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## 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. <u>You can do this by contacting our support team.</u>

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. <u>https://docs.openstack.org/newton/user-guide/common/cli-install-openstack-command-line-client</u> <u>s.html</u>
- 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 to	oken issue	L
ļ	Field	Value	
	expires id	2024-11-14T10:02:55+0000 { HERE WILL BE YOUR TOKEN}	

You can also curl directly against Keystone, with a few more arguments. More information from the official documentation: <u>https://docs.openstack.org/keystone/latest/api\_curl\_examples.html</u>

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.

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**

