.3. SOFTWARE CONFIG LIST

Usage:

```

openstack software config list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--limit <limit>] [--marker <id>]

```

List software configs

Table 76.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Limit the number of configs returned
--marker <id>	Return configs that appear after the given config id

Table 76.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 76.11. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 76.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 76.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

76.4. SOFTWARE CONFIG SHOW

Usage:

```
openstack software config show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--config-only]
                               <config>
```

Show software config details

Table 76.14. Positional Arguments

Value	Summary
None	None

Table 76.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--config-only</code>	Only display the value of the <config> property.

Table 76.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to yaml
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 76.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 76.18. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 76.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

76.5. SOFTWARE DEPLOYMENT CREATE

Usage:

```

openstack software deployment create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--input-value <key=value>]
```

```
[--action <action>]
[--config <config>]
[--signal-transport <signal-transport>]
[--container <container>]
[--timeout <timeout>] --server
<server>
<deployment-name>
```

Create a software deployment.

Table 76.20. Positional Arguments

Value	Summary
None	None

Table 76.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--input-value <key=value>	Input value to set on the deployment. this can be specified multiple times.
--action <action>	Name of an action for this deployment. this can be a custom action, or one of CREATE, UPDATE, DELETE, SUSPEND, RESUME. Default is UPDATE
--config <config>	Id of the configuration to deploy
--signal-transport <signal-transport>	How the server should signal to heat with the deployment output values. TEMP_URL_SIGNAL will create a Swift TempURL to be signaled via HTTP PUT. ZAQAR_SIGNAL will create a dedicated zaqar queue to be signaled using the provided keystone credentials.NO_SIGNAL will result in the resource going to the COMPLETE state without waiting for any signal
--container <container>	Optional name of container to store temp_url_signal objects in. If not specified a container will be created with a name derived from the DEPLOY_NAME
--timeout <timeout>	Deployment timeout in minutes
--server <server>	Id of the server being deployed to

Table 76.22. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to yaml
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 76.23. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 76.24. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 76.25. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

76.6. SOFTWARE DEPLOYMENT DELETE

Usage:

```
openstack software deployment delete [-h]
                                   <deployment> [<deployment> ...]
```

Delete software deployment(s) and correlative config(s).

Table 76.26. Positional Arguments

Value	Summary
None	None

Table 76.27. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-heatclient plugin.

76.7. SOFTWARE DEPLOYMENT LIST

Usage:

```

openstack software deployment list [-h]
                                  [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN]
                                  [--quote {all,minimal,none,nonnumeric}]
                                  [--noindent] [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  [--sort-column SORT_COLUMN]
                                  [--server <server>] [--long]

```

List software deployments.

Table 76.28. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--server <server>	Id of the server to fetch deployments for
--long	List more fields in output

Table 76.29. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Value	Summary

Table 76.30. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 76.31. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 76.32. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

76.8. SOFTWARE DEPLOYMENT METADATA SHOW

Usage:

```
openstack software deployment metadata show [-h] <server>
```

Get deployment configuration metadata for the specified server.

Table 76.33. Positional Arguments

Value	Summary
None	None

Table 76.34. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-heatclient plugin.

76.9. SOFTWARE DEPLOYMENT OUTPUT SHOW

Usage:

```
openstack software deployment output show [-h] [--all] [--long]
                                         <deployment> [<output-name>]
```

Show a specific deployment output.

Table 76.35. Positional Arguments

Value	Summary
None	None

Table 76.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all	Display all deployment outputs
--long	Show full deployment logs in output This command is provided by the python-heatclient plugin.

76.10. SOFTWARE DEPLOYMENT SHOW

Usage:

```
openstack software deployment show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--long]
                                   <deployment>
```

Show SoftwareDeployment Details.

Table 76.37. Positional Arguments

Value	Summary
None	None

Table 76.38. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	Show more fields in output

Table 76.39. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 76.40. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 76.41. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 76.42. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

CHAPTER 77. STACK

This chapter describes the commands under the **stack** command.

77.1. STACK ABANDON

Usage:

```
openstack stack abandon [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--output-file <output-file>]
                        <stack>
```

Abandon stack and output results.

Table 77.1. Positional Arguments

Value	Summary
None	None

Table 77.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--output-file <output-file>	File to output abandon results

Table 77.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to json
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-heatclient</code> plugin.

77.2. STACK ADOPT

Usage:

```

openstack stack adopt [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [-e <environment>]
                        [--timeout <timeout>] [--enable-rollback]
                        [--parameter <key=value>] [--wait] --adopt-file
                        <adopt-file>
                        <stack-name>

```

Adopt a stack.

Table 77.7. Positional Arguments

Value	Summary
None	None

Table 77.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>-e <environment>, --environment <environment></code>	Path to the environment. can be specified multiple times
<code>--timeout <timeout></code>	Stack creation timeout in minutes
<code>--enable-rollback</code>	Enable rollback on create/update failure
<code>--parameter <key=value></code>	Parameter values used to create the stack. can be specified multiple times
<code>--wait</code>	Wait until stack adopt completes
<code>--adopt-file <adopt-file></code>	Path to adopt stack data file

Table 77.9. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.10. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.11. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.3. STACK CANCEL

Usage:

```
openstack stack cancel [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--wait]
                        [--no-rollback]
                        <stack> [<stack> ...]
```

Cancel current task for a stack. Supported tasks for cancellation: * update * create

Table 77.13. Positional Arguments

Value	Summary
None	None

Table 77.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait	Wait for cancel to complete
--no-rollback	Cancel without rollback

Table 77.15. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.16. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 77.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.18. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.4. STACK CHECK

Usage:

```
openstack stack check [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                      [--quote {all,minimal,none,nonnumeric}]
                      [--noindent] [--max-width <integer>]
```

```
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN] [--wait]
<stack> [<stack> ...]
```

Check a stack.

Table 77.19. Positional Arguments

Value	Summary
None	None

Table 77.20. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--wait	Wait for check to complete

Table 77.21. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.22. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 77.23. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.24. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.5. STACK CREATE

Usage:

```

openstack stack create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [-e <environment>]
                        [--timeout <timeout>] [--pre-create <resource>]
                        [--enable-rollback] [--parameter <key=value>]
                        [--parameter-file <key=file>] [--wait]
                        [--tags <tag1,tag2...>] [--dry-run] -t
                        <template>
                        <stack-name>

```

Create a stack.

Table 77.25. Positional Arguments

Value	Summary
None	None

Table 77.26. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-e <environment>, --environment <environment></code>	Path to the environment. can be specified multiple times
<code>--timeout <timeout></code>	Stack creating timeout in minutes

Value	Summary
<code>--pre-create <resource></code>	Name of a resource to set a pre-create hook to. Resources in nested stacks can be set using slash as a separator: <code>``nested_stack/another/my_resource``</code> . You can use wildcards to match multiple stacks or resources: <code>``nested_stack/an*/*_resource``</code> . This can be specified multiple times
<code>--enable-rollback</code>	Enable rollback on create/update failure
<code>--parameter <key=value></code>	Parameter values used to create the stack. this can be specified multiple times
<code>--parameter-file <key=file></code>	Parameter values from file used to create the stack. This can be specified multiple times. Parameter values would be the content of the file
<code>--wait</code>	Wait until stack goes to <code>create_complete</code> or <code>CREATE_FAILED</code>
<code>--tags <tag1,tag2...></code>	A list of tags to associate with the stack
<code>--dry-run</code>	Do not actually perform the stack create, but show what would be created
<code>-t <template>, --template <template></code>	Path to the template

Table 77.27. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.28. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.29. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.30. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.6. STACK DELETE

Usage:

```
openstack stack delete [-h] [-y] [--wait] <stack> [<stack> ...]
```

Delete stack(s).

Table 77.31. Positional Arguments

Value	Summary
None	None

Table 77.32. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-y, --yes</code>	Skip yes/no prompt (assume yes)
<code>--wait</code>	Wait for stack delete to complete This command is provided by the python-heatclient plugin.

77.7. STACK ENVIRONMENT SHOW

Usage:

```

openstack stack environment show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <NAME or ID>

```

Show a stack's environment.

Table 77.33. Positional Arguments

Value	Summary
None	None

Table 77.34. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 77.35. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.36. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.37. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.38. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-heatclient</code> plugin.

77.8. STACK EVENT LIST

Usage:

```

openstack stack event list [-h] [-f {csv,json,log,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN]
                           [--resource <resource>]
                           [--filter <key=value>] [--limit <limit>]
                           [--marker <id>] [--nested-depth <depth>]
                           [--sort <key>[:<direction>]] [--follow]
                           <stack>

```

List events.

Table 77.39. Positional Arguments

Value	Summary
None	None

Table 77.40. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--resource <resource></code>	Name of resource to show events for. note: this cannot be specified with <code>--nested-depth</code>
<code>--filter <key=value></code>	Filter parameters to apply on returned events

Value	Summary
<code>--limit <limit></code>	Limit the number of events returned
<code>--marker <id></code>	Only return events that appear after the given id
<code>--nested-depth <depth></code>	Depth of nested stacks from which to display events. Note: this cannot be specified with <code>--resource</code>
<code>--sort <key>[:<direction>]</code>	Sort output by selected keys and directions (asc or desc) (default: asc). Specify multiple times to sort on multiple keys. Sort key can be: "event_time" (default), "resource_name", "links", "logical_resource_id", "resource_status", "resource_status_reason", "physical_resource_id", or "id". You can leave the key empty and specify ":desc" for sorting by reverse time.
<code>--follow</code>	Print events until process is halted

Table 77.41. Output Formatters

Value	Summary
<code>-f {csv,json,log,table,value,yaml}, --format {csv,json,log,table,value,yaml}</code>	The output format, defaults to log
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.42. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 77.43. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.44. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-heatclient</code> plugin.

77.9. STACK EVENT SHOW

Usage:

```

openstack stack event show [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty]
                           <stack> <resource> <event>

```

Show event details.

Table 77.45. Positional Arguments

Value	Summary
None	None

Table 77.46. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 77.47. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.48. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.49. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.50. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.10. STACK EXPORT

Usage:

```
openstack stack export [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--output-file <output-file>]
                        <stack>
```

Export stack data json.

Table 77.51. Positional Arguments

Value	Summary
None	None

Table 77.52. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--output-file <output-file></code>	File to output export data

Table 77.53. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to json
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.54. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.55. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.56. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-heatclient</code> plugin.

77.11. STACK FAILURES LIST

Usage:

```
openstack stack failures list [-h] [--long] <stack>
```

Show information about failed stack resources.

Table 77.57. Positional Arguments

Value	Summary
None	None

Table 77.58. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	Show full deployment logs in output This command is provided by the python-heatclient plugin.

77.12. STACK FILE LIST

Usage:

```
openstack stack file list [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <NAME or ID>
```

Show a stack’s files map.

Table 77.59. Positional Arguments

Value	Summary
None	None

Table 77.60. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 77.61. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to yaml
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.62. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.63. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.64. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.13. STACK HOOK CLEAR

Usage:

```
openstack stack hook clear [-h] [--pre-create] [--pre-update]
                          [--pre-delete]
                          <stack> <resource> [<resource> ...]
```

Clear resource hooks on a given stack.

Table 77.65. Positional Arguments

Value	Summary
None	None

Table 77.66. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--pre-create	Clear the pre-create hooks
--pre-update	Clear the pre-update hooks
--pre-delete	Clear the pre-delete hooks This command is provided by the python-heatclient plugin.

77.14. STACK HOOK POLL

Usage:

```

openstack stack hook poll [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--nested-depth <nested-depth>]
                        <stack>

```

List resources with pending hook for a stack.

Table 77.67. Positional Arguments

Value	Summary
None	None

Table 77.68. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--nested-depth <nested-depth>	Depth of nested stacks from which to display hooks

Table 77.69. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.70. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 77.71. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.72. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.15. STACK LIST

Usage:

```
openstack stack list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
```



```

[--deleted] [--nested] [--hidden]
[--property <key=value>] [--tags <tag1,tag2...>]
[--tag-mode <mode>] [--limit <limit>]
[--marker <id>] [--sort <key>[:<direction>]]
[--all-projects] [--short] [--long]

```

List stacks.

Table 77.73. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--deleted	Include soft-deleted stacks in the stack listing
--nested	Include nested stacks in the stack listing
--hidden	Include hidden stacks in the stack listing
--property <key=value>	Filter properties to apply on returned stacks (repeat to filter on multiple properties)
--tags <tag1,tag2...>	List of tags to filter by. can be combined with --tag-mode to specify how to filter tags
--tag-mode <mode>	Method of filtering tags. must be one of "any", "not", or "not-any". If not specified, multiple tags will be combined with the boolean AND expression
--limit <limit>	The number of stacks returned
--marker <id>	Only return stacks that appear after the given id
--sort <key>[:<direction>]	Sort output by selected keys and directions (asc or desc) (default: asc). Specify multiple times to sort on multiple properties
--all-projects	None
--short	List fewer fields in output
--long	List additional fields in output, this is implied by

Table 77.74. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.75. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 77.76. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.77. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.16. STACK OUTPUT LIST

Usage:

```
openstack stack output list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
<stack>

```

List stack outputs.

Table 77.78. Positional Arguments

Value	Summary
None	None

Table 77.79. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 77.80. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.81. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 77.82. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.83. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.17. STACK OUTPUT SHOW

Usage:

```

openstack stack output show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--all]
                             <stack> [<output>]

```

Show stack output.

Table 77.84. Positional Arguments

Value	Summary
None	None

Table 77.85. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all</code>	Display all stack outputs

Table 77.86. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.87. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.88. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.89. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.18. STACK RESOURCE LIST

Usage:

```

openstack stack resource list [-h] [-f {csv,dot,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] [--long]
                               [-n <nested-depth>]
                               [--filter <key=value>]
                               <stack>

```

List stack resources.

Table 77.90. Positional Arguments

Value	Summary
None	None

Table 77.91. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	Enable detailed information presented for each resource in resource list
-n <nested-depth>, --nested-depth <nested-depth>	Depth of nested stacks from which to display resources
--filter <key=value>	Filter parameters to apply on returned resources based on their name, status, type, action, id and physical_resource_id

Table 77.92. Output Formatters

Value	Summary
-f {csv,dot,json,table,value,yaml}, --format {csv,dot,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.93. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 77.94. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.95. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.19. STACK RESOURCE MARK UNHEALTHY

Usage:

```
openstack stack resource mark unhealthy [-h] [--reset]
                                     <stack> <resource> [reason]
```

Set resource's health.

Table 77.96. Positional Arguments

Value	Summary
None	None

Table 77.97. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--reset</code>	Set the resource as healthy This command is provided by the python-heatclient plugin.

77.20. STACK RESOURCE METADATA

Usage:

```
openstack stack resource metadata [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
```

```

[--max-width <integer>] [--fit-width]
[--print-empty]
<stack> <resource>

```

Show resource metadata

Table 77.98. Positional Arguments

Value	Summary
None	None

Table 77.99. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 77.100. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to json
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.101. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.102. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.103. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.21. STACK RESOURCE SHOW

Usage:

```

openstack stack resource show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--with-attr <attribute>]
                               <stack> <resource>

```

Display stack resource.

Table 77.104. Positional Arguments

Value	Summary
None	None

Table 77.105. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--with-attr <attribute>	Attribute to show, can be specified multiple times

Table 77.106. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.107. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.108. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.109. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.22. STACK RESOURCE SIGNAL

Usage:

```

openstack stack resource signal [-h] [--data <data>]
                                [--data-file <data-file>]
                                <stack> <resource>

```

Signal a resource with optional data.

Table 77.110. Positional Arguments

Value	Summary
None	None

Table 77.111. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--data <data></code>	Json data to send to the signal handler
<code>--data-file <data-file></code>	File containing json data to send to the signal handler This command is provided by the python-heatclient plugin.

77.23. STACK RESUME

Usage:

```
openstack stack resume [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--wait]
                        <stack> [<stack> ...]
```

Resume a stack.

Table 77.112. Positional Arguments

Value	Summary
None	None

Table 77.113. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait</code>	Wait for resume to complete

Table 77.114. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Value	Summary

Table 77.115. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 77.116. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.117. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.24. STACK SHOW

Usage:

```
openstack stack show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--no-resolve-outputs]
                    <stack>
```

Show stack details.

Table 77.118. Positional Arguments

Value	Summary
None	None

Table 77.119. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--no-resolve-outputs	Do not resolve outputs of the stack.

