

# New quantum client V2.0

[Summary](#)

[Features from cliff](#)

[Interactive mode](#)

[Output format](#)

[Column selection](#)

[Features in V2.0 API](#)

[Fields selection](#)

[Verbose displaying](#)

[Value filtering](#)

[Argument parts of API 2.0 command](#)

[Known options](#)

[Positional arguments](#)

[Unknown options](#)

[Quantumv2 Usage](#)

[Sample usage](#)

[Authentication](#)

[No authentication](#)

[User and password](#)

[Token and URL way](#)

[Authn wrap up](#)

[ENV for quantumv2 authn](#)

[Create network](#)

[Show the help of create\\_net command](#)

[Create network](#)

[Create network with any extra fields](#)

[List nets](#)

[Usage](#)

[List network without extra field](#)

[List network with extra fields](#)

[Update network](#)

[Usage](#)

[Update network](#)

[Delete network](#)

[usage](#)

[Delete a network sample](#)

## Summary

Quantum client v2.0 adopts cliff framework, has flexibility to support V1.x and V2.0 Quantum API. It supports different set of commands according to given API version. The new quantum client's binary is quantumv2. This poster describes the commands for Quantum V2.0 API.

## Features from cliff

### Interactive mode

If there is no command is specified, the quantumv2 will enter into interactive mode:

```
# quantumv2 --os-username admin --os-password password --os-tenant-name admin
--os-auth-url http://localhost:5000/v2.0
(quantumv2) help
```

Shell commands (type help <topic>):

```
=====
cmdenvironment edit hi | list pause r save shell show
ed help history li load py run set shortcuts
```

Undocumented commands:

```
=====
EOF eof exit q quit
```

Application commands (type help <topic>):

```
=====
update_net help update_subnet delete_subnet list_ports show_net
show_subnet delete_port list_nets show_port update_port
create_net delete_net create_subnet list_subnets create_port
```

(quantumv2) list\_nets -F id -F name

```
+-----+-----+
| id           | name |
+-----+-----+
| 358c43b7-2042-4f5e-848c-b88f441fc71a | test2 |
| 5cba94c1-8ed3-44ca-9f8c-a94fd9fc5c6a | test1_0 |
+-----+-----+
```

### Output format

We can use -h after each command to show the usage of each command:

```
(quantumv2) list_nets -h
usage: list_nets [-h] [-f {csv,html,json,table,yaml}] [-c COLUMN]
      [--quote {all,minimal,none,nonnumeric}]
      [--request-format {json,xml}] [-D] [-F FIELDS]
      ...
```

List networks that belong to a given tenant Sample: `list_nets -D --name=test4 --tag a b`

positional arguments:

```
filter_specs      filters options: --key1 [type=int|bool|...] value
                  [--key2 [type=int|bool|...] value ...]
```

optional arguments:

```
-h, --help          show this help message and exit
--request-format {json,xml}
                    the xml or json request format
-D, --show-details  show detailed info
-F FIELDS, --fields FIELDS
                    specify the field(s) to be returned by server, can be
                    repeated
```

output formatters:

output formatter options

```
-f {csv,html,json,table,yaml}, --format {csv,html,json,table,yaml}
                    the output format to use, defaults to table
-c COLUMN, --column COLUMN
                    specify the column(s) to include, can be repeated
```

CSV Formatter:

```
--quote {all,minimal,none,nonnumeric}
        when to include quotes, defaults to nonnumeric
```

We can see the output formatters cliff provides to each command.

By default, the output format is table. Now we choose csv output to run the command `list_nets`:

```
(quantumv2) list_nets -f csv
```

```
"admin_state_up","id","name","status","subnets","tenant_id"
```

```
True,"358c43b7-2042-4f5e-848c-b88f441fc71a","test2","ACTIVE","", "9d049e4b60b64716978ab415e6fbd5c0"
```

```
True,"5cba94c1-8ed3-44ca-9f8c-a94fd9fc5c6a","test1_0","ACTIVE","", "9d049e4b60b64716978ab415e6fbd5c0"
```

## Column selection

We can see -c COLUMN in previous usage output. It can be used to limit the output fields:

```
(quantumv2) list_nets -f csv -c id -c name
```

```
"id","name"
```

```
"358c43b7-2042-4f5e-848c-b88f441fc71a","test2"
```

```
"5cba94c1-8ed3-44ca-9f8c-a94fd9fc5c6a","test1_0"
```

**please note the difference between -c and -F.** -F is implemented by quantum command. it will impact the traffic between server and client. -c is provided by cliff's formatters, which selects the fields on the client side.

