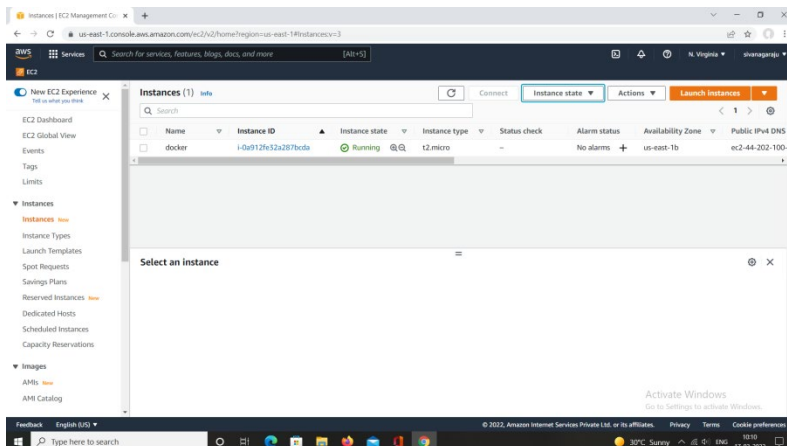
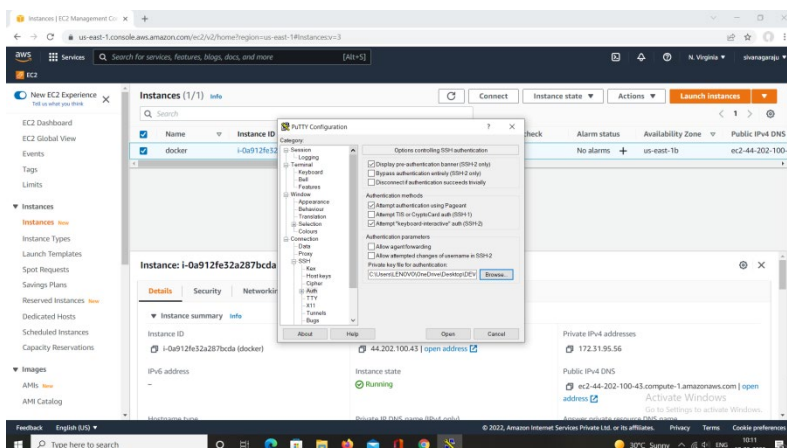


Devops Technical Task

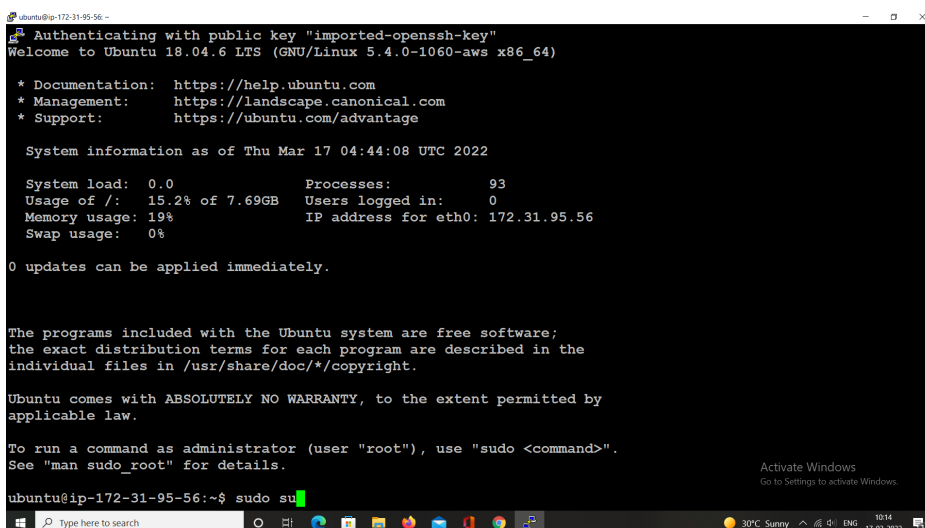
1. Create EC2 Instant ubuntu 18.00 server



