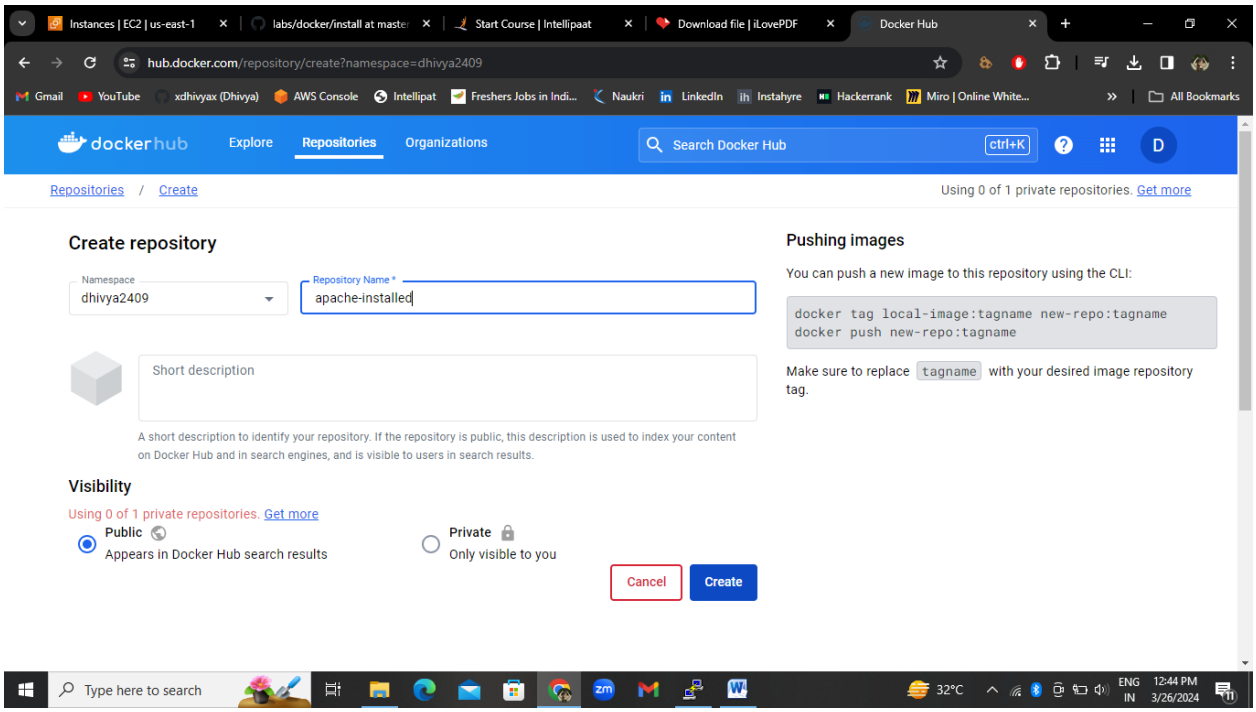
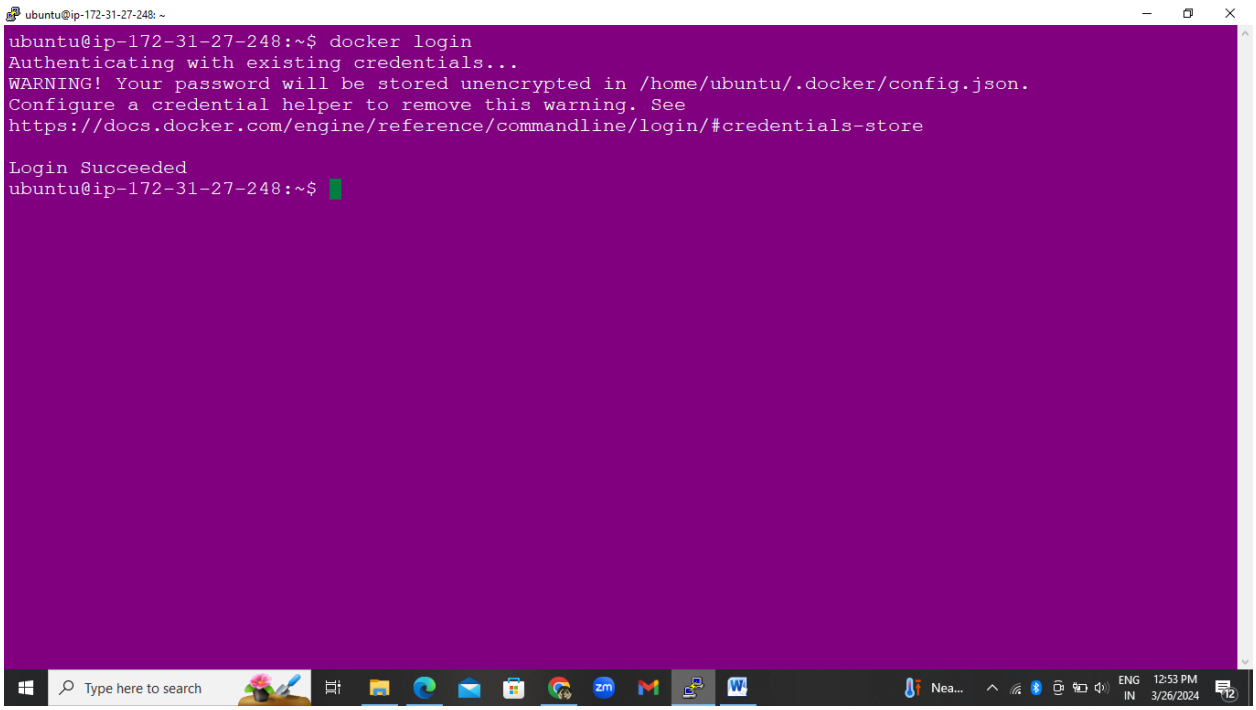
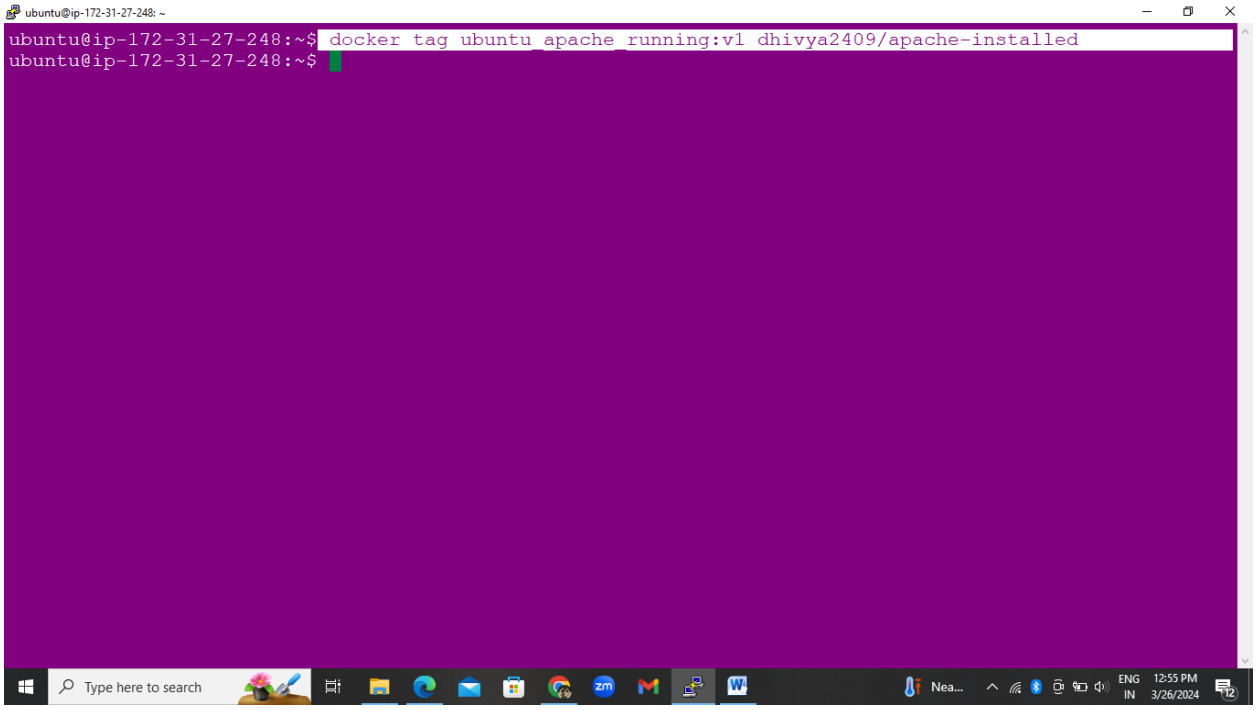
Module-3: Docker – I Assignment - 3