Table 77.120. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.121. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.122. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.123. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.25. STACK SNAPSHOT CREATE

Usage:

```
openstack stack snapshot create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--name <name>]
                                <stack>
```

Create stack snapshot.

Table 77.124. Positional Arguments

Value	Summary
None	None

Table 77.125. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of snapshot

Table 77.126. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.127. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.128. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.129. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.26. STACK SNAPSHOT DELETE

Usage:

```
openstack stack snapshot delete [-h] [-y] <stack> <snapshot>
```

Delete stack snapshot.

Table 77.130. Positional Arguments

Value	Summary
None	None

Table 77.131. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
-y, --yes	Skip yes/no prompt (assume yes) This command is provided by the python-heatclient plugin.

77.27. STACK SNAPSHOT LIST

Usage:

```
openstack stack snapshot list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               <stack>
```

List stack snapshots.

Table 77.132. Positional Arguments

Value	Summary
None	None

Table 77.133. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 77.134. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.135. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 77.136. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.137. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.28. STACK SNAPSHOT RESTORE

Usage:

```
openstack stack snapshot restore [-h] <stack> <snapshot>
```

Restore stack snapshot

Table 77.138. Positional Arguments

Value	Summary
None	None

Table 77.139. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-heatclient plugin.

77.29. STACK SNAPSHOT SHOW

Usage:

```
openstack stack snapshot show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               <stack> <snapshot>
```

Show stack snapshot.

Table 77.140. Positional Arguments

Value	Summary
None	None

Table 77.141. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 77.142. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.143. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.144. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.145. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.30. STACK SUSPEND

Usage:

```
openstack stack suspend [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--wait]
                        <stack> [<stack> ...]
```

Suspend a stack.

Table 77.146. Positional Arguments

Value	Summary
None	None

Table 77.147. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait</code>	Wait for suspend to complete

Table 77.148. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.149. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 77.150. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.151. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.31. STACK TEMPLATE SHOW

Usage:

```

openstack stack template show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               <stack>

```

Display stack template.

Table 77.152. Positional Arguments

Value	Summary
None	None

Table 77.153. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 77.154. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.155. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.156. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.157. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

77.32. STACK UPDATE

Usage:

```

openstack stack update [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [-t <template>]
                        [-e <environment>] [--pre-update <resource>]
                        [--timeout <timeout>] [--rollback <value>]
                        [--dry-run] [--show-nested]
                        [--parameter <key=value>]
                        [--parameter-file <key=file>] [--existing]
                        [--clear-parameter <parameter>]
                        [--tags <tag1,tag2...>] [--wait] [--converge]
                        <stack>

```

Update a stack.

Table 77.158. Positional Arguments

Value	Summary
None	None

Table 77.159. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
-t <template>, --template <template>	Path to the template
-e <environment>, --environment <environment>	Path to the environment. can be specified multiple times

Value	Summary
<code>--pre-update <resource></code>	Name of a resource to set a pre-update hook to. Resources in nested stacks can be set using slash as a separator: <code>``nested_stack/another/my_resource``</code> . You can use wildcards to match multiple stacks or resources: <code>``nested_stack/an*/*_resource``</code> . This can be specified multiple times
<code>--timeout <timeout></code>	Stack update timeout in minutes
<code>--rollback <value></code>	Set rollback on update failure. value "enabled" sets rollback to enabled. Value "disabled" sets rollback to disabled. Value "keep" uses the value of existing stack to be updated (default)
<code>--dry-run</code>	Do not actually perform the stack update, but show what would be changed
<code>--show-nested</code>	Show nested stacks when performing <code>--dry-run</code>
<code>--parameter <key=value></code>	Parameter values used to create the stack. this can be specified multiple times
<code>--parameter-file <key=file></code>	Parameter values from file used to create the stack. This can be specified multiple times. Parameter value would be the content of the file
<code>--existing</code>	Re-use the template, parameters and environment of the current stack. If the template argument is omitted then the existing template is used. If no
<code>--environment is specified then the existing</code>	Environment is used. parameters specified in
<code>--parameter will patch over the existing values in the</code>	Current stack. parameters omitted will keep the existing values
<code>--clear-parameter <parameter></code>	Remove the parameters from the set of parameters of current stack for the stack-update. The default value in the template will be used. This can be specified multiple times
<code>--tags <tag1,tag2...></code>	An updated list of tags to associate with the stack
<code>--wait</code>	Wait until stack goes to <code>update_complete</code> or <code>UPDATE_FAILED</code>

Value	Summary
<code>--converge</code>	Stack update with observe on reality.

Table 77.160. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.161. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.162. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.163. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-heatclient plugin.

CHAPTER 78. SUBNET

This chapter describes the commands under the **subnet** command.

78.1. SUBNET CREATE

Usage:

```

openstack subnet create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--project <project>]
                        [--project-domain <project-domain>]
                        [--subnet-pool <subnet-pool> | --use-prefix-delegation
USE_PREFIX_DELEGATION | --use-default-subnet-pool]
                        [--prefix-length <prefix-length>]
                        [--subnet-range <subnet-range>]
                        [--dhcp | --no-dhcp] [--gateway <gateway>]
                        [--ip-version {4,6}]
                        [--ipv6-ra-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}]
                        [--ipv6-address-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}]
                        [--network-segment <network-segment>] --network
                        <network> [--description <description>]
                        [--allocation-pool start=<ip-address>,end=<ip-address>]
                        [--dns-nameserver <dns-nameserver>]
                        [--host-route destination=<subnet>,gateway=<ip-address>]
                        [--service-type <service-type>]
                        [--tag <tag> | --no-tag]
                        <name>

```

Create a subnet

Table 78.1. Positional Arguments

Value	Summary
None	None

Table 78.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner’s project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Value	Summary
--subnet-pool <subnet-pool>	Subnet pool from which this subnet will obtain a cidr (Name or ID)
--use-prefix-delegation USE_PREFIX_DELEGATION	Use <i>prefix-delegation</i> if ip is ipv6 format and ip would be delegated externally
--use-default-subnet-pool	Use default subnet pool for --ip-version
--prefix-length <prefix-length>	Prefix length for subnet allocation from subnet pool
--subnet-range <subnet-range>	Subnet range in cidr notation (required if --subnet-pool is not specified, optional otherwise)
--dhcp	Enable dhcp (default)
--no-dhcp	Disable dhcp
--gateway <gateway>	Specify a gateway for the subnet. the three options are: <ip-address>: Specific IP address to use as the gateway, <i>auto</i> : Gateway address should automatically be chosen from within the subnet itself, <i>none</i> : This subnet will not use a gateway, e.g.: --gateway 192.168.9.1, --gateway auto, --gateway none (default is <i>auto</i>).
--ip-version {4,6}	Ip version (default is 4). note that when subnet pool is specified, IP version is determined from the subnet pool and this option is ignored.
--ipv6-ra-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}	Ipv6 ra (router advertisement) mode, valid modes: [dhcpv6-stateful, dhcpv6-stateless, slaac]
--ipv6-address-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}	Ipv6 address mode, valid modes: [dhcpv6-stateful, dhcpv6-stateless, slaac]
--network-segment <network-segment>	Network segment to associate with this subnet (name or ID)
--network <network>	Network this subnet belongs to (name or id)
--description <description>	Set subnet description
--allocation-pool start=<ip-address>,end=<ip-address>	Allocation pool ip addresses for this subnet e.g.: start=192.168.199.2,end=192.168.199.254 (repeat option to add multiple IP addresses)

Value	Summary
<code>--dns-nameserver <dns-nameserver></code>	Dns server for this subnet (repeat option to set multiple DNS servers)
<code>--host-route destination=<subnet>,gateway=<ip-address></code>	Additional route for this subnet e.g.: destination=10.10.0.0/16,gateway=192.168.71.254 destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to add multiple routes)
<code>--service-type <service-type></code>	Service type for this subnet e.g.: network:floatingip_agent_gateway. Must be a valid device owner value for a network port (repeat option to set multiple service types)
<code>--tag <tag></code>	Tag to be added to the subnet (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the subnet

Table 78.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 78.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 78.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 78.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

78.2. SUBNET DELETE

Usage:

```
openstack subnet delete [-h] <subnet> [<subnet> ...]
```

Delete subnet(s)

Table 78.7. Positional Arguments

Value	Summary
None	None

Table 78.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

78.3. SUBNET LIST

Usage:

```
openstack subnet list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--long]
                        [--ip-version <ip-version>] [--dhcp | --no-dhcp]
                        [--service-type <service-type>]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--network <network>] [--gateway <gateway>]
                        [--name <name>] [--subnet-range <subnet-range>]
                        [--tags <tag>[,<tag>,...]]
```

```

[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

List subnets

Table 78.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--ip-version <ip-version>	List only subnets of given ip version in output. Allowed values for IP version are 4 and 6.
--dhcp	List subnets which have dhcp enabled
--no-dhcp	List subnets which have dhcp disabled
--service-type <service-type>	List only subnets of a given service type in output e.g.: network:floatingip_agent_gateway. Must be a valid device owner value for a network port (repeat option to list multiple service types)
--project <project>	List only subnets which belong to a given project in output (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--network <network>	List only subnets which belong to a given network in output (name or ID)
--gateway <gateway>	List only subnets of given gateway ip in output
--name <name>	List only subnets of given name in output
--subnet-range <subnet-range>	List only subnets of given subnet range (in cidr notation) in output e.g.: --subnet-range 10.10.0.0/16
--tags <tag>[,<tag>,...]	List subnets which have all given tag(s) (comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List subnets which have any given tag(s) (comma-separated list of tags)

Value	Summary
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude subnets which have all given tag(s) (comma-separated list of tags)
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude subnets which have any given tag(s) (comma-separated list of tags)

Table 78.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 78.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 78.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 78.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

78.4. SUBNET POOL CREATE

Usage:

```

openstack subnet pool create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] --pool-prefix
                             <pool-prefix>
                             [--default-prefix-length <default-prefix-length>]
                             [--min-prefix-length <min-prefix-length>]
                             [--max-prefix-length <max-prefix-length>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--address-scope <address-scope>]
                             [--default | --no-default]
                             [--share | --no-share]
                             [--description <description>]
                             [--default-quota <num-ip-addresses>]
                             [--tag <tag> | --no-tag]
                             <name>

```

Create subnet pool

Table 78.14. Positional Arguments

Value	Summary
None	None

Table 78.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--pool-prefix <pool-prefix></code>	Set subnet pool prefixes (in cidr notation) (repeat option to set multiple prefixes)
<code>--default-prefix-length <default-prefix-length></code>	Set subnet pool default prefix length
<code>--min-prefix-length <min-prefix-length></code>	Set subnet pool minimum prefix length
<code>--max-prefix-length <max-prefix-length></code>	Set subnet pool maximum prefix length

Value	Summary
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--address-scope <address-scope></code>	Set address scope associated with the subnet pool (name or ID), prefixes must be unique across address scopes
<code>--default</code>	Set this as a default subnet pool
<code>--no-default</code>	Set this as a non-default subnet pool
<code>--share</code>	Set this subnet pool as shared
<code>--no-share</code>	Set this subnet pool as not shared
<code>--description <description></code>	Set subnet pool description
<code>--default-quota <num-ip-addresses></code>	Set default per-project quota for this subnet pool as the number of IP addresses that can be allocated from the subnet pool
<code>--tag <tag></code>	Tag to be added to the subnet pool (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the subnet pool

Table 78.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 78.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 78.18. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 78.19. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

78.5. SUBNET POOL DELETE

Usage:

```
openstack subnet pool delete [-h] <subnet-pool> [<subnet-pool> ...]
```

Delete subnet pool(s)

Table 78.20. Positional Arguments

Value	Summary
None	None

Table 78.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

78.6. SUBNET POOL LIST

Usage:

```
openstack subnet pool list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
```

```

[--sort-column SORT_COLUMN] [--long]
[--share | --no-share]
[--default | --no-default]
[--project <project>]
[--project-domain <project-domain>]
[--name <name>]
[--address-scope <address-scope>]
[--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

List subnet pools

Table 78.22. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--share	List subnet pools shared between projects
--no-share	List subnet pools not shared between projects
--default	List subnet pools used as the default external subnet pool
--no-default	List subnet pools not used as the default external subnet pool
--project <project>	List subnet pools according to their project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--name <name>	List only subnet pools of given name in output
--address-scope <address-scope>	List only subnet pools of given address scope in output (name or ID)
--tags <tag>[,<tag>,...]	List subnet pools which have all given tag(s) (comma- separated list of tags)
--any-tags <tag>[,<tag>,...]	List subnet pools which have any given tag(s) (comma- separated list of tags)

Value	Summary
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude subnet pools which have all given tag(s) (Comma-separated list of tags)
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude subnet pools which have any given tag(s) (Comma-separated list of tags)

Table 78.23. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 78.24. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 78.25. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 78.26. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

78.7. SUBNET POOL SET

Usage:

```

openstack subnet pool set [-h] [--name <name>]
                        [--pool-prefix <pool-prefix>]
                        [--default-prefix-length <default-prefix-length>]
                        [--min-prefix-length <min-prefix-length>]
                        [--max-prefix-length <max-prefix-length>]
                        [--address-scope <address-scope> | --no-address-scope]
                        [--default | --no-default]
                        [--description <description>]
                        [--default-quota <num-ip-addresses>]
                        [--tag <tag>] [--no-tag]
                        <subnet-pool>

```

Set subnet pool properties

Table 78.27. Positional Arguments

Value	Summary
None	None

Table 78.28. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set subnet pool name
<code>--pool-prefix <pool-prefix></code>	Set subnet pool prefixes (in cidr notation) (repeat option to set multiple prefixes)
<code>--default-prefix-length <default-prefix-length></code>	Set subnet pool default prefix length
<code>--min-prefix-length <min-prefix-length></code>	Set subnet pool minimum prefix length
<code>--max-prefix-length <max-prefix-length></code>	Set subnet pool maximum prefix length
<code>--address-scope <address-scope></code>	Set address scope associated with the subnet pool (name or ID), prefixes must be unique across address scopes

Value	Summary
--no-address-scope	Remove address scope associated with the subnet pool
--default	Set this as a default subnet pool
--no-default	Set this as a non-default subnet pool
--description <description>	Set subnet pool description
--default-quota <num-ip-addresses>	Set default per-project quota for this subnet pool as the number of IP addresses that can be allocated from the subnet pool
--tag <tag>	Tag to be added to the subnet pool (repeat option to set multiple tags)
--no-tag	Clear tags associated with the subnet pool. specify both --tag and --no-tag to overwrite current tags

78.8. SUBNET POOL SHOW

Usage:

```
openstack subnet pool show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <subnet-pool>
```

Display subnet pool details

Table 78.29. Positional Arguments

Value	Summary
None	None

Table 78.30. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 78.31. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 78.32. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 78.33. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 78.34. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

78.9. SUBNET POOL UNSET

Usage:

```
openstack subnet pool unset [-h] [--tag <tag> | --all-tag]
                             <subnet-pool>
```

Unset subnet pool properties

Table 78.35. Positional Arguments

Value	Summary
None	None

Table 78.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--tag <tag>	Tag to be removed from the subnet pool (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the subnet pool

78.10. SUBNET SET

Usage:

```

openstack subnet set [-h] [--name <name>] [--dhcp | --no-dhcp]
                    [--gateway <gateway>]
                    [--network-segment <network-segment>]
                    [--description <description>] [--tag <tag>]
                    [--no-tag]
                    [--allocation-pool start=<ip-address>,end=<ip-address>]
                    [--no-allocation-pool]
                    [--dns-nameserver <dns-nameserver>]
                    [--no-dns-nameservers]
                    [--host-route destination=<subnet>,gateway=<ip-address>]
                    [--no-host-route] [--service-type <service-type>]
                    <subnet>

```

Set subnet properties

Table 78.37. Positional Arguments

Value	Summary
None	None

Table 78.38. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Updated name of the subnet

