TASK - 7

Docker Installation:

```
ubuntu@ip-172-31-20-179:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Fetched 126 kB in 1s (226 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
78 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-20-179:~$
```

```
ubuntu@ip-172-31-20-179:~$ sudo docker version
Client:
Version:
                    24.0.7
API version:
                    1.43
Go version:
                    go1.22.2
Git commit:
                    24.0.7-0ubuntu4
Built:
                    Wed Apr 17 20:08:25 2024
                    linux/amd64
OS/Arch:
                    default
Context:
Server:
Engine:
 Version:
                    24.0.7
 API version:
                    1.43 (minimum version 1.12)
 Go version:
                    qo1.22.2
 Git commit:
                    24.0.7-0ubuntu4
                    Wed Apr 17 20:08:25 2024
 Built:
                    linux/amd64
 OS/Arch:
 Experimental:
                    false
containerd:
 Version:
                    1.7.12
 GitCommit:
runc:
 Version:
                 1.1.12-Oubuntu3
```

Docker Images:

```
ubuntu@ip-172-31-28-6:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-28-6:~$
```

```
ubuntu@ip-172-31-28-6:~$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
09f376ebb190: Pull complete
5529e0792248: Pull complete
9b3addd3eb3d: Pull complete
57910a8c4316: Pull complete
7b5f78f21449: Pull complete
b7923aa4e8a6: Pull complete
b7923aa4e8a6: Pull complete
Digest: sha256:0f04e4f646a3f14bf31d8bc8d885b6c951fdcf42589d06845f64d18aec6a3c4d
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
ubuntu@ip-172-31-28-6:~$
```

```
ubuntu@ip-172-31-28-6:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 4f67c83422ec 12 days ago 188MB
ubuntu@ip-172-31-28-6:~$
```

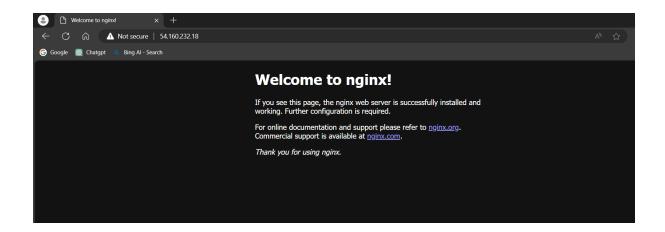
Docker Container:

```
ubuntu@ip-172-31-28-6:~$ docker run --name nginxcon -d -p 80:80 nginx
881af85551ae3541b7062b49f56e554117034cd8af75e4d2396f29fa2ef3afe7
ubuntu@ip-172-31-28-6:~$
```

```
ubuntu@ip-172-31-28-6:~$ docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

NAMES
88laf8555lae nginx "/docker-entrypoint..." 23 seconds ago Up 22 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp nginxcon
ubuntu@ip-172-31-28-6:~$
```



Docker Volumes:

```
ubuntu@ip-172-31-28-6:~$ docker volume ls
DRIVER VOLUME NAME
ubuntu@ip-172-31-28-6:~$
```

```
ubuntu@ip-172-31-28-6:~$ docker volume create my_vol
my_vol
ubuntu@ip-172-31-28-6:~$
```

```
ubuntu@ip-172-31-28-6:~$ docker volume ls

DRIVER VOLUME NAME

local my_vol

ubuntu@ip-172-31-28-6:~$
```

Docker Network:

```
ubuntu@ip-172-31-28-6:~$ docker network ls
NETWORK ID
               NAME
                          DRIVER
                                    SCOPE
               bridge
53e4f5edad41
                          bridge
                                    local
cebd3eb672c0
               host
                          host
                                    local
673cfb0634bc
                          null
                                    local
               none
ubuntu@ip-172-31-28-6:~$
```

```
ubuntu@ip-172-31-28-6:~$ docker network create my network
06734277c68ca06cfe1dda6e31b40c09287a629597786189d4b6475263704516
ubuntu@ip-172-31-28-6:~$ docker network ls
NETWORK ID
               NAME
                            DRIVER
53e4f5edad41
               bridge
                            bridge
                                       local
cebd3eb672c0
               host
                            host
                                       local
06734277c68c
               my network
                            bridge
                                      local
673cfb0634bc
               none
                            null
                                      local
ubuntu@ip-172-31-28-6:~$
```