## Features in V2.0 API

### Fields selection

If there are 'fields' in request URL, V2.0 API will extract the list of fields to return.

A sample of such URLs is <http://localhost:9696/v2.0/networks.json?fields=id&fields=name>

quantumv2 client supports this feature by -F option in known options part and --fields in unknown options part.

For example, quantumv2 -F id list\_nets -- --fields name.

Only list\_xx and show\_xx commands support this feature.

### Value filtering

Any other fields except the 'verbose' and 'fields' are used as value filtering.

A sample of such URLs is

<http://localhost:9696/v2.0/networks.json?name=test1&name=test2&tag=a>

By the current quantum server's sample DB plugin, the filtering has the meaning as SQL clause: name in ['test1', 'test2'].

quantumv2 client supports this feature by any key options in unknown part

For example quantumv2 list\_nets -- --name test1 test2 --tag a

Only list\_xx and show\_xx commands support this feature.

### Argument parts of API 2.0 command

In general, arguments divide into three parts:

## Known options

These options are following command name. They can be after positional arguments if the command does not support unknow options. Known options are used to represent optional values in API resource. Some options have default value if not specified.

## Positional arguments

Positional arguments are for mandatory information for an API resource. There is no optional values for them and must be given in the order.

## Unknown options

Unknown options are at the end part of the command line. They must be after a positional argument. If there is no argument for the command, pseudo argument '--' should be used. To define an unknown option, the format is --optionname [type=int|bool|...] [optionvalue]\*. There can be multiple option values for a certain optionname. When there is no optionvalue given, the option is a bool one and value is true. The type is python built-in type, such as int, bool and float, defaulted to string if not given.

Unknown options are used to provides values for update\_command, implement new features of API v2.0. It can also be used to provide information for API extension.

This is a usage for a command which supports unknown options:

(quantumv2) create\_net -h

```
usage: create_net [-h] [-f {html,json,shell,table,yaml}] [-c COLUMN]
                [--variable VARIABLE] [--prefix PREFIX]
                [--request-format {json,xml}] [--tenant-id tenant-id]
                [--admin-state-down]
                name ...
```

Note the “...” after positional argument name, which is the indicator for Unknown options.

## Quantumv2 Usage

```
# quantumv2 -H
```

```
usage: quantumv2 [--version] [-v] [-q] [-H] [--debug]
                [--os-auth-url <auth-url>]
                [--os-auth-strategy <auth-strategy>]
                [--os-tenant-name <auth-tenant-name>]
                [--os-username <auth-username>]
                [--os-password <auth-password>]
```

```
 [--os-region-name <auth-region-name>]
 [--os-quantum-api-version <quantum-api-version>]
 [--os-token <token>] [--os-url <url>]
```

Command-line interface to the Quantum APIs

optional arguments:

```
--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
-H, --Help        show this help message and exit
--debug           show tracebacks on errors
--os-auth-strategy <auth-strategy>
                  Authentication strategy (Env: OS_AUTH_STRATEGY,
                  default keystone). For now, any other value will
                  disable the authentication
--os-auth-url <auth-url>
                  Authentication URL (Env: OS_AUTH_URL)
--os-tenant-name <auth-tenant-name>
                  Authentication tenant name (Env: OS_TENANT_NAME)
--os-username <auth-username>
                  Authentication username (Env: OS_USERNAME)
--os-password <auth-password>
                  Authentication password (Env: OS_PASSWORD)
--os-region-name <auth-region-name>
                  Authentication region name (Env: OS_REGION_NAME)
--os-quantum-api-version <quantum-api-version>
                  QAUNTUM API version, default=2.0 (Env:
                  OS_QUANTUM_API_VERSION)
--os-token <token> Defaults to env[OS_TOKEN]
--os-url <url>     Defaults to env[OS_URL]
```

