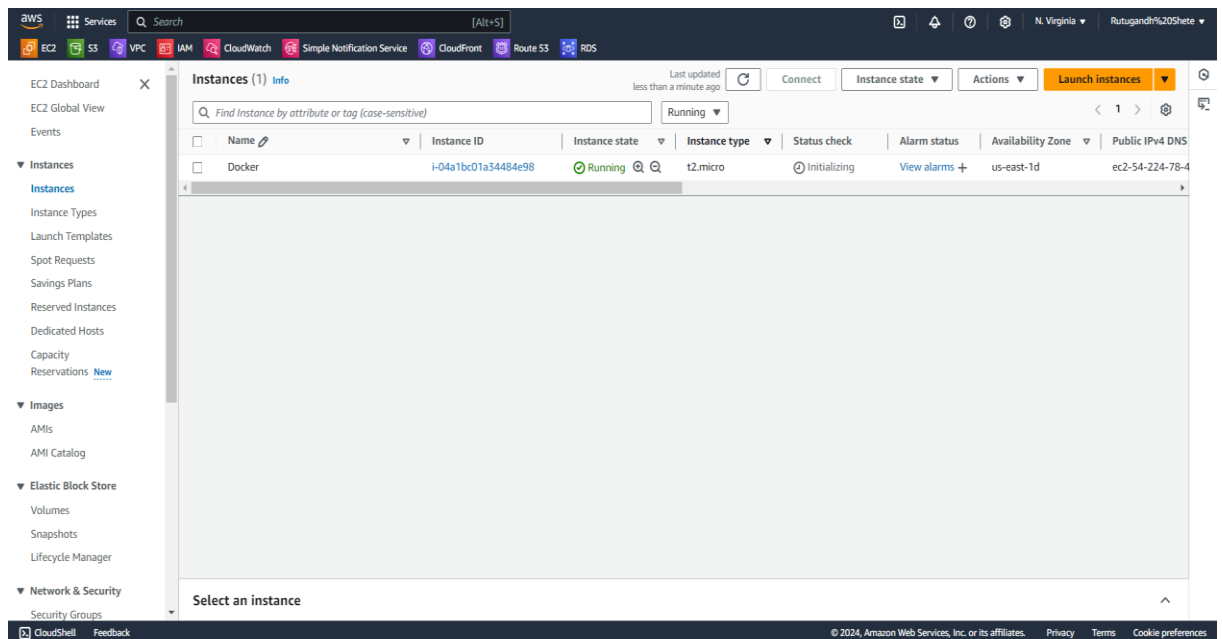


DEVOPS

No:-	Content
1.	Docker
2.	

Steps:

- Launch one ec2 instance



- Install docker in it “yum install docker -y”

```

AWS CloudShell
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-32-139 ~]# yum install docker -y
Last metadata expiration check: 0:01:26 ago on Thu Oct 17 12:10:06 2024.
Dependencies resolved.

Package               Architecture      Version           Repository        Size
Installing:
docker                x86_64            25.0.6-1.amzn2023.0.2  amazonlinux      44 M
Installing dependencies:
containerd            x86_64            1.7.22-1.amzn2023.0.2  amazonlinux      36 M
iptables-libs         x86_64            1.8.8-3.amzn2023.0.2  amazonlinux      401 k
iptables-nft          x86_64            1.8.8-3.amzn2023.0.2  amazonlinux      183 k
libgroup              x86_64            3.0-1.amzn2023.0.1    amazonlinux       75 k
libnetfilter_conntrack x86_64            1.0.8-2.amzn2023.0.2  amazonlinux       58 k
libnetfilterlink      x86_64            1.0.1-19.amzn2023.0.2  amazonlinux       30 k
libnftnl              x86_64            1.2.2-2.amzn2023.0.2  amazonlinux       84 k
pigz                  x86_64            2.5-1.amzn2023.0.3    amazonlinux       83 k
runc                   x86_64            1.1.14-1.amzn2023.0.1  amazonlinux       3.2 M

Transaction Summary
Install 10 Packages

Total download size: 84 M
Installed size: 317 M
Downloading Packages:
(1/10): iptables-libs-1.8.8-3.amzn2023.0.2.x86_64.rpm 4.0 MB/s | 401 kB 00:00
(2/10): iptables-nft-1.8.8-3.amzn2023.0.2.x86_64.rpm 3.8 MB/s | 183 kB 00:00
(3/10): libgroup-3.0-1.amzn2023.0.1.x86_64.rpm      1.7 MB/s | 75 kB 00:00
(4/10): libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64.rpm 2.3 MB/s | 58 kB 00:00

i-04a1bc01a34484e98 [Docker]
PublicIPs: 54.224.78.46 PrivateIPs: 172.31.32.139
  
