Linux Academy
Live! Lab

Creating Projects, Users and Roles

Contents

Related Courses

OpenStack Foundation Certified OpenStack Administrator

Related Videos

Manage/Create Projects, Users and Roles

Create Roles and Rules for the Environment

Need Help?

Linux Academy Community

... and you can always send in a support ticket on our website to talk to an instructor!

Lab Connection Information

- Labs may take up to five minutes to build

- Access to the Horizon Dashboard is provided on the Live! Lab page, along with your login credentials

- SSH information is provided on the Live! Lab page

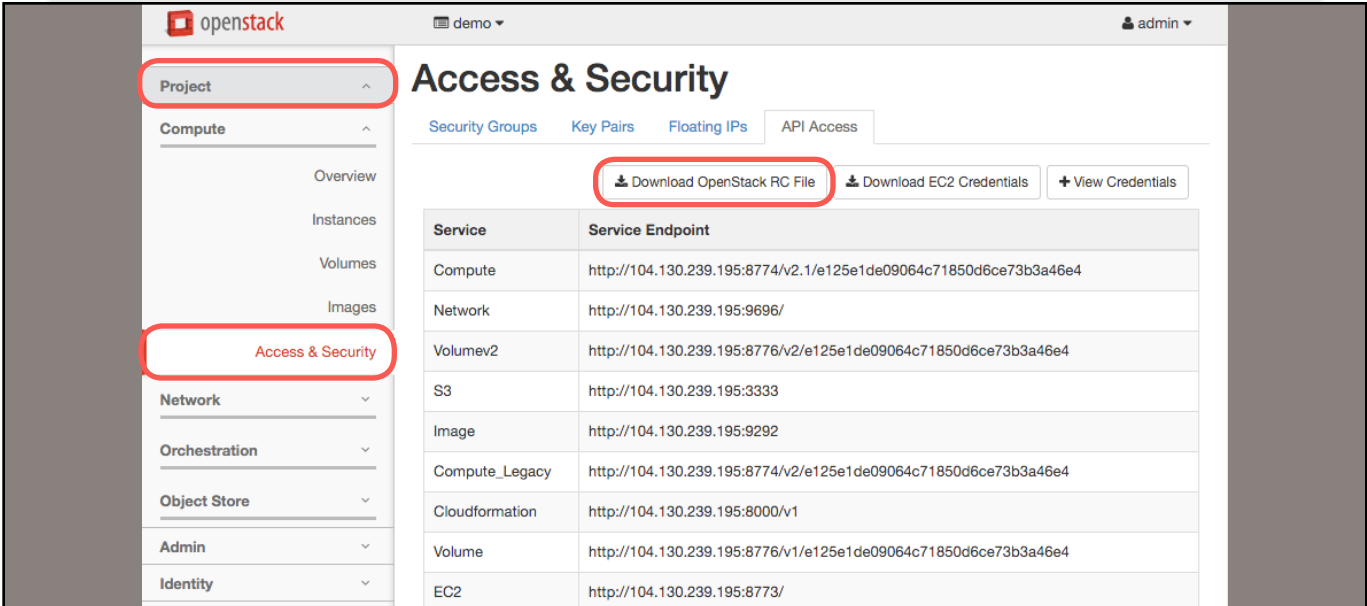- Labs will automatically end once the alloted amount of time finishes

Introduction

In this lab, we walk through using the OpenStack API to create a new user, project, and role. We also briefly explore the Horizon Dashboard.

Begin by logging into the instance using the **SSH Details** on the Live! Lab page. In your browser, open the **Horizon Portal**, also located on the Live! Lab page. Log in as *admin*.

Create an Administrative RC

From the **Horizon Dashboard**, navigate to **Project** on the left menu. Select **Access & Security**.

Click on the **API Access** tab, and select **Download OpenStack RC File**. Open the file in your text editor of choice to view.

From your terminal, while still logged on to your OpenStack server, copy the file to your home directory using whatever method you choose. You can either copy and paste the contents of the file itself, or use `scp` to copy the file up to your server. The file should be called *admin.rc*.

Source the file:

```
root@openstack:~# source admin.rc
```

You are asked to enter your OpenStack password. Input your password. Once successful, you will have administrator access to your OpenStack environment.

