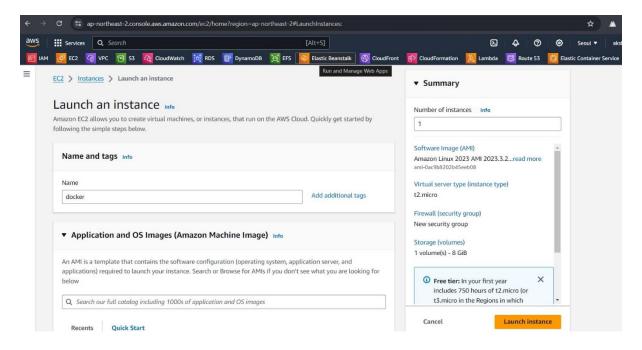
NAME = Akshay choudhary

TASK = hosting nginx via docker container

1) Create EC2 instance and use ubuntu image also add port in instance security group With port number 8080,80



2) Launch EC2 instance and install docker in it using below command

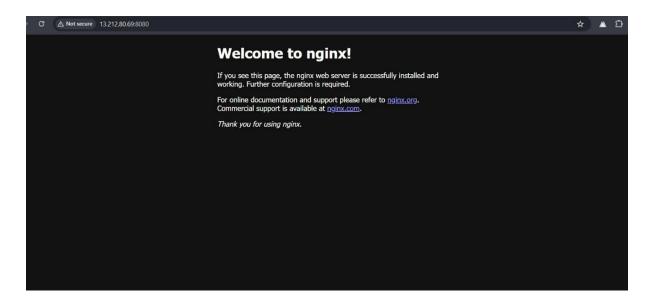
```
1. Set up Docker's apt repository.
                                                                                                    Prer
                                                                                                     os
    # Add Docker's official GPG key:
                                                                                                     Un
    sudo apt-get update
                                                                                                    Insta
    sudo apt-get install ca-certificates curl
                                                                                                     Ins
    sudo install -m 0755 -d /etc/apt/keyrings
    sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.
                                                                                                     Ins
    sudo chmod a+r /etc/apt/keyrings/docker.asc
                                                                                                    Unir
                                                                                                    Nex
    echo \
      "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https:/
      $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
      sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
    sudo apt-get update
```

- 3) Check this version docker
  - Docker version

- 4) AŌer installing docker use below commands to hosΘng nginx
  - sudo -i systemctl start docker
  - docker run -d nginx
  - docker ps

```
Usuntuign-172-31-14-61:-$ sudo-i
root@ip-172-31-14-61:-$ command
root@ip-172-31-14-61:-$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
Shillsfib:e4642 tomcat "catalina.sh run" 37 minutes ago Up 37 minutes 0.0.0.0:32768->8080/tcp, :::32768->8080/tcp gracious_black
2494c7833763 nginx "/docker-entrypoint..." 37 minutes ago Up 37 minutes 0.0.0.0:8080->80/tcp, :::8080->80/tcp musing_ishizaka
root@ip-172-31-14-61:-#
```

- 5) Do port mapping to connect your host server and container, use below command. Docker run -d -p 8080:80 nginx
  - Docker ps (check this on maping)
- 6) Go to the chrome and hit the public IP to show the nginx is running or not if its not running check user instance security group.



- 7) A\(\bar{O}\)er hos\(\theta\)ng of nginx go into the container using below command. docker exec -it bash or sh
- 8) Go to the container and host index.html using below commands.
  - cd /usr/share/nginx/
  - 1s
  - cd html/
  - Ls
  - echo "this is devop project" > index.html

