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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 <a href="https://github.com/openstack-dev/devstack">https://github.com/openstack-dev/devstack</a>

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

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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
                                           set +o xtrace
DevStack Component Timing
(times are in seconds)
run process
test_with_retry
                       2
apt-get-update
                     177
wait_for_service
                      21
                      56
dbsync
pip install
apt-get
                      7
                     418
Unaccounted time
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.