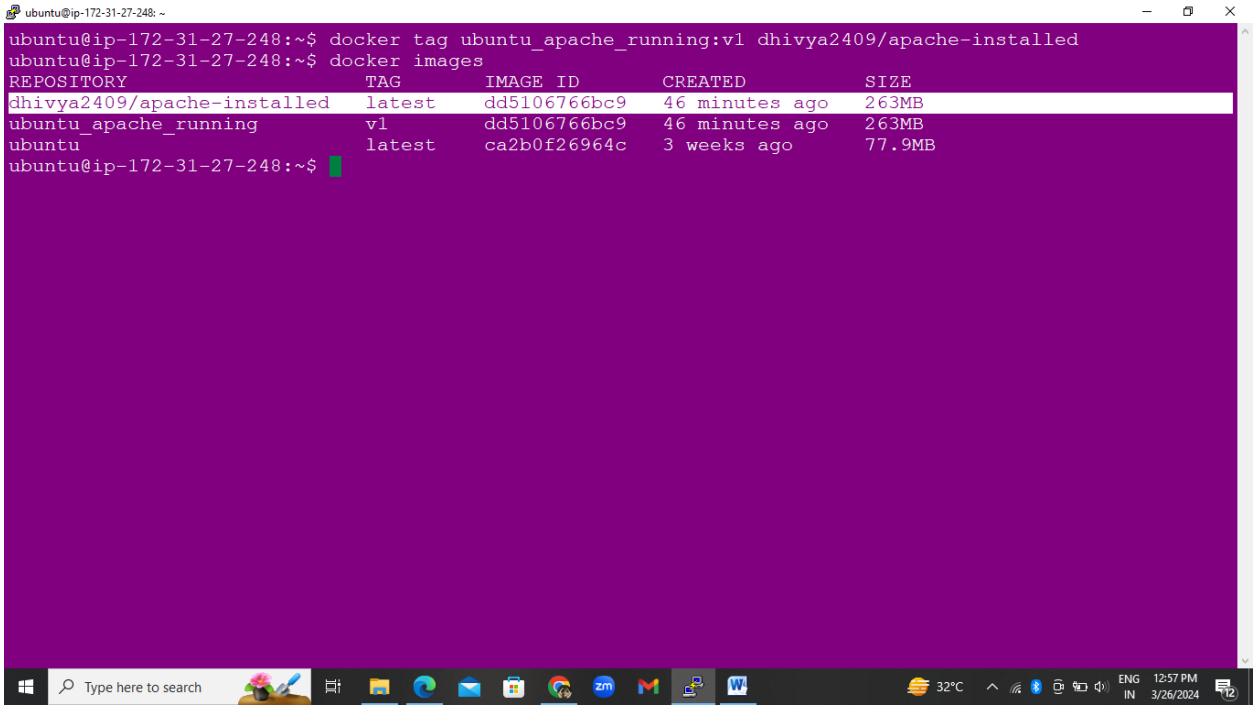
You have been asked to:

