

## **EX NO: 10    Virtual Machine Creation in OpenStack Cloud Platform (Online)**

**ROLL NUMBER: 19UITE047**

### **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
clean.sh      doc      functions  gate     lib      Makefile  README.rst
samples  tests  unstack.sh
CONTRIBUTING.rst  extras.d  functions-common  HACKING.rst  LICENSE
openrc    roles    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.




openstack®

Log in

User Name

Password

Sign In

 openstack®

admin

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Admin

Identity

Project / Compute / Overview

Overview

Limit Summary

Compute

Instances

VCPUs

RAM

Volume

Volumes

Volume Snapshots

Volume Storage

Network



Instances  
Used 0 of 10



VCPUs  
Used 0 of 20



RAM  
Used 0Bytes of 50GB



Volumes  
Used 0 of 10



Volume Snapshots  
Used 0 of 10



Volume Storage  
Used 0Bytes of 1000GB

