Host and None Network commands

1. This command is used to create a host network

docker run -d --network host --name <network-name>

docker ps

```
ubuntu@ip-172-31-32-116:~$ sudo su
root@ip-172-31-32-116:/home/ubuntu# docker run -it -d --name container-A --network host nginx
5fa2bab36f3b59c1bdc99a6e46f3742e8f2e515673028167ff7ac0903ee624d0
root@ip-172-31-32-116:/home/ubuntu# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS     NAMES
5fa2bab36f3b   nginx          "/docker-entrypoint.…"   8 seconds ago    Up 8 seconds              container-A
c55dc138882f   nginx:latest   "/docker-entrypoint.…"   17 minutes ago   Up 17 minutes   80/tcp    service-B.1.ewi7fat9i9gl9jo0i3ocqww3z
61059e3e9724   nginx:latest   "/docker-entrypoint.…"   17 minutes ago   Up 17 minutes   80/tcp    service-A.2.dmkqn9fgmx8d6pb0ak2b6y6n7
dd9e9e4d0634   nginx:latest   "/docker-entrypoint.…"   17 minutes ago   Up 17 minutes   80/tcp    service-c.1.lcg68j3x0czahjfaln25rhoyh
root@ip-172-31-32-116:/home/ubuntu#
```

i-01f2abbdb0d592e12 (Manager)

PublicIPs: 54.248.6.222 PrivateIPs: 172.31.32.116

2. To check if the host network is working or not we used nginx as the image for the container, which means that if the container is connected to docker's host then we should get nginx welcome page when we curl the localhost as it maps directly to localhost.

curl localhost

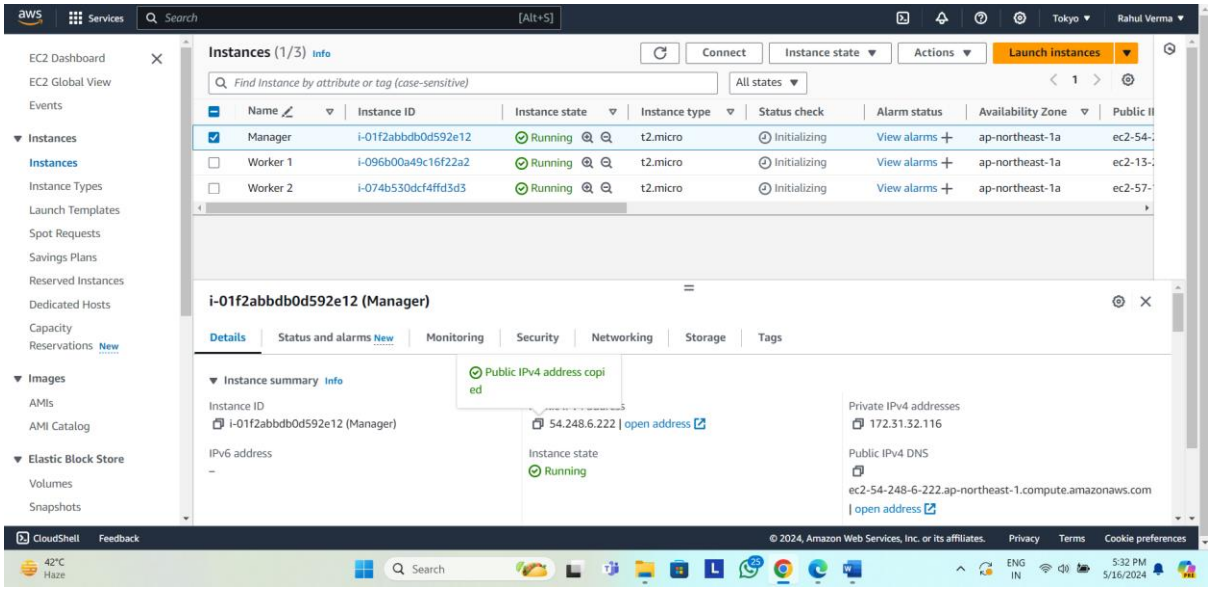
aws Services Search [Alt+S

```
curl: (6) Could not resolve host: local
curl: (6) Could not resolve host: host
root@ip-172-31-32-116:/home/ubuntu# curl localhost
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
root@ip-172-31-32-116:/home/ubuntu#
```

