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**EX.NO & DATE :08 / 01.11.22**

**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

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

Text

Description automatically generated

## 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.

Graphical user interface, application

Description automatically generated

Chart, bubble chart

Description automatically generated