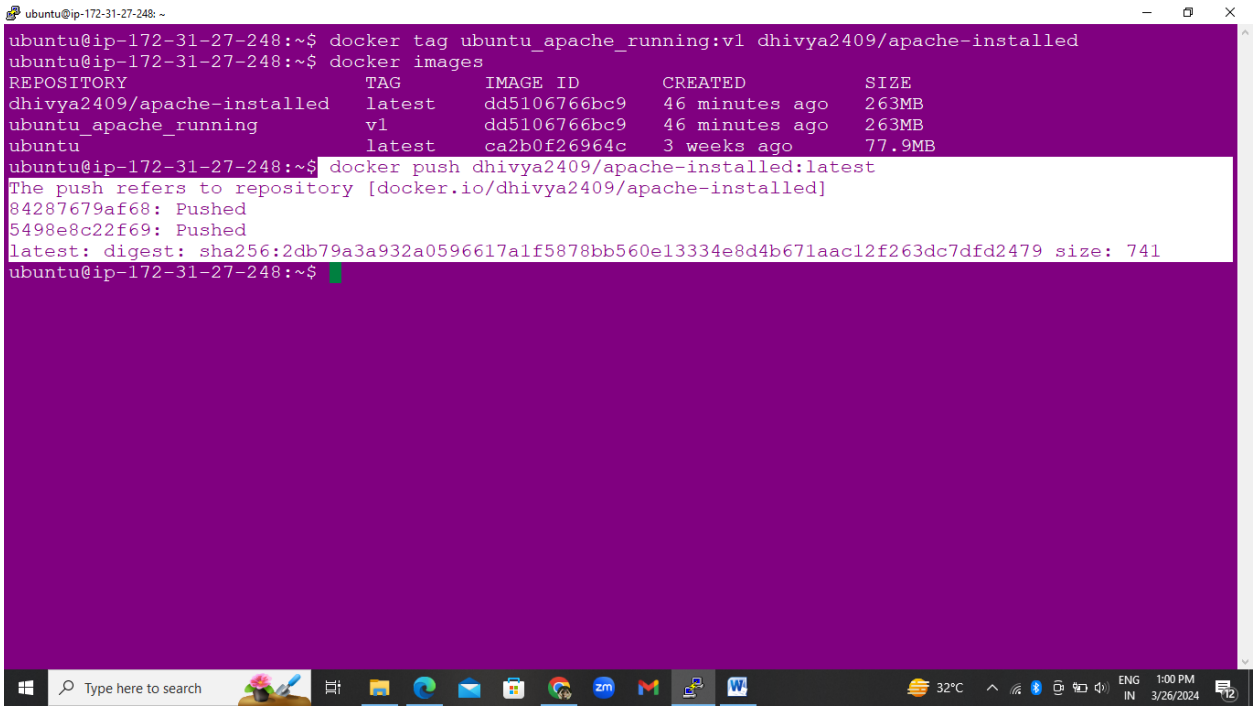
- Use the saved image in the previous assignment
- Upload this image on Dockerhub
- On a separate machine pull this dockerhub image, and launch it on port 80
- Start the apache2 service
- Verify if you are able to see the apache2 service

