

# **DevOps ASSIGNMENT**

**By: Panas Tiwari**

## 1) EC2 instance

```
(base) [leapfrog/certificates] sudo ssh -i "panas_key.pem" ubuntu@ec2-3-90-49-208.compute-1.amazonaws.com
[sudo] password for panas:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1017-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Aug 10 10:43:46 UTC 2022

System load:  0.0               Processes:            102
Usage of /:   25.4% of 7.57GB   Users logged in:     0
Memory usage: 20%              IPv4 address for eth0: 172.31.1.32
Swap usage:   0%

0 updates can be applied immediately.

Last login: Wed Aug 10 10:16:07 2022 from 110.44.125.4
ubuntu@ip-172-31-1-32:~$
```

Command: ssh into EC2 instance

## 2) Create a docker file

```
(base) [devopsAssignment/react-app] docker build -t react_app:dev . [main]
(base) [devopsAssignment/react-app] docker build -t panas18/panas_react_app:latest [main]
```

Command: Build docker image

```
(base) [devopsAssignment/react-app] docker push panas18/panas_react_app:latest [main]
```

Command: Push docker image to docker hub

```
(base) [devopsAssignment/react-app] docker run -it -p 3000:3000 react_app:dev [main]
```

Command: Run docker image

### 3) Setting up office VPN

```
(base) [leapfrog/certificates] sudo openvpn --config pfsense-UDP4-1120-config.ovpn
```

### 4) HTTP Status code with means

SN	HTTP Status Code	Description
1	100	Continue
2	101	Switching Protocols
3	200	OK
4	201	Created
5	300	Multiple Choices
6	301	Moved Permanently
7	400	Bad Request
8	404	Not Found
9	500	Internal Server Error
10	502	Bad Gateway

**5) Find Network and Broadcast Id:**

Ip address: 150.10.20.30/16 (since the ip address is of class B)

Network id: 150.10.0.0

Broadcast id: 150.10.255.255