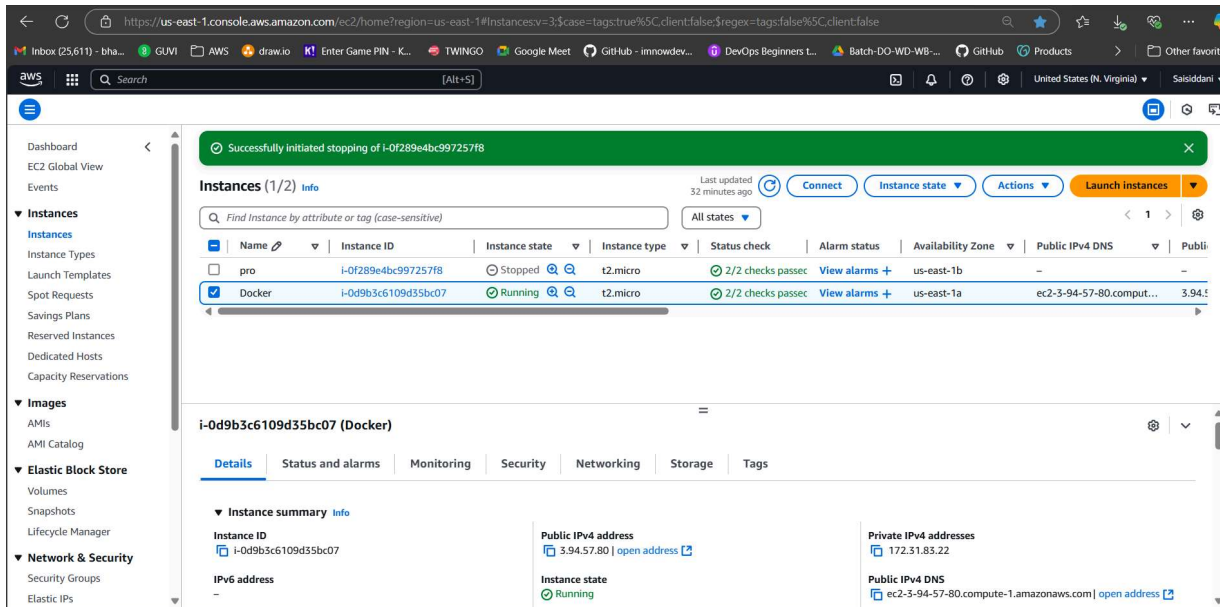


Docker Task

Output:

Created one Ec2 instance and installed docker in it.



```
ec2-user@ip-172-31-83-22:~$ sudo yum update -y
Last metadata expiration check: 1 day, 5:01:10 ago on Sun Feb  9 14:01:01 2025.

=====
WARNING:
  A newer release of "Amazon Linux" is available.

Available Versions:

Version 2023.6.20250203:
  Run the following command to upgrade to 2023.6.20250203:

    dnf upgrade --releasever=2023.6.20250203

Release notes:
  https://docs.aws.amazon.com/linux/al2023/release-notes/release-notes-2023.6.20250203.html

=====
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-83-22 ~]$ sudo systemctl start docker
[ec2-user@ip-172-31-83-22 ~]$ sudo systemctl enable docker
[ec2-user@ip-172-31-83-22 ~]$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)
   Active: active (running) since Mon 2025-02-10 13:56:45 UTC; 5h 6min ago
     TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
   Main PID: 2175 (dockerd)
     Tasks: 14
    Memory: 77.6M
       CPU: 2.876s
   CGroup: /system.slice/docker.service
           └─2175 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Feb 10 13:56:45 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T13:56:45.123456789Z" level=info msg="Starting dockerd"
Feb 10 13:56:45 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T13:56:45.123456789Z" level=info msg="Listening for connections on fd://..."
Feb 10 13:56:45 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T13:56:45.123456789Z" level=info msg="API endpoint: http://localhost:2375/"
Feb 10 13:56:45 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T13:56:45.123456789Z" level=info msg="Daemon is ready"
Feb 10 13:56:45 ip-172-31-83-22.ec2.internal systemd[1]: Started docker.service.
Feb 10 15:13:38 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T15:13:38.123456789Z" level=info msg="Starting dockerd"
Feb 10 15:13:38 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T15:13:38.123456789Z" level=info msg="Listening for connections on fd://..."
Feb 10 15:13:38 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T15:13:38.123456789Z" level=info msg="API endpoint: http://localhost:2375/"
Feb 10 15:13:38 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T15:13:38.123456789Z" level=info msg="Daemon is ready"
Feb 10 18:59:10 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T18:59:10.123456789Z" level=info msg="Starting dockerd"
Feb 10 18:59:10 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T18:59:10.123456789Z" level=info msg="Listening for connections on fd://..."
Feb 10 18:59:10 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T18:59:10.123456789Z" level=info msg="API endpoint: http://localhost:2375/"
Feb 10 18:59:10 ip-172-31-83-22.ec2.internal dockerd[2175]: time="2025-02-10T18:59:10.123456789Z" level=info msg="Daemon is ready"
lines 1-22/22 (END)
```

