

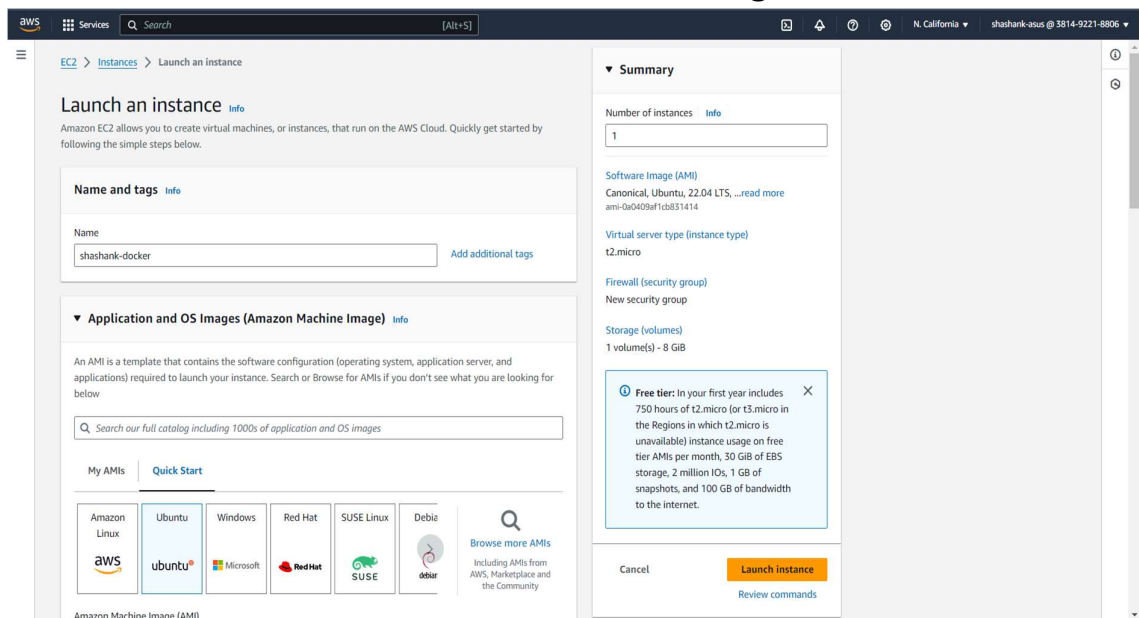
Task

Creating docker image of nginx

Name – Shashank Sharma

Note – for docker practical you need docker hub account

1. Create and launch EC2 instance with ubuntu image.



2. Install the docker into the terminal.

Use commands

Sudo -i

Link - <https://docs.docker.com/engine/install/ubuntu/>

After installing docker in your terminal use commad

Systemctl start docker

3. Take a git clone of your repo. In which your image file is present.

Use commands

git clone <your repo https code>

ls

cd <your repo>

ls

Enter in your folder or file which contain docker image script or code.

4. Create docker image from your docker image file using command.
docker build .

```
root@ip-172-31-24-247:~/docker_images/nginx# docker build .
[+] Building 6.9s (6/6) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 250B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/2] FROM docker.io/library/nginx:latest@sha256:6db391d1c0c0fb30588ba0bf72ea999404f2764feb0f1f196acd5867ac7efa7e
=> resolve docker.io/library/nginx:latest@sha256:6db391d1c0c0fb30588ba0bf72ea999404f2764feb0f1f196acd5867ac7efa7e
=> sha256:92b11f67642b62bb98e7e49169c346b30e20cd3c1c034d31087e46924b9312e 7.02kB / 7.02kB
=> sha256:e78b137be3552e1f36d84cb01c533a23febe4c48f6cddf5d5b26a45a636053b 41.39MB / 41.39MB
=> sha256:39fc875bd2b2e4f867e8e5cc5ad43bd5d6650ddef8c28b04f3747f7bca085f3 624B / 624B
=> sha256:6db391d1c0c0fb30588ba0bf72ea999404f2764feb0f1f196acd5867ac7efa7e 9.85kB / 9.85kB
=> sha256:52478f8cd6a142fd462f0a7614a7bb06ae969a4c083648235d6943c786df8cc7 2.29kB / 2.29kB
=> sha256:8a1e25ce7c4f75e372e9884f8f7b1bedcfe4a7a7d452eb4b0a1c7477c9a90345 29.12MB / 29.12MB
=> sha256:87c3fb37cbf2f763f67f3b270aa0785ca05a2caedac399b4bfedfd0cccd77d87 392B / 392B
=> sha256:035788421403127b57e688a82706198331f06545a955b526f89f2bf53f52b078 954B / 954B
=> extracting sha256:8a1e25ce7c4f75e372e9884f8f7b1bedcfe4a7a7d452eb4b0a1c7477c9a90345
=> sha256:c5cdd1ce752da415a6563d9432e1ee718b2f4ba353ee2bb7c8ce2aa78d5b4ee1 1.21kB / 1.21kB
=> sha256:33952c5995320e59a81112f411bf02e097562a72c12e85828da51132ace47cd 1.40kB / 1.40kB
=> extracting sha256:e78b137be3552e1f36d84cb01c533a23febe4c48f6cddf5d5b26a45a636053b
=> extracting sha256:39fc875bd2b2e4f867e8e5cc5ad43bd5d6650ddef8c28b04f3747f7bca085f3
=> extracting sha256:035788421403127b57e688a82706198331f06545a955b526f89f2bf53f52b078
=> extracting sha256:87c3fb37cbf2f763f67f3b270aa0785ca05a2caedac399b4bfedfd0cccd77d87
=> extracting sha256:c5cdd1ce752da415a6563d9432e1ee718b2f4ba353ee2bb7c8ce2aa78d5b4ee1
=> extracting sha256:33952c5995320e59a81112f411bf02e097562a72c12e85828da51132ace47cd
=> [2/2] RUN echo "<html>..... HELLO EVERYONE THIS PAGE HOSTED VIA DOCKER IMAGE CREATION .....</html>" > /usr/share/nginx/html/index.html
=> exporting to image
=> exporting layers
=> writing image sha256:798837aac52c1cc9b398bf375882406e566406e0dfff327f3fdba62a7f56021c
```

