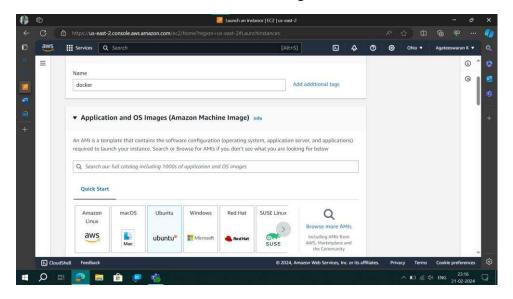
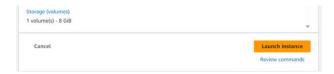
DOCKER DEMO

Step -1:

Create an EC2 INSTANCE for docker using AWS.



Now launch the instance.

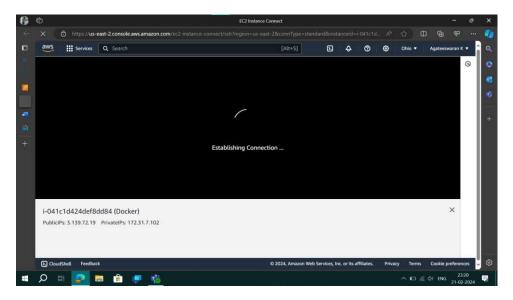


Step -2:

Select the instance connect it using AWS connect



Wait for the AWS connect to establish the connection.



Now we can install the docker in the AWS EC2 instance

Step -3:

sudo apt-get update

```
Get:20 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-pudates/multiverse amd64 c-n-f Metadata [472 B]

Get:21 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]

Get:22 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]

Get:23 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [186 B]

Get:23 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [186 B]

Get:24 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [186 B]

Get:25 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [186 B]

Get:26 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [186 B]

Get:27 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [186 B]

Get:28 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [186 B]

Get:30 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [181 B]

Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [213 kB]

Get:33 http://security.ubuntu.com/ubuntu jammy-security/miverse amd64 Packages [181 kB]

Get:33 http://security.ubuntu.com/ubuntu jammy-security/miverse amd64 Packages [181 kB]

Get:35 http://security.ubuntu.com/ubuntu jammy-security/miverse amd64 Packages [37.1 kB]

Get:36 http://security.ubuntu.com/ubuntu jammy-security/miverse amd64 c-n-f Metadata [168 B]

Get:36 http://security.ubuntu.com/ubuntu jammy-security/miverse amd64 c-n-f Metadata [168 B]

Fethad 2-5 kB in 6 (511 kB/s)

Reading package lists... Done

i-Ofbdcebfca34d455e (Docker)

PublicPs:18.19.1.35.88 PrivatePs:172.315.246
```

sudo apt-get install ca-certificates curl

```
ubuntu@ip-172-31-5-246:~$ sudo apt-get install ca-certificates curl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Ca-certificates is already the newest version (20230311ubuntu0.22.04.1).
ca-certificates set to manually installed.
curl is already the newest version (7.81.0-1ubuntu1.15).
curl set to manually installed,
0 upgraded, 0 newly installed, 0 to remove and 74 not upgraded.
ubuntu@ip-172-31-5-246:~$

i-Ofbdcebfca34d455e (Docker)
PublicIPs: 18.191.135.88 PrivateIPs: 172.31.5.246
```

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

```
ubuntu@ip-172-31-5-246:-$ sudo install -m 0755 -d /etc/apt/keyrings
ubuntu@ip-172-31-5-246:-$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
ubuntu@ip-172-31-5-246:-$ sudo chmod a*r /etc/apt/keyrings/docker.asc
ubuntu@ip-172-31-5-246:-$

i-Ofbdcebfca34d455e (Docker)

PubliciPs:18.191.135.88 PrivateiPs:172.31.5.246
```

echo\

"deb [arch=\$(dpkg --print-architecture) signed-by=/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

```
ubuntu@ip-172-31-5-246:-$ echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$(. /etc/os-release &6 echo "$VERSION CODENAMS") stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
ubuntu@ip-172-31-5-246:-$ sudo apt-get update
lit:1 http://us-east-2.ec/.archive.ubuntu.com/ubuntu jammy InRelease
lit:1 http://us-east-2.ec/.archive.ubuntu.com/ubuntu jammy-packports InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.com/ubuntu jammy-packports InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy-packports InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy-packports InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy-security InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy-packports InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy-backports InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy-security InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu.ubuntu jammy-security InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu jammy-security InRelease
lit:3 http://us-east-2.ec/.archive.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ubuntu.ub
```

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

Step -4:

sudo docker run hello-world

```
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
clec3leb5941: Pull complete
Digest: sha26:d000Dc569937abbe195e20322a0bde6b2922d805332fd6d8a68b19f524b7d21d
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)
3. The Docker daemon created a new container from that image which runs the
i-Ofbdcebfca34d455e (Docker)
PublicIPs:18.191.135.88 PrivateIPs:172.315.246
```

Step -5:

docker pull nginx

docker run --name some-nginx -d -p 8080:80 some-content-nginx

To access the instance public IP and add the port no at back to access the docker image.



To customize the nginx server we can use the command "sudo docker exec –it containerid /bin/bash."