2, open putty



3,permission sudo su



4,update the package

Apt –get update

```
root@ip-172-31-95-56:/home/ubuntu# apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [8570 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation-en [4941 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [151 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en [108 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [2464 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [465 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [671 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted Translation-en [92.1 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1794 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [388 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [24.2 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [5980 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [10.3 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main Translation-en [4824 B]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [11.3 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe Translation-en [5772 B]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2118 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [373 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [646 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [88.3 kB]
Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1179 kB]
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [271 kB]
Get:27 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [17.6 kB]
Get:28 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [3660 B]
Fetched 24.7 MB in 5s (4921 kB/s)
Reading package lists... Done
root@ip-172-31-95-56:/home/ubuntu# apt install docker.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd docker.io pigz runc ubuntu-fan
0 upgraded, 6 newly installed, 0 to remove and 52 not upgraded.
Need to get 74.2 MB of archives.
After this operation, 360 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

5,Install Docker:

Apt docker install.io

```
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [5980 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [10.3 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main Translation-en [4824 B]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [11.3 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe Translation-en [5772 B]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2118 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [373 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [646 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [88.3 kB]
Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1179 kB]
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [271 kB]
Get:27 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [17.6 kB]
Get:28 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [3660 B]
Fetched 24.7 MB in 5s (4921 kB/s)
Reading package lists... Done
root@ip-172-31-95-56:/home/ubuntu# apt install docker.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd docker.io pigz runc ubuntu-fan
0 upgraded, 6 newly installed, 0 to remove and 52 not upgraded.
Need to get 74.2 MB of archives.
After this operation, 360 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

