Roll No:. 33309 Batch- K-11

Title: Create Docker Container Environment (NVIDEIA Docker or any other).

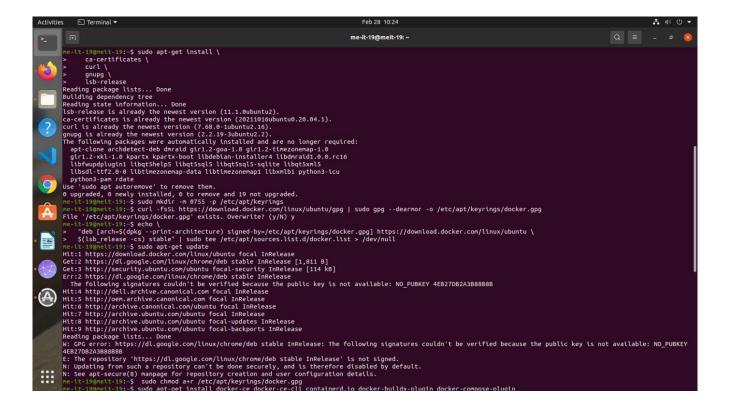
Assignment No. 2-b

Commands:

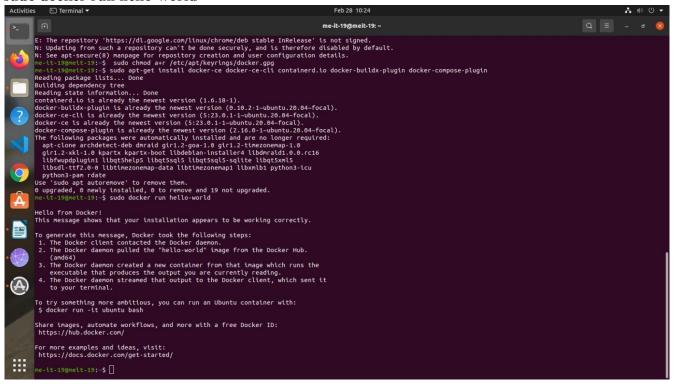
sudo apt-get remove docker docker-engine docker.io containerd runc sudo apt-get update



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

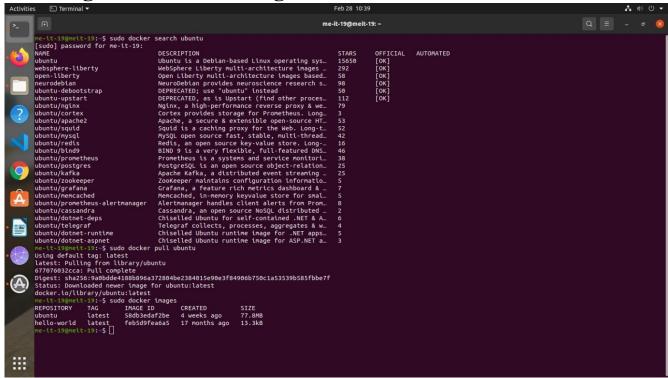


sudo docker run hello-world



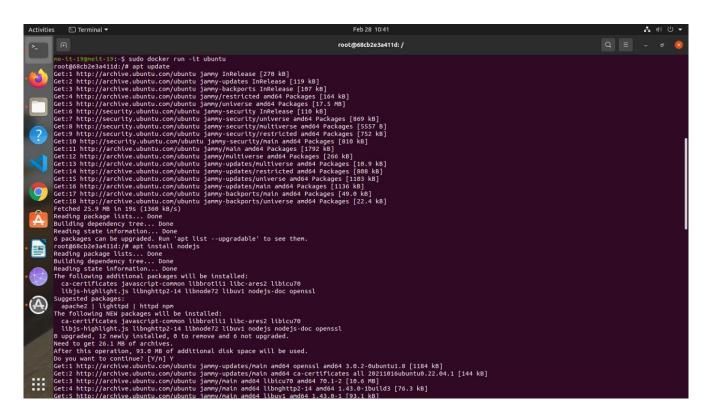
sudo systemctl status docker

Working with Docker Images



Running a Docker Container

sudo docker run -it ubuntu root@68cb2e3a411d:/# apt update



root@68cb2e3a411d:/# apt install nodejs root@68cb2e3a411d:/# node -v

Managing Docker Containers

```
COMMAND CREATED
CONTAINER ID
                                                                                                                                                                    STATUS
                                                                                                                                                                                                                                                 NAMES
            it-19@meit-19:~$ sudo docker ps -a
                                                 IMAGE
CONTAINER ID
                                                                                                       COMMAND
                                                                                                                                                               CREATED
                                                                                                                                                                                                                                                                                                                                      PORTS
                                                                                                       "/bin/bash"
"/hello"
"/hello"
                                                                                                                                                                                                                             Exited (0) 38 seconds ago
Exited (0) 41 minutes ago
68cb2e3a411d
                                                                                                                                                                                                                                                                                                                                                                          magical_einstein
                                                      ubuntu
                                                                                                                                                               6 minutes ago
8c4d9875dd5b
                                                      hello-world
                                                                                                                                                               41 minutes ago
                                                                                                                                                                                                                                                                                                                                                                           gallant_williamson
f22dcd909100
                                                 hello-world
                                                                                                                                                              19 hours ago
                                                                                                                                                                                                                            Exited (0) 19 hours ago
                                                                                                                                                                                                                                                                                                                                                                          bold_torvalds
   ne-it-19@meit-19:~$ sudo docker ps -l
CONTAINER ID IMAGE COMMAND CREATED STATUS
68cb2e3a411d ubuntu "/bin/bash" 6 minutes ago Exited (0) 54 seconds ago
                                                                                                                                                                                                                                                                                                                                                      magical_einstein
    e-it-19@meit-19:~$ sudo docker start 68cb2e3a411d
68cb2e3a411d
    e-it-19@meit-19:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND
68cb2e3a411d ubuntu "/bin/ba:
                                                                                                                                               CREATED
                                                                                                                                                                                                           STATUS
   Society 19 Seconds 19 
                                                                                                                                                                                                                                                                                                          magical_einstein
  magical einstein
    e-it-19@meit-19:~$
```

Committing Changes in a Container to a Docker Image

docker commit -m "What you did to the image" -a "Author Name" container_id repository/new image name

```
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
68cb2e3a411d ubuntu "/bin/bash" 7 minutes ago Up 28 seconds magical_einstein
me-it-19@meit-19:-$ sudo docker stop magical_einstein
me-it-19@meit-19:-$ sudo docker commit -m "added Node.js" -a "sakshi" 68cb2e3a411d sakshi/ubuntu-nodejs
sakshi/ubuntu-nodejs sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
sakshi/ubuntu-nodejs latest 53bfeeebbb79 14 cocords
                              19:~$ sudo docker ps
IMAGE COMMAND
 sakshi/ubuntu-nodejs
                                             latest
                                                                      53bfeeebbb79
                                                                                                                                         203MB
                                                                                                     14 seconds ago
                                                                                                                                         77.8MB
13.3kB
 ubuntu
                                                 latest
                                                                     58db3edaf2be
                                                                                                     4 weeks ago
 hello-world
                                                                      feb5d9fea6a5
                                                                                                    17 months ago
                                                 latest
   ne-it-19@meit-19:~$
```