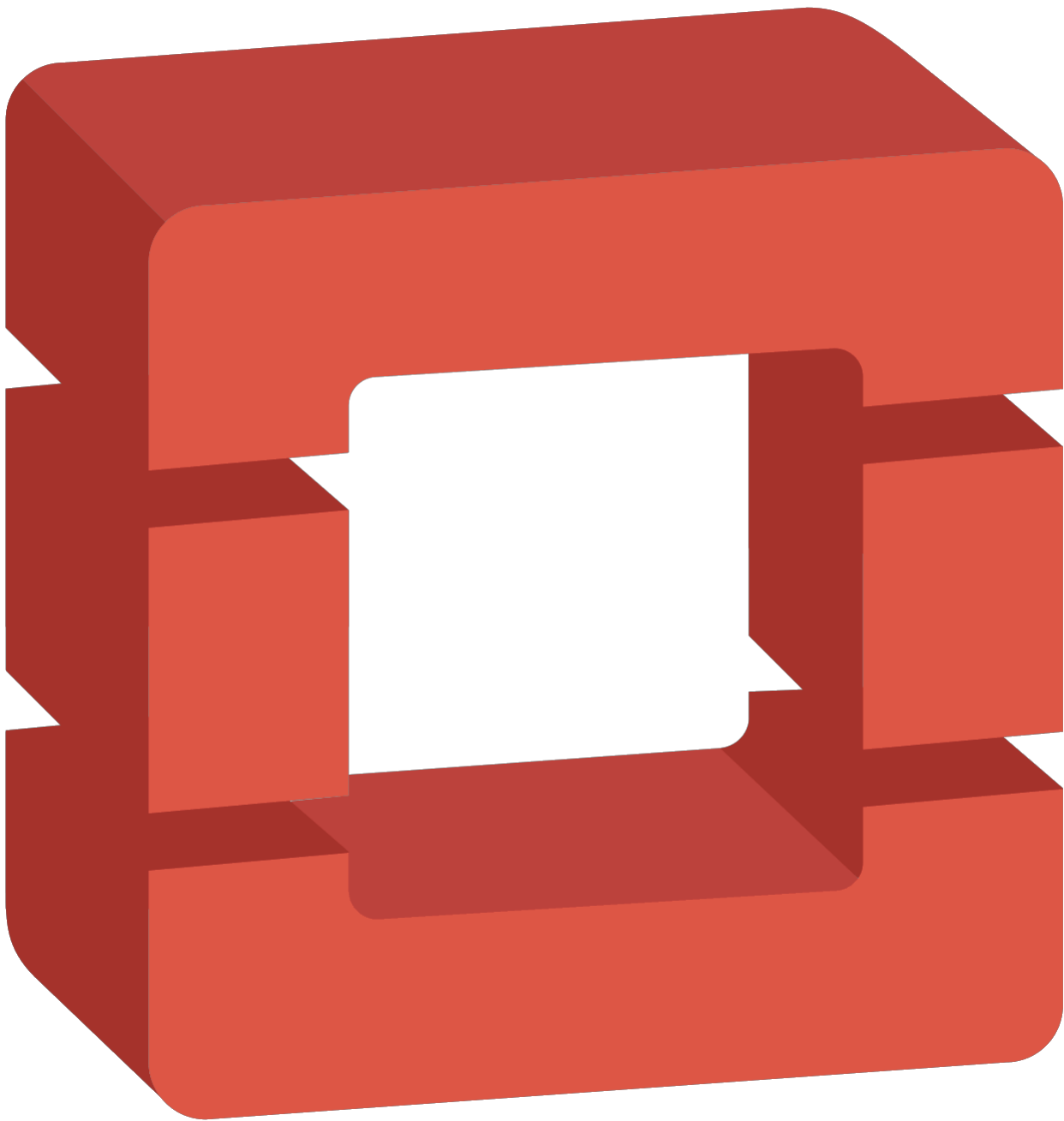


Installing

OpenStack



This document contains the steps highlighting the procedures for AIO-OpenStack installation using Devstack installer on Ubuntu 16.04 . Developers have tested Openstack for Ubuntu 16.0.4. There is no official information available regarding support for Ubuntu 18.0.4, which is the latest version at the time of writing this. A successful installation was performed in our lab on computers with the following configuration

- Core i5 (6th gen)
- 8 GB Ram
- Windows 10
- Access to internet
- Virtual Machine with Ubuntu 16.04.5, 4.5 GB RAM and 20 GB storage.