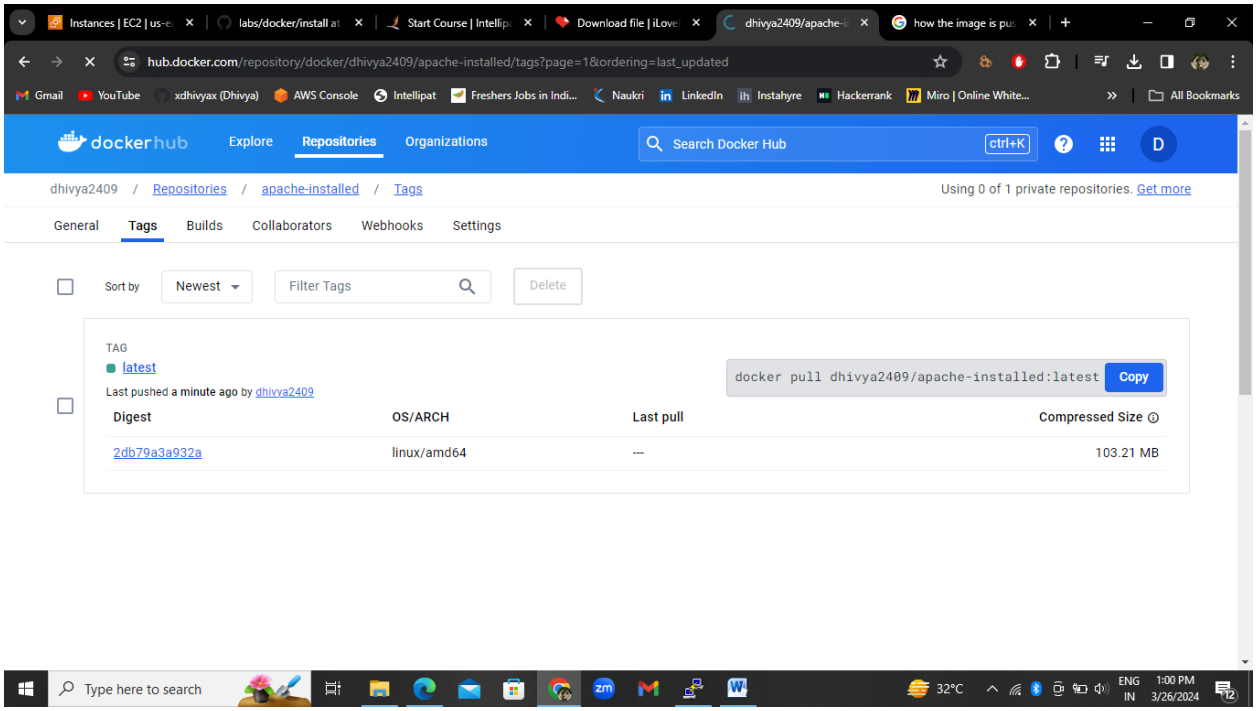



ubuntu@ip-172-31-27-248: ~
ubuntu@ip-172-31-27-248:~$ docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /home/ubuntu/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
ubuntu@ip-172-31-27-248:~$
Type here to search
ENG
IN
12:53 PM
3/26/2024

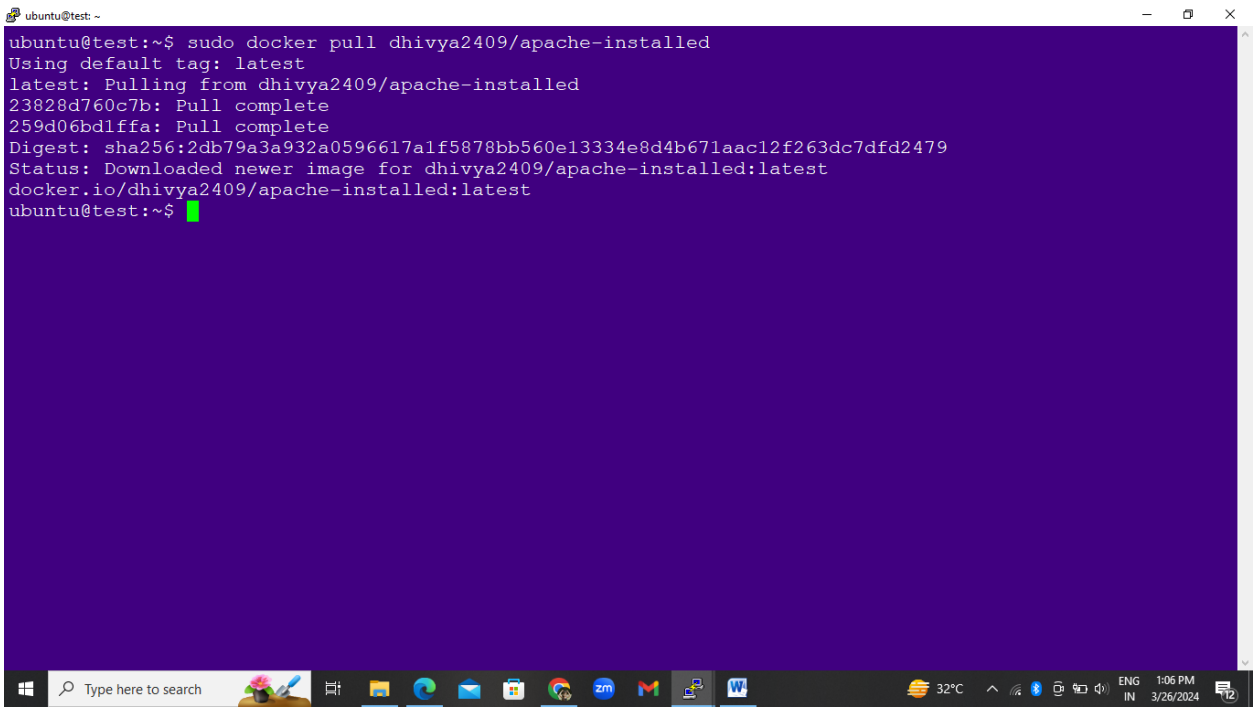

ubuntu@ip-172-31-27-248: ~
ubuntu@ip-172-31-27-248:~$ docker tag ubuntu_apache_running:v1 dhivya2409/apache-installed
ubuntu@ip-172-31-27-248:~$
Type here to search
ENG
IN
12:55 PM
3/26/2024

