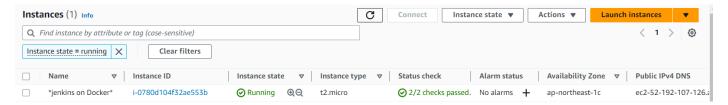
// Run Jenkins on Docker Container. //

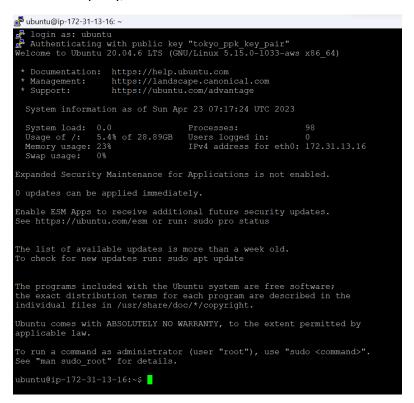
step 1: create an ubuntu instance,

EC2 service – set name EG: Jenkins on docker – in AMIs: ubuntu 20.04 version – instance type: t2.micro – key pair login: .ppk – in network settings (edit): security group: All Traffic – in configuration storage: 30 Gib – lauch instance.

Instance lunched successfully.



Connect to putty,

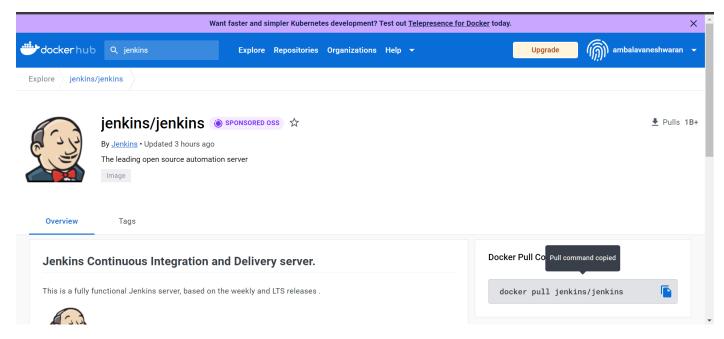


#sudo -i

#apt-get update -y

#apt-get install docker.io -y

In docker hub > explore > search Jenkins and copy and paste in server,



#docker pull Jenkins/Jenkins

```
root@ip-172-31-13-16:~# docker pull jenkins/jenkins
Using default tag: latest
latest: Pulling from jenkins/jenkins
b0248cf3e63c: Pull complete
33b6b181dd75: Pull complete
a0ae619c7e04: Pull complete
628a3df031c5: Pull complete
Oc9cd1e5e117: Pull complete
4a90cdec99a2: Pull complete
a8bb08b626f0: Pull complete
0564e42b8d2d: Pull complete
fd62b7502c2d: Pull complete
f1461e578f49: Pull complete
9cde15aa1b91: Pull complete
f055553ffae1: Pull complete
bcf1ce5799b0: Pull complete
Digest: sha256:7560cc798140cdcdef5b75ca069c28b2a44f179827e3e55076ea18bdfb17b5aa
Status: Downloaded newer image for jenkins/jenkins:latest
docker.io/jenkins/jenkins:latest
```

#docker images ------ Jenkins image is created

```
root@ip-172-31-13-16:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE
jenkins/jenkins latest 6c30514bdde6 4 days ago 471MB
root@ip-172-31-13-16:~#
```

#mkdir /var/Jenkins home

#cd /var/Jenkins_home

#chmod -R 777 /var/Jenkins_home

#docker run -p 8080:8080 -d -v /var/Jenkins home:/var/Jenkins home Jenkins/Jenkins

Now the new Jenkins container is created,

```
root@ip-172-31-13-16:~# mkdir /var/jenkins_home
root@ip-172-31-13-16:~# cd /var/jenkins_home/
root@ip-172-31-13-16:/var/jenkins_home/
root@ip-172-31-13-16:/var/jenkins_home# chmod -R 777 jenkins_home
chmod: cannot access 'jenkins_home': No such file or directory
root@ip-172-31-13-16:/var/jenkins_home# chmod -R 777 /var/jenkins_home
root@ip-172-31-13-16:/var/jenkins_home# docker run -p 8080:8080 -d -v /var/jenkins_home:/var/jenkins_home jenkins/jenkins
bdcda0aee78513e73087a3575534e412b62819f94c6c73a830bbbac3c3c2beba
root@ip-172-31-13-16:/var/jenkins_home#
```

