Pre-checks

sudo apt-get install \

apt-transport-https \

ca-certificates \

curl \

software-properties-common

neel@192.168.10.96's password:

Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.13.0-36-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

0 packages can be updated.

0 updates are security updates.

\*\*\* System restart required \*\*\*

The programs included with the Ubuntu system are free software;

the exact distribution terms for each program are described in the

individual files in /usr/share/doc/\*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by

applicable law.

neel@neel-vm:~$ sudo su

[sudo] password for neel:

root@neel-vm:/home/neel# cd

root@neel-vm:~# clear

root@neel-vm:~# sudo apt-get install \

> apt-transport-https \

> ca-certificates \

> curl \

> software-properties-common

Reading package lists... Done

Building dependency tree

Reading state information... Done

apt-transport-https is already the newest version (1.2.32).

ca-certificates is already the newest version (20170717~16.04.2).

software-properties-common is already the newest version (0.96.20.9).

The following packages were automatically installed and are no longer required:

libllvm5.0 snapd-login-service

Use 'sudo apt autoremove' to remove them.

The following NEW packages will be installed:

curl

0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.

Need to get 139 kB of archives.

After this operation, 340 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu xenial-updates/main amd64 curl amd64 7 .47.0-1ubuntu2.14 [139 kB]

Fetched 139 kB in 0s (4,370 kB/s)

Selecting previously unselected package curl.

(Reading database ... 214821 files and directories currently installed.)

Preparing to unpack .../curl\_7.47.0-1ubuntu2.14\_amd64.deb ...

Unpacking curl (7.47.0-1ubuntu2.14) ...

Processing triggers for man-db (2.7.5-1) ...

Setting up curl (7.47.0-1ubuntu2.14) ...

root@neel-vm:~#

root@neel-vm:~#

root@neel-vm:~# curl -fssl http://download.docker.com/linux/ubuntu/gpg | sudo apt- key add -

gpg: no valid OpenPGP data found.

root@neel-vm:~# curl -fsSL http://download.docker.com/linux/ubuntu/gpg | sudo apt- key add -

OK

root@neel-vm:~# sudo apt-key fingerprint 0EBFCD88

pub 4096R/0EBFCD88 2017-02-22

Key fingerprint = 9DC8 5822 9FC7 DD38 854A E2D8 8D81 803C 0EBF CD88

uid Docker Release (CE deb) <docker@docker.com>

sub 4096R/F273FCD8 2017-02-22

root@neel-vm:~# docker version

The program 'docker' is currently not installed. You can install it by typing:

apt install docker.io

root@neel-vm:~#

root@neel-vm:~#

root@neel-vm:~# sudo add-apt-repository\

> "deb[arch=amd64] https://download.docker.com/linux/ubuntu \

> $(lsb\_release -cs)\

> stable"

usage: sudo -h | -K | -k | -V

usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]

usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user]

[command]

usage: sudo [-AbEHknPS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p

prompt] [-u user] [VAR=value] [-i|-s] [<command>]

usage: sudo -e [-AknS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p

prompt] [-u user] file ...

root@neel-vm:~# "deb [arch=amd64] https://download.docker.com/linux/ubuntu \

> $(lsb\_release -cs)\

> stable"

bash: deb [arch=amd64] https://download.docker.com/linux/ubuntu xenialstable: No s uch file or directory

root@neel-vm:~#

root@neel-vm:~# sudo add-apt-repository \

> "deb [arch=amd64] https://download.docker.com/linux/ubuntu \

> $(lsb\_release -cs)\

> stable"

root@neel-vm:~# apt-get update

E: Malformed entry 51 in list file /etc/apt/sources.list (Component)

E: The list of sources could not be read.

root@neel-vm:~# sudo apt-get update

E: Malformed entry 51 in list file /etc/apt/sources.list (Component)

E: The list of sources could not be read.

root@neel-vm:~# sudo apt-get update

E: Malformed entry 51 in list file /etc/apt/sources.list (Component)

E: The list of sources could not be read.

