Docker Task

Install docker on EC2 and explore the docker commands (docker images, containers, volumes, network)

1. I installed docker on ec2 ubuntu instance using apt/repository cmd lines.

Add Docker's official GPG key:

sudo apt-get update

sudo apt-get install ca-certificates curl

sudo install -m 0755 -d /etc/apt/keyrings

sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc sudo chmod a+r /etc/apt/keyrings/docker.asc

Add the repository to Apt sources:

echo \

"deb [arch=\$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \

\$(. /etc/os-release && echo "\${UBUNTU_CODENAME:-\$VERSION_CODENAME}") stable" |

sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

sudo apt-get update

#Install the Docker packages.

sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

#check the status of docker

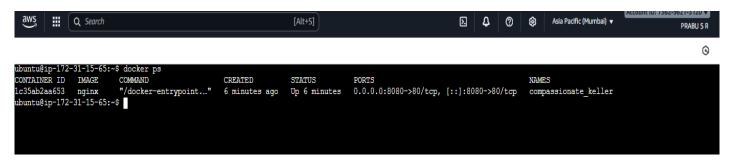
sudo systemctl status docker

#check the version

docker --version

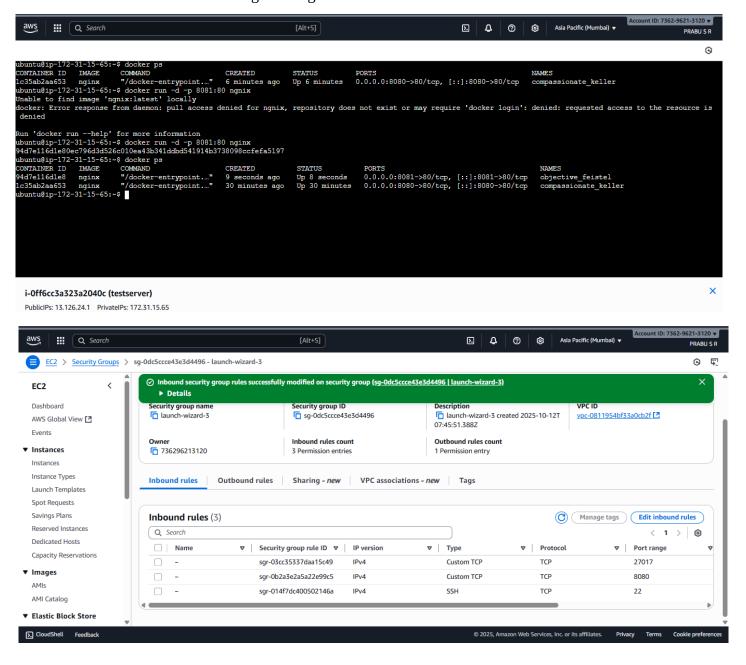
1. docker images

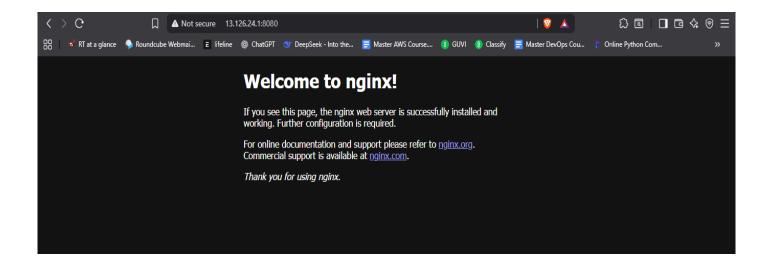
docker images – shows the images present inside container, i am not have any images so i pulled nginx image



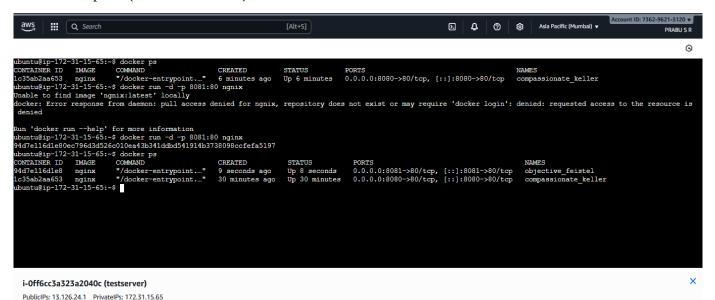
2.containers

created 2 container inside the nginx image

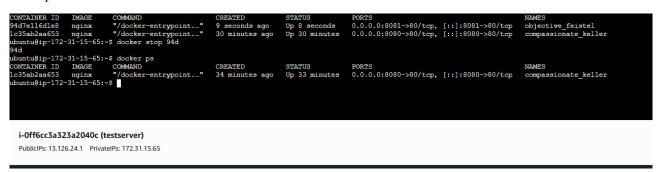




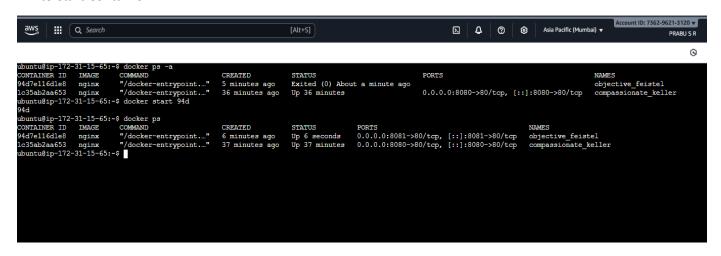
docker ps -a (list all containers)



