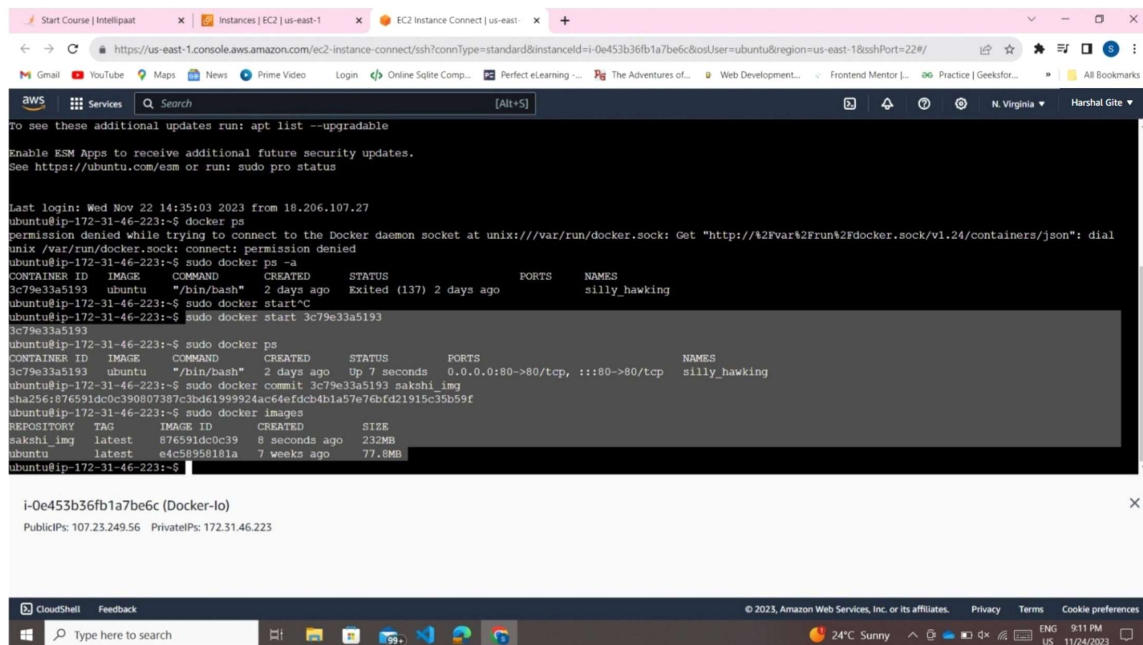# Assignment - 2

Email- harshalgite888@gmail.com

Tasks:

1. Save the image created in assignment 1 as a Docker image

 2. Launch container from this new image and map the port to 81

 3. Go inside the container and start the Apache2 service

4. Check if you are able to access it on the browser

Solution:

Steps:

```
unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-46-223:~$ sudo docker ps -a
CONTAINER ID   IMAGE     COMMAND        CREATED       STATUS               PORTS                    NAMES
3c79e33a5193   ubuntu    "/bin/bash"    2 days ago    Exited (137) 2 days ago                       silly_hawking
ubuntu@ip-172-31-46-223:~$ sudo docker start^C
ubuntu@ip-172-31-46-223:~$ sudo docker start 3c79e33a5193
3c79e33a5193
ubuntu@ip-172-31-46-223:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND        CREATED       STATUS               PORTS                              NAMES
3c79e33a5193   ubuntu    "/bin/bash"    2 days ago    Up 7 seconds         0.0.0.0:80->80/tcp, :::80->80/tcp  silly_hawking
ubuntu@ip-172-31-46-223:~$ sudo docker commit 3c79e33a5193 sakshi_img
sha256:876591dc0c390807387c3bd61999924ac64efdcb4b1a57e76bfd21915c35b59f
ubuntu@ip-172-31-46-223:~$ sudo docker images
REPOSITORY    TAG      IMAGE ID       CREATED        SIZE
sakshi_img    latest   876591dc0c39   8 seconds ago  232MB
ubuntu        latest   e4c58958181a   7 weeks ago    77.8MB
ubuntu@ip-172-31-46-223:~$ sudo docker run -it -d -p 81:80 sakshi_img
88c7db819d180c88e9bb18c01dd1c39d95c2dd1dd4ab92dfb3c18ee579e8aec3
ubuntu@ip-172-31-46-223:~$ docker ps -a
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/json?all=1":
dial unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-46-223:~$ sudo docker ps -a
CONTAINER ID   IMAGE       COMMAND        CREATED         STATUS          PORTS                              NAMES
88c7db819d18   sakshi_img  "/bin/bash"    16 seconds ago  Up 15 seconds   0.0.0.0:81->80/tcp, :::81->80/tcp  dazzling_meninsky
3c79e33a5193   ubuntu      "/bin/bash"    2 days ago      Up 3 minutes    0.0.0.0:80->80/tcp, :::80->80/tcp  silly_hawking
ubuntu@ip-172-31-46-223:~$
```

i-0e453b36fb1a7be6c (Docker-Io)

PublicIPs: 107.23.249.56   PrivateIPs: 172.31.46.223

```
buntu@ip-172-31-46-223:~$ sudo docker commit 3c79e33a5193 sakshi_img
ha256:876591dc0c390807387c3bd61999924ac64efdcb4b1a57e76bfd21915c35b59f
buntu@ip-172-31-46-223:~$ sudo docker images
EPOSITORY    TAG      IMAGE ID       CREATED        SIZE
akshi_img    latest   876591dc0c39   8 seconds ago  232MB
buntu        latest   e4c58958181a   7 weeks ago    77.8MB
buntu@ip-172-31-46-223:~$ sudo docker run -it -d -p 81:80 sakshi_img
8c7db819d180c88e9bb18c01dd1c39d95c2dd1dd4ab92dfb3c18ee579e8aec3
buntu@ip-172-31-46-223:~$ docker ps -a
ermission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/json?all=1":
dial unix /var/run/docker.sock: connect: permission denied
buntu@ip-172-31-46-223:~$ sudo docker ps -a
ONTAINER ID   IMAGE       COMMAND        CREATED         STATUS          PORTS                              NAMES
8c7db819d18   sakshi_img  "/bin/bash"    16 seconds ago  Up 15 seconds   0.0.0.0:81->80/tcp, :::81->80/tcp  dazzling_meninsky
c79e33a5193   ubuntu      "/bin/bash"    2 days ago      Up 3 minutes    0.0.0.0:80->80/tcp, :::80->80/tcp  silly_hawking
buntu@ip-172-31-46-223:~$ sudo docker exec -it 88c7db819d18 bash
oot@88c7db819d18:/# service apache2 status
 apache2 is not running
oot@88c7db819d18:/# service apache2 start
* Starting Apache httpd web server apache2
H00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.3. Set the 'ServerName' directive globally to suppress this messag

oot@88c7db819d18:/# service apache2 status
* apache2 is running
oot@88c7db819d18:/#
```

i-0e453b36fb1a7be6c (Docker-Io)

PublicIPs: 107.23.249.56   PrivateIPs: 172.31.46.223

Apache2 Ubuntu Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|       `--  ports.conf
|-- mods-enabled
|       |-- *.load
|       `-- *.conf
|-- conf-enabled
|       `-- *.conf
|-- sites-enabled
|       `-- *.conf
```

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