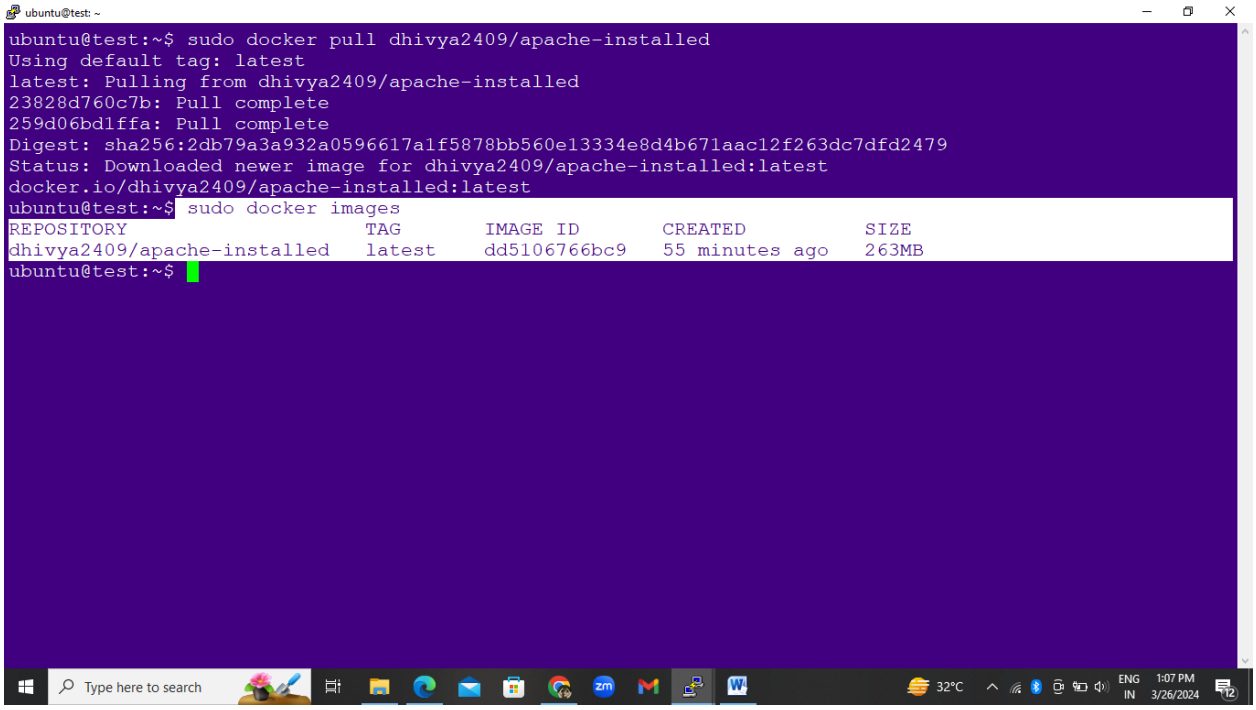

ubuntu@ip-172-31-27-248: ~
ubuntu@ip-172-31-27-248:~$ docker tag ubuntu_apache_running:v1 dhivya2409/apache-installed
ubuntu@ip-172-31-27-248:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
dhivya2409/apache-installed latest dd5106766bc9 46 minutes ago 263MB
ubuntu_apache_running v1 dd5106766bc9 46 minutes ago 263MB
ubuntu latest ca2b0f26964c 3 weeks ago 77.9MB
ubuntu@ip-172-31-27-248:~$
Type here to search
32°C
ENG
IN
12:57 PM
3/26/2024

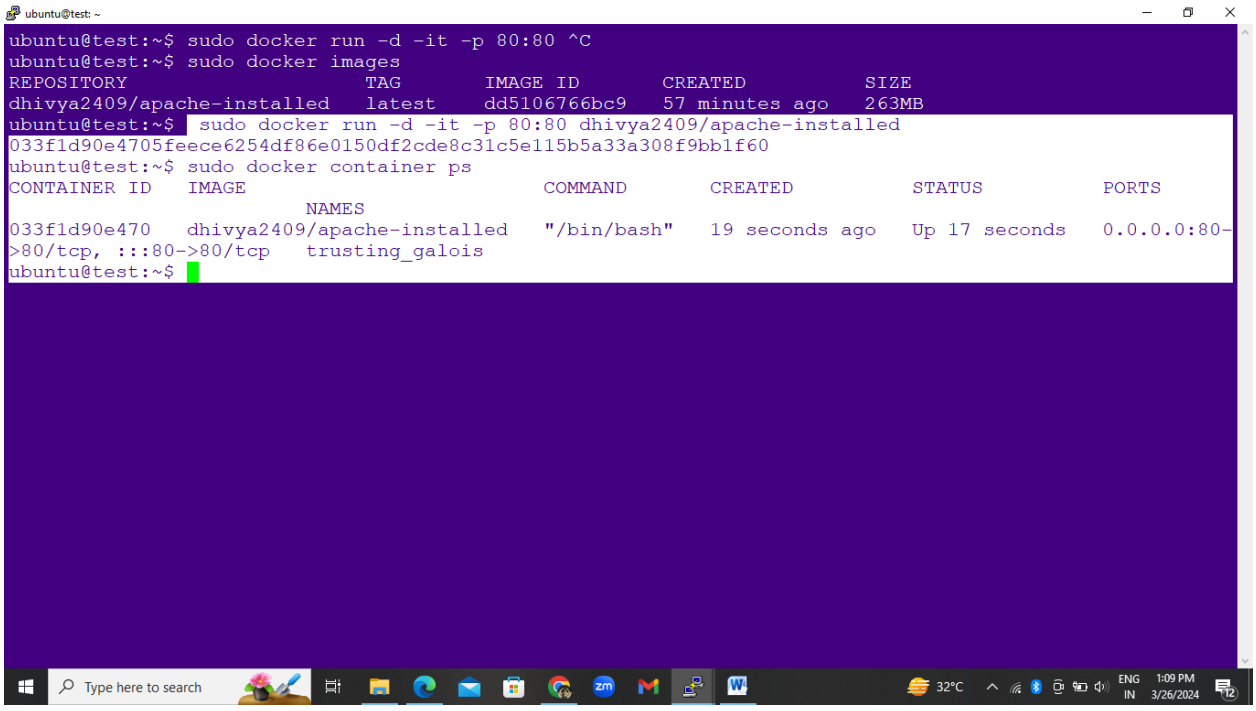

ubuntu@ip-172-31-27-248: ~
ubuntu@ip-172-31-27-248:~$ docker tag ubuntu_apache_running:v1 dhivya2409/apache-installed
ubuntu@ip-172-31-27-248:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
dhivya2409/apache-installed latest dd5106766bc9 46 minutes ago 263MB
ubuntu_apache_running v1 dd5106766bc9 46 minutes ago 263MB
ubuntu latest ca2b0f26964c 3 weeks ago 77.9MB
ubuntu@ip-172-31-27-248:~$ docker push dhivya2409/apache-installed:latest
The push refers to repository [docker.io/dhivya2409/apache-installed]
84287679af68: Pushed
5498e8c22f69: Pushed
latest: digest: sha256:2db79a3a932a0596617a1f5878bb560e13334e8d4b671aac12f263dc7dfd2479 size: 741
ubuntu@ip-172-31-27-248:~$
Type here to search
32°C
ENG
IN
1:00 PM
3/26/2024