Value	Summary
--dhcp	Enable dhcp
--no-dhcp	Disable dhcp
--gateway <gateway>	Specify a gateway for the subnet. the options are: <ip-address>: Specific IP address to use as the gateway, <i>none</i> : This subnet will not use a gateway, e.g.: --gateway 192.168.9.1, --gateway none.
--network-segment <network-segment>	Network segment to associate with this subnet (name or ID). It is only allowed to set the segment if the current value is None , the network must also have only one segment and only one subnet can exist on the network.
--description <description>	Set subnet description
--tag <tag>	Tag to be added to the subnet (repeat option to set multiple tags)
--no-tag	Clear tags associated with the subnet. specify both
--tag and --no-tag to overwrite current tags -- allocation-pool start=<ip-address>,end=<ip-address>	Allocation pool ip addresses for this subnet e.g.: start=192.168.199.2,end=192.168.199.254 (repeat option to add multiple IP addresses)
--no-allocation-pool	Clear associated allocation-pools from the subnet. Specify both --allocation-pool and --no-allocation-pool to overwrite the current allocation pool information.
--dns-nameserver <dns-nameserver>	Dns server for this subnet (repeat option to set multiple DNS servers)
--no-dns-nameservers	Clear existing information of dns nameservers. specify both --dns-nameserver and --no-dns-nameserver to overwrite the current DNS Nameserver information.
--host-route destination=<subnet>,gateway=<ip-address>	Additional route for this subnet e.g.: destination=10.10.0.0/16,gateway=192.168.71.254 destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to add multiple routes)

Value	Summary
--no-host-route	Clear associated host-routes from the subnet. specify both --host-route and --no-host-route to overwrite the current host route information.
--service-type <service-type>	Service type for this subnet e.g.: network:floatingip_agent_gateway. Must be a valid device owner value for a network port (repeat option to set multiple service types)

78.11. SUBNET SHOW

Usage:

```
openstack subnet show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <subnet>
```

Display subnet details

Table 78.39. Positional Arguments

Value	Summary
None	None

Table 78.40. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 78.41. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 78.42. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 78.43. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 78.44. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

78.12. SUBNET UNSET

Usage:

```
openstack subnet unset [-h]
                        [--allocation-pool start=<ip-address>,end=<ip-address>]
                        [--dns-nameserver <dns-nameserver>]
                        [--host-route destination=<subnet>,gateway=<ip-address>]
                        [--service-type <service-type>]
                        [--tag <tag> | --all-tag]
                        <subnet>
```

Unset subnet properties

Table 78.45. Positional Arguments

Value	Summary
None	None

Table 78.46. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--allocation-pool start=<ip-address>,end=<ip-address>	Allocation pool ip addresses to be removed from this subnet e.g.: start=192.168.199.2,end=192.168.199.254 (repeat option to unset multiple allocation pools)
--dns-nameserver <dns-nameserver>	Dns server to be removed from this subnet (repeat option to unset multiple DNS servers)
--host-route destination=<subnet>,gateway=<ip-address>	Route to be removed from this subnet e.g.: destination=10.10.0.0/16,gateway=192.168.71.254 destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to unset multiple host routes)
--service-type <service-type>	Service type to be removed from this subnet e.g.: network:floatingip_agent_gateway. Must be a valid device owner value for a network port (repeat option to unset multiple service types)
--tag <tag>	Tag to be removed from the subnet (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the subnet

CHAPTER 79. TASK

This chapter describes the commands under the **task** command.

79.1. TASK EXECUTION LIST

Usage:

```
openstack task execution list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker [MARKER]] [--limit [LIMIT]]
                             [--sort_keys [SORT_KEYS]]
                             [--sort_dirs [SORT_DIRS]]
                             [--filter FILTERS] [--oldest]
                             [workflow_execution]
```

List all tasks.

Table 79.1. Positional Arguments

Value	Summary
None	None

Table 79.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Value	Summary
<code>--oldest</code>	Display the executions starting from the oldest entries instead of the newest

Table 79.3. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 79.4. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 79.5. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 79.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

79.2. TASK EXECUTION PUBLISHED SHOW

Usage:

```
openstack task execution published show [-h] id
```

Show task published variables.

Table 79.7. Positional Arguments

Value	Summary
None	None

Table 79.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

79.3. TASK EXECUTION RERUN

Usage:

```
openstack task execution rerun [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--resume] [-e ENV]
                                id
```

Rerun an existing task.

Table 79.9. Positional Arguments

Value	Summary
None	None

Table 79.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--resume	Rerun only failed or unstarted action executions for with-items task

Value	Summary
<code>-e ENV, --env ENV</code>	Environment variables

Table 79.11. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 79.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 79.13. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 79.14. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

79.4. TASK EXECUTION RESULT SHOW

Usage:

```
openstack task execution result show [-h] id
```

Show task output data.

Table 79.15. Positional Arguments

Value	Summary
None	None

Table 79.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

79.5. TASK EXECUTION SHOW

Usage:

```
openstack task execution show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             task
```

Show specific task.

Table 79.17. Positional Arguments

Value	Summary
None	None

Table 79.18. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 79.19. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 79.20. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 79.21. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 79.22. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

CHAPTER 80. TLD

This chapter describes the commands under the **tld** command.

80.1. TLD CREATE

Usage:

```
openstack tld create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] --name NAME
                    [--description DESCRIPTION] [--all-projects]
                    [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
```

Create new tld

Table 80.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tld name
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 80.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 80.3. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 80.4. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 80.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-designateclient</code> plugin.

80.2. TLD DELETE

Usage:

```
openstack tld delete [-h] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
                    id
```

Delete tld

Table 80.6. Positional Arguments

Value	Summary
None	None

Table 80.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

80.3. TLD LIST

Usage:

```
openstack tld list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                  [--quote {all,minimal,none,nonnumeric}] [--noindent]
                  [--max-width <integer>] [--fit-width]
                  [--print-empty] [--sort-column SORT_COLUMN]
                  [--name NAME] [--description DESCRIPTION]
                  [--all-projects] [--edit-managed]
                  [--sudo-project-id SUDO_PROJECT_ID]
```

List tlds

Table 80.8. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME</code>	Tld name
<code>--description DESCRIPTION</code>	Tld description
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 80.9. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 80.10. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 80.11. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 80.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

80.4. TLD SET

Usage:

```
openstack tld set [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                  [--noindent] [--prefix PREFIX]
                  [--max-width <integer>] [--fit-width] [--print-empty]
                  [--name NAME]
                  [--description DESCRIPTION | --no-description]
```

```
[--all-projects] [--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
id
```

Set tld properties

Table 80.13. Positional Arguments

Value	Summary
None	None

Table 80.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tld name
--description DESCRIPTION	Description
--no-description --all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 80.15. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 80.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 80.17. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 80.18. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-designateclient</code> plugin.

80.5. TLD SHOW

Usage:

```
openstack tld show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                  [--noindent] [--prefix PREFIX]
                  [--max-width <integer>] [--fit-width]
                  [--print-empty] [--all-projects] [--edit-managed]
                  [--sudo-project-id SUDO_PROJECT_ID]
                  id
```

Show tld details

Table 80.19. Positional Arguments

Value	Summary
None	None

Table 80.20. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 80.21. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 80.22. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 80.23. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 80.24. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

CHAPTER 81. TOKEN

This chapter describes the commands under the **token** command.

81.1. TOKEN ISSUE

Usage:

```

openstack token issue [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
```

Issue new token

Table 81.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 81.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 81.3. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 81.4. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 81.5. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

81.2. TOKEN REVOKE

Usage:

```
openstack token revoke [-h] <token>
```

Revoke existing token

Table 81.6. Positional Arguments

Value	Summary
None	None

Table 81.7. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

CHAPTER 82. TRIPLEO

This chapter describes the commands under the **tripleo** command.

82.1. TRIPLEO CONFIG GENERATE ANSIBLE

Usage:

```
openstack tripleo config generate ansible
                                [--deployment-user DEPLOYMENT_USER]
                                [--output-dir OUTPUT_DIR]
```

Generate the default ansible.cfg for deployments.

Table 82.1. Optional Arguments

Value	Summary
--deployment-user DEPLOYMENT_USER	User who executes the tripleo config generate command. Defaults to stack.
--output-dir OUTPUT_DIR	Directory to output ansible.cfg and ansible.log files.

82.2. TRIPLEO CONTAINER IMAGE DELETE

Usage:

```
openstack tripleo container image delete [-h]
                                         [--registry-url <registry url>]
                                         [--username <username>]
                                         [--password <password>] [-y]
                                         <image to delete>
```

Delete specified image from registry.

Table 82.2. Positional Arguments

Value	Summary
None	None

Table 82.3. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--registry-url <registry url>	Url of registry images are to be listed from in the form <fqdn>:<port>.

Value	Summary
--username <username>	Username for image registry.
--password <password>	Password for image registry.
-y, --yes	Skip yes/no prompt (assume yes).

82.3. TRIPLEO CONTAINER IMAGE LIST

Usage:

```

openstack tripleo container image list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--registry-url <registry url>]
                                     [--username <username>]
                                     [--password <password>]

```

List images discovered in registry.

Table 82.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--registry-url <registry url>	Url of registry images are to be listed from in the form <fqdn>:<port>.
--username <username>	Username for image registry.
--password <password>	Password for image registry.

Table 82.5. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 82.6. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 82.7. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 82.8. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

82.4. TRIPLEO CONTAINER IMAGE PREPARE DEFAULT

Usage:

```
openstack tripleo container image prepare default [-h]
                                                    [--output-env-file <file path>]
                                                    [--local-push-destination]
```

Generate a default ContainerImagePrepare parameter.

Table 82.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--output-env-file <file path>	File to write environment file containing default ContainerImagePrepare value.
--local-push-destination	Include a push_destination to trigger upload to a local registry.

82.5. TRIPLEO CONTAINER IMAGE PREPARE

Usage:

```

openstack tripleo container image prepare [-h]
                                         [--environment-file <file path>]
                                         [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
                                         [--roles-file ROLES_FILE]
                                         [--output-env-file <file path>]
                                         [--dry-run]
                                         [--cleanup <full, partial, none>]
```

Prepare and upload containers from a single command.

Table 82.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--environment-file <file path>, -e <file path>	Environment file containing the containerimageprepare parameter which specifies all prepare actions. Also, environment files specifying which services are containerized. Entries will be filtered to only contain images used by containerized services. (Can be specified more than once.)
--environment-directory <HEAT ENVIRONMENT DIRECTORY>	Environment file directories that are automatically added to the environment. Can be specified more than once. Files in directories are loaded in ascending sort order.
--roles-file ROLES_FILE, -r ROLES_FILE	Roles file, overrides the default roles_data.yaml in the t-h-t templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
--output-env-file <file path>	File to write heat environment file which specifies all image parameters. Any existing file will be overwritten.

Value	Summary
<code>--dry-run</code>	Do not perform any pull, modify, or push operations. The environment file will still be populated as if these operations were performed.
<code>--cleanup <full, partial, none></code>	Cleanup behavior for local images left after upload. The default <i>full</i> will attempt to delete all local images. <i>partial</i> will leave images required for deployment on this host. <i>none</i> will do no cleanup.

82.6. TRIPLEO CONTAINER IMAGE PUSH

Usage:

```

openstack tripleo container image push [-h] [--local]
                                     [--registry-url <registry url>]
                                     [--append-tag APPEND_TAG]
                                     [--username <username>]
                                     [--password <password>]
                                     [--dry-run] [--multi-arch]
                                     [--cleanup]
                                     <image to push>

```

Push specified image to registry.

Table 82.11. Positional Arguments

Value	Summary
None	None

Table 82.12. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--local</code>	Use this flag if the container image is already on the current system and does not need to be pulled from a remote registry.
<code>--registry-url <registry url></code>	Url of the destination registry in the form <fqdn>: <port>.
<code>--append-tag APPEND_TAG</code>	Tag to append to the existing tag when pushing the container.
<code>--username <username></code>	Username for the destination image registry.

Value	Summary
--password <password>	Password for the destination image registry.
--dry-run	Perform a dry run upload. the upload action is not performed, but the authentication process is attempted.
--multi-arch	Enable multi arch support for the upload.
--cleanup	Remove local copy of the image after uploading

82.7. TRIPLEO CONTAINER IMAGE SHOW

Usage:

```

openstack tripleo container image show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--username <username>]
                                     [--password <password>]
                                     <image to inspect>

```

Show image selected from the registry.

Table 82.13. Positional Arguments

Value	Summary
None	None

Table 82.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--username <username>	Username for image registry.
--password <password>	Password for image registry.

Table 82.15. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to json
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 82.16. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 82.17. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 82.18. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

82.8. TRIPLEO DEPLOY

Usage:

```

openstack tripleo deploy [--templates [TEMPLATES]] [--standalone]
                        [--upgrade] [-y] [--stack STACK]
                        [--output-dir OUTPUT_DIR] [--output-only]
                        [--standalone-role STANDALONE_ROLE]
                        [-t <TIMEOUT>] [-e <HEAT ENVIRONMENT FILE>]
                        [--roles-file ROLES_FILE]
                        [--networks-file NETWORKS_FILE]
                        [--plan-environment-file PLAN_ENVIRONMENT_FILE]
                        [--heat-api-port <HEAT_API_PORT>]
                        [--heat-user <HEAT_USER>]

```

```

[--deployment-user DEPLOYMENT_USER]
[--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER]
[--heat-container-image <HEAT_CONTAINER_IMAGE>]
[--heat-native [HEAT_NATIVE]]
[--local-ip <LOCAL_IP>]
[--control-virtual-ip <CONTROL_VIRTUAL_IP>]
[--public-virtual-ip <PUBLIC_VIRTUAL_IP>]
[--local-domain <LOCAL_DOMAIN>] [--cleanup]
[--hieradata-override [HIERADATA_OVERRIDE]]
[--keep-running] [--inflight-validations]
[--force-stack-update | --force-stack-create]

```

Deploy containerized Undercloud

Table 82.19. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--standalone	Run deployment as a standalone deployment with no undercloud.
--upgrade	Upgrade an existing deployment.
-y, --yes	Skip yes/no prompt (assume yes).
--stack STACK	Name for the ephemeral (one-time create and forget) heat stack.
--output-dir OUTPUT_DIR	Directory to output state, processed heat templates, ansible deployment files.
--output-only	Do not execute the ansible playbooks. by default the playbooks are saved to the output-dir and then executed.
--standalone-role STANDALONE_ROLE	The role to use for standalone configuration when populating the deployment actions.
-t <TIMEOUT>, --timeout <TIMEOUT>	Deployment timeout in minutes.
-e <HEAT ENVIRONMENT FILE>, --environment-file <HEAT ENVIRONMENT FILE>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
--roles-file ROLES_FILE, -r ROLES_FILE	Roles file, overrides the default roles_data_undercloud.yaml in the t-h-t templates directory used for deployment. May be an absolute path or the path relative to the templates dir.

Value	Summary
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Roles file, overrides the default <code>/dev/null</code> in the <code>t-h-t</code> templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--heat-api-port <HEAT_API_PORT></code>	Heat api port to use for the installers private heat API instance. Optional. Default: 8006.)
<code>--heat-user <HEAT_USER></code>	User to execute the non-privileged heat-all process. Defaults to heat.
<code>--deployment-user DEPLOYMENT_USER</code>	User who executes the tripleo deploy command. defaults to <code>\$SUDO_USER</code> . If <code>\$SUDO_USER</code> is unset it defaults to stack.
<code>--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. If not specified the python version of the openstackclient will be used. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>--heat-container-image <HEAT_CONTAINER_IMAGE></code>	The container image to use when launching the heat-all process. Defaults to: <code>tripleomaster/centos-binary-heat-all:current-tripleo</code>
<code>--heat-native [HEAT_NATIVE]</code>	Execute the heat-all process natively on this host. This option requires that the heat-all binaries be installed locally on this machine. This option is enabled by default which means heat-all is executed on the host OS directly.
<code>--local-ip <LOCAL_IP></code>	Local ip/cidr for undercloud traffic. required.
<code>--control-virtual-ip <CONTROL_VIRTUAL_IP></code>	Control plane vip. this allows the undercloud installer to configure a custom VIP on the control plane.
<code>--public-virtual-ip <PUBLIC_VIRTUAL_IP></code>	Public nw vip. this allows the undercloud installer to configure a custom VIP on the public (external) NW.
<code>--local-domain <LOCAL_DOMAIN></code>	Local domain for standalone cloud and its api endpoints

Value	Summary
<code>--cleanup</code>	Cleanup temporary files. using this flag will remove the temporary files used during deployment in after the command is run.
<code>--hieradata-override [HIERADATA_OVERRIDE]</code>	Path to hieradata override file. when it points to a heat env file, it is passed in t-h-t via
<code>--environment-file</code> . When the file contains legacy	Instack data, it is wrapped with <role>extraconfig and also passed in for t-h-t as a temp file created in
<code>--output-dir</code> . Note, instack hiera data may be not	T-h-t compatible and will highly likely require a manual revision.
<code>--keep-running</code>	Keep the ephemeral heat running after the stack operation is complete. This is for debugging purposes only. The ephemeral Heat can be used by openstackclient with: OS_AUTH_TYPE=none OS_ENDPOINT=http://127.0.0.1:8006/v1/admin openstack stack list where 8006 is the port specified by <code>--heat-api-port</code> .
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--force-stack-update</code>	Do a virtual update of the ephemeral heat stack (it cannot take real updates). New or failed deployments always have the stack_action=CREATE. This option enforces stack_action=UPDATE.
<code>--force-stack-create</code>	Do a virtual create of the ephemeral heat stack. new or failed deployments always have the stack_action=CREATE. This option enforces stack_action=CREATE.