Commands for API v2.0:

```
create_net  Create a network for a given tenant
delete_net  Delete a given network
help       print detailed help for another command
list_nets   List networks that belong to a given tenant
show_net    Show information of a given network
update_net  Update network's information
```

Note:

1. By default, quantumv2 is working on quantum v2.0, which can be changed by

--os-quantum-api-version or env OS\_QUANTUM\_API\_VERSION.

2. -H is used for quantumv2, -h is for sub command. For example, 'quantumv2 list\_nets -h' will show the help for the command list\_nets, which works the way like 'quantumv2 help list\_nets'
3. -v can be used to show HTTP messages between client and server
4. --debug is used to show tracestack when exception raised

## Sample usage

### Authentication

New quantum client support three ways to auth:

1. no authentication

We can provide value other than keystone to --os-auth-strategy to disable authentication.

2. User and password

With keystone auth strategy, this way needs username, password, tenant name and keystone service URL.

3. Token and quantum URL

With keystone auth strategy, this way just needs a keystone token and quantum service URL.

Let see each of them below:

#### No authentication

```
#quantumv2 --os-auth-strategy=et --os-url=http://localhost:9696 list_nets
```

#### User and password

```
#quantumv2 --os-auth-url http://localhost:35357/v2.0 --os-username admin --os-password  
password --os-tenant-name admin -v list_nets
```

```
DEBUG: quantumclient.quantum.v2_0.network.ListNetwork get_data(Namespace(columns=[],  
filter_specs=[], formatter='table', quote_mode='nonnumeric', request_format='json',  
show_details=False))
```

```
DEBUG: quantumclient.client REQ: curl -i http://localhost:35357/v2.0/tokens -X POST -H  
"Content-Type: application/json" -H "Accept: application/json" -H "User-Agent:  
python-quantumclient"
```

```
DEBUG: quantumclient.client REQ BODY: {"auth": {"tenantName": "admin",  
"passwordCredentials": {"username": "admin", "password": "password"}}
```

```
DEBUG: quantumclient.client RESP: {'date': 'Thu, 07 Jun 2012 01:56:33 GMT', 'content-type':  
'application/json', 'content-length': '2230', 'status': '200', 'vary': 'X-Auth-Token'}
```

```
DEBUG: quantumclient.client RESP BODY:...
```

```
DEBUG: quantumclient.client RESP BODY:...
```

```

+-----+-----+
| id                | name  |
+-----+-----+
| 097dbe2e-11ef-4e96-8b8a-56390232a179 | test9 |
| 4825fd5f-5959-4a1b-94c7-128452e97ff8 | test6  |
| df205add-cd3c-407f-872a-fbbdb1f0da02 | test5  |
| e02c08c9-d685-4a6e-9518-cb078ffacbf1 | private3 |
| fec4871e-a393-413b-ab58-74f750c42c99 | test5  |
+-----+-----+

```

DEBUG: quantumclient.shell clean\_up ListNetwork

### Token and URL way

```
$quantumv2 --os-token ADMIN --os-url http://localhost:9696/ -v list_nets
```

```
DEBUG: quantumclient.quantum.v2_0.network.ListNetwork get_data(Namespace(columns=[],
filter_specs=[], formatter='table', quote_mode='nonnumeric', request_format='json',
show_details=False))
```

```
DEBUG: quantumclient.quantum.client we are using client: quantumclient.v2_0.client.Client
```

```
DEBUG: quantumclient.quantum.v2_0.network.ListNetwork search options: {}
```

```
DEBUG: quantumclient.client REQ: curl -i http://localhost:9696/v2.0/networks.json? -X GET -H
"User-Agent: python-quantumclient" -H "Content-Type: application/json" -H "Accept:
application/json" -H "X-Auth-Token: ADMIN"
```

```
DEBUG: quantumclient.client RESP: {'date': 'Thu, 07 Jun 2012 02:00:59 GMT', 'status': '200',
'content-length': '1671', 'content-type': 'application/json', 'content-location':
'http://localhost:9696/v2.0/networks.json?'}
```