#docker ps

```
root@ip-172-31-13-16:/var/jenkins_home# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
bdcda0aer985 jenkins/jenkins "/usr/bin/tini -- /u..." 2 minutes ago Up 2 minutes 0.0.0.0:8080->8080/tcp, :::8080->8080/tcp, 50000/tcp sharp_neumann
root@ip-172-31-13-16:/var/jenkins_home#
```

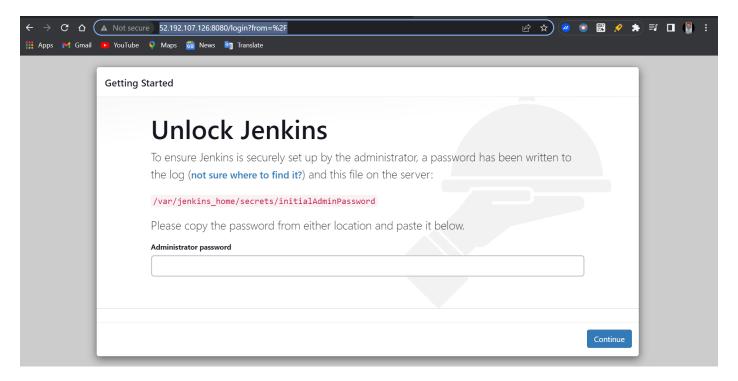
#docker logs <container id>

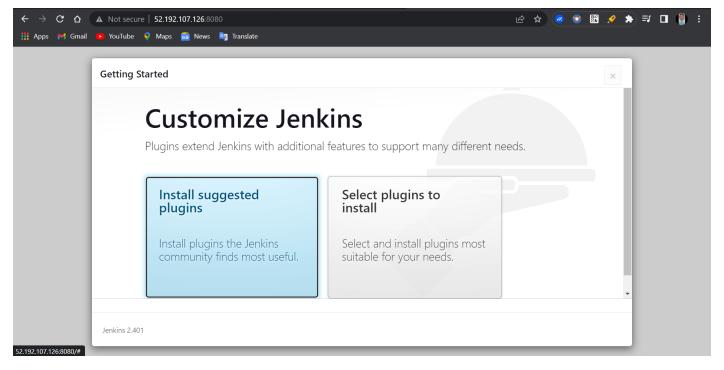
EG: #docker logs bdcda0ae

Now it shows Jenkins container logs, and we can able to see the initial login password of Jenkins:

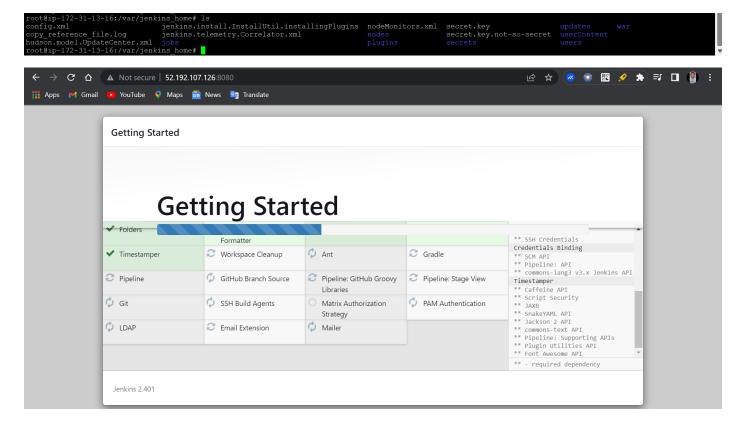
In browser, copy and paste IPv4 address of instance IP address follow by Jenkins port number

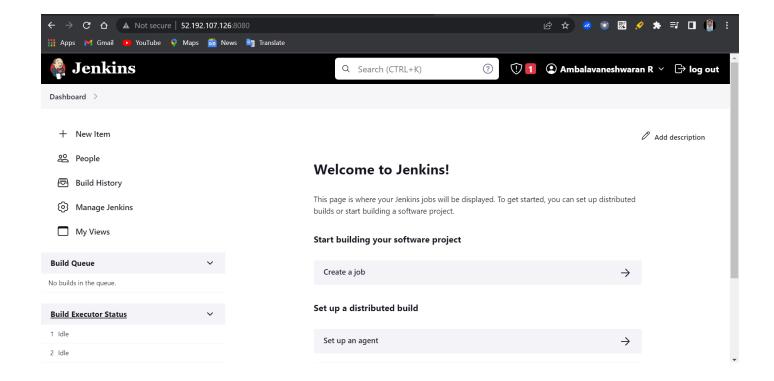
EG: 52.192.107.126:8080





Here you able see the





Here by we seen Running Jenkins through Docker container clearly.