82.9. TRIPLEO UPGRADE

Usage:

```
openstack tripleo upgrade [--templates [TEMPLATES]] [--standalone]
                          [--upgrade] [-y] [--stack STACK]
                          [--output-dir OUTPUT_DIR] [--output-only]
                          [--standalone-role STANDALONE_ROLE]
                          [-t <TIMEOUT>] [-e <HEAT ENVIRONMENT FILE>]
                          [--roles-file ROLES_FILE]
                          [--networks-file NETWORKS_FILE]
                          [--plan-environment-file PLAN_ENVIRONMENT_FILE]
                          [--heat-api-port <HEAT_API_PORT>]
```

```

[--heat-user <HEAT_USER>]
[--deployment-user DEPLOYMENT_USER]
[--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER]
[--heat-container-image <HEAT_CONTAINER_IMAGE>]
[--heat-native [HEAT_NATIVE]]
[--local-ip <LOCAL_IP>]
[--control-virtual-ip <CONTROL_VIRTUAL_IP>]
[--public-virtual-ip <PUBLIC_VIRTUAL_IP>]
[--local-domain <LOCAL_DOMAIN>] [--cleanup]
[--hieradata-override [HIERADATA_OVERRIDE]]
[--keep-running] [--inflight-validations]
[--force-stack-update | --force-stack-create]

```

Upgrade TripleO

Table 82.20. Optional Arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--standalone	Run deployment as a standalone deployment with no undercloud.
--upgrade	Upgrade an existing deployment.
-y, --yes	Skip yes/no prompt (assume yes).
--stack STACK	Name for the ephemeral (one-time create and forget) heat stack.
--output-dir OUTPUT_DIR	Directory to output state, processed heat templates, ansible deployment files.
--output-only	Do not execute the ansible playbooks. by default the playbooks are saved to the output-dir and then executed.
--standalone-role STANDALONE_ROLE	The role to use for standalone configuration when populating the deployment actions.
-t <TIMEOUT>, --timeout <TIMEOUT>	Deployment timeout in minutes.
-e <HEAT ENVIRONMENT FILE>, --environment-file <HEAT ENVIRONMENT FILE>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)

Value	Summary
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data_undercloud.yaml</code> in the <code>t-h-t</code> templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Roles file, overrides the default <code>/dev/null</code> in the <code>t-h-t</code> templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--heat-api-port <HEAT_API_PORT></code>	Heat api port to use for the installers private heat API instance. Optional. Default: 8006.)
<code>--heat-user <HEAT_USER></code>	User to execute the non-privileged heat-all process. Defaults to heat.
<code>--deployment-user DEPLOYMENT_USER</code>	User who executes the tripleo deploy command. defaults to <code>\$SUDO_USER</code> . If <code>\$SUDO_USER</code> is unset it defaults to stack.
<code>--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. If not specified the python version of the openstackclient will be used. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>--heat-container-image <HEAT_CONTAINER_IMAGE></code>	The container image to use when launching the heat-all process. Defaults to: <code>tripleomaster/centos-binary-heat-all:current-tripleo</code>
<code>--heat-native [HEAT_NATIVE]</code>	Execute the heat-all process natively on this host. This option requires that the heat-all binaries be installed locally on this machine. This option is enabled by default which means heat-all is executed on the host OS directly.
<code>--local-ip <LOCAL_IP></code>	Local ip/cidr for undercloud traffic. required.
<code>--control-virtual-ip <CONTROL_VIRTUAL_IP></code>	Control plane vip. this allows the undercloud installer to configure a custom VIP on the control plane.
<code>--public-virtual-ip <PUBLIC_VIRTUAL_IP></code>	Public nw vip. this allows the undercloud installer to configure a custom VIP on the public (external) NW.

Value	Summary
--local-domain <LOCAL_DOMAIN>	Local domain for standalone cloud and its api endpoints
--cleanup	Cleanup temporary files. using this flag will remove the temporary files used during deployment in after the command is run.
--hieradata-override [HIERADATA_OVERRIDE]	Path to hieradata override file. when it points to a heat env file, it is passed in t-h-t via
--environment-file. When the file contains legacy	Instack data, it is wrapped with <role>extraconfig and also passed in for t-h-t as a temp file created in
--output-dir. Note, instack hiera data may be not	T-h-t compatible and will highly likely require a manual revision.
--keep-running	Keep the ephemeral heat running after the stack operation is complete. This is for debugging purposes only. The ephemeral Heat can be used by openstackclient with: OS_AUTH_TYPE=none OS_ENDPOINT=http://127.0.0.1:8006/v1/admin openstack stack list where 8006 is the port specified by --heat- api-port.
--inflight-validations	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
--force-stack-update	Do a virtual update of the ephemeral heat stack (it cannot take real updates). New or failed deployments always have the stack_action=CREATE. This option enforces stack_action=UPDATE.
--force-stack-create	Do a virtual create of the ephemeral heat stack. new or failed deployments always have the stack_action=CREATE. This option enforces stack_action=CREATE.

82.10. TRIPLEO VALIDATOR GROUP INFO

Usage:

```
openstack tripleo validator group info [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
```

```
[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
```

Display Information about Validation Groups

Table 82.21. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 82.22. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 82.23. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 82.24. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 82.25. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

82.11. TRIPLEO VALIDATOR LIST

Usage:

```

openstack tripleo validator list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--group <group>[,<group>,...]]

```

List the available validations

Table 82.26. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--group <group>[,<group>,...]	List specific group validations, if more than one group is required separate the group names with commas: --group pre-upgrade,prep

Table 82.27. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 82.28. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 82.29. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 82.30. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

82.12. TRIPLEO VALIDATOR RUN

Usage:

```
openstack tripleo validator run [--plan PLAN] [--workers N]
                                [--extra-vars EXTRA_VARS | --extra-vars-file EXTRA_VARS_FILE]
                                (--validation <validation_id>[,<validation_id>,...] | --group <group>[,
                                <group>,...])
```

Run the available validations

Table 82.31. Optional Arguments

Value	Summary
<code>--plan PLAN, --stack PLAN</code>	Execute the validations using a custom plan name (default: overcloud)
<code>--workers N, -w N</code>	The maximum number of threads that can be used to execute the given validations (default: 1)
<code>--extra-vars EXTRA_VARS</code>	Add a dictionary as extra variable to a validation:

Value	Summary
<code>--extra-vars {"min_undercloud_ram_gb": 24}</code> (default: {})	{}
<code>--extra-vars-file EXTRA_VARS_FILE</code>	Add a json/yaml file containing extra variable to a validation: <code>--extra-vars-file /home/stack/vars.[json</code>
yaml] If using Mistral, only a valid JSON file will be supported. (default:)	<code>--validation <validation_id>[,<validation_id>,...]</code>
Run specific validations, if more than one validation is required separate the names with commas:	<code>--validation check-ftype,512e</code>
<code>--validation 512e</code>	(default: [])
<code>--group <group>[,<group>,...]</code>	Run specific group validations, if more than one group is required separate the group names with commas:
<code>--group pre-upgrade,prep</code>	<code>--group openshift-on-</code>

82.13. TRIPLEO VALIDATOR SHOW PARAMETER

Usage:

```

openstack tripleo validator show parameter [-h]
      [--validation <validation_id>[,<validation_id>,...]]
      | --group
      <group_id>[,<group_id>,...]]
      [--download [json|yaml]
      /tmp/myvars] [-f <format>]

```

Display Validations Parameters

Table 82.32. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--validation <validation_id>[,<validation_id>,...]</code>	List specific validations, if more than one validation is required separate the names with commas:
<code>--validation check-ftype,512e</code>	<code>--validation 512e</code>
(default: [])	<code>--group <group_id>[,<group_id>,...]</code>

Value	Summary
List specific group validations, if more than one group is required separate the group names with commas: pre-upgrade,prep	openshift-on-openstack (default: [])
--download [json	yaml] /tmp/myvars
Create a json or a yaml file containing all the variables available for the validations: [yaml	json] /tmp/myvars (default: [])
-f <format>, --format <format>	Print representation of the validation. the choices of the output format is json,yaml. (default: json)

82.14. TRIPLEO VALIDATOR SHOW

Usage:

```

openstack tripleo validator show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <validation>

```

Display detailed information about a Validation

Table 82.33. Positional Arguments

Value	Summary
None	None

Table 82.34. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 82.35. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 82.36. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 82.37. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 82.38. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 83. TRUST

This chapter describes the commands under the **trust** command.

83.1. TRUST CREATE

Usage:

```
openstack trust create [-h] [-f {json,shell,table,value,yaml}]
                      [-c COLUMN] [--noindent] [--prefix PREFIX]
                      [--max-width <integer>] [--fit-width]
                      [--print-empty] --project <project> --role
                      <role> [--impersonate]
                      [--expiration <expiration>]
                      [--project-domain <project-domain>]
                      [--trustor-domain <trustor-domain>]
                      [--trustee-domain <trustee-domain>]
                      <trustor-user> <trustee-user>
```

Create new trust

Table 83.1. Positional Arguments

Value	Summary
None	None

Table 83.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Project being delegated (name or id) (required)
--role <role>	Roles to authorize (name or id) (repeat option to set multiple values, required)
--impersonate	Tokens generated from the trust will represent <trustor> (defaults to False)
--expiration <expiration>	Sets an expiration date for the trust (format of yyyy-mm-ddTHH:MM:SS)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--trustor-domain <trustor-domain>	Domain that contains <trustor> (name or id)

Value	Summary
<code>--trustee-domain <trustee-domain></code>	Domain that contains <trustee> (name or id)

Table 83.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 83.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 83.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 83.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

83.2. TRUST DELETE

Usage:

```
openstack trust delete [-h] <trust> [<trust> ...]
```

Delete trust(s)

Table 83.7. Positional Arguments

Value	Summary
None	None

Table 83.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

83.3. TRUST LIST

Usage:

```
openstack trust list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
```

List trusts

Table 83.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 83.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 83.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 83.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 83.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

83.4. TRUST SHOW

Usage:

```

openstack trust show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <trust>

```

Display trust details

Table 83.14. Positional Arguments

Value	Summary
None	None

Table 83.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 83.16. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 83.17. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 83.18. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 83.19. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 84. TSIGKEY

This chapter describes the commands under the **tsigkey** command.

84.1. TSIGKEY CREATE

Usage:

```
openstack tsigkey create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] --name NAME --algorithm
                        ALGORITHM --secret SECRET --scope SCOPE
                        --resource-id RESOURCE_ID [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
```

Create new tsigkey

Table 84.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tsigkey name
--algorithm ALGORITHM	Tsigkey algorithm
--secret SECRET	Tsigkey secret
--scope SCOPE	Tsigkey scope
--resource-id RESOURCE_ID	Tsigkey resource_id
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 84.2. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 84.3. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 84.4. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 84.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

84.2. TSIGKEY DELETE

Usage:

```
openstack tsigkey delete [-h] [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        id
```

Delete tsigkey

Table 84.6. Positional Arguments

Value	Summary
None	None

Table 84.7. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

84.3. TSIGKEY LIST

Usage:

```

openstack tsigkey list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--name NAME]
                        [--algorithm ALGORITHM] [--scope SCOPE]
                        [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]

```

List tsigkeys

Table 84.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tsigkey name
--algorithm ALGORITHM	Tsigkey algorithm
--scope SCOPE	Tsigkey scope
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 84.9. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 84.10. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 84.11. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 84.12. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

84.4. TSIGKEY SET

Usage:

```
openstack tsigkey set [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
```

```
[--print-empty] [--name NAME]
[--algorithm ALGORITHM] [--secret SECRET]
[--scope SCOPE] [--all-projects] [--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
id
```

Set tsigkey properties

Table 84.13. Positional Arguments

Value	Summary
None	None

Table 84.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tsigkey name
--algorithm ALGORITHM	Tsigkey algorithm
--secret SECRET	Tsigkey secret
--scope SCOPE	Tsigkey scope
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 84.15. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 84.16. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 84.17. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 84.18. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

84.5. TSIGKEY SHOW

Usage:

```
openstack tsigkey show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        id
```

Show tsigkey details

Table 84.19. Positional Arguments

Value	Summary
None	None

Table 84.20. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 84.21. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 84.22. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 84.23. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 84.24. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

CHAPTER 85. UNDERCLOUD

This chapter describes the commands under the **undercloud** command.

85.1. UNDERCLOUD BACKUP

Usage:

```
openstack undercloud backup [--add-path ADD_PATH]
                             [--exclude-path EXCLUDE_PATH]
```

Backup the undercloud

Table 85.1. Optional Arguments

Value	Summary
--add-path ADD_PATH	Add additional files to backup. defaults to: /home/stack/ i.e. --add-path /this/is/a/folder/ --add-path /this/is/a/textfile.txt
--exclude-path EXCLUDE_PATH	Exclude path when performing the undercloud backup, this option can be specified multiple times. Defaults to: none i.e. --exclude-path /this/is/a/folder/
--exclude-path /this/is/a/textfile.txt	None

85.2. UNDERCLOUD INSTALL

Usage:

```
openstack undercloud install [--force-stack-update] [--no-validations]
                             [--inflight-validations] [--dry-run] [-y]
```

Install and setup the undercloud

Table 85.2. Optional Arguments

Value	Summary
--force-stack-update	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the stack_action=CREATE. This option enforces stack_action=UPDATE.
--no-validations	Do not perform undercloud configuration validations

Value	Summary
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Print the install command instead of running it
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).

85.3. UNDERCLOUD MINION INSTALL

Usage:

```
openstack undercloud minion install [--force-stack-update]
                                   [--no-validations] [--dry-run] [-y]
```

Install and setup the undercloud minion

Table 85.3. Optional Arguments

Value	Summary
<code>--force-stack-update</code>	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the stack_action=CREATE. This option enforces stack_action=UPDATE.
<code>--no-validations</code>	Do not perform minion configuration validations
<code>--dry-run</code>	Print the install command instead of running it
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).

85.4. UNDERCLOUD MINION UPGRADE

Usage:

```
openstack undercloud minion upgrade [--force-stack-update]
                                   [--no-validations] [--dry-run] [-y]
```

Upgrade undercloud minion

Table 85.4. Optional Arguments

Value	Summary
--force-stack-update	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the stack_action=CREATE. This option enforces stack_action=UPDATE.
--no-validations	Do not perform minion configuration validations
--dry-run	Print the install command instead of running it
-y, --yes	Skip yes/no prompt (assume yes).

85.5. UNDERCLOUD UPGRADE

Usage:

```
openstack undercloud upgrade [--force-stack-update] [--no-validations]
                             [--inflight-validations] [--dry-run] [-y]
```

Upgrade undercloud

Table 85.5. Optional Arguments

Value	Summary
--force-stack-update	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the stack_action=CREATE. This option enforces stack_action=UPDATE.
--no-validations	Do not perform undercloud configuration validations
--inflight-validations	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
--dry-run	Print the install command instead of running it
-y, --yes	Skip yes/no prompt (assume yes).

CHAPTER 86. USAGE

This chapter describes the commands under the **usage** command.

86.1. USAGE LIST

Usage:

```
openstack usage list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--start <start>] [--end <end>]
```

List resource usage per project

Table 86.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--start <start>	Usage range start date, ex 2012-01-20 (default: 4 weeks ago)
--end <end>	Usage range end date, ex 2012-01-20 (default: tomorrow)

Table 86.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.3. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 86.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.5. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.2. USAGE SHOW

Usage:

```

openstack usage show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--project <project>]
                    [--start <start>] [--end <end>]

```

Show resource usage for a single project

Table 86.6. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Name or id of project to show usage for
--start <start>	Usage range start date, ex 2012-01-20 (default: 4 weeks ago)
--end <end>	Usage range end date, ex 2012-01-20 (default: tomorrow)

Table 86.7. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.8. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.9. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.10. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 87. USER

This chapter describes the commands under the **user** command.

