Task

Creating docker image of nginx

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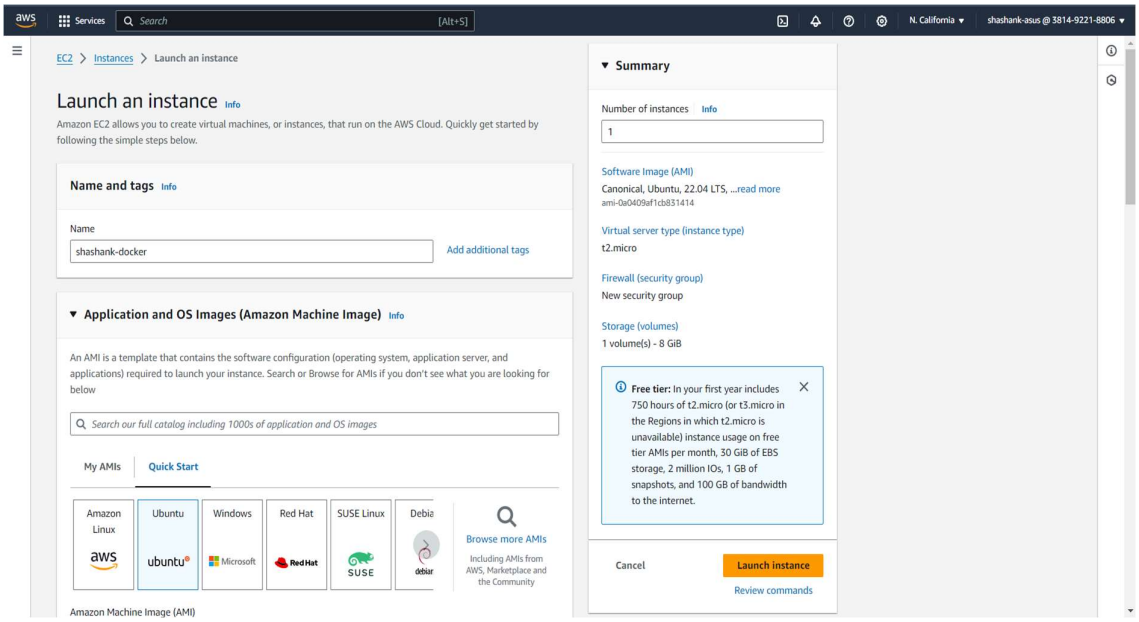
Note – for docker practical you need docker hub account

