NAME: GAURAV SABLE

ROLL NO.: 33360 CLASS: TE11 BATCH: M11

ASSIGNMENT – 2B DOCKER

REMOVING PREVIOUS DOCKER:

gaurav@gaurav:~\$ sudo apt-get remove docker docker-engine docker.io

[sudo] password for patil:

Reading package lists... Done

Building dependency tree

Reading state information... Done

Package 'docker-engine' is not installed, so not removed

Package 'docker' is not installed, so not removed

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

bridge-utils cgroupfs-mount containerd pigz runc ubuntu-fan

Use 'sudo apt autoremove' to remove them.

The following packages will be REMOVED:

docker.io

0 upgraded, 0 newly installed, 1 to remove and 187 not upgraded.

After this operation, 155 MB disk space will be freed.

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

(Reading database ... 178535 files and directories currently installed.)

Removing docker.io (18.09.7-0ubuntu1~16.04.7) ...

'/usr/share/docker.io/contrib/nuke-graph-directory.sh' -> '/var/lib/docker/nuke-graph-directory.sh'

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

gaurav@gaurav:~\$ sudo apt-get update

Hit:1 https://download.docker.com/linux/ubuntu xenial InRelease

Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [99.8 kB]

Hit:3 http://in.archive.ubuntu.com/ubuntu xenial InRelease

Hit:4 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease

Hit:5 http://in.archive.ubuntu.com/ubuntu xenial-backports InRelease

Fetched 99.8 kB in 1s (85.9 kB/s)

Reading package lists... Done

gaurav@gaurav:~\$ sudo apt-get install \

- > ca-certificates \
- > **curl** \
- > gnupg \
- > lsb-release

Reading package lists... Done

Building dependency tree

Reading state information... Done

ca-certificates is already the newest version (20210119~16.04.1).

curl is already the newest version (7.47.0-1ubuntu2.19).

gnupg is already the newest version (1.4.20-1ubuntu3.3).

lsb-release is already the newest version (9.20160110ubuntu0.2).

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

bridge-utils cgroupfs-mount containerd pigz runc ubuntu-fan

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 187 not upgraded.

patil@PATIL:~\$ sudo mkdir -m 0755 -p /etc/apt/keyrings

patil@PATIL:~\$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

File \diversity exists. Overwrite? (y/N) y

gaurav@gaurav:~\$ 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

INSTALLING DOCKER

gaurav@gaurav:~\$ sudo apt install docker.io

Reading package lists... Done

Building dependency tree

Reading state information... Done

Suggested packages:

aufs-tools btrfs-tools debootstrap docker-doc rinse zfs-fuse | zfsutils

The following NEW packages will be installed:

docker.io

0 upgraded, 1 newly installed, 0 to remove and 187 not upgraded.

Need to get 30.5 MB of archives.

After this operation, 155 MB of additional disk space will be used.

Get:1 http://in.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 docker.io amd64 18.09.7-

Oubuntu1~16.04.7 [30.5 MB]

Fetched 30.5 MB in 20s (1,498 kB/s)

Preconfiguring packages ...

Selecting previously unselected package docker.io.

(Reading database ... 178337 files and directories currently installed.)

Preparing to unpack .../docker.io 18.09.7-0ubuntu1~16.04.7 amd64.deb ...

Unpacking docker.io (18.09.7-0ubuntu1~16.04.7) ...

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

Processing triggers for systemd (229-4ubuntu21.28) ...

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

Setting up docker.io (18.09.7-0ubuntu1~16.04.7) ...

gaurav@gaurav:~\$ sudo apt update

Hit:1 https://download.docker.com/linux/ubuntu xenial InRelease

Hit:2 http://in.archive.ubuntu.com/ubuntu xenial InRelease

Hit:3 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease

Hit:4 http://in.archive.ubuntu.com/ubuntu xenial-backports InRelease

Get:5 http://security.ubuntu.com/ubuntu xenial-security InRelease [99.8 kB]

Fetched 99.8 kB in 1s (67.1 kB/s)

Reading package lists... Done

Building dependency tree

Reading state information... Done

187 packages can be upgraded. Run 'apt list --upgradable' to see them.

gaurav@gaurav:~\$ sudo apt install docker.io

Reading package lists... Done

Building dependency tree

Reading state information... Done

docker.io is already the newest version (18.09.7-0ubuntu1~16.04.7).

0 upgraded, 0 newly installed, 0 to remove and 187 not upgraded.

gaurav@gaurav:~\$ mkdir WAD_2B gaurav@gaurav:~\$ cd WAD_2B/

CLONING FROM GITHUB

gaurav@gaurav:~/WAD_2B\$ git clone https://github.com/docker/getting-started.git

Cloning into 'getting-started'...

remote: Enumerating objects: 952, done.

remote: Total 952 (delta 0), reused 0 (delta 0), pack-reused 952 Receiving objects: 100% (952/952), 5.18 MiB | 1.62 MiB/s, done.

Resolving deltas: 100% (541/541), done.

Checking connectivity... done.

gaurav@gaurav:~/WAD_2B/getting-started/app\$ touch Dockerfile

syntax=docker/dockerfile:1

FROM node:18-alpine

WORKDIR /app

COPY..