2. Performed Docker commands one by one

Docker image/Containers: Adding and deletion of the images

```
[ec2-user@ip-172-31-83-22 ~]$ docker images
REPOSITORY      TAG              IMAGE ID         CREATED          SIZE
[ec2-user@ip-172-31-83-22 ~]$ docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
1f3e46996e29: Pull complete
Digest: sha256:56fa17d2a7e7f168a043a2712e63aed1f8543aeafdcee47c58dcffe38ed51099
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
[ec2-user@ip-172-31-83-22 ~]$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[ec2-user@ip-172-31-83-22 ~]$ docker run alpine
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
edec2b05ab94   alpine    "/bin/sh"  21 seconds ago  Exited (0) 20 seconds ago
elated_gould
[ec2-user@ip-172-31-83-22 ~]$ docker stop edec2b05ab94
edec2b05ab94
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
edec2b05ab94   alpine    "/bin/sh"  About a minute ago  Exited (0) About a minu
te ago
elated_gould
[ec2-user@ip-172-31-83-22 ~]$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[ec2-user@ip-172-31-83-22 ~]$ docker rm edec2b05ab94
edec2b05ab94
[ec2-user@ip-172-31-83-22 ~]$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
```

Docker Volumes: Add and deletion of volumes

```
[ec2-user@ip-172-31-83-22 ~]$ docker volume ls
DRIVER      VOLUME NAME
[ec2-user@ip-172-31-83-22 ~]$ docker volume create myvolume
myvolume
[ec2-user@ip-172-31-83-22 ~]$ docker volume rm myvolume
myvolume
```

Docker Container: Add and deleting the container

```
ec2-user@ip-172-31-83-22:~
[ec2-user@ip-172-31-83-22 ~]$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
e2e626bf837c   alpine    "/bin/sh"  12 minutes ago  Exited (0) 12 minutes ago  recurring_feynman
[ec2-user@ip-172-31-83-22 ~]$ docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
e2e626bf837cd5329971aca0cbf12439da0df3b17fa97e9fe06060310abda7cf

Total reclaimed space: 0B
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[ec2-user@ip-172-31-83-22 ~]$
```

Docker Network: Adding the network and connecting to the container and disconnecting it.

```
[ec2-user@ip-172-31-83-22 ~]$ docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
488a2ba5dc87    bridge    bridge       local
1e0f3d0e5090    host      host         local
d36fcddc524f    none      null         local
[ec2-user@ip-172-31-83-22 ~]$ docker network create mynetwork
63b9d5bc5d83468517c6f483ab8131b8aae3785d0577c7b7f73203f7558fe4a8
[ec2-user@ip-172-31-83-22 ~]$ docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
Digest: sha256:56fa17d2a7e7f168a043a2712e63aed1f8543aeafdcee47c58dcffe38ed51099
Status: Image is up to date for alpine:latest
docker.io/library/alpine:latest
[ec2-user@ip-172-31-83-22 ~]$ docker run alpine
[ec2-user@ip-172-31-83-22 ~]$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
e2e626bf837c   alpine    "/bin/sh" 18 seconds ago  Exited (0) 17 seconds ago
recursing_feynman
[ec2-user@ip-172-31-83-22 ~]$ docker network connect mynetwork e2e626bf837c
[ec2-user@ip-172-31-83-22 ~]$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
e2e626bf837c   alpine    "/bin/sh" 58 seconds ago  Exited (0) 57 seconds ago
recursing_feynman
[ec2-user@ip-172-31-83-22 ~]$ docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
488a2ba5dc87    bridge    bridge       local
1e0f3d0e5090    host      host         local
63b9d5bc5d83    mynetwork  bridge       local
d36fcddc524f    none      null         local
[ec2-user@ip-172-31-83-22 ~]$ docker network disconnect mynetwork e2e626bf837c
[ec2-user@ip-172-31-83-22 ~]$ docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
488a2ba5dc87    bridge    bridge       local
1e0f3d0e5090    host      host         local
63b9d5bc5d83    mynetwork  bridge       local
d36fcddc524f    none      null         local
```