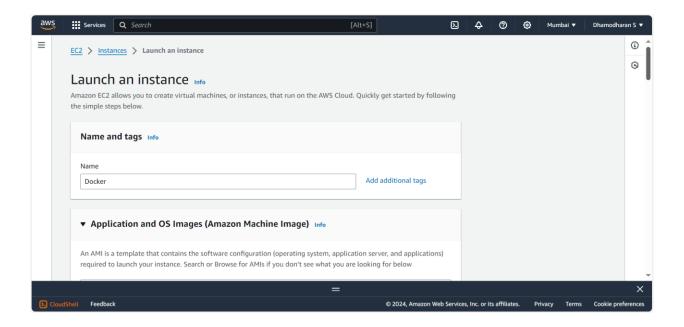
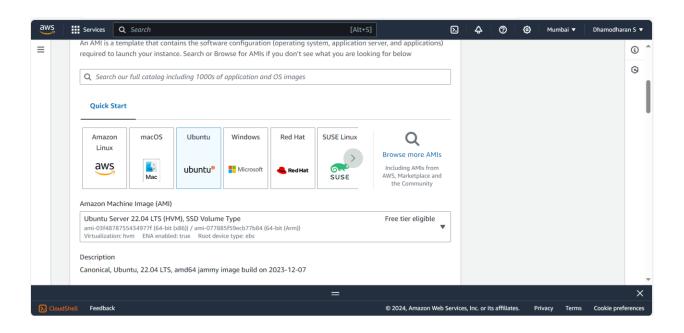
Docker – Container Engine

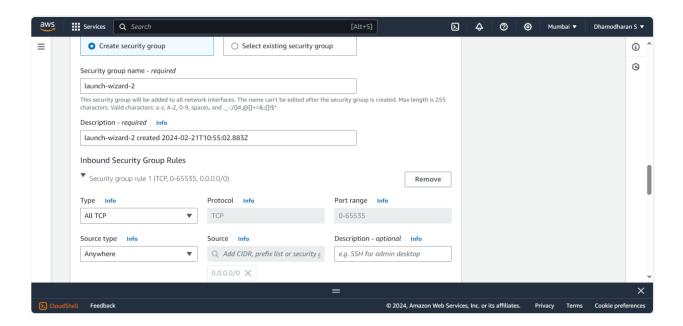
Dhamodharan S

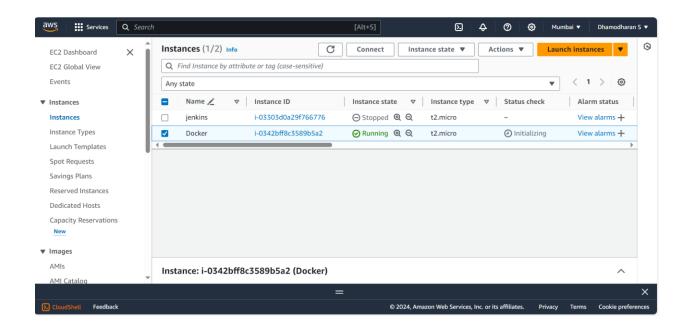
Step 1: I'm creating an Instance in AWS EC2 as Docker

Step 1.1 Launch Instance

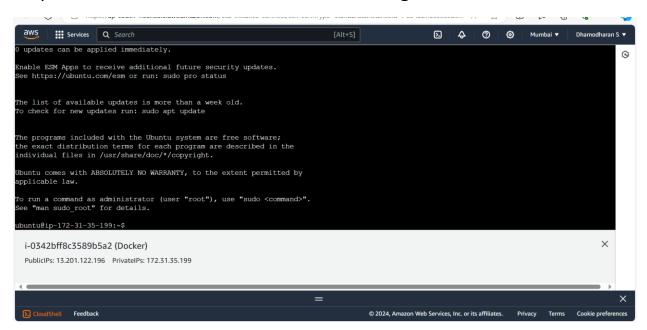








Step 2: Connet to the Instance "Docker" using EC2 Connect.



Step 3: Now I'm Installing Docker using APT Repository

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) signedby=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \ \$(. /etc/os-release && echo "\$VERSION_CODENAME") stable" | \ sudo tee /etc/apt/sources.list.d/docker.list > /dev/null sudo apt-get update

#To install the latest version, run:

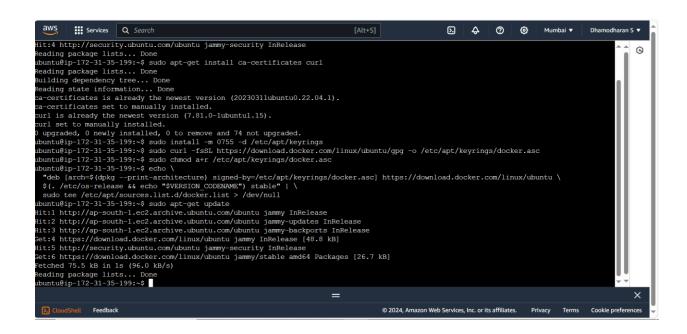
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

#Verify that the Docker Engine installation is successful by running the hello-world image.