DEBUG: ...

```

+-----+-----+
| id                | name  |
+-----+-----+
| 097dbe2e-11ef-4e96-8b8a-56390232a179 | test9 |
| df205add-cd3c-407f-872a-fbbdb1f0da02 | test5  |
| e02c08c9-d685-4a6e-9518-cb078ffacbf1 | private3 |
| fec4871e-a393-413b-ab58-74f750c42c99 | test5  |
+-----+-----+

```

DEBUG: quantumclient.shell clean\_up ListNetwork

### Authn wrap up

user and password way will authn the user, while the token will not. But the quantum server will check the token's validity against the identity server.



### ENV for quantumv2 authn

```
export OS_USERNAME=admin
export OS_PASSWORD=password
export OS_TENANT_NAME=admin
export OS_AUTH_URL=http://localhost:5000/v2.0
```

Or

```
export OS_TOKEN=ADMIN
export OS_URL=http://localhost:9696/
```

Or

```
export OS_AUTH_STRATEGY=noauth
export OS_URL=http://localhost:9696/
```

## Create network

### Show the help of create\_net command

```
# quantumv2 -v create_net -h
usage: quantumv2 create_net [-h] [-f {html,json,shell,table,yaml}] [-c COLUMN]
      [--variable VARIABLE] [--prefix PREFIX]
      [--request-format {json,xml}]
      [--tenant-id tenant-id] [--admin-state-down]
      name ...
```

Create a network for a given tenant Sample `create_net --tenant-id xxx --admin-state-up <net_name> --tag x y`

positional arguments:

```
net-name          Name of network to create
value_specs       extra values for the network:--field1
                  [type=int|bool|...] value [--field2
                  [type=int|bool|...] value ...]
```

optional arguments:

```
-h, --help          show this help message and exit
--request-format {json,xml}
                    the xml or json request format
--tenant-id tenant-id
                    the owner tenant ID
```

--admin-state-down Set Admin State Up to false

output formatters:

output formatter options

-f {html,json,shell,table,yaml}, --format {html,json,shell,table,yaml}

the output format to use, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

shell formatter:

Print values in a format a UNIX shell can parse (variable="value")

--variable VARIABLE specify the variable(s) to include, can be repeated

--prefix PREFIX add a prefix to all variable names

## Create network

```
# quantumv2 -v create_net test11
```

```
DEBUG: quantumclient.quantum.v2_0.network.CreateNetwork
```

```
get_data(Namespace(admin_state_down=True, columns=[], formatter='table',  
net_name='test11', prefix="", request_format='json', tenant_id=None, value_specs=[],  
variables=[]))
```

```
DEBUG: quantumclient.quantum.client we are using client: quantumclient.v2_0.client.Client
```

```
DEBUG: quantumclient.client REQ: curl -i http://localhost:9696/v2.0/networks.json -X POST -H  
"User-Agent: python-quantumclient" -H "Content-Type: application/json" -H "Accept:  
application/json" -H "X-Auth-Token: ADMIN"
```

```
DEBUG: quantumclient.client REQ BODY: {"network": {"name": "test11", "admin_state_up":  
true}}
```

```
DEBUG: quantumclient.client RESP: {'date': 'Thu, 07 Jun 2012 02:11:30 GMT', 'status': '201',  
'content-length': '139', 'content-type': 'application/json'}
```

```
DEBUG: quantumclient.client RESP BODY: {"network": {"subnets": [], "op_status": "ACTIVE",  
"id": "214d622d-0850-4a20-b1bb-242bb1fbf3f9", "name": "test11", "admin_state_up": true}}
```