6,Docker images

Images

Images and stopped state of containers. Run docker images command

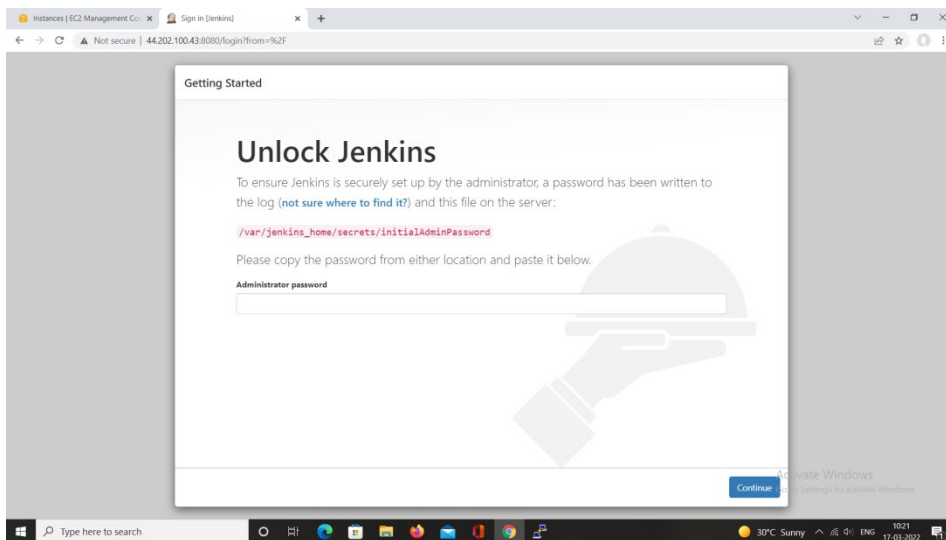
\$ Docker images

7 ,Creat docker image with Jenkins

```
docker run -d --name myjenk -p 8080:8080 jenkins/jenkins
```

```
root@ip-172-31-95-56:/home/ubuntu#
Setting up runc (1.0.1-0ubuntu2~18.04.1) ...
Setting up containerd (1.5.5-0ubuntu3~18.04.2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service -- /lib/systemd/system/containerd.service.
Setting up bridge-utils (1.5-15ubuntu1) ...
Setting up ubuntu-fan (0.12.10) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service -- /lib/systemd/system/ubuntu-fan.service.
Setting up pigz (2.4-1) ...
Setting up docker.io (20.10.7-0ubuntu5~18.04.3) ...
Adding group `docker' (GID 115) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -- /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket -- /lib/systemd/system/docker.socket.
Processing triggers for systemd (237-3ubuntu10.52) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
root@ip-172-31-95-56:/home/ubuntu# docker run -d --name myjenk -p 8080:8080 jenkins/jenkins
Unable to find image 'jenkins/jenkins:latest' locally
latest: Pulling from jenkins/jenkins
e4d61adff207: Pull complete
eacef06daf30: Pull complete
ca581b0141a3: Pull complete
d872c65909bb: Pull complete
bcce550e05a9: Pull complete
3461f061a833: Pull complete
3b6f8a58a68d: Pull complete
```

7, open google chrome past public id past port no:8080 open Jenkins server

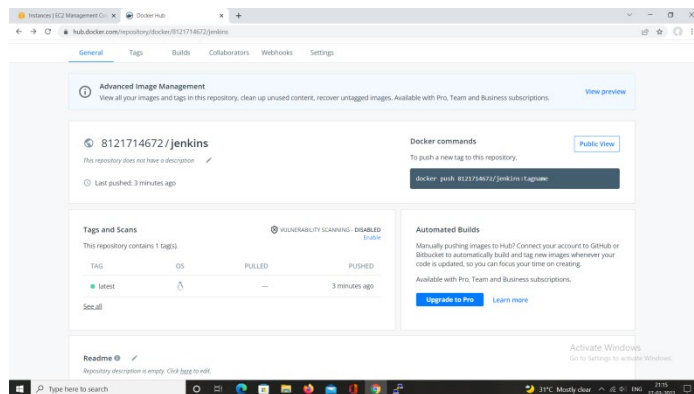


8, Jenkins password generator docker container

```
root@ip-172-31-95-56:/home/ubuntu#
6d47f55055ba: Pull complete
baa80a92c9e4: Pull complete
39889d888af7: Pull complete
18b5e0e36b4c: Pull complete
a53e22d026ad: Pull complete
a281963da5b5: Pull complete
2366689c95a7: Pull complete
27cbe8a0f233: Pull complete
fffcceelc284: Pull complete
a6afec98241f: Pull complete
Digest: sha256:a5215b81a7f6e111ed6625b342521145e24c232891615be29ce3a251a631feac
Status: Downloaded newer image for jenkins/jenkins:latest
decda6f731302fad6be7f832b581972e43fde04f1b4758f22db24d02a2245dd3
root@ip-172-31-95-56:/home/ubuntu# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
jenkins/jenkins     latest             f7d565ddb272       38 hours ago       460MB
root@ip-172-31-95-56:/home/ubuntu# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS             PORTS
decda6f73130      jenkins/jenkins    "/sbin/tini -- /usr/ 3 minutes ago      Up 3 minutes      0.0.0.0:8080->8080/tcp, :::8080->8080/tcp, 50000/tcp
myjenk
root@ip-172-31-95-56:/home/ubuntu# docker exec decda6f73130 cat /var/jenkins_home/secrets/initialAdminPassword
docker: 'exec' is not a docker command.
See 'docker --help'.
root@ip-172-31-95-56:/home/ubuntu# docker exec decda6f73130 cat /var/jenkins_home/secrets/initialAdminPassword
8c9fd3c9a3404e15b4fda01a6b65b5ef
```