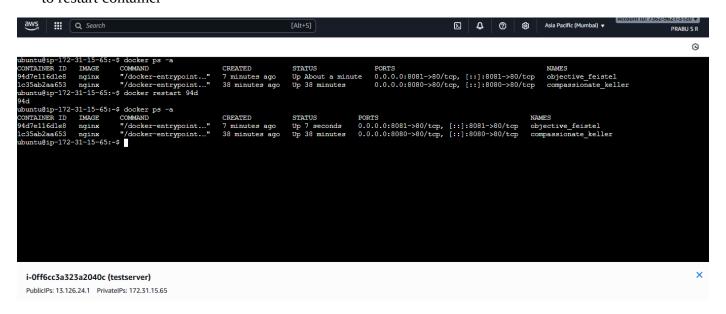
to stop container



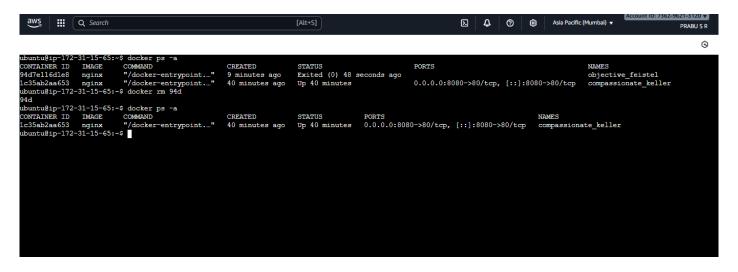
to start container



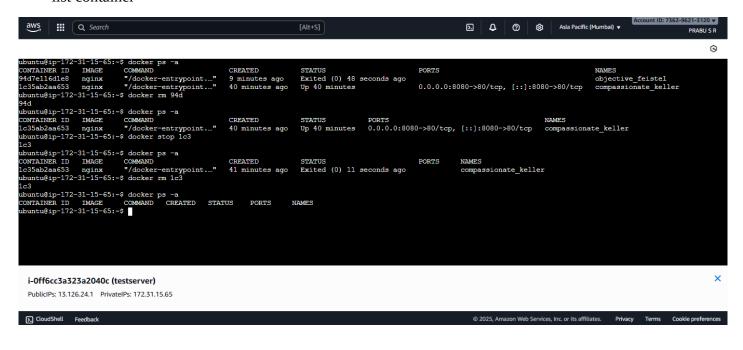
to restart container



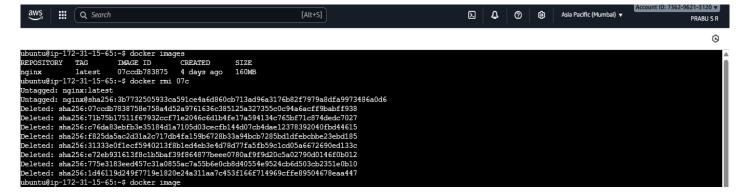
remove container



list container



remove image

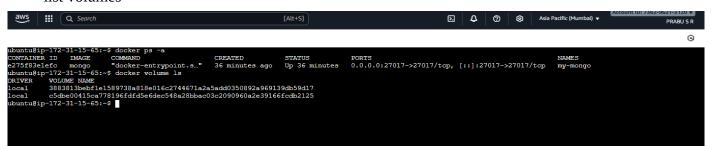


list images

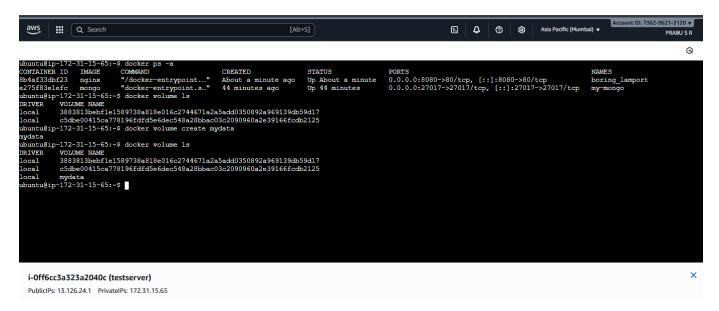


3. volume

list volumes

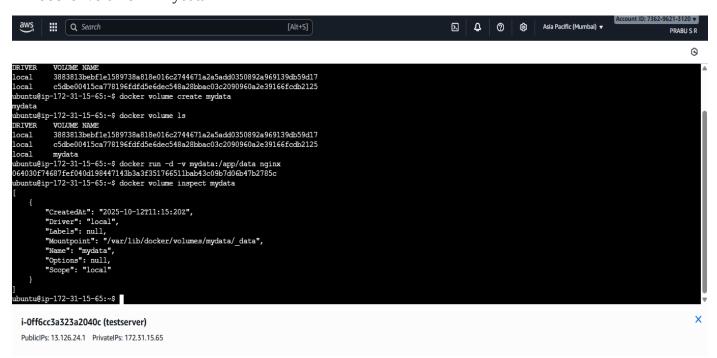


create volume



create volume in a container and inspect and remove

docker volume rm mydata



4.network

```
ubuntu@ip-172-31-15-65:~$ docker network ls
NETWORK ID
               NAME
                         DRIVER
                                    SCOPE
               bridge
cb0215120c37
                         bridge
                                    local
e738eb27626d
               host
                         host
                                    local
4b33c2cef650
                          nul1
                                    local
               none
ubuntu@ip-172-31-15-65:~$
```

i-Off6cc3a323a2040c (testserver)

PublicIPs: 13.126.24.1 PrivateIPs: 172.31.15.65

create network for container



communicate network between container and inspect and docker network rm mynet (remove)