root@neel-vm:~# cat /etc/a

acpi/ anacrontab apparmor/ appstream.conf at-spi2/

adduser.conf apg.conf apparmor.d/ apt/ avahi/

alternatives/ apm/ apport/ aptdaemon/

root@neel-vm:~# cat /etc/ap

apg.conf apparmor/ apport/ apt/

apm/ apparmor.d/ appstream.conf aptdaemon/

root@neel-vm:~# cat /etc/apt/sources.list

# deb cdrom:[Ubuntu 16.04.4 LTS \_Xenial Xerus\_ - Release amd64 (20180228)]/ xenial main restricted

# See http://help.ubuntu.com/community/UpgradeNotes for how to upgrade to

# newer versions of the distribution.

deb http://in.archive.ubuntu.com/ubuntu/ xenial main restricted

# deb-src http://in.archive.ubuntu.com/ubuntu/ xenial main restricted

## Major bug fix updates produced after the final release of the

## distribution.

deb http://in.archive.ubuntu.com/ubuntu/ xenial-updates main restricted

# deb-src http://in.archive.ubuntu.com/ubuntu/ xenial-updates main restricted

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu

## team. Also, please note that software in universe WILL NOT receive any

## review or updates from the Ubuntu security team.

deb http://in.archive.ubuntu.com/ubuntu/ xenial universe

# deb-src http://in.archive.ubuntu.com/ubuntu/ xenial universe

deb http://in.archive.ubuntu.com/ubuntu/ xenial-updates universe

# deb-src http://in.archive.ubuntu.com/ubuntu/ xenial-updates universe

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu

## team, and may not be under a free licence. Please satisfy yourself as to

## your rights to use the software. Also, please note that software in

## multiverse WILL NOT receive any review or updates from the Ubuntu

## security team.

deb http://in.archive.ubuntu.com/ubuntu/ xenial multiverse

# deb-src http://in.archive.ubuntu.com/ubuntu/ xenial multiverse

deb http://in.archive.ubuntu.com/ubuntu/ xenial-updates multiverse

# deb-src http://in.archive.ubuntu.com/ubuntu/ xenial-updates multiverse

## N.B. software from this repository may not have been tested as

## extensively as that contained in the main release, although it includes

## newer versions of some applications which may provide useful features.

## Also, please note that software in backports WILL NOT receive any review

## or updates from the Ubuntu security team.

deb http://in.archive.ubuntu.com/ubuntu/ xenial-backports main restricted universe multiverse

# deb-src http://in.archive.ubuntu.com/ubuntu/ xenial-backports main restricted un iverse multiverse

## Uncomment the following two lines to add software from Canonical's

## 'partner' repository.

## This software is not part of Ubuntu, but is offered by Canonical and the

## respective vendors as a service to Ubuntu users.

# deb http://archive.canonical.com/ubuntu xenial partner

# deb-src http://archive.canonical.com/ubuntu xenial partner

deb http://security.ubuntu.com/ubuntu xenial-security main restricted

# deb-src http://security.ubuntu.com/ubuntu xenial-security main restricted

deb http://security.ubuntu.com/ubuntu xenial-security universe

# deb-src http://security.ubuntu.com/ubuntu xenial-security universe

deb http://security.ubuntu.com/ubuntu xenial-security multiverse

deb [arch=amd64] https://download.docker.com/linux/ubuntu xenialstable

# deb-src [arch=amd64] https://download.docker.com/linux/ubuntu xenialstable

# deb-src http://security.ubuntu.com/ubuntu xenial-security multiverse

root@neel-vm:~# sudo add-apt-repository \

> "deb [arch=amd64] https://download.docker.com/linux/ubuntu \

> $(lsb\_release -cs) \

> stable"

root@neel-vm:~# apt-get update Get:1 http://in.archive.ubuntu.com/ubuntu xenial InRelease [247 kB]

Get:2 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]

Get:3 http://in.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]

Get:4 https://download.docker.com/linux/ubuntu xenial InRelease [66.2 kB]

Get:5 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]

Get:6 https://download.docker.com/linux/ubuntu xenial/stable amd64 Packages [11.2 kB]

Fetched 649 kB in 0s (1,414 kB/s)

Reading package lists... Done

root@neel-vm:~# apt-get install docker-ce

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following packages were automatically installed and are no longer required:

libllvm5.0 snapd-login-service

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

aufs-tools cgroupfs-mount containerd.io docker-ce-cli git git-man

liberror-perl pigz

Suggested packages:

git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk

gitweb git-arch git-cvs git-mediawiki git-svn

The following NEW packages will be installed:

aufs-tools cgroupfs-mount containerd.io docker-ce docker-ce-cli git git-man

liberror-perl pigz

0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.

Need to get 89.0 MB of archives.

After this operation, 409 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu xenial/universe amd64 pigz amd64 2.3.1-2 [61.1 kB]

Get:2 http://in.archive.ubuntu.com/ubuntu xenial/universe amd64 aufs-tools amd64 1 :3.2+20130722-1.1ubuntu1 [92.9 kB]

Get:3 http://in.archive.ubuntu.com/ubuntu xenial/universe amd64 cgroupfs-mount all 1.2 [4,970 B]

Get:4 http://in.archive.ubuntu.com/ubuntu xenial/main amd64 liberror-perl all 0.17 -1.2 [19.6 kB]

Get:5 http://in.archive.ubuntu.com/ubuntu xenial-updates/main amd64 git-man all 1: 2.7.4-0ubuntu1.6 [736 kB]

Get:6 http://in.archive.ubuntu.com/ubuntu xenial-updates/main amd64 git amd64 1:2. 7.4-0ubuntu1.6 [3,176 kB]

Get:7 https://download.docker.com/linux/ubuntu xenial/stable amd64 containerd.io a md64 1.2.10-2 [19.8 MB]

Get:8 https://download.docker.com/linux/ubuntu xenial/stable amd64 docker-ce-cli a md64 5:19.03.3~3-0~ubuntu-xenial [42.3 MB]

Get:9 https://download.docker.com/linux/ubuntu xenial/stable amd64 docker-ce amd64 5:19.03.3~3-0~ubuntu-xenial [22.8 MB]

Fetched 89.0 MB in 29s (2,992 kB/s)

Selecting previously unselected package pigz.