Created a new Virtual Network:

```
+-----+-----+  
| Field      | Value                               |  
+-----+-----+  
| admin_state_up | True                                |
```

```

| id          | 214d622d-0850-4a20-b1bb-242bb1fbf3f9 |
| name       | test11                                |
| op_status  | ACTIVE                                |
| subnets   | []                                     |
+-----+-----+

```

DEBUG: quantumclient.shell clean\_up CreateNetwork

## Create network with any extra fields

```
# quantumv2 -v create_net test12 --op_status DOWN --tag x y --anyfield value
```

DEBUG: quantumclient.quantum.v2\_0.network.CreateNetwork

```
get_data(Namespace(admin_state_down=True, columns=[], formatter='table',
net_name='test12', prefix="", request_format='json', tenant_id=None, value_specs=['--op_status',
'DOWN', '--tag', 'x', 'y', '--anyfield', 'value'], variables=[]))
```

DEBUG: quantumclient.quantum.client we are using client: quantumclient.v2\_0.client.Client

DEBUG: quantumclient.client REQ: curl -i http://localhost:9696/v2.0/networks.json -X POST -H

"User-Agent: python-quantumclient" -H "Content-Type: application/json" -H "Accept:

application/json" -H "X-Auth-Token: ADMIN"

DEBUG: quantumclient.client REQ BODY: {"network": {"anyfield": "value", "tag": ["x", "y"], "op\_status": "DOWN", "name": "test12", "admin\_state\_up": true}}

DEBUG: quantumclient.client RESP: {'date': 'Thu, 07 Jun 2012 02:13:26 GMT', 'status': '201', 'content-length': '139', 'content-type': 'application/json'}

DEBUG: quantumclient.client RESP BODY: {"network": {"subnets": [], "op\_status": "ACTIVE", "id": "c6aa7ab3-1d4e-4917-b41d-f3c741d9b788", "name": "test12", "admin\_state\_up": true}}

Created a new Virtual Network:

```

+-----+-----+
| Field    | Value                                |
+-----+-----+
| admin_state_up | True                                |
| id          | c6aa7ab3-1d4e-4917-b41d-f3c741d9b788 |
| name       | test12                                |
| op_status  | ACTIVE                                |
| subnets   | []                                     |
+-----+-----+

```

DEBUG: quantumclient.shell clean\_up CreateNetwork

Note:

1. we can see that the the last part of command line '--op\_status DOWN --tag x y --anyfield value' is converted into res body.
2. we must put extra fields to the end of the command line.
3. we can create network for other tenant by the option --tenant-id

## List nets

### Usage

```
# quantumv2 list_nets -h
usage: quantumv2 list_nets [-h] [-f {csv,html,json,table,yaml}] [-c COLUMN]
      [--quote {all,minimal,none,nonnumeric}]
      [--request-format {json,xml}] [-D]
      ...
```

List networks that belong to a given tenant Sample: list\_nets -D --name=test4 --tag a b

positional arguments:

filter\_specs filters options: --field1 [type=int|bool|...] value  
[--field2 [type=int|bool|...] value ...]

optional arguments:

-h, --help show this help message and exit  
--request-format {json,xml}  
the xml or json request format  
-D, --show-details show detailed info

output formatters:

output formatter options

-f {csv,html,json,table,yaml}, --format {csv,html,json,table,yaml}  
the output format to use, defaults to table  
-c COLUMN, --column COLUMN  
specify the column(s) to include, can be repeated

CSV Formatter:

--quote {all,minimal,none,nonnumeric}  
when to include quotes, defaults to nonnumeric

