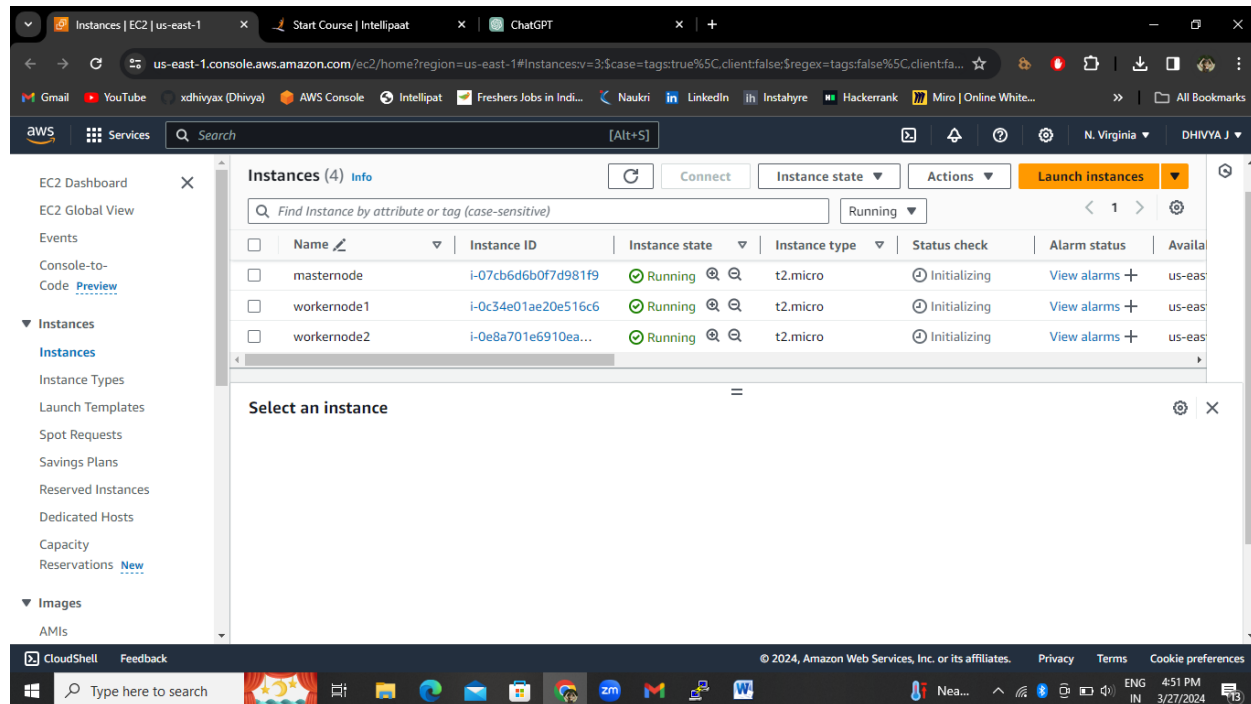# Module-4: Docker - II: Assignment - 4

You have been asked to:

- Create a Docker swarm cluster with 3 nodes
- Deploy an apache container with 4 replicas

```
ubuntu@masternode:~$ docker swarm init
Swarm initialized: current node (xcymww1x5uy9ec4wp2j34xv81) is now a manager.

To add a worker to this swarm, run the following command:

    docker swarm join --token SWMTKN-1-1q71ovggg49ruu380bmk0eqg0qmcbwt6cwa354assjdwl4u1mj-79gfx6l10jme2
xbf5xf8a1nql 172.31.93.64:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

ubuntu@masternode:~$
```



```
ubuntu@workernode1:~$  docker swarm join --token SWMTKN-1-1q71ovggg49ruu380bmk0eqg0qmcbwt6cwa354assjdwl
4u1mj-79gfx6l10jme2xbf5xf8a1nql 172.31.93.64:2377
This node joined a swarm as a worker.
ubuntu@workernode1:~$
```

```
ubuntu@workernode2:~$
ubuntu@workernode2:~$ docker swarm join --token SWMTKN-1-1q71ovggg49ruu380bmk0eqg0qmcbwt6cwa354assjdwl
4ulmj-79gfx6l10jme2xbf5xf8a1nql 172.31.93.64:2377
This node joined a swarm as a worker.
ubuntu@workernode2:~$
```



```
ubuntu@masternode:~$ docker service create --name assignment --replicas 4 httpd:latest
y9udbe213w7gtckm56v6l7gcg
overall progress: 4 out of 4 tasks
1/4: running
2/4: running
3/4: running
4/4: running
verify: Service y9udbe213w7gtckm56v6l7gcg converged
ubuntu@masternode:~$
```

```
ubuntu@masternode:~$ docker service ls
ID              NAME         MODE         REPLICAS    IMAGE           PORTS
y9udbe213w7g    assignment   replicated   4/4         httpd:latest
ubuntu@masternode:~$
```



```
ubuntu@masternode:~$ docker service ls
ID              NAME         MODE         REPLICAS    IMAGE           PORTS
y9udbe213w7g    assignment   replicated   4/4         httpd:latest
ubuntu@masternode:~$ docker service ps assignment
ID              NAME            IMAGE           NODE          DESIRED STATE    CURRENT STATE
 ERROR        PORTS
b2wd4olly4o2    assignment.1    httpd:latest    workernode1   Running          Running about a minute ago

zkmeim4ke32k    assignment.2    httpd:latest    workernode1   Running          Running about a minute ago

yjt3frejdesm    assignment.3    httpd:latest    workernode2   Running          Running about a minute ago

relyu4tu5zis    assignment.4    httpd:latest    masternode    Running          Running about a minute ago

ubuntu@masternode:~$
```

```
ubuntu@masternode:~$ docker ps
CONTAINER ID    IMAGE          COMMAND             CREATED          STATUS          PORTS       NAMES
e91f14c2a798    httpd:latest   "httpd-foreground"  2 minutes ago    Up 2 minutes    80/tcp      assignment.
4.relyu4tu5zisz9cukxmye22f0
ubuntu@masternode:~$
```



```
ubuntu@workernode1:~$ docker ps
CONTAINER ID    IMAGE          COMMAND             CREATED          STATUS          PORTS       NAMES
bfe680cad266    httpd:latest   "httpd-foreground"  3 minutes ago    Up 3 minutes    80/tcp      assignment.
1.b2wd4olly4o29xhjgchqa0m7d
e8e6a3f6009c    httpd:latest   "httpd-foreground"  3 minutes ago    Up 3 minutes    80/tcp      assignment.
2.zkmeim4ke32ky30l25qaz651v
ubuntu@workernode1:~$
```

```
ubuntu@workernode2:~$ docker ps
CONTAINER ID   IMAGE          COMMAND              CREATED         STATUS          PORTS      NAMES
43f08e682f9e   httpd:latest   "httpd-foreground"   3 minutes ago   Up 3 minutes    80/tcp     assignment.
3.yjt3frejdesmyqk7zw8k3vmuy
ubuntu@workernode2:~$
```