1. After successful installation of VM install git .

sudo apt-get install git

2. Create a non-root user which is sudo enabled

I) sudo useradd -s /bin/bash -d /opt/stack -m stack

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

III) sudo su - stack

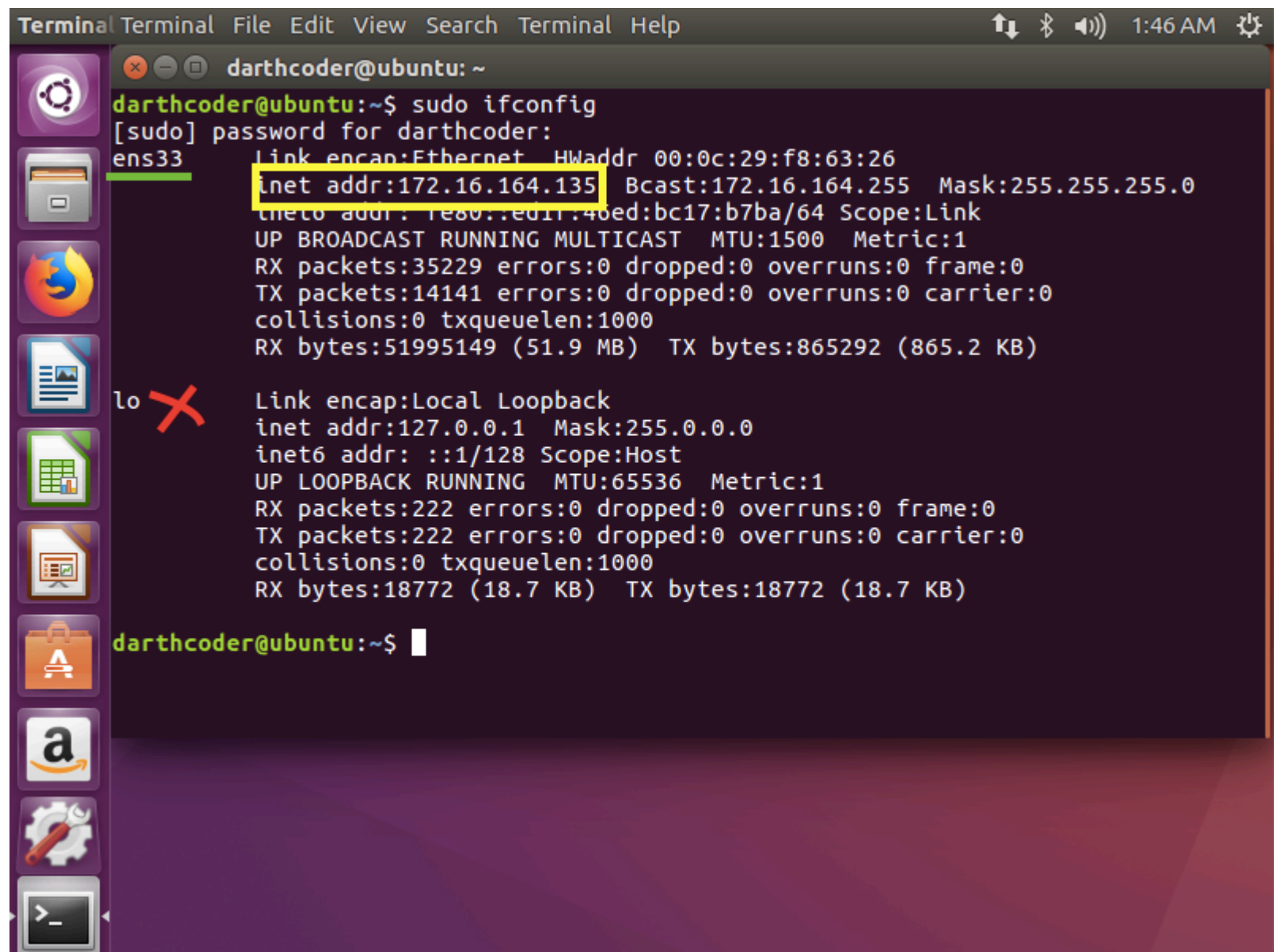
3. Clone the devstack repository

I) git clone https://git.openstack.org/openstack-dev/devstack

II) cd devstack

4. Identify the Host IP. Copy the "inet address" from any device except lo and vibr0

sudo ifconfig



```
Terminal Terminal File Edit View Search Terminal Help 1:46 AM
darthcoder@ubuntu: ~
darthcoder@ubuntu:~$ sudo ifconfig
[sudo] password for darthcoder:
ens33:  Link encap:Ethernet  HWaddr 00:0c:29:f8:63:26
       inet addr:172.16.164.135  Bcast:172.16.164.255  Mask:255.255.255.0
       inet6 addr: fe80::ed1:40ed:bc17:b7ba/64 Scope:Link
       UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
       RX packets:35229 errors:0 dropped:0 overruns:0 frame:0
       TX packets:14141 errors:0 dropped:0 overruns:0 carrier:0
       collisions:0 txqueuelen:1000
       RX bytes:51995149 (51.9 MB)  TX bytes:865292 (865.2 KB)

lo:  Link encap:Local Loopback
     inet addr:127.0.0.1  Mask:255.0.0.0
     inet6 addr: ::1/128 Scope:Host
     UP LOOPBACK RUNNING  MTU:65536  Metric:1
     RX packets:222 errors:0 dropped:0 overruns:0 frame:0
     TX packets:222 errors:0 dropped:0 overruns:0 carrier:0
     collisions:0 txqueuelen:1000
     RX bytes:18772 (18.7 KB)  TX bytes:18772 (18.7 KB)

darthcoder@ubuntu:~$
```