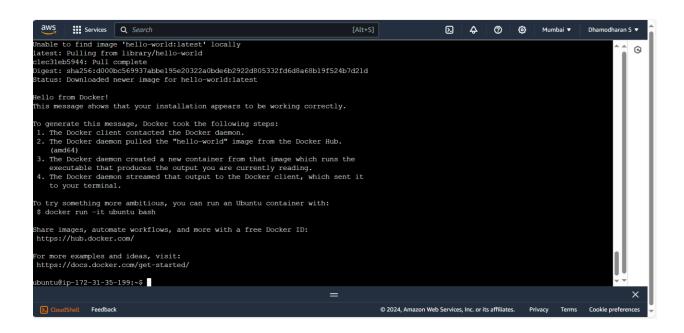
sudo docker run hello-world

Step 4: I'm running all the commands to set up APT repository.

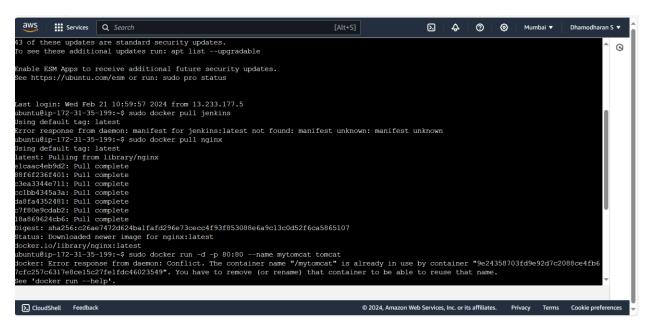
```
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [235 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1049 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1049 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [237 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [16 B]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [18 B]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [18 B]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [18 B]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [18 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [18 B]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [18 B]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/malmiverse amd64 Packages [18 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/malmiverse amd64 Packages [18 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/malmiverse amd64 Packages [18 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/malmiverse amd64 Packages [18 k
```



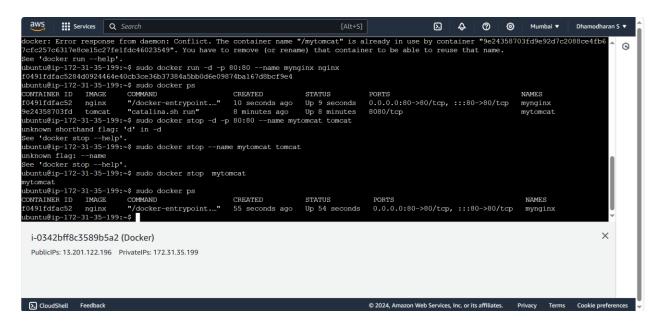
Step 5: I'm running Hello World using command "docker run hello world"



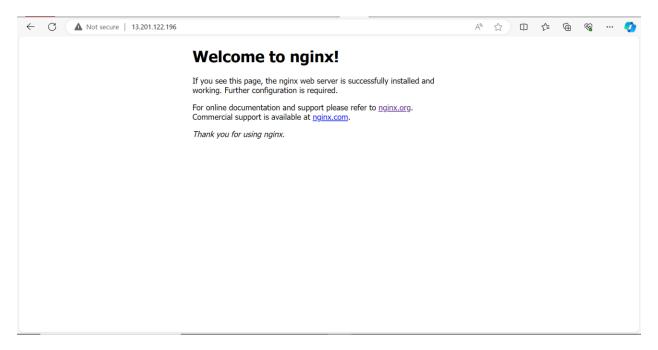
Step 6: Now here im using one image called "NGINX" from docker and pulling it and You can see "NGINX" image is downloaded.



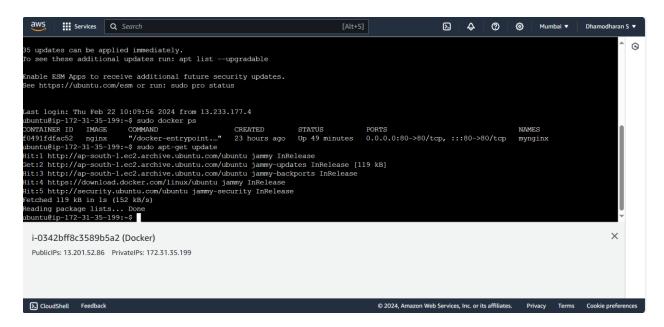
Step 7: now im starting to run my image in background as a name "my-nginx"



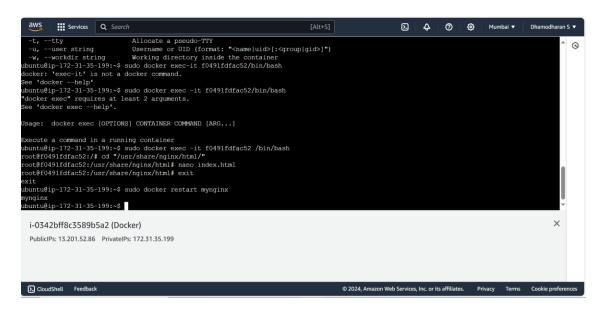
Step 8: Now you can go to the port 80 and check your nginx server is running. docker pull nginx docker run --name my-nginx-container -d -p 80:80 nginx



Step 9: Now let us customize our nginx server which is running. Enter into the executing container using command "sudo docker exec -it c60c31b70646 /bin/bash".



Step 10: Now customize index.html file by navigating to the index.html file. cd /usr/share/nginx/html/ nano index.html and restart the running container.



Step 11: Now you can see the customized html file running in server

