Module 3: Docker Part 1 Assignent -2

Tasks To Be Performed:

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:

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

```
ubuntu@ip-172-31-5-28:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND      CREATED        STATUS        PORTS                              NAMES
c2183428ed5e   ubuntu    "/bin/bash"  30 minutes ago Up 30 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp  unruffled_kalam
ubuntu@ip-172-31-5-28:~$ sudo docker commit c2183428ed5e image1
sha256:77b29ab9b9fd72649d8f41b97b14225d34cd761066f4a4104a4d55f13a39a67b
ubuntu@ip-172-31-5-28:~$ sudo docker images
REPOSITORY   TAG      IMAGE ID      CREATED       SIZE
image1       latest   77b29ab9b9fd  18 seconds ago 222MB
ubuntu       latest   17c0145030df  2 weeks ago    76.2MB
ubuntu@ip-172-31-5-28:~$ sudo docker run -itd -p 81:80 --name C1 image1
48e18247513d23152bc442972d73f08f0be54c695d7b4cf67d05d717b241ce46
ubuntu@ip-172-31-5-28:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND      CREATED        STATUS        PORTS                              NAMES
48e18247513d   image1    "/bin/bash"  10 seconds ago Up 8 seconds  0.0.0.0:81->80/tcp, :::81->80/tcp  C1
c2183428ed5e   ubuntu    "/bin/bash"  36 minutes ago Up 36 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp  unruffled_kalam
ubuntu@ip-172-31-5-28:~$ sudo docker exec -it C1 bash
root@48e18247513d:/#
```

3. Go inside the container and start the Apache2 service

```
root@48e18247513d:/# apt-get update
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
root@48e18247513d:/# service apache2 status
 * apache2 is not running
root@48e18247513d:/# service apache2 start
 * Starting Apache httpd web server apache2
AH00558: 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 message
 *
root@48e18247513d:/# service apache2 status
 * apache2 is running
root@48e18247513d:/#
```

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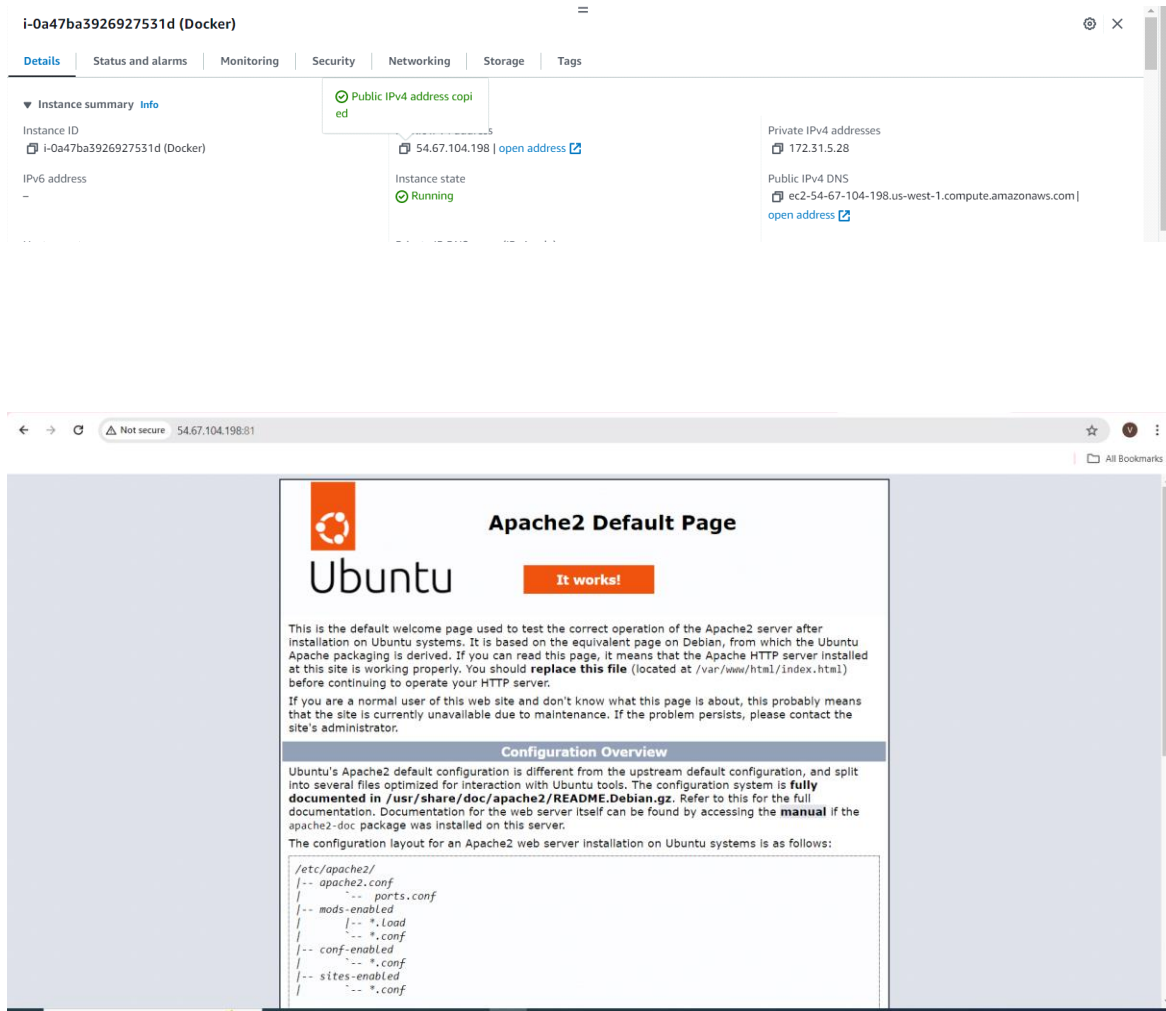
Commands:

11 **sudo docker ps**

12 **sudo docker commit c2183428ed5e image1**

13 **sudo docker images**

14 sudo docker run -itd -p 81:80 --name C1 image1

15 sudo docker ps

16 sudo docker exec -it C1 bash

17 history

 7 apt-get update

 8 service apache2 status

 9 service apache2 start

10 service apache2 status

11 history