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

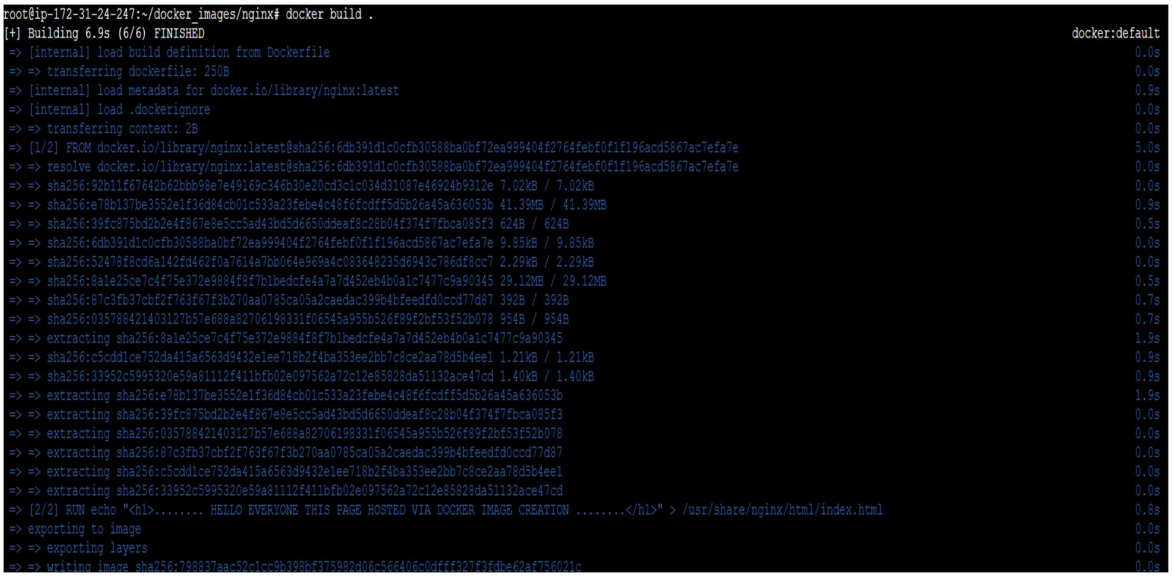
cd <your repo>

ls

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

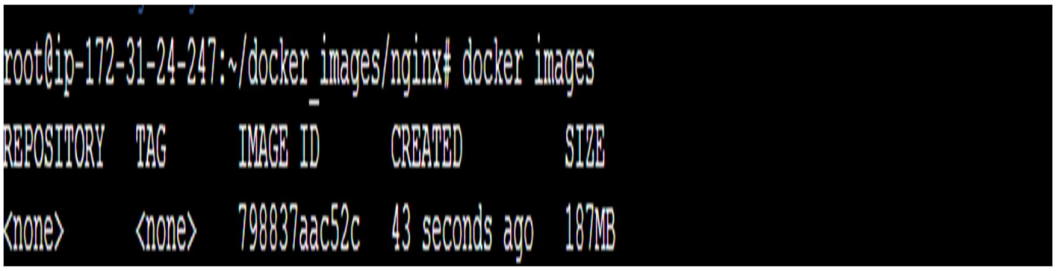
4. Create docker image from your docker image file using command.

   docker build .



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

   docker images or docker image ls



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

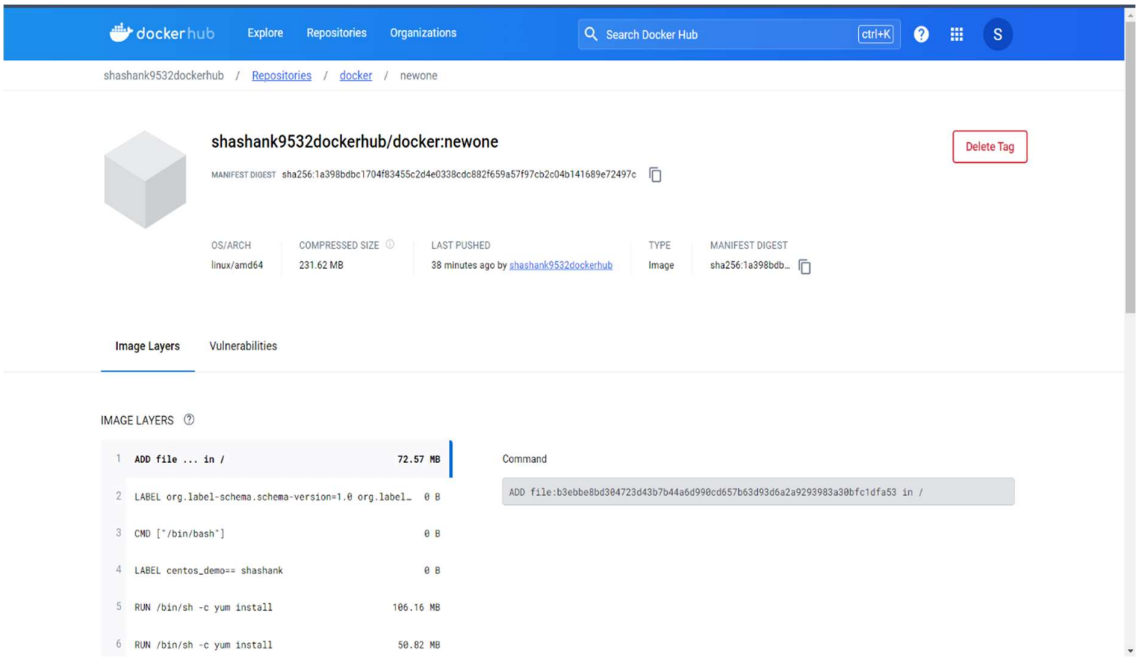
```
root@ip-172-31-7-104:~# docker run -d -p 8080:80 nginx
2f06f5a8220ad7c74a9b87bb4b3371ee1f560e22c0662209f3e55ec698564ddc
root@ip-172-31-7-104:~# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS                                   NAMES
2f06f5a8220a   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.


dockerhub
Explore
Repositories
Organizations
Search Docker Hub
ctrl+K
S
shashank9532dockerhub / Repositories / docker / newone
shashank9532dockerhub/docker:newone
Delete Tag
MANIFEST DIGEST sha256:1a398bdbc1704f83455c2d4e0338cdc882f659a57f97cb2c04b141689e72497c
OS/ARCH
linux/amd64
COMPRESSED SIZE
231.62 MB
LAST PUSHED
38 minutes ago by shashank9532dockerhub
TYPE
Image
MANIFEST DIGEST
sha256:1a398bdb...
Image Layers
Vulnerabilities
IMAGE LAYERS
1 ADD file ... in / 72.57 MB
2 LABEL org.label-schema.schema-version=1.0 org.label... 0 B
3 CMD ["/bin/bash"] 0 B
4 LABEL centos_demo== shashank 0 B
5 RUN /bin/sh -c yum install 106.16 MB
6 RUN /bin/sh -c yum install 50.82 MB
Command
ADD file:b3ebbe8bd304723d43b7b44a6d990cd657b63d93d6a2a9293983a30bfc1dfa53 in /