(Reading database ... 214828 files and directories currently installed.)

Preparing to unpack .../pigz\_2.3.1-2\_amd64.deb ...

Unpacking pigz (2.3.1-2) ...

Selecting previously unselected package aufs-tools.

Preparing to unpack .../aufs-tools\_1%3a3.2+20130722-1.1ubuntu1\_amd64.deb ...

Unpacking aufs-tools (1:3.2+20130722-1.1ubuntu1) ...

Selecting previously unselected package cgroupfs-mount.

Preparing to unpack .../cgroupfs-mount\_1.2\_all.deb ...

Unpacking cgroupfs-mount (1.2) ...

Selecting previously unselected package containerd.io.

Preparing to unpack .../containerd.io\_1.2.10-2\_amd64.deb ...

Unpacking containerd.io (1.2.10-2) ...

Selecting previously unselected package docker-ce-cli.

Preparing to unpack .../docker-ce-cli\_5%3a19.03.3~3-0~ubuntu-xenial\_amd64.deb ...

Unpacking docker-ce-cli (5:19.03.3~3-0~ubuntu-xenial) ...

Selecting previously unselected package docker-ce.

Preparing to unpack .../docker-ce\_5%3a19.03.3~3-0~ubuntu-xenial\_amd64.deb ...

Unpacking docker-ce (5:19.03.3~3-0~ubuntu-xenial) ...

Selecting previously unselected package liberror-perl.

Preparing to unpack .../liberror-perl\_0.17-1.2\_all.deb ...

Unpacking liberror-perl (0.17-1.2) ...

Selecting previously unselected package git-man.

Preparing to unpack .../git-man\_1%3a2.7.4-0ubuntu1.6\_all.deb ...

Unpacking git-man (1:2.7.4-0ubuntu1.6) ...

Selecting previously unselected package git.

Preparing to unpack .../git\_1%3a2.7.4-0ubuntu1.6\_amd64.deb ...

Unpacking git (1:2.7.4-0ubuntu1.6) ...

Processing triggers for man-db (2.7.5-1) ...

Processing triggers for libc-bin (2.23-0ubuntu11) ...

Processing triggers for ureadahead (0.100.0-19.1) ...

Processing triggers for systemd (229-4ubuntu21.22) ...

Setting up pigz (2.3.1-2) ...

Setting up aufs-tools (1:3.2+20130722-1.1ubuntu1) ...

Setting up cgroupfs-mount (1.2) ...

Setting up containerd.io (1.2.10-2) ...

Setting up docker-ce-cli (5:19.03.3~3-0~ubuntu-xenial) ...

Setting up docker-ce (5:19.03.3~3-0~ubuntu-xenial) ...

Setting up liberror-perl (0.17-1.2) ...

Setting up git-man (1:2.7.4-0ubuntu1.6) ...

Setting up git (1:2.7.4-0ubuntu1.6) ...

Processing triggers for libc-bin (2.23-0ubuntu11) ...

Processing triggers for ureadahead (0.100.0-19.1) ...

Processing triggers for systemd (229-4ubuntu21.22) ...

root@neel-vm:~# apt-get install docker-ce

Reading package lists... Done

Building dependency tree

Reading state information... Done

docker-ce is already the newest version (5:19.03.3~3-0~ubuntu-xenial).

The following packages were automatically installed and are no longer required:

libllvm5.0 snapd-login-service

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

root@neel-vm:~# docker version

Client: Docker Engine - Community

Version: 19.03.3

API version: 1.40

Go version: go1.12.10

Git commit: a872fc2

Built: Tue Oct 8 00:59:54 2019

OS/Arch: linux/amd64

Experimental: false

Server: Docker Engine - Community

Engine:

Version: 19.03.3

API version: 1.40 (minimum version 1.12)

Go version: go1.12.10

Git commit: a872fc2

Built: Tue Oct 8 00:58:28 2019

OS/Arch: linux/amd64

Experimental: false

containerd:

Version: 1.2.10

GitCommit: b34a5c8af56e510852c35414db4c1f4fa6172339

runc:

Version: 1.0.0-rc8+dev

GitCommit: 3e425f80a8c931f88e6d94a8c831b9d5aa481657

docker-init:

Version: 0.18.0

GitCommit: fec3683

root@neel-vm:~# docker run hello-world

Unable to find image 'hello-world:latest' locally

latest: Pulling from library/hello-world

1b930d010525: Pull complete

Digest: sha256:c3b4ada4687bbaa170745b3e4dd8ac3f194ca95b2d0518b417fb47e5879d9b5f

Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.

(amd64)

3. The Docker daemon created a new container from that image which runs the

executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it

to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:

https://hub.docker.com/

For more examples and ideas, visit:

https://docs.docker.com/get-started/

root@neel-vm:~# groupadd docker

groupadd: group 'docker' already exists

root@neel-vm:~# usermod -aG docker neel

root@neel-vm:~# su neel

neel@neel-vm:/root$ cd

neel@neel-vm:~$ docker run hello-world

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.

(amd64)

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executable that produces the output you are currently reading.

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neel@neel-vm:~$