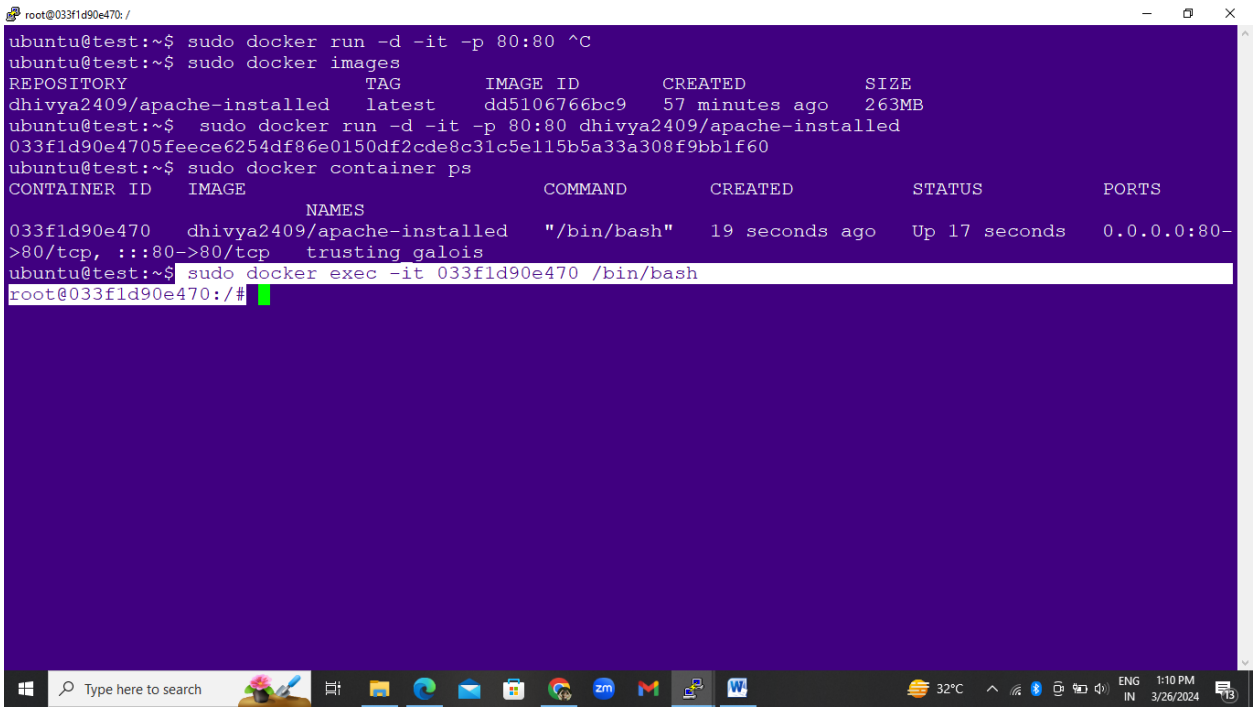

hub.docker.com/repository/docker/dhivya2409/apache-installed/tags?page=1&ordering=last_updated
dockerhub
Explore
Repositories
Organizations
Search Docker Hub
ctrl+K
dhivya2409 / Repositories / apache-installed / Tags
Using 0 of 1 private repositories. Get more
General
Tags
Builds
Collaborators
Webhooks
Settings
Sort by
Newest
Filter Tags
Delete
TAG
latest
Last pushed a minute ago by dhivya2409
docker pull dhivya2409/apache-installed:latest
Copy
Digest
OS/ARCH
Last pull
Compressed Size
2db79a3a932a
linux/amd64

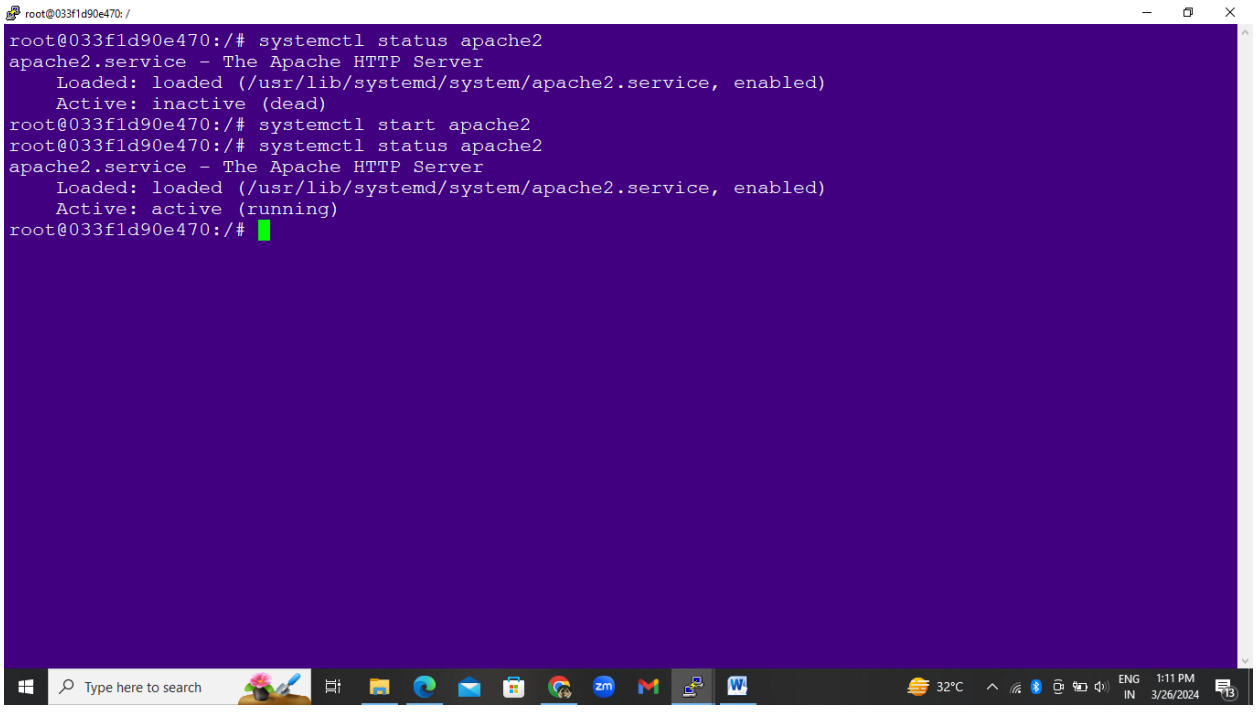
103.21 MB
Type here to search
32°C
ENG
IN
1:00 PM
3/26/2024