5. After building of image use this command to see your image created or not use command.

docker images or docker image ls

```
root@ip-172-31-24-247:~/docker_images/nginx# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> 798837aac52c 43 seconds ago 187MB
```

6. Give tag to the images use command.

```
docker tag <image_id> <dockerhub-user>/<dockerhub-repo>[:<tag>]
```

docker images or docker image ls

```
root@ip-172-31-7-104:~# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
589a69e17a91	nginx	"/docker-entrypoint..."	3 minutes ago	Up 3 minutes	80/tcp	intelligent_kirch

7. Add port number to the image use command.

```
docker run -d -p <port-no>:<image-port-no> <dockerhub-user>/<dockerhub-repo>[:<tag>]
```

docker ps

```
root@ip-172-31-7-104:~# docker run -d -p 8080:80 nginx
2f06f5a8220ad7c74a9b87bb4b3371ee1f560e22c0662209f3e55ec698564ddc
root@ip-172-31-7-104:~# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
2f06f5a8220a	nginx	"/docker-entrypoint..."	About a minute ago	Up About a minute	0.0.0.0:8080->80/tcp, :::8080->80/tcp	jovial_tesla
589a69e17a91	nginx	"/docker-entrypoint..."	6 minutes ago	Up 6 minutes	80/tcp	intelligent_kirch

8. Login into your docker hub account use

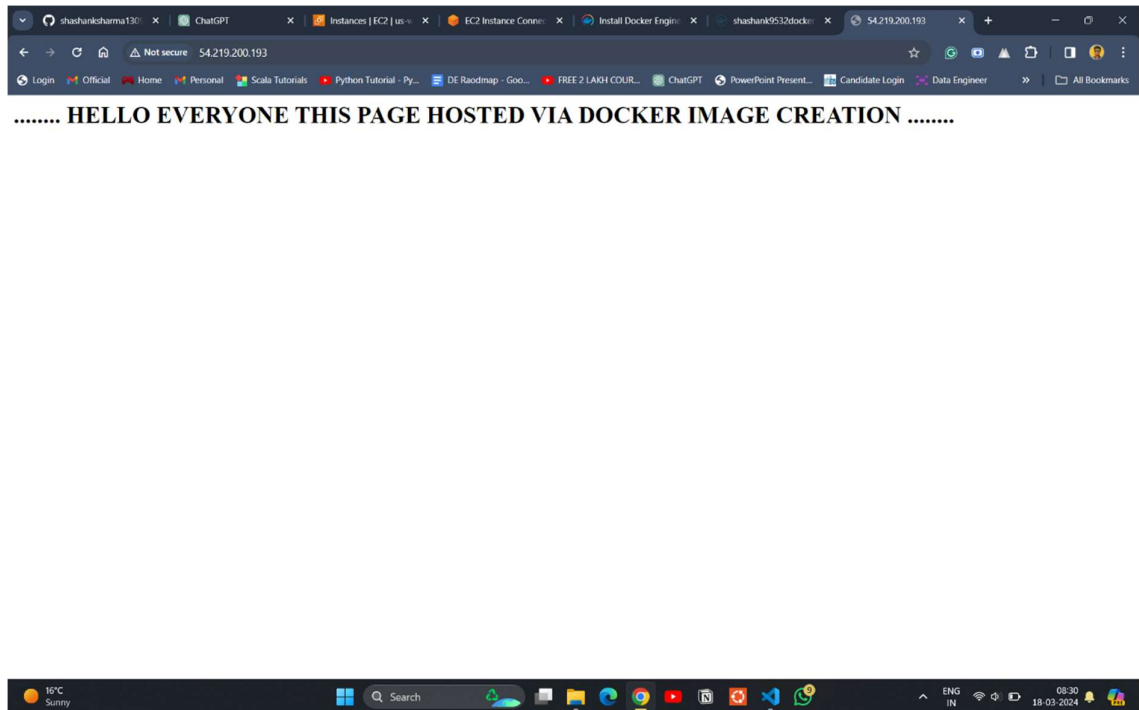
```
docker login
```

(It ask for dockerhub username & password enter this)

9. Use push command to push your image to your docker repo.

```
docker push <dockerhub-user>/<dockerhub-repo>[:<tag>]
```

10. Copy the IP address and host into the browser.



11. Go your dockerhub and check whether your image push or not.



shashank9532dockerhub/docker:newone

Delete Tag

MANIFEST DIGEST sha256:1a398dbbc1704f83455c2d4e0338cdc882f659a57f97cb2c04b141689e72497c

OS/ARCH	COMPRESSED SIZE	LAST PUSHED	TYPE	MANIFEST DIGEST
linux/amd64	231.62 MB	38 minutes ago by shashank9532dockerhub	Image	sha256:1a398dbb...

Image Layers Vulnerabilities

IMAGE LAYERS

1	ADD file ... in /	72.57 MB	Command
2	LABEL org.label-schema.schema-version=1.0 org.label...	0 B	ADD file:b3ebbe8bd384723d43b7b44a6d998cd657b63d93d6a2a9293983a398fc1dfa53 in /
3	CMD ["/bin/bash"]	0 B	
4	LABEL centos_demo== shashank	0 B	
5	RUN /bin/sh -c yum install	186.16 MB	
6	RUN /bin/sh -c yum install	50.82 MB	