87.1. USER CREATE

Usage:

```
openstack user create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    [--project <project>]
                    [--project-domain <project-domain>]
                    [--password <password>] [--password-prompt]
                    [--email <email-address>]
                    [--description <description>]
                    [--enable | --disable] [--or-show]
                    <name>
```

Create new user

Table 87.1. Positional Arguments

Value	Summary
None	None

Table 87.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Default domain (name or id)
--project <project>	Default project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--password <password>	Set user password
--password-prompt	Prompt interactively for password
--email <email-address>	Set user email address
--description <description>	User description

Value	Summary
<code>--enable</code>	Enable user (default)
<code>--disable</code>	Disable user
<code>--or-show</code>	Return existing user

Table 87.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 87.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 87.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 87.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

87.2. USER DELETE

Usage:

```
openstack user delete [-h] [--domain <domain>] <user> [<user> ...]
```

Delete user(s)

Table 87.7. Positional Arguments

Value	Summary
None	None

Table 87.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <user> (name or id)

87.3. USER LIST

Usage:

```
openstack user list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--domain <domain>]
                    [--group <group> | --project <project>] [--long]
```

List users

Table 87.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Filter users by <domain> (name or id)
--group <group>	Filter users by <group> membership (name or id)
--project <project>	Filter users by <project> (name or id)
--long	List additional fields in output

Table 87.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 87.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 87.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 87.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

87.4. USER PASSWORD SET

Usage:

```
openstack user password set [-h] [--password <new-password>]
                             [--original-password <original-password>]
```

Change current user password

Table 87.14. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--password <new-password>	New user password
--original-password <original-password>	Original user password

87.5. USER SET

Usage:

```
openstack user set [-h] [--name <name>] [--domain <domain>]
                  [--project <project>]
                  [--project-domain <project-domain>]
                  [--password <password>] [--password-prompt]
                  [--email <email-address>]
                  [--description <description>] [--enable | --disable]
                  <user>
```

Set user properties

Table 87.15. Positional Arguments

Value	Summary
None	None

Table 87.16. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set user name
--domain <domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--project <project>	Set default project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--password <password>	Set user password
--password-prompt	Prompt interactively for password

Value	Summary
--email <email-address>	Set user email address
--description <description>	Set user description
--enable	Enable user (default)
--disable	Disable user

87.6. USER SHOW

Usage:

```

openstack user show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    <user>

```

Display user details

Table 87.17. Positional Arguments

Value	Summary
None	None

Table 87.18. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <user> (name or id)

Table 87.19. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 87.20. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 87.21. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 87.22. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 88. VERSIONS

This chapter describes the commands under the **versions** command.

88.1. VERSIONS SHOW

Usage:

```
openstack versions show [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--all-interfaces | --interface <interface>]
                        [--region-name <region_name>]
                        [--service <region_name>]
                        [--status <region_name>]
```

Show available versions of services

Table 88.1. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-interfaces	Show values for all interfaces
--interface <interface>	Show versions for a specific interface.
--region-name <region_name>	Show versions for a specific region.
--service <region_name>	Show versions for a specific service.
--status <region_name>	Show versions for a specific status. [valid values are SUPPORTED, CURRENT, DEPRECATED, EXPERIMENTAL]

Table 88.2. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 88.3. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 88.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.5. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 89. VOLUME

This chapter describes the commands under the **volume** command.

89.1. VOLUME BACKUP CREATE

Usage:

```
openstack volume backup create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--name <name>]
                               [--description <description>]
                               [--container <container>]
                               [--snapshot <snapshot>] [--force]
                               [--incremental]
                               <volume>
```

Create new volume backup

Table 89.1. Positional Arguments

Value	Summary
None	None

Table 89.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the backup
--description <description>	Description of the backup
--container <container>	Optional backup container name
--snapshot <snapshot>	Snapshot to backup (name or id)
--force	Allow to back up an in-use volume
--incremental	Perform an incremental backup

Table 89.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.2. VOLUME BACKUP DELETE

Usage:

```
openstack volume backup delete [-h] [--force] <backup> [<backup> ...]
```

Delete volume backup(s)

Table 89.7. Positional Arguments

Value	Summary
None	None

Table 89.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Allow delete in state other than error or available

89.3. VOLUME BACKUP LIST

Usage:

```

openstack volume backup list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
                             [--name <name>] [--status <status>]
                             [--volume <volume>]
                             [--marker <volume-backup>]
                             [--limit <num-backups>] [--all-projects]

```

List volume backups

Table 89.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--name <name>	Filters results by the backup name
--status <status>	Filters results by the backup status (<i>creating, available, deleting, error, restoring</i> or <i>error_restoring</i>)
--volume <volume>	Filters results by the volume which they backup (name or ID)
--marker <volume-backup>	The last backup of the previous page (name or id)
--limit <num-backups>	Maximum number of backups to display
--all-projects	Include all projects (admin only)

Table 89.10. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 89.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.4. VOLUME BACKUP RESTORE

Usage:

```
openstack volume backup restore [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <backup> <volume>
```

Restore volume backup

Table 89.14. Positional Arguments

Value	Summary
None	None

Table 89.15. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 89.16. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.17. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.18. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.19. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

89.5. VOLUME BACKUP SET

Usage:

```
openstack volume backup set [-h] [--name <name>]
                             [--description <description>]
                             [--state <state>]
                             <backup>
```

Set volume backup properties

Table 89.20. Positional Arguments

Value	Summary
None	None

Table 89.21. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	New backup name
<code>--description <description></code>	New backup description
<code>--state <state></code>	New backup state ("available" or "error") (admin only) (This option simply changes the state of the backup in the database with no regard to actual status, exercise caution when using)

89.6. VOLUME BACKUP SHOW

Usage:

```
openstack volume backup show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <backup>
```

Display volume backup details

Table 89.22. Positional Arguments

Value	Summary
None	None

Table 89.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 89.24. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.25. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.26. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.27. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.7. VOLUME CREATE

Usage:

```
openstack volume create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--size <size>]
                        [--type <volume-type>]
                        [--image <image> | --snapshot <snapshot> | --source <volume>]
                        [--description <description>]
                        [--availability-zone <availability-zone>]
                        [--consistency-group consistency-group>]
                        [--property <key=value>] [--hint <key=value>]
                        [--bootable | --non-bootable]
                        [--read-only | --read-write]
                        <name>
```

Create new volume

Table 89.28. Positional Arguments

Value	Summary
None	None

Table 89.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--size <size>	Volume size in gb (required unless --snapshot or
--source is specified) --type <volume-type>	Set the type of volume
--image <image>	Use <image> as source of volume (name or id)
--snapshot <snapshot>	Use <snapshot> as source of volume (name or id)
--source <volume>	Volume to clone (name or id)
--description <description>	Volume description
--availability-zone <availability-zone>	Create volume in <availability-zone>
--consistency-group consistency-group>	Consistency group where the new volume belongs to

Value	Summary
<code>--property <key=value></code>	Set a property to this volume (repeat option to set multiple properties)
<code>--hint <key=value></code>	Arbitrary scheduler hint key-value pairs to help boot an instance (repeat option to set multiple hints)
<code>--bootable</code>	Mark volume as bootable
<code>--non-bootable</code>	Mark volume as non-bootable (default)
<code>--read-only</code>	Set volume to read-only access mode
<code>--read-write</code>	Set volume to read-write access mode (default)

Table 89.30. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.31. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.32. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.33. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.8. VOLUME DELETE

Usage:

```
openstack volume delete [-h] [--force | --purge]
                        <volume> [<volume> ...]
```

Delete volume(s)

Table 89.34. Positional Arguments

Value	Summary
None	None

Table 89.35. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Attempt forced removal of volume(s), regardless of state (defaults to False)
--purge	Remove any snapshots along with volume(s) (defaults to false)

89.9. VOLUME HOST SET

Usage:

```
openstack volume host set [-h] [--disable | --enable] <host-name>
```

Set volume host properties

Table 89.36. Positional Arguments

Value	Summary
None	None

Table 89.37. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--disable	Freeze and disable the specified volume host
--enable	Thaw and enable the specified volume host

89.10. VOLUME LIST

Usage:

```

openstack volume list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--project <project>]
                        [--project-domain <project-domain>]
                        [--user <user>] [--user-domain <user-domain>]
                        [--name <name>] [--status <status>]
                        [--all-projects] [--long] [--marker <volume>]
                        [--limit <num-volumes>]

```

List volumes

Table 89.38. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Filter results by project (name or id) (admin only)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--user <user>	Filter results by user (name or id) (admin only)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Value	Summary
--name <name>	Filter results by volume name
--status <status>	Filter results by status
--all-projects	Include all projects (admin only)
--long	List additional fields in output
--marker <volume>	The last volume id of the previous page
--limit <num-volumes>	Maximum number of volumes to display

Table 89.39. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.40. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.41. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.42. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.11. VOLUME MIGRATE

Usage:

```
openstack volume migrate [-h] --host <host> [--force-host-copy]
                        [--lock-volume]
                        <volume>
```

Migrate volume to a new host

Table 89.43. Positional Arguments

Value	Summary
None	None

Table 89.44. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--host <host></code>	Destination host (takes the form: <code>host@backend-name#pool</code>)
<code>--force-host-copy</code>	Enable generic host-based force-migration, which bypasses driver optimizations
<code>--lock-volume</code>	If specified, the volume state will be locked and will not allow a migration to be aborted (possibly by another operation)

89.12. VOLUME QOS ASSOCIATE

Usage:

```
openstack volume qos associate [-h] <qos-spec> <volume-type>
```

Associate a QoS specification to a volume type

Table 89.45. Positional Arguments

Value	Summary
None	None

Table 89.46. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

89.13. VOLUME QOS CREATE

Usage:

```
openstack volume qos create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--consumer <consumer>]
                             [--property <key=value>]
                             <name>
```

Create new QoS specification

Table 89.47. Positional Arguments

Value	Summary
None	None

Table 89.48. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--consumer <consumer>	Consumer of the qos. valid consumers: back-end, both, front-end (defaults to <i>both</i>)
--property <key=value>	Set a qos specification property (repeat option to set multiple properties)

Table 89.49. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.50. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.51. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.52. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.14. VOLUME QOS DELETE

Usage:

```
openstack volume qos delete [-h] [--force] <qos-spec> [<qos-spec> ...]
```

Delete QoS specification

Table 89.53. Positional Arguments

Value	Summary
None	None

Table 89.54. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Allow to delete in-use qos specification(s)

89.15. VOLUME QOS DISASSOCIATE

Usage:

```
openstack volume qos disassociate [-h]
                                [--volume-type <volume-type> | --all]
                                <qos-spec>
```

Disassociate a QoS specification from a volume type

Table 89.55. Positional Arguments

Value	Summary
None	None

Table 89.56. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--volume-type <volume-type>	Volume type to disassociate the qos from (name or id)
--all	Disassociate the qos from every volume type

89.16. VOLUME QOS LIST

Usage:

```
openstack volume qos list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
```

```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]

```

List QoS specifications

Table 89.57. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 89.58. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.59. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.60. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.61. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

89.17. VOLUME QOS SET

Usage:

```
openstack volume qos set [-h] [--property <key=value>] <qos-spec>
```

Set QoS specification properties

Table 89.62. Positional Arguments

Value	Summary
None	None

Table 89.63. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key=value>	Property to add or modify for this qos specification (repeat option to set multiple properties)

89.18. VOLUME QOS SHOW

Usage:

```
openstack volume qos show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <qos-spec>
```

Display QoS specification details

Table 89.64. Positional Arguments

Value	Summary
None	None

Table 89.65. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 89.66. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.67. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.68. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.69. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.19. VOLUME QOS UNSET

Usage:

```
openstack volume qos unset [-h] [--property <key>] <qos-spec>
```

Unset QoS specification properties

Table 89.70. Positional Arguments

Value	Summary
None	None

Table 89.71. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from the qos specification. (repeat option to unset multiple properties)

89.20. VOLUME SERVICE LIST

Usage:

```
openstack volume service list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--host <host>] [--service <service>]
                               [--long]
```

List service command

Table 89.72. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--host <host>	List services on specified host (name only)
--service <service>	List only specified service (name only)
--long	List additional fields in output

Table 89.73. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.74. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.75. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.76. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.21. VOLUME SERVICE SET

Usage:

```
openstack volume service set [-h] [--enable | --disable]
                             [--disable-reason <reason>]
                             <host> <service>
```

Set volume service properties

Table 89.77. Positional Arguments

Value	Summary
None	None

Table 89.78. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--enable	Enable volume service
--disable	Disable volume service
--disable-reason <reason>	Reason for disabling the service (should be used with
--disable option)	None

89.22. VOLUME SET

Usage:

```
openstack volume set [-h] [--name <name>] [--size <size>]
                    [--description <description>] [--no-property]
                    [--property <key=value>]
                    [--image-property <key=value>] [--state <state>]
                    [--attached | --detached] [--type <volume-type>]
                    [--retype-policy <retype-policy>]
                    [--bootable | --non-bootable]
                    [--read-only | --read-write]
                    <volume>
```

Set volume properties

Table 89.79. Positional Arguments

Value	Summary
None	None

Table 89.80. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New volume name

Value	Summary
--size <size>	Extend volume size in gb
--description <description>	New volume description
--no-property	Remove all properties from <volume> (specify both
--no-property and --property to remove the current	Properties before setting new properties.)
--property <key=value>	Set a property on this volume (repeat option to set multiple properties)
--image-property <key=value>	Set an image property on this volume (repeat option to set multiple image properties)
--state <state>	New volume state ("available", "error", "creating", "deleting", "in-use", "attaching", "detaching", "error_deleting" or "maintenance") (admin only) (This option simply changes the state of the volume in the database with no regard to actual status, exercise caution when using)
--attached	Set volume attachment status to "attached" (admin only) (This option simply changes the state of the volume in the database with no regard to actual status, exercise caution when using)
--detached	Set volume attachment status to "detached" (admin only) (This option simply changes the state of the volume in the database with no regard to actual status, exercise caution when using)
--type <volume-type>	New volume type (name or id)
--retype-policy <retype-policy>	Migration policy while re-typing volume ("never" or "on-demand", default is "never") (available only when
--type option is specified) --bootable	Mark volume as bootable
--non-bootable	Mark volume as non-bootable
--read-only	Set volume to read-only access mode
--read-write	Set volume to read-write access mode

89.23. VOLUME SHOW

Usage:

```

openstack volume show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <volume>

```

Display volume details

Table 89.81. Positional Arguments

Value	Summary
None	None

Table 89.82. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 89.83. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.84. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.85. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.86. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.24. VOLUME SNAPSHOT CREATE

Usage:

```

openstack volume snapshot create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--volume <volume>]
                                [--description <description>]
                                [--force] [--property <key=value>]
                                [--remote-source <key=value>]
                                <snapshot-name>

```

Create new volume snapshot

Table 89.87. Positional Arguments

Value	Summary
None	None

Table 89.88. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--volume <volume></code>	Volume to snapshot (name or id) (default is <snapshot- name>)
<code>--description <description></code>	Description of the snapshot

Value	Summary
<code>--force</code>	Create a snapshot attached to an instance. default is False
<code>--property <key=value></code>	Set a property to this snapshot (repeat option to set multiple properties)
<code>--remote-source <key=value></code>	The attribute(s) of the existing remote volume snapshot (admin required) (repeat option to specify multiple attributes) e.g.: <code>--remote-source source-name=test_name --remote-source source-id=test_id</code>

Table 89.89. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.90. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.91. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.92. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

89.25. VOLUME SNAPSHOT DELETE

Usage:

```
openstack volume snapshot delete [-h] [--force]
                                <snapshot> [<snapshot> ...]
```

Delete volume snapshot(s)

Table 89.93. Positional Arguments

Value	Summary
None	None

Table 89.94. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Attempt forced removal of snapshot(s), regardless of state (defaults to False)

89.26. VOLUME SNAPSHOT LIST

Usage:

```
openstack volume snapshot list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--all-projects] [--project <project>]
                               [--project-domain <project-domain>]
                               [--long] [--marker <volume-snapshot>]
                               [--limit <num-snapshots>]
                               [--name <name>] [--status <status>]
                               [--volume <volume>]
```

List volume snapshots

Table 89.95. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Include all projects (admin only)
--project <project>	Filter results by project (name or id) (admin only)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--long	List additional fields in output
--marker <volume-snapshot>	The last snapshot id of the previous page
--limit <num-snapshots>	Maximum number of snapshots to display
--name <name>	Filters results by a name.
--status <status>	Filters results by a status. (<i>available</i> , <i>error</i> , <i>creating</i> , <i>deleting</i> or <i>error-deleting</i>)
--volume <volume>	Filters results by a volume (name or id).

