# **Assignment 2b**

**Problem Statement:** Create Docker Container Environment (NVIDEIA Docker or any other)

#### Steps:

1. Update the linux OS using following command:

```
sudo apt-get update
```

```
Omkar@omkar=virtual-machine: S sudo apt-get update

[sudo] password for onkar:

Ign:1 cdron://Ubuhut 22.04 LTS _Jammy Jellyfish - Release amd64 (20220419) jammy InRelease

Err:2 cdron://Ubuhut 22.04 LTS _Jammy Jellyfish - Release amd64 (20220419) jammy Release

Please use apt-cdrom to make this CD-ROM recognized by APT. apt-get update cannot be used to add new CD-ROMs

Ign:3 https://rep.nongodb.org/apt/ubuntu focal/mogodb-org/6.0 InRelease

Hit:4 http://security.buhutu.com/ubuntu jammy-security InRelease

Hit:5 https://rep.nongodb.org/apt/ubuntu focal/mogodb-org/6.0 Release

Hit:7 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease

Hit:8 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease

Hit:9 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease

Reading package lists... Done

E: The repository 'cdron://Ubuntu 22.04 LTS _Jammy Jellyfish_ - Release amd64 (20220419) jammy Release' does not have a Release file.

N: Updating from such a repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for
```

2. The next step is to install the necessary certificates that will be required to work with the Docker site later on to download the necessary Docker packages. It can be done with the following command:

```
sudo apt-get install \
ca-certificates \
curl \
gnupg \
lsb-release
```

## 3. Add dockers official gpg key

```
sudo mkdir -m 0755 -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg |
sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
```

```
omkar@omkar-virtual-machine: $ sudo mkdir -m 0755 -p /etc/apt/keyrings

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apg --dearmor -o /etc/apt/keyrings/docker.gpg

omkar@omkar-virtual-machine: $ sudo mkdir -m 0755 -p /etc/apt/keyrings

omkar@omkar-virtual-machine: $ sudo mkdir -m 0755 -p /etc/apt/keyrings

omkar@omkar-virtual-machine: $ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

File '/etc/apt/keyrings/docker.gpg' exists. Overwrite? (y/N) y

omkar@omkar-virtual-machine: $ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

index | file | f
```

### 4. Use following command to set up the repository

```
echo \
  "deb [arch=$(dpkg --print-architecture)
signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu \
  $(lsb_release -cs) stable" | sudo tee
/etc/apt/sources.list.d/docker.list > /dev/null
```

```
omkar@omkarvirual-machine:-

#: https://repo.nongodb.org/apt/ubuntu/dists/focal/mongodb-org/6.0/#elease.gpg: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATIO in apt-key(8) for details.

### Additional Control of the Control
```

```
Ombacking contained.io (1.6.18.1)... ombacking contained.io (1.6.2.1-ubuntu.22.04-jammy_and64.deb ... ombacking contained.io (1.6.2.1-ubuntu.22.04-jammy_and64.deb ... ombacking contained.io (1.6.2.1-ubuntu.22.04-jammy_and64.deb ... ombacking contained.io (1.6.2.1-ubuntu.22.04-jammy_and64.deb ... ombacking docker-ce-ce-til Sa32.0.1-1-ubuntu.22.04-jammy_and64.deb ... ombacking docker-ce-cil Sa32.0.1-1-ubuntu.22.04-jammy_and64.deb ... ombacking docker-ce-til (5.23.0.1-1-ubuntu.22.04-jammy_and64.deb ... ombacking docker-compose-plugin (2.16.0-1-ubuntu.22.04-jammy_and64.deb ... ombacking docker-compose-plugin (2.16.0-1-ubuntu.22.04-jammy_and64.deb ... ombacking docker-compose-plugin (2.16.0-1-ubuntu.22.04-jammy) ... selecting previously unselected package docker-scan-plugin.

Preparing to unpack ... (36.1-ubuntu.22.04-jammy) ... selecting previously unselected package itterror-peri. Preparing to unpack ... (36.1-ubuntu.22.04-jammy) ... selecting previously unselected package itterror-peri. ombacking diterror-peri. (3.17029-1) ... ombacking diterror-peri. (3.17029-1)
```

# 5. Run the following command to check the installation of Docker container:

sudo docker run hello-world

```
Omkar@omkar-virtual-machine:-$ sudo 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)

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://dub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
omkar@omkar-virtual-machine:-$
```