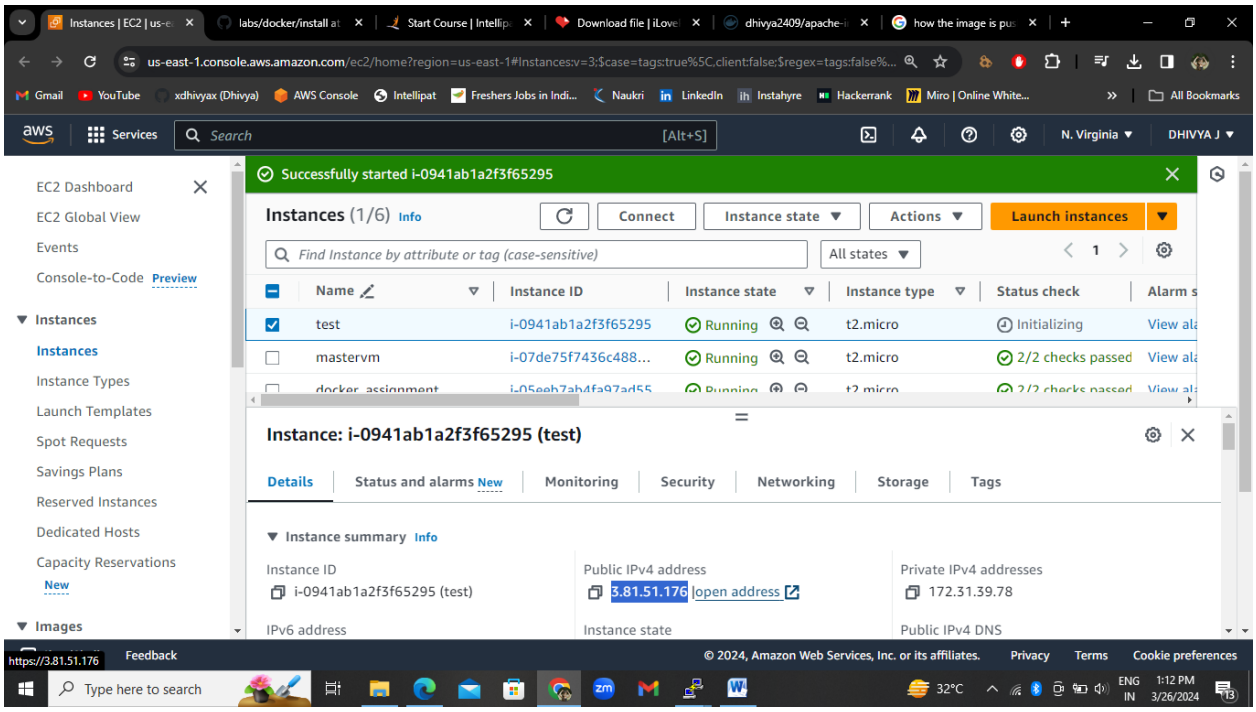

ubuntu@test: ~
ubuntu@test:~$ sudo docker pull dhivya2409/apache-installed
Using default tag: latest
latest: Pulling from dhivya2409/apache-installed
23828d760c7b: Pull complete
259d06bd1ffa: Pull complete
Digest: sha256:2db79a3a932a0596617a1f5878bb560e13334e8d4b671aac12f263dc7dfd2479
Status: Downloaded newer image for dhivya2409/apache-installed:latest
docker.io/dhivya2409/apache-installed:latest
ubuntu@test:~$
Type here to search
32°C
ENG
IN
1:06 PM
3/26/2024

