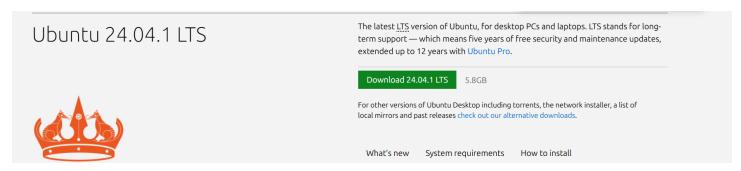
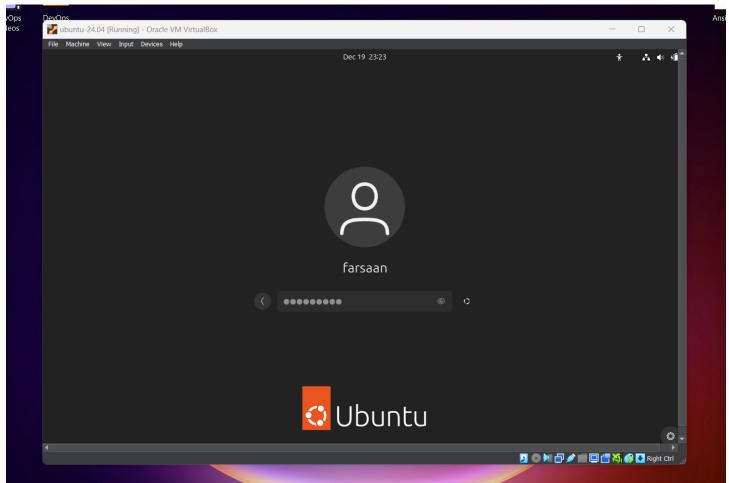
DOCKER-01

1) SETUP A VIRTUAL MACHINE USING UBUNTU IMAGE.



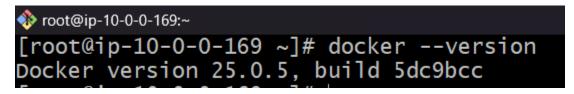


2) INSTALL DOCKER ON EC2.

sudo yum install -y docker

docker -version

systemctl start docker



3) Pull 5 Docker images. (NGINX, APACHE TOMCAT, UBUNTU, JENKINS, SONARQUBE)

```
[root@ip-10-0-0-169 ~]# docker images
REPOSITORY
                        IMAGE ID
             TAG
                                         CREATED
                                                        SIZE
                        f62f518e5c5c
tomcat
              latest
                                         10 days ago
                                                        467MB
sonarqube
              latest
                        6bada21f1230
                                         2 weeks ago
                                                        1.12GB
                        66f8bdd3810c
                                         3 weeks ago
                                                        192MB
nginx
              latest
                        b1d9df8ab815
ubuntu
              latest
                                         4 weeks ago
                                                        78.1MB
jenkins
              2.60.3
                        cd14cecfdb3a
                                                        696MB
                                          years ago
```

4) RUN NGINX CONTAINER AND EXPOSE ON PORT 81.

```
[root@ip-10-0-0-169 ~]# docker run -d -p 81:80 --name mynginx nginx
47ce5c351872a75743cc216446d46b133febd52f867c0bc66d907cfd19068c88
[root@ip-10-0-0-169 ~]# docker container ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
47ce5c351872 nginx "/docker-entrypoint..." 17 seconds ago Up 16 seconds 0.0.0.0:81->80/tcp, :::81->80/tcp mynginx
```

5) DELETE THE APACHE TOMCAT IMAGE FROM LOCAL.

```
[root@ip-10-0-0-169 ~]# docker image rmi tomcat
Untagged: tomcat:latest
Untagged: tomcat@sha256:935ff51abecc8dc793cb19c229ac7a988c8899e5fcba5e69ae96530fa76c4d56
Deleted: sha256:f62f518e5c5c117ed2b23e2868bcbb510edbc7e403246e74694c3e7e05213673
Deleted: sha256:21a52b0ff969560eb7d92bcc040367a001ba0f7da4106663e0ab101b2569f9fb
Deleted: sha256:7a43f5a5837a214963cad3eb2ed5d392e9e297e8fe683b4dd3f88d170a4af962
Deleted: sha256:09bac625fd98c313fbb8e456912fea86f9cf819497001c5a4a046978973f77db
Deleted: sha256:4dd4e3829be4d2564be9abc10745e9784e7ad62e56af90c3c244c596ce638b59
Deleted: sha256:c4a0b3b7746a883fdfd71e07ade13ec4e2ba3812fbcf9527ea49fbb643939940
Deleted: sha256:3ddd3978477832533d9fe07032a9a3bb347740076de810e640dcfc2dbf85e037
Deleted: sha256:c38291e406fe42590effeeabf6a8522b7441718345d9c2bdb56bd217e20b148c
Deleted: sha256:f1ea1df560b257879739de224d12f09c1402ccc4b18405b998927ef1de1af7f1
```

6) INSPECT THE JENKINS IMAGE, SONARQUBE IMAGE.

docker image inspect jenkins:2.60.3

docker image inspect sonarqube

7) RUN JENKINS CONTIANER AND RUN ONE SAMPLE JOB.

docker run -itd -p 8081:8080 jenkins/jenkins

```
[root@ip-10-0-0-169 ~]# docker run -itd -p 8081:8080 jenkins/jenkins
Unable to find image 'jenkins/jenkins:latest' locally
latest: Pulling from jenkins/jenkins
fdf894e782a2: Pull complete
903845c5c222: Pull complete
fa7f6ed646eb: Pull complete
41f06876f339: Pull complete
718d59945474: Pull complete
be3fdbdd74a2: Pull complete
5dc12264d2cd: Pull complete
1c2547651e57: Pull complete
5d7c36b59f5e: Pull complete
b5a00ec9b928: Pull complete
6318eb677308: Pull complete
9978495fa09c: Pull complete
Digest: sha256:bbd73494c04e3687a7ec2f0890a7dd8257bd463c939a7b1bb7d5258ae00db3c6
Status: Downloaded newer image for jenkins/jenkins:latest
0f2ba667c37fe99c453b6cb5bbf7cf55378cbda1632fb96c935536ba434e7136
```

docker exec -it <id> bash

#cat /var/jenkins_home/secrets/initialAdminPassword

```
[root@ip-10-0-0-169 ~]# docker exec -it 0f2 bash
jenkins@0f2ba667c37f:/$ cat /var/jenkins_home/secrets/initialAdminPassword
826dd6be1c2e43859183206f4a21694f
```