```

- Start docker using “systemctl start docker” and “systemctl enable docker”

```

[root@ip-172-31-32-139 ~]# systemctl start docker
[root@ip-172-31-32-139 ~]# systemctl enable docker
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -> /usr/lib/systemd/system/docker.service.
[root@ip-172-31-32-139 ~]#
  
```

- To pull nginx image from docker hub use “docker pull nginx”

```

[root@ip-172-31-32-139 ~]# docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
a480a496ba95: Pull complete
f3acelb8ce45: Pull complete
11d6fdd0e8a7: Pull complete
f1091da6fd5c: Pull complete
40eea07b53d8: Pull complete
6476794e50f4: Pull complete
70850b3ec6b2: Pull complete
Digest: sha256:ff466795a4535e1d47cf2b901ce15b0ad2ba7f6e0140f12f7d62cb1c9160067a
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
[root@ip-172-31-32-139 ~]#
  
```

- To see docker image use “docker images”

```

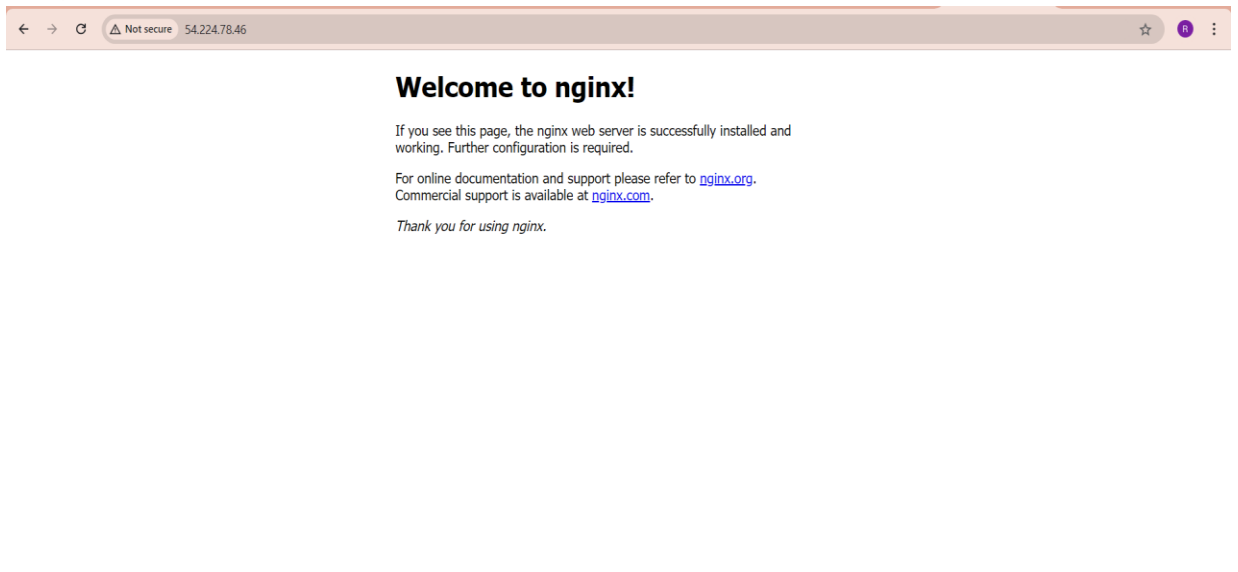
[root@ip-172-31-32-139 ~]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx         latest    3b25b682ea82   2 weeks ago    192MB
[root@ip-172-31-32-139 ~]#
  
```

- -i: Runs the container in interactive mode.
- -t: Allocates a pseudo-TTY (terminal).
- -d: Runs the container in detached mode (in the background).
- -p 80:80: Maps port 80 of the host to port 80 of the container (so you can access it via http://localhost or http://your-server-ip).
- nginx: The image you're using to create the container.

```

[root@ip-172-31-32-139 ~]# docker run -itd -p 80:80 nginx
583689073ad74c251745ad6521c103788199b3169c4544febd4f95076c005844
  
```

- Hit public IP



- To stop docker “docker stop”