Table 89.96. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.97. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.98. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.99. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.27. VOLUME SNAPSHOT SET

Usage:

```

openstack volume snapshot set [-h] [--name <name>]
                                [--description <description>]
                                [--no-property] [--property <key=value>]
                                [--state <state>]
                                <snapshot>

```

Set volume snapshot properties

Table 89.100. Positional Arguments

Value	Summary
None	None

Table 89.101. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New snapshot name
--description <description>	New snapshot description
--no-property	Remove all properties from <snapshot> (specify both

Value	Summary
--no-property and --property to remove the current	Properties before setting new properties.)
--property <key=value>	Property to add/change for this snapshot (repeat option to set multiple properties)
--state <state>	New snapshot state. ("available", "error", "creating", "deleting", or "error_deleting") (admin only) (This option simply changes the state of the snapshot in the database with no regard to actual status, exercise caution when using)

89.28. VOLUME SNAPSHOT SHOW

Usage:

```
openstack volume snapshot show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <snapshot>
```

Display volume snapshot details

Table 89.102. Positional Arguments

Value	Summary
None	None

Table 89.103. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 89.104. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.105. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.106. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.107. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.29. VOLUME SNAPSHOT UNSET

Usage:

```
openstack volume snapshot unset [-h] [--property <key>] <snapshot>
```

Unset volume snapshot properties

Table 89.108. Positional Arguments

Value	Summary
None	None

Table 89.109. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--property <key>	Property to remove from snapshot (repeat option to remove multiple properties)

89.30. VOLUME TRANSFER REQUEST ACCEPT

Usage:

```
openstack volume transfer request accept [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         --auth-key <key>
                                         <transfer-request-id>
```

Accept volume transfer request.

Table 89.110. Positional Arguments

Value	Summary
None	None

Table 89.111. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--auth-key <key>	Volume transfer request authentication key

Table 89.112. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.113. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.114. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.115. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.31. VOLUME TRANSFER REQUEST CREATE

Usage:

```

openstack volume transfer request create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--name <name>]
                                         <volume>

```

Create volume transfer request.

Table 89.116. Positional Arguments

Value	Summary
None	None

Table 89.117. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	New transfer request name (default to none)

Table 89.118. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.119. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.120. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.121. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.32. VOLUME TRANSFER REQUEST DELETE

Usage:

```
openstack volume transfer request delete [-h]
                                     <transfer-request>
                                     [<transfer-request> ...]
```

Delete volume transfer request(s).

Table 89.122. Positional Arguments

Value	Summary
None	None

Table 89.123. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

89.33. VOLUME TRANSFER REQUEST LIST

Usage:

```
openstack volume transfer request list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--all-projects]
```

Lists all volume transfer requests.

Table 89.124. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Include all projects (admin only)

Table 89.125. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.126. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.127. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.128. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.34. VOLUME TRANSFER REQUEST SHOW

Usage:

```
openstack volume transfer request show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <transfer-request>
```

Show volume transfer request details.

Table 89.129. Positional Arguments

Value	Summary
None	None

Table 89.130. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 89.131. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.132. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.133. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.134. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.35. VOLUME TYPE CREATE

Usage:

```
openstack volume type create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--description <description>]
                             [--public | --private]
                             [--property <key=value>]
                             [--project <project>]
                             [--encryption-provider <provider>]
                             [--encryption-cipher <cipher>]
                             [--encryption-key-size <key-size>]
                             [--encryption-control-location <control-location>]
                             [--project-domain <project-domain>]
                             <name>
```

Create new volume type

Table 89.135. Positional Arguments

Value	Summary
None	None

Table 89.136. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Volume type description
--public	Volume type is accessible to the public
--private	Volume type is not accessible to the public
--property <key=value>	Set a property on this volume type (repeat option to set multiple properties)
--project <project>	Allow <project> to access private type (name or id) (Must be used with --private option)

Value	Summary
<code>--encryption-provider <provider></code>	Set the encryption provider format for this volume type (e.g "luks" or "plain") (admin only) (This option is required when setting encryption type of a volume. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-control-location")
<code>--encryption-cipher <cipher></code>	Set the encryption algorithm or mode for this volume type (e.g "aes-xts-plain64") (admin only)
<code>--encryption-key-size <key-size></code>	Set the size of the encryption key of this volume type (e.g "128" or "256") (admin only)
<code>--encryption-control-location <control-location></code>	Set the notional service where the encryption is performed ("front-end" or "back-end") (admin only) (The default value for this option is "front-end" when setting encryption type of a volume. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-provider")
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 89.137. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.138. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.139. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.140. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.36. VOLUME TYPE DELETE

Usage:

```
openstack volume type delete [-h] <volume-type> [<volume-type> ...]
```

Delete volume type(s)

Table 89.141. Positional Arguments

Value	Summary
None	None

Table 89.142. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

89.37. VOLUME TYPE LIST

Usage:

```
openstack volume type list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
                             [--default | --public | --private]
                             [--encryption-type]
```

List volume types

Table 89.143. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--default	List the default volume type
--public	List only public types
--private	List only private types (admin only)
--encryption-type	Display encryption information for each volume type (admin only)

Table 89.144. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.145. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.146. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.147. Table Formatter

Value	Summary

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.38. VOLUME TYPE SET

Usage:

```

openstack volume type set [-h] [--name <name>]
                        [--description <description>]
                        [--property <key=value>]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--encryption-provider <provider>]
                        [--encryption-cipher <cipher>]
                        [--encryption-key-size <key-size>]
                        [--encryption-control-location <control-location>]
                        <volume-type>

```

Set volume type properties

Table 89.148. Positional Arguments

Value	Summary
None	None

Table 89.149. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set volume type name
<code>--description <description></code>	Set volume type description
<code>--property <key=value></code>	Set a property on this volume type (repeat option to set multiple properties)

Value	Summary
<code>--project <project></code>	Set volume type access to project (name or id) (admin only)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--encryption-provider <provider></code>	Set the encryption provider format for this volume type (e.g "luks" or "plain") (admin only) (This option is required when setting encryption type of a volume for the first time. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-control-location")
<code>--encryption-cipher <cipher></code>	Set the encryption algorithm or mode for this volume type (e.g "aes-xts-plain64") (admin only)
<code>--encryption-key-size <key-size></code>	Set the size of the encryption key of this volume type (e.g "128" or "256") (admin only)
<code>--encryption-control-location <control-location></code>	Set the notional service where the encryption is performed ("front-end" or "back-end") (admin only) (The default value for this option is "front-end" when setting encryption type of a volume for the first time. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-provider")

89.39. VOLUME TYPE SHOW

Usage:

```
openstack volume type show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--encryption-type]
                             <volume-type>
```

Display volume type details

Table 89.150. Positional Arguments

Value	Summary
None	None

Table 89.151. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--encryption-type	Display encryption information of this volume type (admin only)

Table 89.152. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.153. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.154. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.155. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.40. VOLUME TYPE UNSET

Usage:

```
openstack volume type unset [-h] [--property <key>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--encryption-type]
                             <volume-type>
```

Unset volume type properties

Table 89.156. Positional Arguments

Value	Summary
None	None

Table 89.157. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Remove a property from this volume type (repeat option to remove multiple properties)
--project <project>	Removes volume type access to project (name or id) (admin only)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--encryption-type	Remove the encryption type for this volume type (admin only)

89.41. VOLUME UNSET

Usage:

```
openstack volume unset [-h] [--property <key>] [--image-property <key>]
                        <volume>
```

Unset volume properties

Table 89.158. Positional Arguments

Value	Summary
None	None

Table 89.159. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Remove a property from volume (repeat option to remove multiple properties)
--image-property <key>	Remove an image property from volume (repeat option to remove multiple image properties)

CHAPTER 90. VPN

This chapter describes the commands under the **vpn** command.

90.1. VPN ENDPOINT GROUP CREATE

Usage:

```
openstack vpn endpoint group create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--description <description>]
                                   --type TYPE --value ENDPOINTS
                                   [--project <project>]
                                   [--project-domain <project-domain>]
                                   <name>
```

Create an endpoint group

Table 90.1. Positional Arguments

Value	Summary
None	None

Table 90.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the endpoint group
--type TYPE	Type of endpoints in group (e.g. subnet, cidr)
--value ENDPOINTS	Endpoint(s) for the group. must all be of the same type. (--value) option can be repeated
--project <project>	Owner’s project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 90.3. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 90.4. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.5. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 90.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.2. VPN ENDPOINT GROUP DELETE

Usage:

```
openstack vpn endpoint group delete [-h]
                                <endpoint-group>
                                [<endpoint-group> ...]
```

Delete endpoint group(s)

Table 90.7. Positional Arguments

Value	Summary
None	None

Table 90.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

90.3. VPN ENDPOINT GROUP LIST

Usage:

```
openstack vpn endpoint group list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
```

List endpoint groups that belong to a given project

Table 90.9. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 90.10. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 90.11. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 90.12. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.13. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.4. VPN ENDPOINT GROUP SET

Usage:

```
openstack vpn endpoint group set [-h] [--description <description>]
                                [--name <name>]
                                <endpoint-group>
```

Set endpoint group properties

Table 90.14. Positional Arguments

Value	Summary
None	None

Table 90.15. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--description <description></code>	Description for the endpoint group
<code>--name <name></code>	Set a name for the endpoint group This command is provided by the python-neutronclient plugin.

90.5. VPN ENDPOINT GROUP SHOW

Usage:

```

openstack vpn endpoint group show [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>] [--fit-width]
                                  [--print-empty]
                                  <endpoint-group>

```

Display endpoint group details

Table 90.16. Positional Arguments

Value	Summary
None	None

Table 90.17. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 90.18. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 90.19. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 90.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.6. VPN IKE POLICY CREATE

Usage:

```

openstack vpn ike policy create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description <description>]
                                [--auth-algorithm {sha1,sha256,sha384,sha512}]
                                [--encryption-algorithm {aes-128,3des,aes-192,aes-256}]
                                [--phase1-negotiation-mode {main}]
                                [--ike-version {v1,v2}]
                                [--pfs {group5,group2,group14}]
                                [--lifetime units=UNITS,value=VALUE]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                <name>

```

Create an IKE policy

Table 90.22. Positional Arguments

Value	Summary
None	None

Table 90.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the ike policy
--auth-algorithm {sha1,sha256,sha384,sha512}	Authentication algorithm
--encryption-algorithm {aes-128,3des,aes-192,aes-256}	Encryption algorithm
--phase1-negotiation-mode {main}	Ike phase1 negotiation mode
--ike-version {v1,v2}	Ike version for the policy
--pfs {group5,group2,group14}	Perfect forward secrecy
--lifetime units=UNITS,value=VALUE	Ike lifetime attributes. <i>units</i> -seconds, default:seconds. <i>value</i> -non negative integer, default:3600.
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 90.24. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 90.25. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 90.26. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 90.27. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.7. VPN IKE POLICY DELETE

Usage:

```
openstack vpn ike policy delete [-h] <ike-policy> [<ike-policy> ...]
```

Delete IKE policy (policies)

Table 90.28. Positional Arguments

Value	Summary
None	None

Table 90.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

90.8. VPN IKE POLICY LIST

Usage:

```
openstack vpn ike policy list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
```

```
[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN] [--long]
```

List IKE policies that belong to a given project

Table 90.30. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 90.31. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 90.32. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 90.33. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 90.34. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.9. VPN IKE POLICY SET

Usage:

```

openstack vpn ike policy set [-h] [--description <description>]
                             [--auth-algorithm {sha1,sha256,sha384,sha512}]
                             [--encryption-algorithm {aes-128,3des,aes-192,aes-256}]
                             [--phase1-negotiation-mode {main}]
                             [--ike-version {v1,v2}]
                             [--pfs {group5,group2,group14}]
                             [--lifetime units=UNITS,value=VALUE]
                             [--name <name>]
                             <ike-policy>

```

Set IKE policy properties

Table 90.35. Positional Arguments

Value	Summary
None	None

Table 90.36. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the ike policy
--auth-algorithm {sha1,sha256,sha384,sha512}	Authentication algorithm
--encryption-algorithm {aes-128,3des,aes-192,aes-256}	Encryption algorithm
--phase1-negotiation-mode {main}	Ike phase1 negotiation mode
--ike-version {v1,v2}	Ike version for the policy

Value	Summary
<code>--pfs {group5,group2,group14}</code>	Perfect forward secrecy
<code>--lifetime units=UNITS,value=VALUE</code>	Ike lifetime attributes. <i>units</i> -seconds, default:seconds. <i>value</i> -non negative integer, default:3600.
<code>--name <name></code>	Name of the ike policy This command is provided by the python-neutronclient plugin.

90.10. VPN IKE POLICY SHOW

Usage:

```

openstack vpn ike policy show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               <ike-policy>

```

Display IKE policy details

Table 90.37. Positional Arguments

Value	Summary
None	None

Table 90.38. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 90.39. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 90.40. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 90.41. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 90.42. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.11. VPN IPSEC POLICY CREATE

Usage:

```

openstack vpn ipsec policy create [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>] [--fit-width]
                                  [--print-empty]
                                  [--description <description>]
                                  [--auth-algorithm {sha1,sha256,sha384,sha512}]
                                  [--encapsulation-mode {tunnel,transport}]
                                  [--encryption-algorithm {3des,aes-128,aes-192,aes-256}]
                                  [--lifetime units=UNITS,value=VALUE]
                                  [--pfs {group2,group5,group14}]
                                  [--transform-protocol {esp,ah,ah-esp}]
                                  [--project <project>]
                                  [--project-domain <project-domain>]
                                  <name>

```

Create an IPsec policy

Table 90.43. Positional Arguments

Value	Summary
None	None

Table 90.44. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the ipsec policy
--auth-algorithm {sha1,sha256,sha384,sha512}	Authentication algorithm for ipsec policy
--encapsulation-mode {tunnel,transport}	Encapsulation mode for ipsec policy
--encryption-algorithm {3des,aes-128,aes-192,aes-256}	Encryption algorithm for ipsec policy
--lifetime units=UNITS,value=VALUE	Ipssec lifetime attributes. <i>units</i> -seconds, default:seconds. <i>value</i> -non negative integer, default:3600.
--pfs {group2,group5,group14}	Perfect forward secrecy for ipsec policy
--transform-protocol {esp,ah,ah-esp}	Transform protocol for ipsec policy
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 90.45. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 90.46. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 90.47. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 90.48. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.12. VPN IPSEC POLICY DELETE

Usage:

```
openstack vpn ipsec policy delete [-h]
                                <ipsec-policy> [<ipsec-policy> ...]
```

Delete IPsec policy(policies)

Table 90.49. Positional Arguments

Value	Summary
None	None

Table 90.50. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

90.13. VPN IPSEC POLICY LIST

Usage:

```
openstack vpn ipsec policy list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
```

List IPsec policies that belong to a given project

Table 90.51. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 90.52. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 90.53. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 90.54. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 90.55. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.14. VPN IPSEC POLICY SET

Usage:

```

openstack vpn ipsec policy set [-h] [--description <description>]
                                [--auth-algorithm {sha1,sha256,sha384,sha512}]
                                [--encapsulation-mode {tunnel,transport}]
                                [--encryption-algorithm {3des,aes-128,aes-192,aes-256}]
                                [--lifetime units=UNITS,value=VALUE]
                                [--pfs {group2,group5,group14}]
                                [--transform-protocol {esp,ah,ah-esp}]
                                [--name <name>]
                                <ipsec-policy>

```

Set IPsec policy properties

Table 90.56. Positional Arguments

Value	Summary
None	None

Table 90.57. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the ipsec policy
--auth-algorithm {sha1,sha256,sha384,sha512}	Authentication algorithm for ipsec policy
--encapsulation-mode {tunnel,transport}	Encapsulation mode for ipsec policy

Value	Summary
<code>--encryption-algorithm {3des,aes-128,aes-192,aes-256}</code>	Encryption algorithm for ipsec policy
<code>--lifetime units=UNITS,value=VALUE</code>	Ipssec lifetime attributes. <i>units</i> -seconds, default:seconds. <i>value</i> -non negative integer, default:3600.
<code>--pfs {group2,group5,group14}</code>	Perfect forward secrecy for ipsec policy
<code>--transform-protocol {esp,ah,ah-esp}</code>	Transform protocol for ipsec policy
<code>--name <name></code>	Name of the ipsec policy This command is provided by the python-neutronclient plugin.