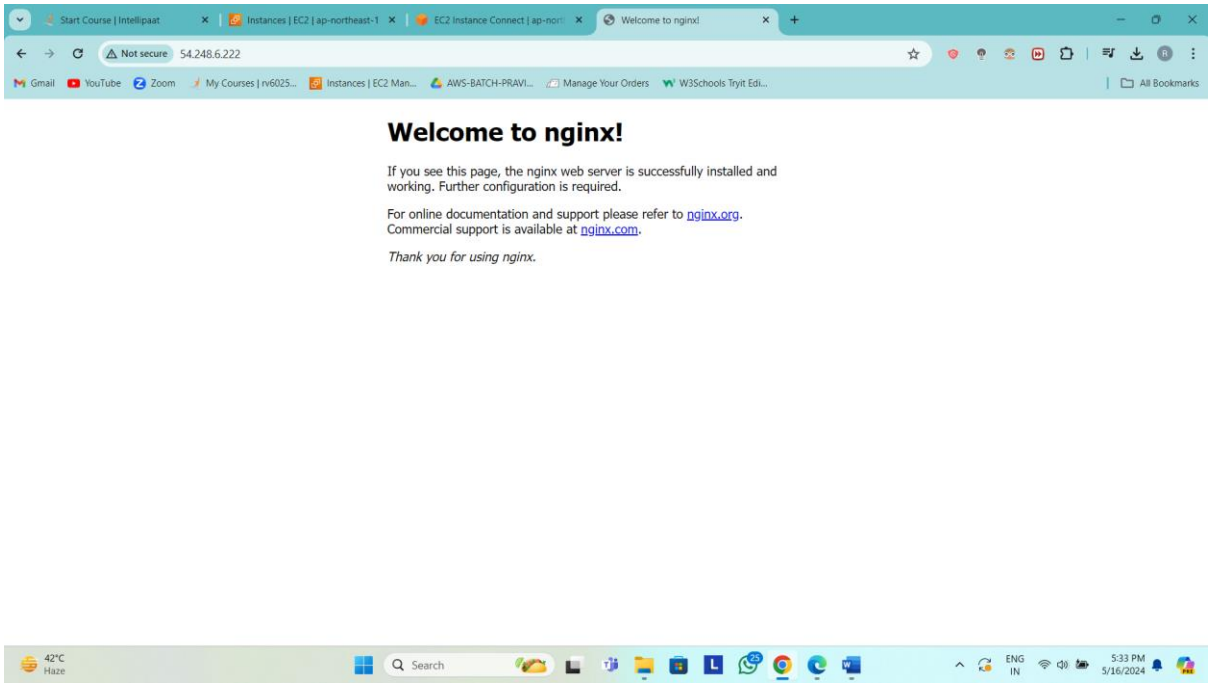
i-01f2abbdb0d592e12 (Manager)

PublicIPs: 54.248.6.222 PrivateIPs: 172.31.32.116

Copy public ip address



Paste it in web browser



NONE NETWORK COMMAND

1. This command will completely disable all networking capabilities of this container and it won't have any connections when it starts.

docker run -dit --network none --name <network-name> <image>

```
root@ip-172-31-31-183: /home/ubuntu
root@ip-172-31-31-183:/home/ubuntu# docker run -dit --network none --name no-net-alpine alpine:latest
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
89d9c30c1d48: Pull complete
Digest: sha256:c19173c5ada610a5989151111163d28a67368362762534d8a8121ce95cf2bd5a
Status: Downloaded newer image for alpine:latest
d0fc86ca9e5f2911a5dcadbb21593dc55c02f7fed8fed07134396f23d0380993
root@ip-172-31-31-183:/home/ubuntu#
```

2. Then create a new service attached to the user defined overlay network

docker exec <network-name> ip route

```
root@ip-172-31-31-183: /home/ubuntu
root@ip-172-31-31-183:/home/ubuntu# docker exec no-net-alpine ip route
root@ip-172-31-31-183:/home/ubuntu#
```