Create a New Project

List your available projects:

```
root@openstack:~# openstack project list
+----------------------------------+------------------+
| ID                               | Name             |
+----------------------------------+------------------+
| 46abfef9bd5141b3b6fced1f9f26f475 | swifttenanttest1 |
| b598327577eb4610afecd8cea611699f | service          |
| d38702e2375c4d66a9765d453b3b290f | swifttenanttest2 |
| e02321cc13944ea8be82a37853661549 | invisible_to_admin |
| e125e1de09064c71850d6ce73b3a46e4 | demo             |
| ff7d84631c7e4071ab7957f8ac92814d | admin            |
+----------------------------------+------------------+
```

Create a new project:

```
root@openstack:~# openstack project create --description "New Project" new-project
+-------------+----------------------------------+
| Field       | Value                            |
+-------------+----------------------------------+
| description | New Project                      |
| enabled     | True                             |
| id          | 31252a98f9a048da9bc89ded8bcbe8f2 |
| name        | new-project                      |
+-------------+----------------------------------+
```

The text in quotes (`"New Project"`) after the `--description` flag is the description of the project. `new-project`, at the end, is the project name.

Create and Add User to Project

View your current users:

```
root@openstack:~# openstack user list
+----------------------------------+----------------+
| ID                               | Name           |
+----------------------------------+----------------+
| 213ed33665dc4bf0b43df40a4d45607f | neutron        |
| 2cb30ee240e94a1992c979ae0f30cc82 | admin          |
| 2fc5924226dc4c08a543796499fa0c45 | swift          |
| 3299fa4c5e5f422585f82f70c8566c48 | glance         |
| 374cd7da7d0d4686b7c4b7d3e1fbda2e | swiftusertest2 |
| 654fbad23a3d46a5a9801483c90c3c66 | heat           |
| 664ffe17428b4208804c5c236a8e01d8 | demo           |
| 7323530fd5ae43e7b87af518d54a692a | nova           |
| 899f38e5c1da4fa4ac558851cf93e13a | cinder         |
| 8b1b2c4b4d9c47b8ab3d90862a333516 | swiftusertest1 |
```

```
| 8e0d2e81e9924a29aa0a700264896639 | glance-swift  |
| aa427755e0d545c59b66681c2bc5b338 | swiftusertest3 |
+----------------------------------+---------------+
```

These are primarily users that are used by services; the service name is the name of the user.

Create a user and specify which project they need to be added to:

```
root@openstack:~# openstack user create --project new-project --password openstack new-
user
+------------+----------------------------------+
| Field      | Value                            |
+------------+----------------------------------+
| email      | None                             |
| enabled    | True                             |
| id         | 221fe621dbaa4fa1aae31a4d12385ea6 |
| name       | new-user                         |
| project_id | 31252a98f9a048da9bc89ded8bcbe8f2 |
| username   | new-user                         |
+------------+----------------------------------+
```

The flag `--project` denotes the project we are assigning the user to (*new-project*), and the `--password` flag denotes the password; in this example we used *openstack* as the password. `new-user` is the name of the new user.

Create Role and Add User to Role

View the currently available roles:

```
root@openstack:~# openstack role list
+----------------------------------+----------------+
| ID                               | Name           |
+----------------------------------+----------------+
| 13baaf3309f04bbf863ba94f40d6acca | heat_stack_user |
| 9a2a3f439c454862b92a78ab3d47bf8a | anotherrole    |
| 9fe2ff9ee4384b1894a90878d3e92bab | _member_       |
| a6aa3bd84bcf4098b454f4fb60306add | Member         |
| ce3e18b72bb346748c4db6a11ad8847c | admin          |
| d4b9d2d6e4614caea6cca7e90a374b4d | service        |
| d7bc1ffe8e684aaab6c3e4625acda861 | ResellerAdmin  |
+----------------------------------+----------------+
```

Create a role for the new user, with `new-role` being the role name:

```
root@openstack:~# openstack role create new-role
+-------+----------------------------------+
| Field | Value                            |
+-------+----------------------------------+
```

```
| id    | 727c3c307ba24c72b10539ac4e5c522c |
| name  | new-role                         |
+-------+----------------------------------+
```

To add the role to the user and project, we need to know the ID of the project. Once more list your project, and copy the **ID** of the *new-project* project; this is a long string of letters and numbers.

```
root@openstack:~# openstack project list
```

Add the role:

```
root@openstack28032016-175702:~# openstack role add --user new-user --project
31252a98f9a048da9bc89ded8bcbe8f2 new-role
+-------+----------------------------------+
| Field | Value                            |
+-------+----------------------------------+
| id    | 727c3c307ba24c72b10539ac4e5c522c |
| name  | new-role                         |
+-------+----------------------------------+
```

Notice, again, how for the --project flag the project ID is input and not the project name. Remember to replace the project number above with your own.