90.15. VPN IPSEC POLICY SHOW

Usage:

```

openstack vpn ipsec policy show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <ipsec-policy>

```

Display IPsec policy details

Table 90.58. Positional Arguments

Value	Summary
None	None

Table 90.59. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 90.60. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 90.61. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.62. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 90.63. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.16. VPN IPSEC SITE CONNECTION CREATE

Usage:

```

openstack vpn ipsec site connection create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty]
                                           [--description <description>]
                                           [--dpd action=ACTION,interval=INTERVAL,timeout=TIMEOUT]

```

```

LOCAL_ENDPOINT_GROUP]
    [--mtu MTU]
    [--initiator {bi-directional,response-only}]
    [--peer-cidr PEER_CIDRS | --local-endpoint-group
    LOCAL_ENDPOINT_GROUP]
    [--peer-endpoint-group PEER_ENDPOINT_GROUP]
    [--enable | --disable]
    [--local-id LOCAL_ID]
    --peer-id PEER_ID
    --peer-address PEER_ADDRESS
    --psk PSK --vpnservice
    VPNSERVICE --ikepolicy
    IKEPOLICY --ipsecpolicy
    IPSECPOLICY
    [--project <project>]
    [--project-domain <project-domain>]
    <name>

```

Create an IPsec site connection

Table 90.64. Positional Arguments

Value	Summary
None	None

Table 90.65. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the connection
--dpd action=ACTION,interval=INTERVAL,timeout=TIMEO UT	Ipssec connection dead peer detection attributes. <i>action</i> =hold,clear,disabled,restart,restart-by-peer. <i>interval</i> and <i>timeout</i> are non negative integers. <i>interval</i> should be less than <i>timeout</i> value. <i>action</i> , default:hold <i>interval</i> , default:30, <i>timeout</i> , default:120.
--mtu MTU	Mtu size for the connection
--initiator {bi-directional,response-only}	Initiator state
--peer-cidr PEER_CIDRS	Remote subnet(s) in cidr format. cannot be specified when using endpoint groups. Only applicable, if subnet provided for VPN service.
--local-endpoint-group LOCAL_ENDPOINT_GROUP	Local endpoint group (name or id) with subnet(s) for IPsec connection

Value	Summary
--peer-endpoint-group PEER_ENDPOINT_GROUP	Peer endpoint group (name or id) with cidr(s) for IPSec connection
--enable	Enable ipsec site connection
--disable	Disable ipsec site connection
--local-id LOCAL_ID	An id to be used instead of the external ip address for a virtual router
--peer-id PEER_ID	Peer router identity for authentication. can be IPv4/IPv6 address, e-mail address, key id, or FQDN
--peer-address PEER_ADDRESS	Peer gateway public ipv4/ipv6 address or fqdn
--psk PSK	Pre-shared key string.
--vpnservice VPNSERVICE	Vpn service instance associated with this connection (name or ID)
--ikepolicy IKEPOLICY	Ike policy associated with this connection (name or ID)
--ipsecpolicy IPSECPOLICY	Ipssec policy associated with this connection (name or ID)
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 90.66. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 90.67. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.68. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 90.69. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.17. VPN IPSEC SITE CONNECTION DELETE

Usage:

```
openstack vpn ipsec site connection delete [-h]
                                         <ipsec-site-connection>
                                         [<ipsec-site-connection> ...]
```

Delete IPsec site connection(s)

Table 90.70. Positional Arguments

Value	Summary
None	None

Table 90.71. Optional Arguments

Value	Summary

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

90.18. VPN IPSEC SITE CONNECTION LIST

Usage:

```

openstack vpn ipsec site connection list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--long]

```

List IPsec site connections that belong to a given project

Table 90.72. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 90.73. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 90.74. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 90.75. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.76. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.19. VPN IPSEC SITE CONNECTION SET

Usage:

```

openstack vpn ipsec site connection set [-h]
                                     [--description <description>]
                                     [--dpd action=ACTION,interval=INTERVAL,timeout=TIMEOUT]
                                     [--mtu MTU]
                                     [--initiator {bi-directional,response-only}]
                                     [--peer-cidr PEER_CIDRS | --local-endpoint-group
LOCAL_ENDPOINT_GROUP]
                                     [--peer-endpoint-group PEER_ENDPOINT_GROUP]
                                     [--enable | --disable]
                                     [--local-id LOCAL_ID]
                                     [--peer-id PEER_ID]
                                     [--peer-address PEER_ADDRESS]
                                     [--name <name>]
                                     <ipsec-site-connection>

```

Set IPsec site connection properties

Table 90.77. Positional Arguments

Value	Summary
None	None

Table 90.78. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the connection
--dpd action=ACTION,interval=INTERVAL,timeout=TIMEOUT UT	Ipsec connection dead peer detection attributes. <i>action</i> -hold,clear,disabled,restart,restart-by-peer. <i>interval</i> and <i>timeout</i> are non negative integers. <i>interval</i> should be less than <i>timeout</i> value. <i>action</i> , default:hold <i>interval</i> , default:30, <i>timeout</i> , default:120.
--mtu MTU	Mtu size for the connection
--initiator {bi-directional,response-only}	Initiator state
--peer-cidr PEER_CIDRS	Remote subnet(s) in cidr format. cannot be specified when using endpoint groups. Only applicable, if subnet provided for VPN service.
--local-endpoint-group LOCAL_ENDPOINT_GROUP	Local endpoint group (name or id) with subnet(s) for IPsec connection
--peer-endpoint-group PEER_ENDPOINT_GROUP	Peer endpoint group (name or id) with cidr(s) for IPSec connection
--enable	Enable ipsec site connection
--disable	Disable ipsec site connection
--local-id LOCAL_ID	An id to be used instead of the external ip address for a virtual router
--peer-id PEER_ID	Peer router identity for authentication. can be IPv4/IPv6 address, e-mail address, key id, or FQDN
--peer-address PEER_ADDRESS	Peer gateway public ipv4/ipv6 address or fqdn
--name <name>	Set friendly name for the connection This command is provided by the python-neutronclient plugin.

90.20. VPN IPSEC SITE CONNECTION SHOW

Usage:

```

openstack vpn ipsec site connection show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]

```

```

[--max-width <integer>]
[--fit-width] [--print-empty]
<ipsec-site-connection>

```

Show information of a given IPsec site connection

Table 90.79. Positional Arguments

Value	Summary
None	None

Table 90.80. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 90.81. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 90.82. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 90.83. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 90.84. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.21. VPN SERVICE CREATE

Usage:

```

openstack vpn service create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--description <description>]
                             [--subnet <subnet>] [--flavor <flavor>]
                             [--enable | --disable] --router ROUTER
                             [--project <project>]
                             [--project-domain <project-domain>]
                             <name>

```

Create an VPN service

Table 90.85. Positional Arguments

Value	Summary
None	None

Table 90.86. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the vpn service
--subnet <subnet>	Local private subnet (name or id)
--flavor <flavor>	Flavor for the vpn service (name or id)
--enable	Enable vpn service
--disable	Disable vpn service

Value	Summary
<code>--router ROUTER</code>	Router for the vpn service (name or id)
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 90.87. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 90.88. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.89. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 90.90. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.22. VPN SERVICE DELETE

Usage:

```
openstack vpn service delete [-h] <vpn-service> [<vpn-service> ...]
```

Delete VPN service(s)

Table 90.91. Positional Arguments

Value	Summary
None	None

Table 90.92. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-neutronclient plugin.

90.23. VPN SERVICE LIST

Usage:

```
openstack vpn service list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
```

List VPN services that belong to a given project

Table 90.93. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 90.94. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 90.95. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 90.96. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.97. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

90.24. VPN SERVICE SET

Usage:

```

openstack vpn service set [-h] [--description <description>]
                          [--subnet <subnet>] [--flavor <flavor>]
                          [--enable | --disable] [--name <name>]
                          <vpn-service>

```

Set VPN service properties

Table 90.98. Positional Arguments

Value	Summary
None	None

Table 90.99. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the vpn service
--subnet <subnet>	Local private subnet (name or id)
--flavor <flavor>	Flavor for the vpn service (name or id)
--enable	Enable vpn service
--disable	Disable vpn service
--name <name>	Name for the vpn service This command is provided by the python-neutronclient plugin.

90.25. VPN SERVICE SHOW

Usage:

```
openstack vpn service show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <vpn-service>
```

Display VPN service details

Table 90.100. Positional Arguments

Value	Summary
None	None

Table 90.101. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 90.102. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 90.103. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 90.104. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 90.105. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-neutronclient plugin.

CHAPTER 91. WORKBOOK

This chapter describes the commands under the **workbook** command.

91.1. WORKBOOK CREATE

Usage:

```
openstack workbook create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--public]
                          [--namespace [NAMESPACE]]
                          definition
```

Create new workbook.

Table 91.1. Positional Arguments

Value	Summary
None	None

Table 91.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--public	With this flag workbook will be marked as "public".
--namespace [NAMESPACE]	Namespace to create the workbook within.

Table 91.3. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 91.4. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 91.5. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 91.6. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

91.2. WORKBOOK DEFINITION SHOW

Usage:

```
openstack workbook definition show [-h] name
```

Show workbook definition.

Table 91.7. Positional Arguments

Value	Summary
None	None

Table 91.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

91.3. WORKBOOK DELETE

Usage:


```
openstack workbook delete [-h] [--namespace [NAMESPACE]]
                           workbook [workbook ...]
```

Delete workbook.

Table 91.9. Positional Arguments

Value	Summary
None	None

Table 91.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to delete the workbook(s) from. This command is provided by the python-mistralclient plugin.

91.4. WORKBOOK LIST

Usage:

```
openstack workbook list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--marker [MARKER]]
                        [--limit [LIMIT]] [--sort_keys [SORT_KEYS]]
                        [--sort_dirs [SORT_DIRS]] [--filter FILTERS]
```

List all workbooks.

Table 91.11. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.

Value	Summary
<code>--sort_keys [SORT_KEYS]</code>	Comma-separated list of sort keys to sort results by. Default: <code>created_at</code> . Example: <code>mistral execution-list</code>
<code>--sort_keys=id,description --sort_dirs [SORT_DIRS]</code>	Comma-separated list of sort directions. default: <code>asc</code> . Example: <code>mistral execution-list</code>
<code>--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS</code>	Filters. can be repeated.

Table 91.12. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to <code>table</code>
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 91.13. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to <code>nonnumeric</code>

Table 91.14. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 91.15. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <code><1</code> to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

91.5. WORKBOOK SHOW

Usage:

```
openstack workbook show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--namespace [NAMESPACE]]
                        workbook
```

Show specific workbook.

Table 91.16. Positional Arguments

Value	Summary
None	None

Table 91.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to get the workbook from.

Table 91.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 91.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 91.20. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 91.21. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

91.6. WORKBOOK UPDATE

Usage:

```

openstack workbook update [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--namespace [NAMESPACE]]
                          [--public]
                          definition

```

Update workbook.

Table 91.22. Positional Arguments

Value	Summary
None	None

Table 91.23. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--namespace [NAMESPACE]</code>	Namespace to update the workbook in.

Value	Summary
<code>--public</code>	With this flag workbook will be marked as "public".

Table 91.24. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 91.25. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 91.26. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 91.27. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

91.7. WORKBOOK VALIDATE

Usage:

```
openstack workbook validate [-h] [-f {json,shell,table,value,yaml}]
```

```
[-c COLUMN] [--noindent] [--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
definition
```

Validate workbook.

Table 91.28. Positional Arguments

Value	Summary
None	None

Table 91.29. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 91.30. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 91.31. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 91.32. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 91.33. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

CHAPTER 92. WORKFLOW

This chapter describes the commands under the **workflow** command.

92.1. WORKFLOW CREATE

Usage:

```
openstack workflow create [-h] [-f {csv,json,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN]
                           [--marker [MARKER]] [--limit [LIMIT]]
                           [--sort_keys [SORT_KEYS]]
                           [--sort_dirs [SORT_DIRS]] [--filter FILTERS]
                           [--namespace [NAMESPACE]] [--public]
                           definition
```

Create new workflow.

Table 92.1. Positional Arguments

Value	Summary
None	None

Table 92.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.
--namespace [NAMESPACE]	Namespace to create the workflow within.

Value	Summary
<code>--public</code>	With this flag workflow will be marked as "public".

Table 92.3. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 92.4. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 92.5. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.6. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

92.2. WORKFLOW DEFINITION SHOW

Usage:

```
openstack workflow definition show [-h] [--namespace [NAMESPACE]]
                                identifier
```

Show workflow definition.

Table 92.7. Positional Arguments

Value	Summary
None	None

Table 92.8. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to get the workflow from. This command is provided by the python-mistralclient plugin.

92.3. WORKFLOW DELETE

Usage:

```
openstack workflow delete [-h] [--namespace [NAMESPACE]]
                           workflow [workflow ...]
```

Delete workflow.

Table 92.9. Positional Arguments

Value	Summary
None	None

Table 92.10. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to delete the workflow from. This command is provided by the python-mistralclient plugin.

92.4. WORKFLOW ENGINE SERVICE LIST

Usage:

```
openstack workflow engine service list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--marker [MARKER]]
                                     [--limit [LIMIT]]
                                     [--sort_keys [SORT_KEYS]]
                                     [--sort_dirs [SORT_DIRS]]
                                     [--filter FILTERS]
```

List all services.

Table 92.11. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Table 92.12. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 92.13. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 92.14. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.15. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.5. WORKFLOW ENV CREATE

Usage:

```
openstack workflow env create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               file
```

Create new environment.

Table 92.16. Positional Arguments

Value	Summary
None	None

Table 92.17. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 92.18. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 92.19. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 92.20. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 92.21. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.6. WORKFLOW ENV DELETE

Usage:

```
openstack workflow env delete [-h] environment [environment ...]
```

Delete environment.

Table 92.22. Positional Arguments

Value	Summary
None	None

Table 92.23. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

92.7. WORKFLOW ENV LIST

Usage:

```
openstack workflow env list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker [MARKER]] [--limit [LIMIT]]
                             [--sort_keys [SORT_KEYS]]
                             [--sort_dirs [SORT_DIRS]]
                             [--filter FILTERS]
```

List all environments.

Table 92.24. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.

Value	Summary
<code>--sort_keys [SORT_KEYS]</code>	Comma-separated list of sort keys to sort results by. Default: <code>created_at</code> . Example: <code>mistral execution-list</code>
<code>--sort_keys=id,description --sort_dirs [SORT_DIRS]</code>	Comma-separated list of sort directions. default: <code>asc</code> . Example: <code>mistral execution-list</code>
<code>--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS</code>	Filters. can be repeated.

Table 92.25. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to <code>table</code>
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 92.26. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to <code>nonnumeric</code>

Table 92.27. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.28. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <code><1</code> to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.8. WORKFLOW ENV SHOW

Usage:

```
openstack workflow env show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--export]
                             environment
```

Show specific environment.

Table 92.29. Positional Arguments

Value	Summary
None	None

Table 92.30. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--export	Export the environment suitable for import

Table 92.31. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 92.32. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 92.33. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 92.34. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.9. WORKFLOW ENV UPDATE

Usage:

```
openstack workflow env update [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             file
```

Update environment.

Table 92.35. Positional Arguments

Value	Summary
None	None

Table 92.36. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 92.37. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 92.38. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.39. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 92.40. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.10. WORKFLOW EXECUTION CREATE

Usage:

```
openstack workflow execution create [-h]
```

```

[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--namespace [NAMESPACE]]
[-d DESCRIPTION]
[-s [SOURCE_EXECUTION_ID]]
[workflow_identifier]
[workflow_input] [params]

```

Create new execution.

Table 92.41. Positional Arguments

Value	Summary
None	None

Table 92.42. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Workflow namespace.
-d DESCRIPTION, --description DESCRIPTION	Execution description
-s [SOURCE_EXECUTION_ID]	Workflow execution id which will allow operators to create a new workflow execution based on the previously successful executed workflow. Example: mistral execution-create -s 123e4567-e89b-12d3-a456-426655440000

Table 92.43. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 92.44. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 92.45. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 92.46. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.11. WORKFLOW EXECUTION DELETE

Usage:

```
openstack workflow execution delete [-h] [--force]
                                execution [execution ...]
```

Delete execution.

Table 92.47. Positional Arguments

Value	Summary
None	None

Table 92.48. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Force the deletion of an execution. might cause a cascade of errors if used for running executions. This command is provided by the python-mistralclient plugin.