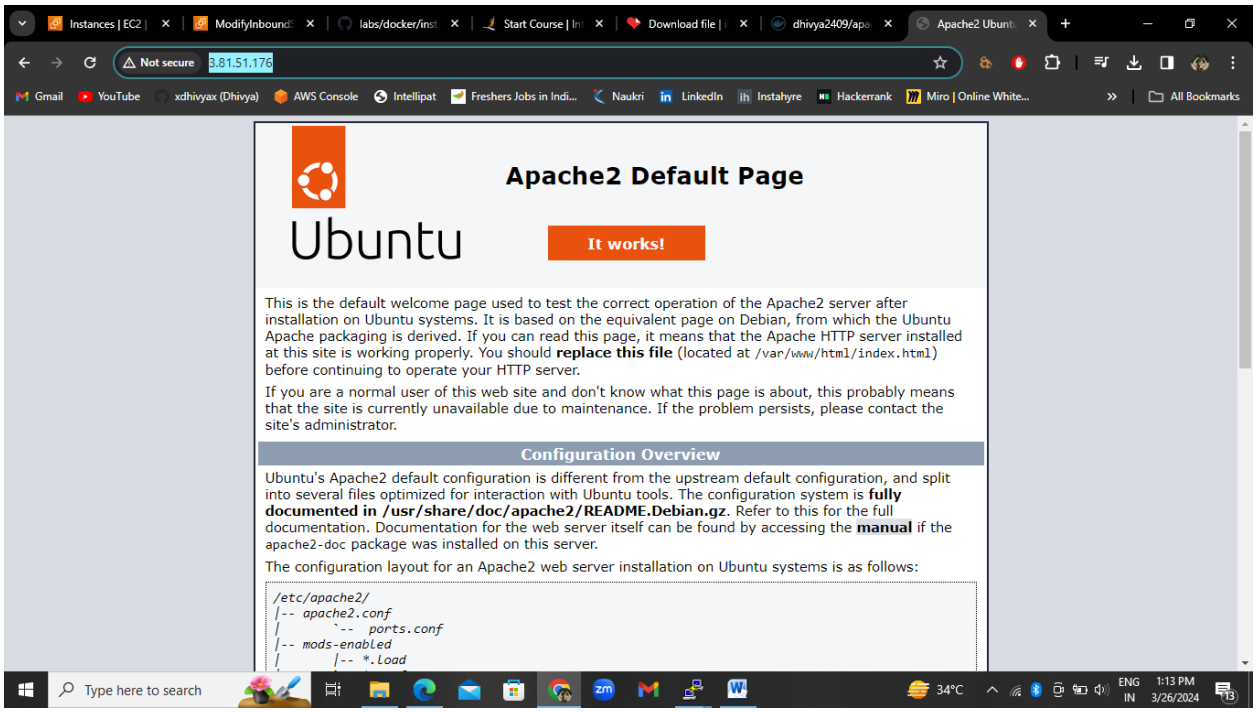

ubuntu@test: ~
ubuntu@test:~$ sudo docker pull dhivya2409/apache-installed
Using default tag: latest
latest: Pulling from dhivya2409/apache-installed
23828d760c7b: Pull complete
259d06bd1ffa: Pull complete
Digest: sha256:2db79a3a932a0596617a1f5878bb560e13334e8d4b671aac12f263dc7dfd2479
Status: Downloaded newer image for dhivya2409/apache-installed:latest
docker.io/dhivya2409/apache-installed:latest
ubuntu@test:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
dhivya2409/apache-installed latest dd5106766bc9 55 minutes ago 263MB
ubuntu@test:~$
Type here to search
32°C
ENG
IN
1:07 PM
3/26/2024


ubuntu@test: ~
ubuntu@test:~$ sudo docker run -d -it -p 80:80 ^C
ubuntu@test:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
dhivya2409/apache-installed latest dd5106766bc9 57 minutes ago 263MB
ubuntu@test:~$ sudo docker run -d -it -p 80:80 dhivya2409/apache-installed
033f1d90e4705feece6254df86e0150df2cde8c31c5e115b5a33a308f9bb1f60
ubuntu@test:~$ sudo docker container ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
033f1d90e470 dhivya2409/apache-installed "/bin/bash" 19 seconds ago Up 17 seconds 0.0.0.0:80-
>80/tcp, :::80->80/tcp trusting_galois
ubuntu@test:~$
Type here to search
32°C
ENG
IN
1:09 PM
3/26/2024


root@033f1d90e470: /
ubuntu@test:~$ sudo docker run -d -it -p 80:80 ^C
ubuntu@test:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
dhivya2409/apache-installed latest dd5106766bc9 57 minutes ago 263MB
ubuntu@test:~$ sudo docker run -d -it -p 80:80 dhivya2409/apache-installed
033f1d90e4705feece6254df86e0150df2cde8c31c5e115b5a33a308f9bb1f60
ubuntu@test:~$ sudo docker container ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
033f1d90e470 dhivya2409/apache-installed "/bin/bash" 19 seconds ago Up 17 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp trusting_galois
ubuntu@test:~$ sudo docker exec -it 033f1d90e470 /bin/bash
root@033f1d90e470:/#
Type here to search
32°C
ENG IN
1:10 PM 3/26/2024


root@033f1d90e470: /
root@033f1d90e470:/# systemctl status apache2
apache2.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/apache2.service, enabled)
Active: inactive (dead)
root@033f1d90e470:/# systemctl start apache2
root@033f1d90e470:/# systemctl status apache2
apache2.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/apache2.service, enabled)
Active: active (running)
root@033f1d90e470:/#
Type here to search
32°C
ENG IN
1:11 PM 3/26/2024


Successfully started i-0941ab1a2f3f65295
Instances (1/6) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
test
i-0941ab1a2f3f65295
Running
t2.micro
Initializing
mastervm
i-07de75f7436c488...
Running
t2.micro
2/2 checks passed
Instance: i-0941ab1a2f3f65295 (test)
Details
Status and alarms New
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0941ab1a2f3f65295 (test)
Public IPv4 address
3.81.51.176 open address
Private IPv4 addresses
172.31.39.78
IPv6 address
Instance state
Public IPv4 DNS
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Not secure 3.81.51.176
Apache2 Default Page
Ubuntu
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