Confirm the assignment:

```
root@openstack:~# openstack role list --user new-user --project
31252a98f9a048da9bc89ded8bcbe8f2
+----------------------------------+----------+-------------+----------+
| ID                               | Name     | Project     | User     |
+----------------------------------+----------+-------------+----------+
| 9fe2ff9ee4384b1894a90878d3e92bab | _member_ | new-project | new-user |
| 727c3c307ba24c72b10539ac4e5c522c | new-role | new-project | new-user |
+----------------------------------+----------+-------------+----------+
```
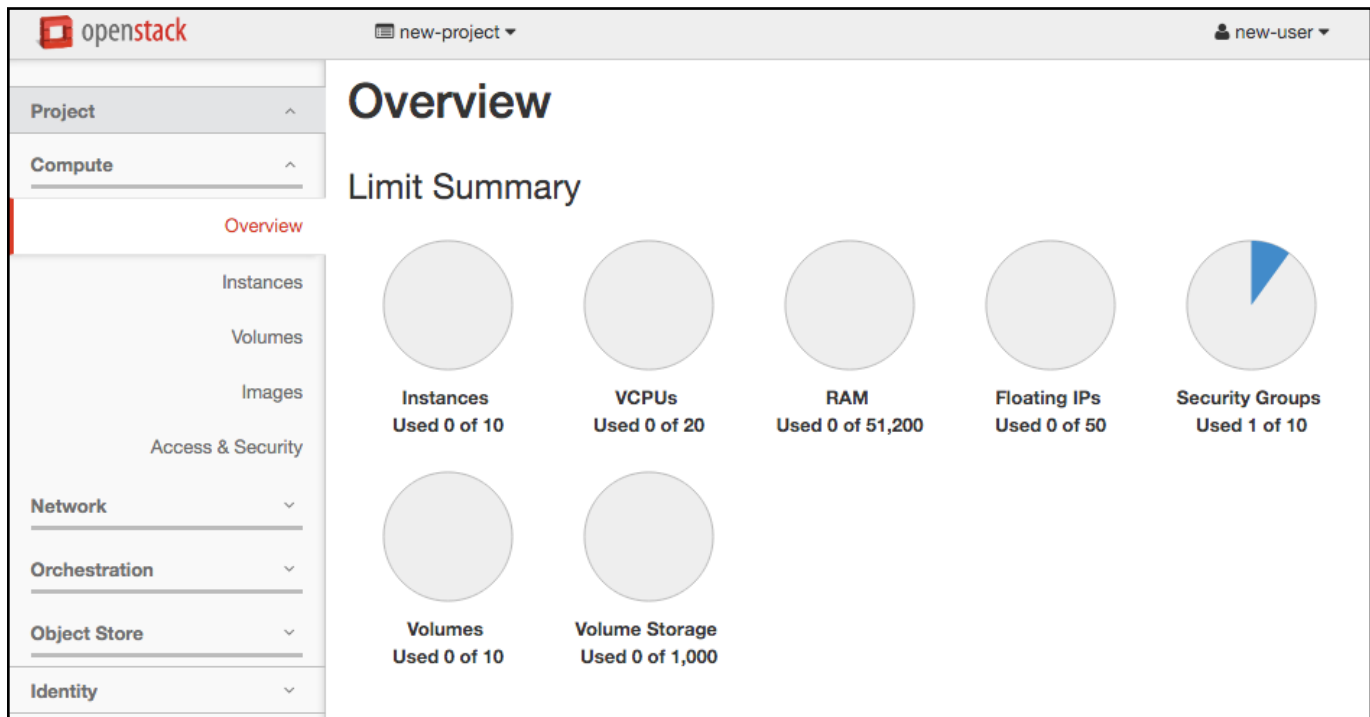
You can also retrieve information on the role itself using:

```
root@openstack:~# openstack role show new-role
+-------+----------------------------------+
| Field | Value                            |
+-------+----------------------------------+
| id    | 727c3c307ba24c72b10539ac4e5c522c |
| name  | new-role                         |
+-------+----------------------------------+
```

Log in to the Dashboard

Return to the Horizon Dashboard, and log out as *admin*. Log in as the *new-user* user, using the credentials you created.