Launching instances using Horizon portal

- Login to your portal.
- http://screencast.com/t/a1mnHDaUK Follow this screencast to create a network, subnet, instance, and associate a floating IP. All of these are important to start your instance.
- For ssh-ing into your instance you just created, you will need to create a key pair. Give it a name "<yourname>-cloud". Download this pem file, put it under ~./ssh folder and make sure you change permissions to 400 using chmod. Use the command "**ssh <path-to-pem file> ubuntu@<ipoftheinstance>**"

Installing and configuring devstack to work with MOC

- Create a VM with at least 20GB of virtual disk space.
- Install git
- Use git clone to clone the devstack on the VM()
- Run ./stack.sh to install devstack after cd-ing to devstack folder you just cloned
- Follow the instructions, you will be prompted to create passwords for databases, queues. Give a common password for now.The process should take at least 10-15 mins.
- After devstack is installed, you can login to your portal on openstack, navigate to "Access and Security tab". There is an option to download the OpenStack.sh file for our project.
- Place this file in your devstack folder. Make sure your username and other parameters are consistent.
- Run this file using "source <filename>". This basically prepares your environment variables which will be used to interact with the openstack APIs. It should prompt you for a password, enter your openstack portal password.
- Run "nova list" after running the above command. The command should execute without any error. Also, if you have already created an instance on the Horizon portal, the instance should be listed in the output of the above command.

Launching an instance through nova:

Once the devstack is installed and you've made sure nova is working fine on the VM.

- Run "**nova image-list**" to get all the images
- Choose one of the images, more specifically the ID of the image
- Run "**nova flavor-list**" to get all the flavors supported on the cloud
- Choose one of the flavors, more specifically the ID of the flavor
- **nova boot –image <image id or name> --flavor <flavor id or name> <instanceName>**
- Found this guide really helpful, you can create networks, subnets, volumes etc. using the apis mentioned in the guide for Neutron, Swift, Glance, Cinder.