



How to configure API & CLI access for mCloud

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Overview

This guide contains an overview of how you can use the OpenStack CLI client with the API services in your mCloud Dashboard.

Method

Prerequisite: In order to access the mCloud API or CLI, you must provide Micron21 a static IP address that you will be accessing from. [You can do this by contacting our support team.](#)

Once you have provided your static IP, you will be provided with a specific API-enabled user.

Installing and configuring the OpenStack CLI Client

1. Using the link below, Install the OpenStack CLI client on your preferred workstation
 1. <https://docs.openstack.org/newton/user-guide/common/cli-install-openstack-command-line-clients.html>
2. Log into your mCloud Dashboard (<https://mcloud.micron21.com>)
3. At the top right, click your user, then click "OpenStack RC file" and save/copy the contents of the file to your workstation.
4. When you want to use the client, load the RC file by running "source admin-openrc.sh" or "source project-name-openrc.sh" as required and enter your user's password when you are prompted for credentials
5. You can now use the OpenStack CLI client via the API
 1. Note: Each time you create a new session (terminal, ssh, etc) you will need to re-run the source command to load the environment variables.

Issuing a custom keystone token

Sometimes when making changes via CLI or Postman/curl and testing, you will need an authentication token.

Once you have set up your OpenStack client, you can issue a token, example below:

```
# openstack token issue
```

```
+-----+-----+
| Field          | Value                                |
```

```
+-----+-----+
| expires | 2024-11-14T10:02:55+0000 |
| id      | { HERE WILL BE YOUR TOKEN} |
| project_id | cb58ecXXXXXXXXXXXXXXXXXXXX38e06 |
| user_id  | 5c9495XXXXXXXXXXXXXXXXXXXXfcd50 |
+-----+-----+
```

You can also curl directly against Keystone, with a few more arguments. More information from the official documentation:

https://docs.openstack.org/keystone/latest/api_curl_examples.html

Once added, you can use that token when issuing Curl commands.

Using a custom keystone token against an API endpoint

Here's an example of using a token against the Octavia Load Balancer Service API endpoint.

```
curl -g -i -X GET
https://mcloud.micron21.com:9876/v2.0/lbaas/loadbalancers -H "Accept:
application/json" -H "User-Agent: openstacksdk/3.0.0
keystoneauth1/5.6.0 python-requests/2.31.0 CPython/3.12.3" -H "X-
Auth-Token: { HERE PUT YOUR TOKEN }"
```

e.g.

```
curl -g -i -X GET
https://mcloud.micron21.com:9876/v2.0/lbaas/loadbalancers -H "Accept:
application/json" -H "User-Agent: openstacksdk/3.0.0
keystoneauth1/5.6.0 python-requests/2.31.0 CPython/3.12.3" -H "X-
Auth-Token: gAAAXXXXXXXXXXXXXXXXXXXXXXatbj0j8ZRoWhsK-
g4l6Ky7zXJfiPQqDdYje6y-Y2nPQBefh3Rfezlk3zc0-
CFwFZfUHVfuWXXXXXXXXXXXXXXXXXXXXXuvCpqHhmtvXWpnr-
x0yguLB_sWXXXXXXXXXXXXXXXXXoS-Q6yfZSTncXMYjxraTN0"
```

returns:

HTTP/2 200

date: Wed, 13 Nov 2024 23:20:56 GMT

server: Apache/2.4.52 (Ubuntu)

x-openstack-request-id: req-7998fd45-e91e-4b6e-8c4c-8759152821cd

content-type: application/json

content-length: 48

```
{"loadbalancers": [], "loadbalancers_links": []}
```

Keystone and API flowchart image example

