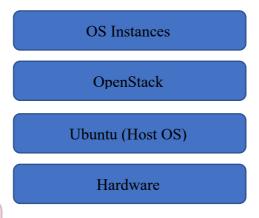
Hands on OpenStack using Devstack

What are we going to do?

- → Using a Personal Computer with 16GB of RAM , i5 7th Gen Processor, 500GB HDD
- → Installing Ubuntu 18 as host OS
- → Configuring OpenStack on it using DevStack scripts



STEP 1: INSTALLING THE HOST OS

- → Installing the Ubuntu 18.04.1 LTS (Bionic Beaver)
- → Other options include <u>Fedora</u>, <u>CentOS</u>, <u>Debian</u>
- → Create a bootable pen drive using Rufus(On Windows) or Etcher(On Mac OS)

Harshit Sharm

STEP 2: INSTALLING THE DEVSTACK

- → Open the terminal on Ubuntu
- → Create a separate stack user for Installation -

```
$ sudo useradd -s /bin/bash -d /opt/stack -m stack
```

→ Since this user will be making many changes to your system, it should have sudo privileges

```
$ echo "stack ALL=(ALL) NOPASSWD: ALL" | sudo tee
/etc/sudoers.d/stack
```

\$ sudo su - stack

→ Now download DevStack

\$ git clone https://git.openstack.org/openstackdev/devstack

\$ cd devstack

→ Create **local.conf** file inside devstack directory

\$ vi local.conf

(Now inside vi editor press I to go into insert mode)

Inside local.conf , type-

→

```
[[local|localrc]]
ADMIN_PASSWORD=secret
DATABASE_PASSWORD=$ADMIN_PASSWORD
RABBIT_PASSWORD=$ADMIN_PASSWORD
SERVICE PASSWORD=$ADMIN PASSWORD
```

(Now for saving press esc and type :wq and press enter/return)

Start the installation

\$./stack.sh

NOTE: The time taken by the installation process is dependent upon the internet speed.

What if error occurs during installation?

Error during installation occurs as a World Dumping message example- (see the 4th statement from bottom)

(And for the error type see 7th line from bottom)

If the error shows git command not found -

```
$ sudo apt-get update
$ sudo apt-get upgrade
$ sudo apt-get install git
```

And if error is as given in the image

"git call failed: [git clone git://git.openstack.org/opensta......"

To resolve this error -

```
$ git config -global url.https://.insteadOf git://
```

But if the process still shows error -

```
$ ./unstack.sh
$ ./clean.sh

Then after it,
$ ./stack.sh
```

The process completes with a screen like this, showing all the details regarding accessing of Horizon(Dashboard)-

```
cloud_project@Version:-/devstack

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