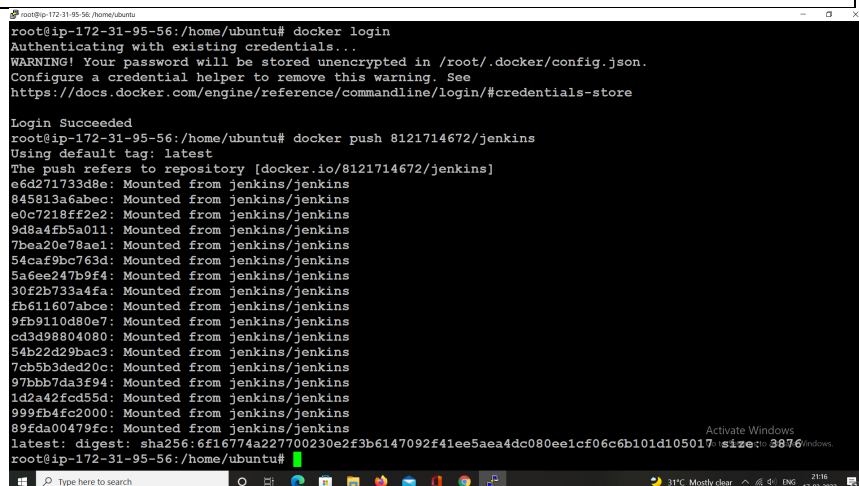
9, DOCKER Login

10,cerat repository docker image on Jenkins



11,docker push Jenkins docker container

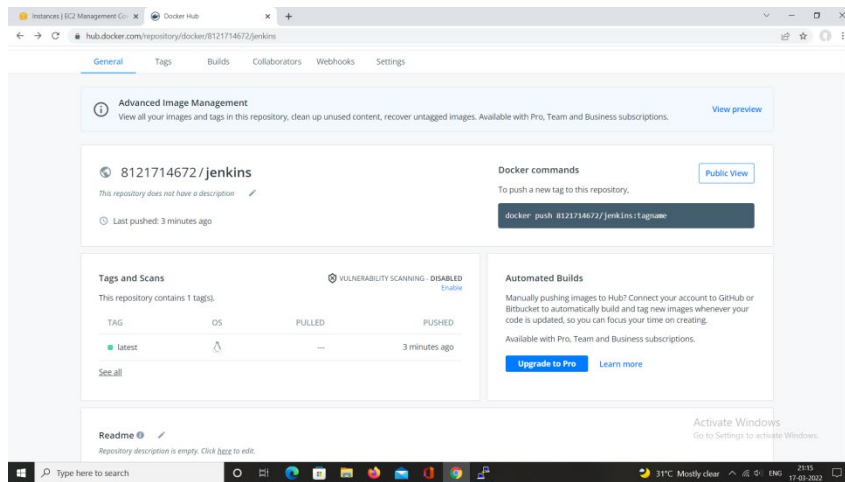
```
$ docker tag jenkins/jenkins 8121714672/jenkins
```



11,docker push Jenkins image

```
docker push 8121714672/jenkins
```

12, docker container



```
root@ip-172-31-95-56:/home/ubuntu# docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
root@ip-172-31-95-56:/home/ubuntu# docker push 8121714672/jenkins
Using default tag: latest
The push refers to repository [docker.io/8121714672/jenkins]
e6d271733d8e: Mounted from jenkins/jenkins
845813a6abec: Mounted from jenkins/jenkins
e0c7218ff2e2: Mounted from jenkins/jenkins
9d8a4fb5a011: Mounted from jenkins/jenkins
7bea20e78ae1: Mounted from jenkins/jenkins
54caf9bc763d: Mounted from jenkins/jenkins
5a6ee247b9f4: Mounted from jenkins/jenkins
30f2b733a4fa: Mounted from jenkins/jenkins
fb611607abce: Mounted from jenkins/jenkins
9fb9110d80e7: Mounted from jenkins/jenkins
cd3d98804080: Mounted from jenkins/jenkins
54b22d29bac3: Mounted from jenkins/jenkins
7cb5b3ded20c: Mounted from jenkins/jenkins
97bbb7da3f94: Mounted from jenkins/jenkins
1d2a42fcd55d: Mounted from jenkins/jenkins
999fb4fc2000: Mounted from jenkins/jenkins
89fda00479fc: Mounted from jenkins/jenkins
latest: digest: sha256:6f16774a227700230e2f3b6147092f41ee5aea4dc080ee1cf06c6b101d1050177a size: 3876
root@ip-172-31-95-56:/home/ubuntu#
```