

Testing OpenStack

DevStack

Testing against OpenStack can be aided by running [DevStack](#), a documented shell script to build complete OpenStack development environments. Once you have DevStack installed and configured you can run the jclouds' live tests against it.

One example of getting DevStack up and running easily can be found at the [Deploying a DevStack environment](#) guide.

Neutron

Configure

The following changes have to be made to the neutron policy.json (/opt/stack/neutron/etc/policy.json):

```
create_network:router:external
get_network:provider:network_type
create_network:provider:network_type
update_network:provider:network_type
```

should not be be rule:admin_only (leave empty instead). Alternatively, run using the devstack admin login.

Run

```
mvn clean install -Plive "-Dtest.openstack-neutron-legacy.endpoint=http://my.ip.v4.address:5000/v2.0" "-Dtest.openstack-neutron.endpoint=http://localhost:5000/v2.0" "-Dtest.openstack-neutron.identity=demo:demo" "-Dtest.openstack-neutron-legacy.identity=demo:demo" "-Dtest.openstack-neutron.credential=devstack" "-Dtest.openstack-neutron-legacy.credential=devstack"
```

Clean Up

Run these commands inside the [DevStack](#) instance itself to clean up any resources left over from failed tests.

```
source openrc demo demo
neutron port-list | awk '{print $2}' | xargs -I{} neutron port-delete "{}"
neutron subnet-list | awk '{print $2}' | xargs -I{} neutron subnet-delete "{}"
neutron net-list | awk '{print $2}' | xargs -I{} neutron net-delete "{}"
```

Heat

Run

```
mvn clean install -Plive -Dtest.openstack-heat.identity=<username> -Dtest.openstack-heat.credential=<password> -Dtest.openstack-heat.endpoint=<endpoint>
```