## List network without extra field

```
# quantumv2 list_nets
+-----+-----+
| id                | name  |
+-----+-----+
| 097dbe2e-11ef-4e96-8b8a-56390232a179 | test9  |
| 214d622d-0850-4a20-b1bb-242bb1fbf3f9 | test11 |
| 41c27b8e-d67c-47cb-abba-3239e1d66ddd | test10 |
| 4825fd5f-5959-4a1b-94c7-128452e97ff8 | test6  |
| 5ca42d78-a5e5-495b-b6de-96abc2b4420e | test8  |
| 5e61de4c-ee6f-4a22-a495-25aa7a43d5a2 | test6  |
| 6c3df337-b585-4c0f-b80e-e47a56bdad83 | test7  |
| 73af0539-7b89-457b-9b12-c6c3690ae541 | test8  |
| 768f9cff-fa8e-460d-a656-c71dcfac6cad | test9  |
| 7a9e7a1c-343e-407b-9494-75a7a1f85456 | test8  |
| 9392879d-22d6-490e-a2b6-797384dda587 | test7  |
| a1bd80dc-c1a9-4857-961a-2993fa9a9c49 | newname |
| c6aa7ab3-1d4e-4917-b41d-f3c741d9b788 | test12 |
| d751d616-e02d-4b93-b821-2234463547fe | test5  |
| df205add-cd3c-407f-872a-fbbdb1f0da02 | test5  |
| e02c08c9-d685-4a6e-9518-cb078ffacbf1 | private3 |
| fec4871e-a393-413b-ab58-74f750c42c99 | test5  |
+-----+-----+
```

## List network with extra fields

```
# quantumv2 -v list_nets -D -- --tag x y --key1 value1 --intkey type=int 2
DEBUG: quantumclient.quantum.v2_0.network.ListNetwork get_data(Namespace(columns=[],
filter_specs=['-', '--tag', 'x', 'y', '--key1', 'value1', '--intkey', 'type=int', '2'], formatter='table',
quote_mode='nonnumeric', request_format='json', show_details=True))
DEBUG: quantumclient.quantum.client we are using client: quantumclient.v2_0.client.Client
DEBUG: quantumclient.quantum.v2_0.network.ListNetwork search options: {'key1': 'value1',
'tag': ['x', 'y'], 'intkey': 2}
DEBUG: quantumclient.client REQ: curl -i
http://localhost:9696/v2.0/networks.json?key1=value1&tag=x&tag=y&verbose=True&intkey=2 -X
GET -H "User-Agent: python-quantumclient" -H "Content-Type: application/json" -H "Accept:
application/json" -H "X-Auth-Token: ADMIN"

DEBUG: quantumclient.client RESP: {'date': 'Thu, 07 Jun 2012 02:19:33 GMT', 'status': '200',
'content-length': '2182', 'content-type': 'application/json', 'content-location':
'http://localhost:9696/v2.0/networks.json?key1=value1&tag=x&tag=y&verbose=True&intkey=2'}
```

```

DEBUG: quantumclient.client RESP BODY:{"networks": [{"subnets": [], "op_status": "DOWN",
"id": "097dbe2e-11ef-4e96-8b8a-56390232a179", "name": "test9", "admin_state_up": true},
{"subnets": [], "op_status": "ACTIVE", "id": "214d622d-0850-4a20-b1bb-242bb1bf3f9", "name":
"test11", "admin_state_up": true}, {"subnets": [], "op_status": "ACTIVE", "id":
"41c27b8e-d67c-47cb-abba-3239e1d66ddd", "name": "test10", "admin_state_up": true},
{"subnets": [], "op_status": "ACTIVE", "id": "4825fd5f-5959-4a1b-94c7-128452e97ff8", "name":
"test6", "admin_state_up": true}, {"subnets": [], "op_status": "ACTIVE", "id":
"5ca42d78-a5e5-495b-b6de-96abc2b4420e", "name": "test8", "admin_state_up": false},
{"subnets": [], "op_status": "ACTIVE", "id": "5e61de4c-ee6f-4a22-a495-25aa7a43d5a2", "name":
"test6", "admin_state_up": true}, {"subnets": [], "op_status": "ACTIVE", "id":
"6c3df337-b585-4c0f-b80e-e47a56bdad83", "name": "test7", "admin_state_up": true},
{"subnets": [], "op_status": "ACTIVE", "id": "73af0539-7b89-457b-9b12-c6c3690ae541", "name":
"test8", "admin_state_up": false}, {"subnets": [], "op_status": "ACTIVE", "id":
"768f9cff-fa8e-460d-a656-c71dcfac6cad", "name": "test9", "admin_state_up": true}, {"subnets":
[], "op_status": "ACTIVE", "id": "7a9e7a1c-343e-407b-9494-75a7a1f85456", "name": "test8",
"admin_state_up": false}, {"subnets": [], "op_status": "ACTIVE", "id":
"9392879d-22d6-490e-a2b6-797384dda587", "name": "test7", "admin_state_up": true},
{"subnets": [], "op_status": "ACTIVE", "id": "a1bd80dc-c1a9-4857-961a-2993fa9a9c49", "name":
"newname", "admin_state_up": true}, {"subnets": [], "op_status": "ACTIVE", "id":
"c6aa7ab3-1d4e-4917-b41d-f3c741d9b788", "name": "test12", "admin_state_up": true},
{"subnets": [], "op_status": "ACTIVE", "id": "d751d616-e02d-4b93-b821-2234463547fe", "name":
"test5", "admin_state_up": true}, {"subnets": [], "op_status": "ACTIVE", "id":
"df205add-cd3c-407f-872a-fbbdb1f0da02", "name": "test5", "admin_state_up": true}, {"subnets":
[], "op_status": "ACTIVE", "id": "e02c08c9-d685-4a6e-9518-cb078ffacbf1", "name": "private3",
"admin_state_up": true}, {"subnets": [], "op_status": "ACTIVE", "id":
"fec4871e-a393-413b-ab58-74f750c42c99", "name": "test5", "admin_state_up": true}}}