RUN yarn install --production CMD ["node", "src/index.js"]

EXPOSE 3000

ADDING GROUP FOR DOCKER

gaurav@gaurav:~/WAD_2B/getting-started/app\$ sudo groupadd docker1

gaurav@gaurav:~/WAD_2B/getting-started/app\$ sudo usermod -aG docker1 \$USER

gaurav@gaurav:~/WAD 2B/getting-started/app\$ newgrp docker1

CHECKING VERSION OF DOCKER

gaurav@gaurav:~\$ docker version

Client: Docker Engine - Community

Version: 23.0.1 API version: 1.42 Go version: go1.19.5 Git commit: a5ee5b1

Built: Thu Feb 9 19:46:56 2023

OS/Arch: linux/amd64

Context: default

gaurav@gaurav:~/33346/WAD/Assignment 2B/getting-started/app\$

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://hub.docker.com/

For more examples and ideas, visit:

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

$gaurav@gaurav: \sim /33346/WAD/Assignment~2B/getting-started/app\$ docker build~t~getting-started~.$

[+] Building 74.2s (11/11) FINISHED

=> [internal] load .dockerignore

0.8s

=> => transferring context: 2B

0.0s

=> [internal] load build definition from Dockerfile

1.0s

=> => transferring dockerfile: 185B

0.0s

=> resolve image config for docker.io/docker/dockerfile:1

4.0s

=> docker-

image://docker.io/docker/dockerfile:1@sha256:39b85bbfa7536a5feceb7372a0817649ecb2724562a 38360f4d6a778

8.4s

=> => resolve

docker.io/docker/dockerfile:1@sha256:39b85bbfa7536a5feceb7372a0817649ecb2724562a38360f4d6a7782a40

0.4s

=> => sha256:39b85bbfa7536a5feceb7372a0817649ecb2724562a38360f4d6a7782a409b14~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40kB~/~8.40

0.0s

=> => sha256:966d40f9ba8366e74c2fa353fc0bc7bbc167d2a0f3ad2420db8b9e633049462d~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/~482B~/

0.0s

=> => sha256:dbdd11720762ad504260c66161c964e59eba06b95a7aa64a68634b598a830a912.90kB / 2.90kB

0.0s

=> => sha256:a47ff7046597eea0123ea02817165350e3680f75000dc5d69c9a310258e1bedd 11.55MB / 11.55MB

7.0s

=> => extracting

 $sha256:a47ff7046597eea0123ea02817165350e3680f75000dc5d69c9a310258e1bedd\\0.1s$

```
=> [internal] load metadata for docker.io/library/node:18-alpine
3.5s
=> [1/4] FROM docker.io/library/node:18-
alpine@sha256:f8a51c36b0be7434bbf867d4a08decf0100e656203d893b9b0f8b1fe
35.8s
=> => resolve docker.io/library/node:18-
alpine@sha256:f8a51c36b0be7434bbf867d4a08decf0100e656203d893b9b0f8b1fe9
0.3s
=> sha256:f8a51c36b0be7434bbf867d4a08decf0100e656203d893b9b0f8b1fe9e40daea 1.43kB /
1.43kB
0.0s
=> => sha256:fdbd2737cb94e25cae3db9fc5d7dc073c9675dad34239bfb3948c499a6908c19 1.16kB
/ 1.16kB
0.0s
=> => sha256:9423415aa47ab401c3f202dd56fdf379f6161a620cc51caa048887d9bdddd246 6.44kB
/ 6.44kB
0.0s
=> => sha256:63b65145d645c1250c391b2d16ebe53b3747c295ca8ba2fcb6b0cf064a4dc21c
3.37MB / 3.37MB
6.3s
=> sha256:478140d591162fa9113c5ba76c16afafe2aa04bccd8ec45c232ffeb4f31e9c23 2.35MB /
2.35MB
5.8s
=> => sha256:061765f30124ad9dd30397cf60c64741d3fb3b34c36f9566796687b1299183f5
47.51MB / 47.51MB
32.1s
=> => sha256:00ca3aba45c3a9811387d943d26291284ca6f938036760fcf85dbb2ab78e496a 450B /
450B
6.3s
=> => extracting
sha256:63b65145d645c1250c391b2d16ebe53b3747c295ca8ba2fcb6b0cf064a4dc21c
0.1s
=> => extracting
sha256:061765f30124ad9dd30397cf60c64741d3fb3b34c36f9566796687b1299183f5
=> => extracting sha256:478140d591162fa9113c5ba76c16afafe2aa04bccd8ec45c232ffeb4f31e9c23
0.1s
=> => extracting
sha256:00ca3aba45c3a9811387d943d26291284ca6f938036760fcf85dbb2ab78e496a
0.0s
=> [internal] load build context
0.6s
=> => transferring context: 4.59MB
0.0s
=> [2/4] WORKDIR /app
2.2s
=> [3/4] \text{ COPY} ...
0.9s
=> [4/4] RUN yarn install --production
14.3s
=> exporting to image
2.9s
```

=> => exporting layers 2.8s

=> => writing image

 $sha256 : e055a9bc58c3a391990e7aa8e7d669dc6ad15f833a536598fcfa06919de5e5b5\\0.0s$

=> => naming to docker.io/library/getting-started 0.0s

patil@PATIL:~/33346/WAD/Assignment 2B/getting-started/app\$ docker run -dp 3000:3000 getting-started

3c3f6fa95797d57fc6d61102f180b53c415189be306f8db4fdefa157ab167a27

OUTPUT:





