

1. Use the saved image in the previous assignment
2. Upload this image on Docker Hub
3. On a separate machine pull this Docker Hub image and launch it on port 80
4. Start the Apache2 service
5. Verify if you are able to see the Apache2 service

```
sudo docker images
```

```
sudo docker tag image-id username/image-name
```

```
sudo docker tag 6c641ca59cd2 subby83/lovely
```

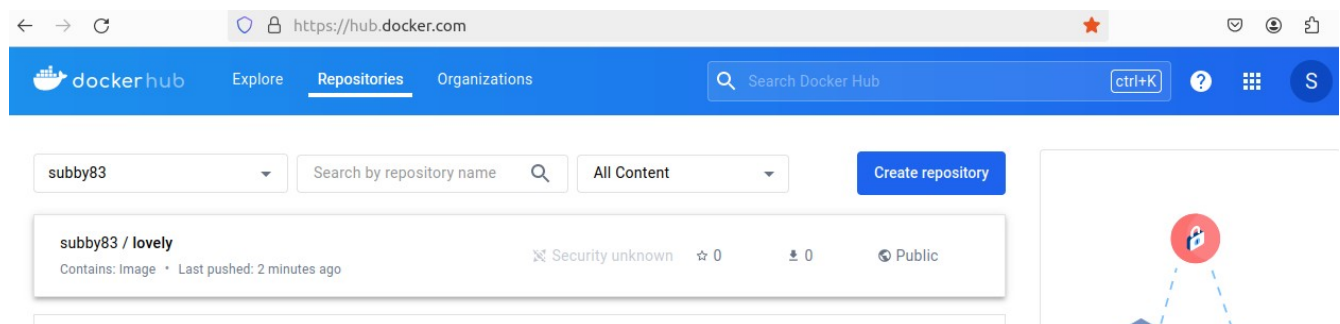
```
ubuntu@ip-172-31-28-52:~$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
lovely        latest    6c641ca59cd2   59 minutes ago 236MB
ubuntu        latest    ca2b0f26964c   3 weeks ago    77.9MB
ubuntu@ip-172-31-28-52:~$ sudo docker tag 6c641ca59cd2 subby83/lovely
```

```
sudo docker login
```

```
sudo docker push subby83/lovely
```

```
ubuntu@ip-172-31-28-52:~$ sudo docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: subby83
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
ubuntu@ip-172-31-28-52:~$ sudo docker push subby83/lovely
Using default tag: latest
The push refers to repository [docker.io/subby83/lovely]
7e7c85fd296c: Pushed
5498e8c22f69: Mounted from library/ubuntu
latest: digest: sha256:f5e5d28803ac1d0b24be83f27f40e1c671cb449ce0093e53cffd0b629f98fc00 size: 741
ubuntu@ip-172-31-28-52:~$
```



A new VM with tag name: 'check' was launched

Docker was installed on it and the 'image name : lovely' pulled.

sudo docker pull subby83/lovely

```
Mar 26 17:50:35 ip-172-31-19-150 dockerd[2534]: time="2024-03-26T17:50:35.526803484Z" level=info msg="Docker daemon" commit="24.0.5-0ubuntu~
Mar 26 17:50:35 ip-172-31-19-150 dockerd[2534]: time="2024-03-26T17:50:35.527312423Z" level=info msg="Daemon has completed initialization"
Mar 26 17:50:35 ip-172-31-19-150 dockerd[2534]: time="2024-03-26T17:50:35.589101278Z" level=info msg="API listen on /run/docker.sock"
Mar 26 17:50:35 ip-172-31-19-150 systemd[1]: Started Docker Application Container Engine.
lines 1-21/21 (END)
ubuntu@ip-172-31-19-150:~$ sudo docker pull lovely
Using default tag; latest
Error response from daemon: pull access denied for lovely, repository does not exist or may require 'docker login': denied: requested access to the resource is denied
ubuntu@ip-172-31-19-150:~$ sudo docker pull subby83/lovely
Using default tag; latest
latest: Pulling from subby83/lovely
b0cd10f490ab: Pull complete
764e17c2e6e9: Pull complete
Digest: sha256:f5e5d28803ac1d0b24be83f27f40e1c671cb449ce0093e53cfff0b629f98fc00
Status: Downloaded newer image for subby83/lovely:latest
docker.io/subby83/lovely:latest
ubuntu@ip-172-31-19-150:~$
```

i-09328db77ffcf1257 (check)

PublicIPs: 54.234.229.80 PrivateIPs: 172.31.19.150

sudo docker run -it -d -p 80:80 subby83/lovely

sudo docker ps

sudo docker exec -it 9e28b0223787 bash

service apache2 start

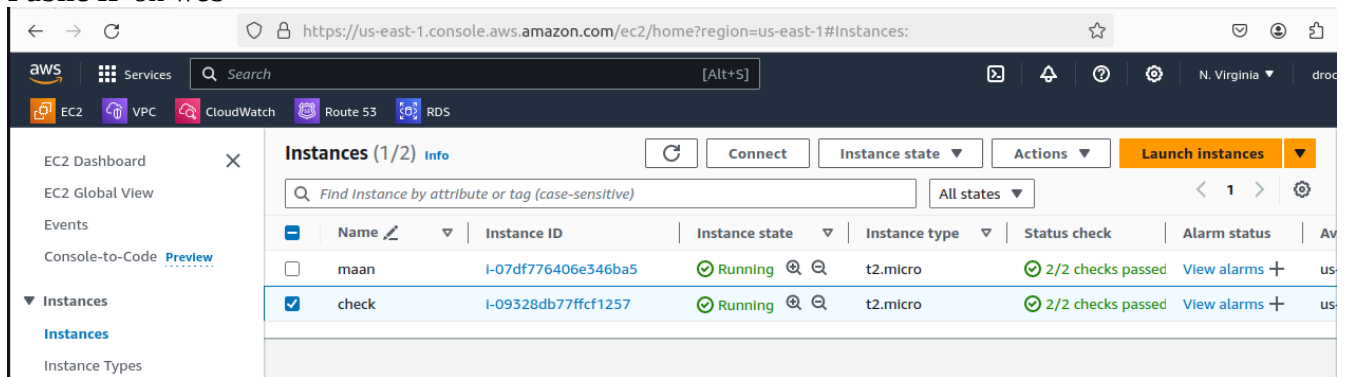
service apache2 status

```
ubuntu@ip-172-31-19-150:~$ sudo docker run -it -d -p 80:80 subby83/lovely
9e28b0223787a29dc3876f9f3f00946d01be2aaa39b85bb2d059e51a4319c59c
ubuntu@ip-172-31-19-150:~$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
9e28b0223787   subby83/lovely  "/bin/bash"             About a minute ago    Up About a minute    0.0.0.0:80->80/tcp, :::80->80/tcp    crazy_wu
ubuntu@ip-172-31-19-150:~$ sudo docker exec -it 9e28b0223787
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.

Usage:  docker exec [OPTIONS] CONTAINER COMMAND [ARG...]

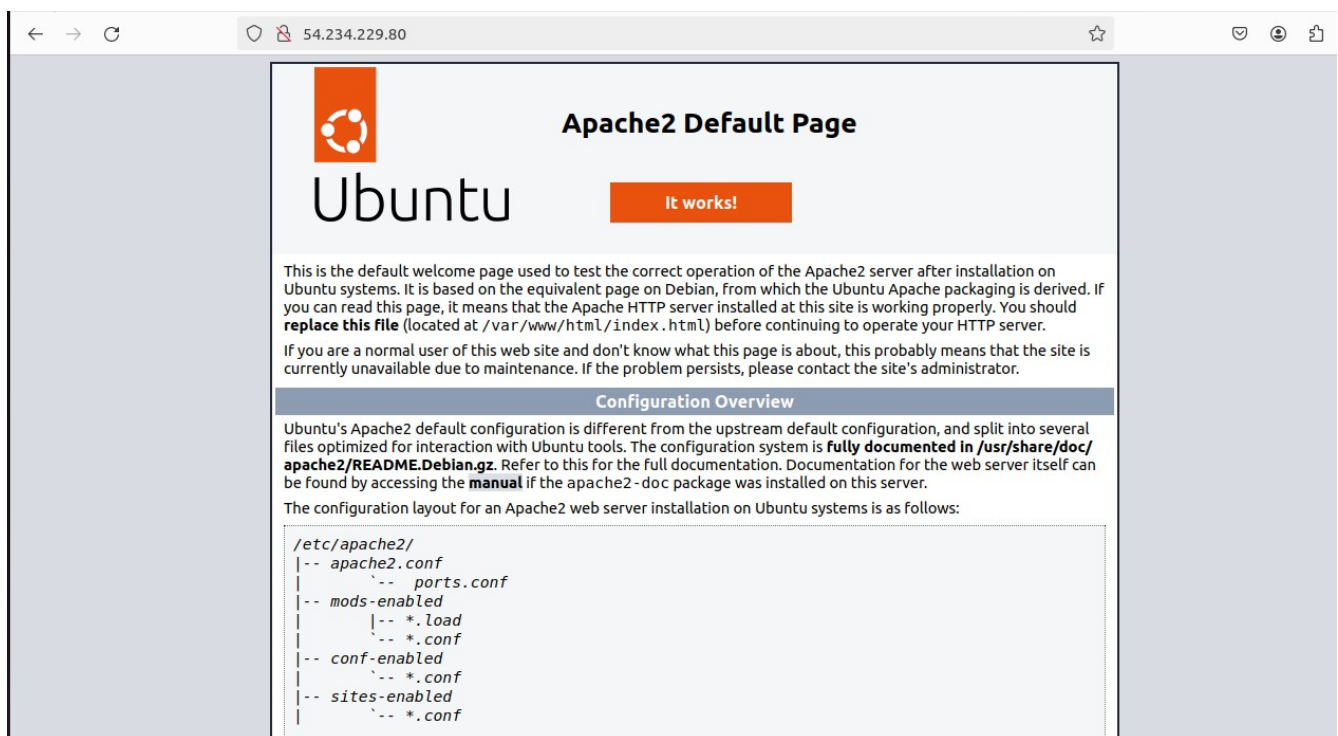
Execute a command in a running container
ubuntu@ip-172-31-19-150:~$ sudo docker exec -it 9e28b0223787 bash
root@9e28b0223787:/# service apache2 start
 * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
 *
root@9e28b0223787:/# service apache2 status
 * apache2 is running
root@9e28b0223787:/#
```

Public IP on web



The screenshot shows the AWS Management Console for the us-east-1 region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Console-to-Code, and Instances. The main content area displays the 'Instances (1/2)' page. A table lists the instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
maan	i-07df776406e346ba5	Running	t2.micro	2/2 checks passed	View alarms
check	i-09328db77ffc1257	Running	t2.micro	2/2 checks passed	View alarms



The screenshot shows a web browser displaying the Apache2 Default Page on Ubuntu. The page features the Ubuntu logo and the text 'Apache2 Default Page'. A message 'It works!' is displayed in an orange box. Below this, a 'Configuration Overview' section provides information about the Apache2 configuration on Ubuntu, including a code block showing the directory structure of the configuration files:

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