Ex 8: Virtual Machine Creation in OpenStack Cloud Platform (Online)

Step 1: Switch to “root” user

user@vmub-hadoop1:~$ sudo su -

root@vmub-hadoop1:~# sudo apt-get update

Step 2: Install “git” and logout from “root user”

root@vmub-hadoop1:~# sudo apt-get install git

root@vmub-hadoop1:~# exit

logout

user@vmub-hadoop1:~$

Step 3: Create/Add a user “stack” with “no password”

user@vmub-hadoop1:~$ sudo useradd -s /bin/bash -d /opt/stack -m stack

user@vmub-hadoop1:~$ echo "stack ALL=(ALL) NOPASSWD: ALL" | sudo tee /etc/sudoers.d/stack

stack ALL=(ALL) NOPASSWD: ALL

Step 4: Move to “stack” user

user@vmub-hadoop1:~$ sudo su - stack

Step 5: Clone the “devstack” from the specified link

stack@vmub-hadoop1:~$ git clone https://github.com/openstack-dev/devstack

Cloning into 'devstack'...

remote: Enumerating objects: 49330, done.

remote: Counting objects: 100% (2556/2556), done.

remote: Compressing objects: 100% (836/836), done.

remote: Total 49330 (delta 1831), reused 2226 (delta 1709), pack-reused 46774

Receiving objects: 100% (49330/49330), 15.56 MiB | 2.33 MiB/s, done.

Resolving deltas: 100% (34462/34462), done.

Checking connectivity... done.

Step 6: Move to "/devstack/samples"

stack@vmub-hadoop1:~$ cd devstack

stack@vmub-hadoop1:~/devstack$ ls

clean.sh doc functions gate lib openrc roles stackrc tools

CONTRIBUTING.rst extras.d functions-common HACKING.rst LICENSE playbooks

run_tests.sh stack.sh tox.ini

data files FUTURE.rst inc Makefile README.rst **samples** tests

unstack.sh

stack@vmub-hadoop1:~/devstack$ cd samples

stack@vmub-hadoop1:~/devstack/samples$ ls

local.conf local.sh

Step 7: Copy "local.conf" file to "devstack"

stack@vmub-hadoop1:~/devstack/samples$ cp local.conf ../

stack@vmub-hadoop1:~/devstack/samples$ cd ..

stack@vmub-hadoop1:~/devstack$ ls

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stackrc tools

data files FUTURE.rst inc **local.conf** playbooks run_tests.sh stack.sh tox.ini

Step 8: Open "local.conf" and edit the lines

stack@vmub-hadoop1:~/devstack$ nano local.conf

ADMIN_PASSWORD=**p1**

DATABASE_PASSWORD=**p1**

RABBIT_PASSWORD=**p1**

SERVICE_PASSWORD=**p1**

HOST_IP=**10.0.2.4**

FLOATING_RANGE=**10.0.2.224/27**

Step 9: Remove the following files to Lock the error

stack@vmub-hadoop1:~/devstack$ sudo rm /var/lib/dpkg/lock

stack@vmub-hadoop1:~/devstack$ sudo rm /var/lib/apt/lists/lock

stack@vmub-hadoop1:~/devstack$ sudo rm /var/cache/apt/archives/lock

stack@vmub-hadoop1:~/devstack$ sudo rm -rf /var/lib/apt/lists/*

Step 10: To install stack

stack@vmub-hadoop1:~/devstack$ FORCE=yes ./stack.sh

```
                print a[2]
        }
    ' /opt/stack/devstack/local.conf
+./stack.sh:main:1489                       set +o xtrace

=========================
DevStack Component Timing
 (times are in seconds)
=========================
run_process              53
test_with_retry           2
apt-get-update            1
osc                     177
wait_for_service         21
dbsync                   56
pip_install             149
apt-get                   7
-------------------------
Unaccounted time        418
=========================
Total runtime           884



This is your host IP address: 10.128.0.8
This is your host IPv6 address: ::1
Horizon is now available at http://10.128.0.8/dashboard
Keystone is serving at http://10.128.0.8/identity/
The default users are: admin and demo
The password: StrongAdminSecret

WARNING:
Using lib/neutron-legacy is deprecated, and it will be removed in the future


Services are running under systemd unit files.
For more information see:
https://docs.openstack.org/devstack/latest/systemd.html

DevStack Version: train
Change: 16d11d27f375b8c027bbc3a1db1885e90ce6c604 Merge "Option "lock_path" from group "DEFAULT"
OS Version: Ubuntu 18.04 bionic

2019-06-04 12:19:19.207 | stack.sh completed in 884 seconds.
```

Accessing OpenStack on a web browser

To access OpenStack via a web browser browse your Ubuntu's IP address as shown.

https://server-ip/dashboard

This directs you to a login page as shown.