92.12. WORKFLOW EXECUTION INPUT SHOW

Usage:

```
openstack workflow execution input show [-h] id
```

Show execution input data.

Table 92.49. Positional Arguments

Value	Summary
None	None

Table 92.50. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

92.13. WORKFLOW EXECUTION LIST

Usage:

```
openstack workflow execution list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--marker [MARKER]] [--limit [LIMIT]]
                                [--sort_keys [SORT_KEYS]]
                                [--sort_dirs [SORT_DIRS]]
                                [--filter FILTERS] [--oldest]
                                [--task [TASK]]
```

List all executions.

Table 92.51. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".

Value	Summary
<code>--limit [LIMIT]</code>	Maximum number of entries to return in a single result.
<code>--sort_keys [SORT_KEYS]</code>	Comma-separated list of sort keys to sort results by. Default: <code>created_at</code> . Example: <code>mistral execution-list</code>
<code>--sort_keys=id,description --sort_dirs [SORT_DIRS]</code>	Comma-separated list of sort directions. default: <code>asc</code> . Example: <code>mistral execution-list</code>
<code>--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS</code>	Filters. can be repeated.
<code>--oldest</code>	Display the executions starting from the oldest entries instead of the newest
<code>--task [TASK]</code>	Parent task execution id associated with workflow execution list.

Table 92.52. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to <code>table</code>
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 92.53. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to <code>nonnumeric</code>

Table 92.54. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.55. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

92.14. WORKFLOW EXECUTION OUTPUT SHOW

Usage:

```
openstack workflow execution output show [-h] id
```

Show execution output data.

Table 92.56. Positional Arguments

Value	Summary
None	None

Table 92.57. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit This command is provided by the <code>python-mistralclient</code> plugin.

92.15. WORKFLOW EXECUTION PUBLISHED SHOW

Usage:

```
openstack workflow execution published show [-h] id
```

Show workflow global published variables.

Table 92.58. Positional Arguments

Value	Summary
None	None

Table 92.59. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit This command is provided by the python-mistralclient plugin.

92.16. WORKFLOW EXECUTION REPORT SHOW

Usage:

```
openstack workflow execution report show [-h] [--errors-only]
                                         [--no-errors-only]
                                         [--max-depth [MAX_DEPTH]]
                                         id
```

Print execution report.

Table 92.60. Positional Arguments

Value	Summary
None	None

Table 92.61. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--errors-only	Only error paths will be included.
--no-errors-only	Not only error paths will be included.
--max-depth [MAX_DEPTH]	Maximum depth of the workflow execution tree. if 0, only the root workflow execution and its tasks will be included This command is provided by the python-mistralclient plugin.

92.17. WORKFLOW EXECUTION SHOW

Usage:


```

openstack workflow execution show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                execution

```

Show specific execution.

Table 92.62. Positional Arguments

Value	Summary
None	None

Table 92.63. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 92.64. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 92.65. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 92.66. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 92.67. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

92.18. WORKFLOW EXECUTION UPDATE

Usage:

```

openstack workflow execution update [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [-s {RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}]
                                   [-e ENV] [-d DESCRIPTION]
                                   id

```

Update execution.

Table 92.68. Positional Arguments

Value	Summary
None	None

Table 92.69. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-s {RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}</code> <code>, --state {RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}</code>	Execution state
<code>-e ENV, --env ENV</code>	Environment variables

Value	Summary
<code>-d DESCRIPTION, --description DESCRIPTION</code>	Execution description

Table 92.70. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 92.71. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.72. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 92.73. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-mistralclient</code> plugin.

92.19. WORKFLOW LIST

Usage:

```
openstack workflow list [-h] [-f {csv,json,table,value,yaml}]
```

```

[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN] [--marker [MARKER]]
[--limit [LIMIT]] [--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]] [--filter FILTERS]

```

List all workflows.

Table 92.74. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.

Table 92.75. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 92.76. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 92.77. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.78. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.20. WORKFLOW SHOW

Usage:

```
openstack workflow show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--namespace [NAMESPACE]]
                        workflow
```

Show specific workflow.

Table 92.79. Positional Arguments

Value	Summary
None	None

Table 92.80. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--namespace [NAMESPACE]</code>	Namespace to get the workflow from.

Table 92.81. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 92.82. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 92.83. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 92.84. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.21. WORKFLOW UPDATE

Usage:

```
openstack workflow update [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--marker [MARKER]] [--limit [LIMIT]]
```

```

[--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]] [--filter FILTERS]
[--id ID] [--namespace [NAMESPACE]]
[--public]
definition

```

Update workflow.

Table 92.85. Positional Arguments

Value	Summary
None	None

Table 92.86. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list
--sort_keys=id,description --sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc --filter FILTERS	Filters. can be repeated.
--id ID	Workflow id.
--namespace [NAMESPACE]	Namespace of the workflow.
--public	With this flag workflow will be marked as "public".

Table 92.87. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 92.88. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 92.89. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 92.90. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

92.22. WORKFLOW VALIDATE

Usage:

```
openstack workflow validate [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             definition
```

Validate workflow.

Table 92.91. Positional Arguments

Value	Summary
None	None

Table 92.92. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit

Table 92.93. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 92.94. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 92.95. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 92.96. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-mistralclient plugin.

CHAPTER 93. ZONE

This chapter describes the commands under the **zone** command.

93.1. ZONE ABANDON

Usage:

```
openstack zone abandon [-h] [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        id
```

Abandon a zone

Table 93.1. Positional Arguments

Value	Summary
None	None

Table 93.2. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

93.2. ZONE AXFR

Usage:

```
openstack zone axfr [-h] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
                    id
```

AXFR a zone

Table 93.3. Positional Arguments

Value	Summary
None	None

Table 93.4. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

93.3. ZONE BLACKLIST CREATE

Usage:

```
openstack zone blacklist create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] --pattern PATTERN
                               [--description DESCRIPTION]
                               [--all-projects] [--edit-managed]
                               [--sudo-project-id SUDO_PROJECT_ID]
```

Create new blacklist

Table 93.5. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--pattern PATTERN	Blacklist pattern
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.6. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 93.7. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.8. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 93.9. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.4. ZONE BLACKLIST DELETE

Usage:

```
openstack zone blacklist delete [-h] [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]
                                id
```

Delete blacklist

Table 93.10. Positional Arguments

Value	Summary
None	None

Table 93.11. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

93.5. ZONE BLACKLIST LIST

Usage:

```
openstack zone blacklist list [-h] [-f {csv,json,table,value,yaml}]
                              [-c COLUMN]
                              [--quote {all,minimal,none,nonnumeric}]
                              [--noindent] [--max-width <integer>]
                              [--fit-width] [--print-empty]
                              [--sort-column SORT_COLUMN]
                              [--all-projects] [--edit-managed]
                              [--sudo-project-id SUDO_PROJECT_ID]
```

List blacklists

Table 93.12. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false

Value	Summary
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.13. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 93.14. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 93.15. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.16. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.6. ZONE BLACKLIST SET

Usage:

```

openstack zone blacklist set [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--pattern PATTERN]
                             [--description DESCRIPTION | --no-description]
                             [--all-projects] [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             id

```

Set blacklist properties

Table 93.17. Positional Arguments

Value	Summary
None	None

Table 93.18. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--pattern PATTERN	Blacklist pattern
--description DESCRIPTION	Description
--no-description --all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.19. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 93.20. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.21. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 93.22. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.7. ZONE BLACKLIST SHOW

Usage:

```

openstack zone blacklist show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--all-projects] [--edit-managed]
                               [--sudo-project-id SUDO_PROJECT_ID]
                               id

```


Show blacklist details

Table 93.23. Positional Arguments

Value	Summary
None	None

Table 93.24. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.25. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.26. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.27. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.28. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.8. ZONE CREATE

Usage:

```

openstack zone create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--email EMAIL] [--type TYPE]
                        [--ttl TTL] [--description DESCRIPTION]
                        [--masters MASTERS [MASTERS ...]]
                        [--attributes ATTRIBUTES [ATTRIBUTES ...]]
                        [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        name

```

Create new zone

Table 93.29. Positional Arguments

Value	Summary
None	None

Table 93.30. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--email EMAIL</code>	Zone email
<code>--type TYPE</code>	Zone type
<code>--ttl TTL</code>	Time to live (seconds)

Value	Summary
--description DESCRIPTION	Description
--masters MASTERS [MASTERS ...]	Zone masters
--attributes ATTRIBUTES [ATTRIBUTES ...]	Zone attributes
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.31. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.32. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.33. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.34. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-designateclient</code> plugin.

93.9. ZONE DELETE

Usage:

```

openstack zone delete [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        id

```

Delete zone

Table 93.35. Positional Arguments

Value	Summary
None	None

Table 93.36. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.37. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 93.38. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.39. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 93.40. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.10. ZONE EXPORT CREATE

Usage:

```
openstack zone export create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--all-projects]
                             [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_id
```

Export a Zone

Table 93.41. Positional Arguments

Value	Summary
None	None

Table 93.42. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.43. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.44. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.45. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.46. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.11. ZONE EXPORT DELETE

Usage:

```
openstack zone export delete [-h] [--all-projects] [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_export_id
```

Delete a Zone Export

Table 93.47. Positional Arguments

Value	Summary
None	None

Table 93.48. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

93.12. ZONE EXPORT LIST

Usage:

```

openstack zone export list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--all-projects]
                             [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]

```

List Zone Exports

Table 93.49. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.50. Output Formatters

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 93.51. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 93.52. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.53. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-designateclient</code> plugin.

93.13. ZONE EXPORT SHOW

Usage:

```
openstack zone export show [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty] [--all-projects]
                           [--edit-managed]
                           [--sudo-project-id SUDO_PROJECT_ID]
                           zone_export_id
```

Show a Zone Export

Table 93.54. Positional Arguments

Value	Summary
None	None

Table 93.55. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.56. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 93.57. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.58. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 93.59. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.14. ZONE EXPORT SHOWFILE

Usage:

```
openstack zone export showfile [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--all-projects]
```

```
[--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
zone_export_id
```

Show the zone file for the Zone Export

Table 93.60. Positional Arguments

Value	Summary
None	None

Table 93.61. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.62. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.63. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.64. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.65. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.15. ZONE IMPORT CREATE

Usage:

```

openstack zone import create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--all-projects]
                             [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_file_path

```

Import a Zone from a file on the filesystem

Table 93.66. Positional Arguments

Value	Summary
None	None

Table 93.67. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.68. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.69. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.70. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.71. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.16. ZONE IMPORT DELETE

Usage:

```
openstack zone import delete [-h] [--all-projects] [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_import_id
```

Delete a Zone Import

Table 93.72. Positional Arguments

Value	Summary
None	None

Table 93.73. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

93.17. ZONE IMPORT LIST

Usage:

```

openstack zone import list [-h] [-f {csv,json,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN] [--all-projects]
                           [--edit-managed]
                           [--sudo-project-id SUDO_PROJECT_ID]
```

List Zone Imports

Table 93.74. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.75. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 93.76. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 93.77. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.78. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.18. ZONE IMPORT SHOW

Usage:

```
openstack zone import show [-h] [-f {json,shell,table,value,yaml}]
                           [-c COLUMN] [--noindent] [--prefix PREFIX]
                           [--max-width <integer>] [--fit-width]
                           [--print-empty] [--all-projects]
```

```
[--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
zone_import_id
```

Show a Zone Import

Table 93.79. Positional Arguments

Value	Summary
None	None

Table 93.80. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.81. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.82. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.83. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.84. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.19. ZONE LIST

Usage:

```

openstack zone list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--name NAME] [--email EMAIL] [--type TYPE]
                    [--ttl TTL] [--description DESCRIPTION]
                    [--status STATUS] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]

```

List zones

Table 93.85. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME</code>	Zone name
<code>--email EMAIL</code>	Zone email
<code>--type TYPE</code>	Zone type
<code>--ttl TTL</code>	Time to live (seconds)
<code>--description DESCRIPTION</code>	Description
<code>--status STATUS</code>	Zone status
<code>--all-projects</code>	Show results from all projects. default: false

Value	Summary
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.86. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 93.87. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 93.88. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.89. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.20. ZONE SET

Usage:

```

openstack zone set [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--email EMAIL] [--ttl TTL]
                    [--description DESCRIPTION | --no-description]
                    [--masters MASTERS [MASTERS ...]] [--all-projects]
                    [--edit-managed] [--sudo-project-id SUDO_PROJECT_ID]
                    id

```

Set zone properties

Table 93.90. Positional Arguments

Value	Summary
None	None

Table 93.91. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--email EMAIL	Zone email
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description
--no-description --masters MASTERS [MASTERS ...]	Zone masters
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.92. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 93.93. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.94. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 93.95. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.21. ZONE SHOW

Usage:

```

openstack zone show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
                    id

```

Show zone details

Table 93.96. Positional Arguments

Value	Summary
None	None

Table 93.97. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.98. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.99. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.100. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.101. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the <code>python-designateclient</code> plugin.

93.22. ZONE TRANSFER ACCEPT LIST

Usage:

```

openstack zone transfer accept list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   [--all-projects] [--edit-managed]
                                   [--sudo-project-id SUDO_PROJECT_ID]

```

List Zone Transfer Accepts

Table 93.102. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.103. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 93.104. CSV Formatter

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 93.105. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.106. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.23. ZONE TRANSFER ACCEPT REQUEST

Usage:

```
openstack zone transfer accept request [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
```

```

[--max-width <integer>]
[--fit-width] [--print-empty]
--transfer-id TRANSFER_ID --key
KEY [--all-projects]
[--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]

```

Accept a Zone Transfer Request

Table 93.107. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--transfer-id TRANSFER_ID	Transfer id
--key KEY	Transfer key
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.108. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.109. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.110. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.111. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.24. ZONE TRANSFER ACCEPT SHOW

Usage:

```

openstack zone transfer accept show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--all-projects] [--edit-managed]
                                   [--sudo-project-id SUDO_PROJECT_ID]
                                   id

```

Show Zone Transfer Accept

Table 93.112. Positional Arguments

Value	Summary
None	None

Table 93.113. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.114. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 93.115. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.116. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 93.117. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.25. ZONE TRANSFER REQUEST CREATE

Usage:

```

openstack zone transfer request create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--target-project-id TARGET_PROJECT_ID]

```

[--description DESCRIPTION]

[--all-projects]

[--edit-managed]

[--sudo-project-id SUDO_PROJECT_ID]

zone_id

Create new zone transfer request

Table 93.118. Positional Arguments

Value	Summary
None	None

Table 93.119. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--target-project-id TARGET_PROJECT_ID	Target project id to transfer to.
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.120. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.121. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.122. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.123. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.26. ZONE TRANSFER REQUEST DELETE

Usage:

```

openstack zone transfer request delete [-h] [--all-projects]
                                     [--edit-managed]
                                     [--sudo-project-id SUDO_PROJECT_ID]
                                     id

```

Delete a Zone Transfer Request

Table 93.124. Positional Arguments

Value	Summary
None	None

Table 93.125. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None This command is provided by the python-designateclient plugin.

93.27. ZONE TRANSFER REQUEST LIST

Usage:

```

openstack zone transfer request list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--all-projects] [--edit-managed]
                                     [--sudo-project-id SUDO_PROJECT_ID]

```

List Zone Transfer Requests

Table 93.126. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.127. Output Formatters

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 93.128. CSV Formatter

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 93.129. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.130. Table Formatter

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.28. ZONE TRANSFER REQUEST SET

Usage:

```
openstack zone transfer request set [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--description DESCRIPTION | --no-description]
    [--all-projects] [--edit-managed]
    [--sudo-project-id SUDO_PROJECT_ID]
    id
```

Set a Zone Transfer Request

Table 93.131. Positional Arguments

Value	Summary
None	None

Table 93.132. Optional Arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Description
--no-description --all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 93.133. Output Formatters

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 93.134. JSON Formatter

Value	Summary
--noindent	Whether to disable indenting the json

Table 93.135. Shell Formatter

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 93.136. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.

93.29. ZONE TRANSFER REQUEST SHOW

Usage:

```

openstack zone transfer request show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--all-projects] [--edit-managed]
                                     [--sudo-project-id SUDO_PROJECT_ID]
                                     id

```

Show Zone Transfer Request Details

Table 93.137. Positional Arguments

Value	Summary
None	None

Table 93.138. Optional Arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 93.139. Output Formatters

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 93.140. JSON Formatter

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 93.141. Shell Formatter

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 93.142. Table Formatter

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show. This command is provided by the python-designateclient plugin.