

## Openstack Installation

### Add your user

We need to add a user to install DevStack. (if you created a user during install you can skip this step and just give the user sudo privileges below)

```
adduser stack
```

Since this user will be making many changes to your system, it will need to have sudo privileges:

```
apt-get install sudo -y || yum install -y sudo  
echo "stack ALL=(ALL) NOPASSWD: ALL" >> /etc/sudoers
```

From here on you should use the user you created. **Logout** and **login** as that user.

### Download DevStack

We'll grab the latest version of DevStack via https:

```
sudo apt-get install git -y || sudo yum install -y git  
git clone https://git.openstack.org/openstack-dev/devstack  
cd devstack
```

### Run DevStack

Now to configure stack.sh. DevStack includes a sample in devstack/samples/local.conf. Create local.conf as shown below to do the following:

- Set FLOATING\_RANGE to a range not used on the local network, i.e. 192.168.1.224/27. This configures IP addresses ending in 225-254 to be used as floating IPs.
- Set FIXED\_RANGE and FIXED\_NETWORK\_SIZE to configure the internal address space used by the instances.

- Set FLAT\_INTERFACE to the Ethernet interface that connects the host to your local network. This is the interface that should be configured with the static IP address mentioned above.
- Set the administrative password. This password is used for the **admin** and **demo** accounts set up as OpenStack users.
- Set the MySQL administrative password. The default here is a random hex string which is inconvenient if you need to look at the database directly for anything.
- Set the RabbitMQ password.
- Set the service password. This is used by the OpenStack services (Nova, Glance, etc) to authenticate with Keystone.

*local.conf* should look something like this:

```
[[local|localrc]]
FLOATING_RANGE=192.168.1.224/27
FIXED_RANGE=10.11.12.0/24
FIXED_NETWORK_SIZE=256
FLAT_INTERFACE=eth0
ADMIN_PASSWORD=supersecret
DATABASE_PASSWORD=iheartdatabases
RABBIT_PASSWORD=flopsymopsy
SERVICE_PASSWORD=iheartksl
SERVICE_TOKEN=xyzpdqlazydog
```

### Run DevStack:

```
./stack.sh
```

In browser give your machines ip ***http://<ip Address>***

### Re-Starting Openstack

```
./rejoin.sh
```