



How to configure up API access for mCloud

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

Method

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: gAAAXXXXXXXXXXXXXXXXXXXXXXXXXXatbj0j8ZR0WhsK-
g416Ky7zXJfiPQqDdYje6y-Y2nPQBefh3Rfezlk3zc0-
CFwFZfUHvfUwXXXXXXXXXXXXXXXXXXXXXXXXXuvCpqHhmtvXWpnr-
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

