

Install Instructions for DevStack

Create your own OpenStack cloud inside of a VirtualBox VM

- You should have already procured a VM in Virtualbox with Centos 7 loaded.
- SSH into your new VM as root or as a provisioned user
- You will need to add the stack user to the Centos system and give it sudoers permissions.

```
$ sudo useradd -s /bin/bash -d /opt/stack -m stack
```

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

```
$ echo "stack ALL=(ALL) NOPASSWD: ALL" | sudo tee  
/etc/sudoers.d/stack  
$ sudo su - stack
```

Download the latest DevStack code

```
$ sudo su - stack (if you didn't do it in the last step)  
$ sudo yum install git -y  
$ git clone https://git.openstack.org/openstack-dev/devstack  
$ cd devstack
```

- The **DevStack** directory now contains all of the scripts and templates for configuring and installing **DevStack (Stein version)**. **Woot Woot Beta!!**

Configure DevStack

- In order to seed the installation with some basic information a few configuration parameters need to be specified in local.conf. The first four are passwords that the installer will use for internal credentials and the HOST_IP is the external IP address of your Linux system you are using as the host. Everyone's IP should be 10.0.2.15 in Virtualbox unless you changed it.

```
$ vi /opt/stack/devstack/local.conf
```

```
[[local|localrc]]  
ADMIN_PASSWORD=secret  
DATABASE_PASSWORD=$ADMIN_PASSWORD  
RABBIT_PASSWORD=$ADMIN_PASSWORD  
SERVICE_PASSWORD=$ADMIN_PASSWORD  
HOST_IP=10.0.2.15
```

Start the installation

```
$ ./stack.sh
```

- The automated installation will start and will run until it is completely finished.

Collect host information at the end of the install

- You should see something similar to the following at the end of the install (20-30 min):

```
$ This is your host IP address: 10.0.2.15  
$ This is your host IPv6 address: ::1  
$ 2019-03-01 18:39:27.058 | stack.sh completed in 1149 seconds.
```

In order to have Horizon access from your desktop, stop Iptables for now

```
$ sudo systemctl stop iptables
```