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SUBJECT:IT8711-FOSS and cloud computing laboratory

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
```

```

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

 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

Used 0 of 10

Used 0 of 20

Used 0Bytes of 50GB

Volume

Volumes

Volume Snapshots

Volume Storage

Used 0 of 10

Used 0 of 10

Used 0Bytes of 1000GB

Network