

# Accessing the OpenStack's Horizon Dashboard

## To launch OpenStack and access Dashboard

1. Launch the VM and sign in as **dcitstudent** (Password: **dcitstudent**). The OpenStack services launch automatically.
2. On the host machine, sign in to dashboard using a browser (<http://localhost:8081/dashboard/auth/login>) as username **admin** (password: **Secret**)

## “Connection Failed” Message at login

### ConnectionFailed at /project/

Connection to neutron failed: HTTPConnectionPool(host='127.0.0.1', port=9696): Max retries exceeded with url: //v2.0/extensions (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7fbc3d8e0940>: Failed to establish a new connection: [Errno 111] Connection refused'))

```
Request Method: GET
Request URL: http://localhost:8081/dashboard/project/
Django Version: 2.2.24
Exception Type: ConnectionFailed
Exception Value: Connection to neutron failed: HTTPConnectionPool(host='127.0.0.1', port=9696): Max retries exceeded with url: //v2.0/extensions (Caused by
NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7fbc3d8e0940>: Failed to establish a new connection: [Errno 111] Connection refused'))
Exception Location: /usr/local/lib/python3.8/dist-packages/neutronclient/client.py in _cs_request, line 114
Python Executable: /usr/bin/python3
Python Version: 3.8.10
Python Path: ['/opt/stack/horizon',
              '/opt/stack/horizon',
              '/opt/stack/keystone',
              '/opt/stack/swift',
              '/opt/stack/glance',
              '/opt/stack/cinder',
              '/opt/stack/neutron',
              '/opt/stack/nova',
              '/opt/stack/placement',
              '/opt/stack/horizon',
              '/opt/stack/tempest',
              '/usr/lib/python3.8.zip',
              '/usr/lib/python3.8',
              '/usr/lib/python3.8/lib-dynload',
              '/usr/local/lib/python3.8/dist-packages',
              '/usr/lib/python3/dist-packages',
              '/opt/stack/horizon/openstack_dashboard']
Server time: Fri, 15 Oct 2021 17:28:02 +0000
```

Most probable cause is that all services are not yet running. This can be resolved by waiting a while before refreshing and attempting to log in again.

## Running Operations from the Server

Before running any command-line OpenStack commands

1. On the VM, sign in as stack user by running command **sudo su - stack** (you will need to re-enter **dcitstudent** password)
2. Change directory to “devstack” by running command **cd devstack**
3. Run command **source demo-openrc.sh** (otherwise you get a “Missing value auth-url required for auth plugin password” error)
4. You will be prompted for the dashboard password (password: **Secret**)
5. You are now authorised to make **openstack** commands on the VM

## Troubleshooting

### Checking the Status of OpenStack Services

NOTE: do not run the following commands unless you have run **source demo-openrc.sh** in the same session.

1. Run the command **sudo systemctl status devstack@\***
2. You can navigate the list with the arrow keys. Return to the normal console by pressing **q**.

### Cannot Launch an Instance or Create a Volume

NOTE: do not run the following commands unless you have run **source demo-openrc.sh** in the same session.

To view volume service status:

1. Run the command **openstack volume service list**

Binary	Host	Zone	Status	State	Updated At
cinder-scheduler	dcit-ubuntu	nova	enabled	up	2021-10-15T16:05:43.000000
cinder-volume	dcit-ubuntu@lvmdriver-1	nova	enabled	down	2021-10-15T16:02:46.000000

2. If cinder-volume state is down,
  - a. run the command **sudo systemctl restart devstack@c-vol.service**

3. If cinder-volume state goes down continuously,
  - a. run the command **sudo losetup -f /opt/stack/data/stack-volumes-lvmdriver-1-backing-file**
  - b. Run the command **sudo systemctl restart devstack@\***
  - c. **NOTE:** If restart fails due to any member service of devstack entering an error state, attempt to restart it using the command **sudo systemctl stop devstack@<service\_name>** followed by **sudo systemctl start devstack@<service\_name>**. If the error persists, it may be necessary to reboot the VM and repeat from Step 1.

## Restarting All OpenStack Services

1. Run the command **sudo systemctl restart devstack@\***
2. **NOTE:** If logged into the Horizon dashboard while restarting OpenStack services, you will be redirected to the login screen.