```

```

+-----+-----+-----+-----+
| id           | name   | op_status | admin_state_up |
+-----+-----+-----+-----+
| 097dbe2e-11ef-4e96-8b8a-56390232a179 | test9  | DOWN     | True           |
| 214d622d-0850-4a20-b1bb-242bb1bf3f9   | test11 | ACTIVE   | True           |
| 41c27b8e-d67c-47cb-abba-3239e1d66ddd   | test10 | ACTIVE   | True           |
| 4825fd5f-5959-4a1b-94c7-128452e97ff8   | test6  | ACTIVE   | True           |
| 5ca42d78-a5e5-495b-b6de-96abc2b4420e   | test8  | ACTIVE   | False          |
| 5e61de4c-ee6f-4a22-a495-25aa7a43d5a2   | test6  | ACTIVE   | True           |
| 6c3df337-b585-4c0f-b80e-e47a56bdad83   | test7  | ACTIVE   | True           |
| 73af0539-7b89-457b-9b12-c6c3690ae541   | test8  | ACTIVE   | False          |
| 768f9cff-fa8e-460d-a656-c71dcfac6cad   | test9  | ACTIVE   | True           |
| 7a9e7a1c-343e-407b-9494-75a7a1f85456   | test8  | ACTIVE   | False          |
| 9392879d-22d6-490e-a2b6-797384dda587   | test7  | ACTIVE   | True           |
| a1bd80dc-c1a9-4857-961a-2993fa9a9c49   | newname | ACTIVE   | True           |

```

```

| c6aa7ab3-1d4e-4917-b41d-f3c741d9b788 | test12 | ACTIVE | True |
| d751d616-e02d-4b93-b821-2234463547fe | test5 | ACTIVE | True |
| df205add-cd3c-407f-872a-fbbdb1f0da02 | test5 | ACTIVE | True |
| e02c08c9-d685-4a6e-9518-cb078ffacbf1 | private3 | ACTIVE | True |
| fec4871e-a393-413b-ab58-74f750c42c99 | test5 | ACTIVE | True |

```

```

+-----+-----+-----+-----+

```

DEBUG: quantumclient.shell clean\_up ListNetwork

Note:

1. extra field can have python built in type.
2. list\_net should use '--' pseudo argument before extra field
3. the extra fields are appended to GET URL

## Update network

### Usage

```
# quantumv2 update_net -h
```

```
usage: quantumv2 update_net [-h] [--request-format {json,xml}] net-id ...
```

Update network's information Sample: update\_net <net\_id> --name=test  
--admin\_state\_up type=bool True

positional arguments:

```

net-id          ID of network to update
value_specs     new values for the network--field1 [type=int|bool|...]
                value [--field2 [type=int|bool|...] value ...]