5. Create a local.conf file inside the devstack directory and containing the following details.

sudo gedit local.conf

[[local|localrc]]

ADMIN_PASSWORD=secret

DATABASE_PASSWORD=\$ADMIN_PASSWORD

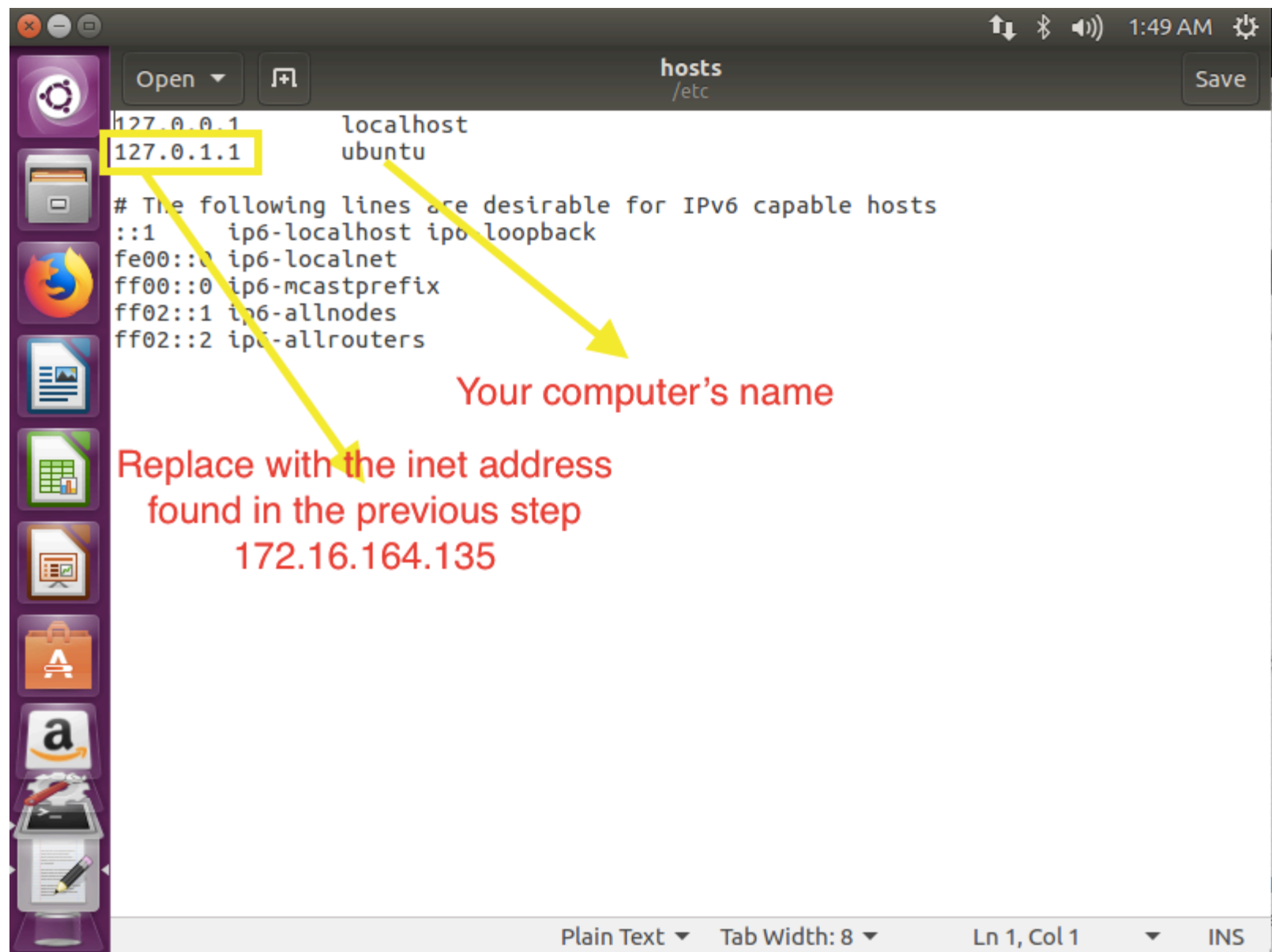
RABBIT_PASSWORD=\$ADMIN_PASSWORD

SERVICE_PASSWORD=\$ADMIN_PASSWORD

HOST_IP= "the inet address after running sudo ifconfig"

6. Edit the hosts file. Replace your 127.0.0.1 with the host ip.

sudo gedit /etc/hosts/



1.

7. Start the installation.

./stack.sh

The installation would typically take between 30 and 50 minutes. During installation you may be prompted with entering the passwords for different Openstack services. Post installation, visit your host ip in the web browser for the dashboard.