```

optional arguments:

```

-h, --help      show this help message and exit
--request-format {json,xml}
                the xml or json request format

```

### Update network

```
# quantumv2 -v update_net 097dbe2e-11ef-4e96-8b8a-56390232a179 --name test9_0
```

```
--op_status=ACTIVE --admin_state_up type=bool false --tag xx yy a=b --anykey value
```

```
DEBUG: quantumclient.quantum.v2_0.network.UpdateNetwork
```

```
run(Namespace(net_id='097dbe2e-11ef-4e96-8b8a-56390232a179', request_format='json',
value_specs=['--name', 'test9_0', '--op_status=ACTIVE', '--admin_state_up', 'type=bool', 'false',
'--tag', 'xx', 'yy', 'a=b', '--anykey', 'value']))
```

```
DEBUG: quantumclient.quantum.client we are using client: quantumclient.v2_0.client.Client
```

```
DEBUG: quantumclient.client REQ: curl -i
http://localhost:9696/v2.0/networks/097dbe2e-11ef-4e96-8b8a-56390232a179.json PUT -H
"User-Agent: python-quantumclient" -H "Content-Type: application/json" -H "Accept:
application/json" -H "X-Auth-Token: ADMIN"
```

```
DEBUG: quantumclient.client REQ BODY: {"network": {"name": "test9_0", "op_status":
"ACTIVE", "admin_state_up": false, "anykey": "value", "tag": ["xx", "yy", "a=b"], "id":
"097dbe2e-11ef-4e96-8b8a-56390232a179"}}
```

```
DEBUG: quantumclient.client RESP: {'date': 'Thu, 07 Jun 2012 02:25:32 GMT', 'status': '200',
'content-length': '141', 'content-type': 'application/json'}
```

```
DEBUG: quantumclient.client RESP BODY: {"network": {"subnets": [], "op_status": "ACTIVE",
"id": "097dbe2e-11ef-4e96-8b8a-56390232a179", "name": "test9_0", "admin_state_up": false}}
```

Updated Network: 097dbe2e-11ef-4e96-8b8a-56390232a179

```
DEBUG: quantumclient.shell clean_up UpdateNetwork
```

Note:

1. This command use extra fields feature to specify the values. This way, we can specify any key value pairs to update a network
2. the information are converted into req body.
3. multiple values for a certain key is stored into a list

## Delete network

### usage

```
# quantumv2 delete_net -h
```

```
usage: quantumv2 delete_net [-h] [--request-format {json,xml}] net-id
```

Delete a given network Sample: delete\_net <net\_id>

positional arguments:

net-id ID of network to delete

optional arguments:

-h, --help show this help message and exit

--request-format {json,xml}

the xml or json request format



## Delete a network sample

```
# quantumv2 -v delete_net d751d616-e02d-4b93-b821-2234463547fe
DEBUG: quantumclient.quantum.v2_0.network.CreateNetwork
run(Namespace(net_id='d751d616-e02d-4b93-b821-2234463547fe', request_format='json'))
DEBUG: quantumclient.quantum.client we are using client: quantumclient.v2_0.client.Client
DEBUG: quantumclient.client REQ: curl -i
http://localhost:9696/v2.0/networks/d751d616-e02d-4b93-b821-2234463547fe.json DELETE -H
"User-Agent: python-quantumclient" -H "Content-Type: application/json" -H "Accept:
application/json" -H "X-Auth-Token: ADMIN"
```

```
DEBUG: quantumclient.client RESP: {'date': 'Thu, 07 Jun 2012 02:30:34 GMT', 'status': '204',
'content-length': '4'}
```

```
DEBUG: quantumclient.client RESP BODY:
```

```
Deleted Network: d751d616-e02d-4b93-b821-2234463547fe
```

```
DEBUG: quantumclient.shell clean_up DeleteNetwork
```

### Note:

1. unlike other command, delete\_net has no extra fields feature.