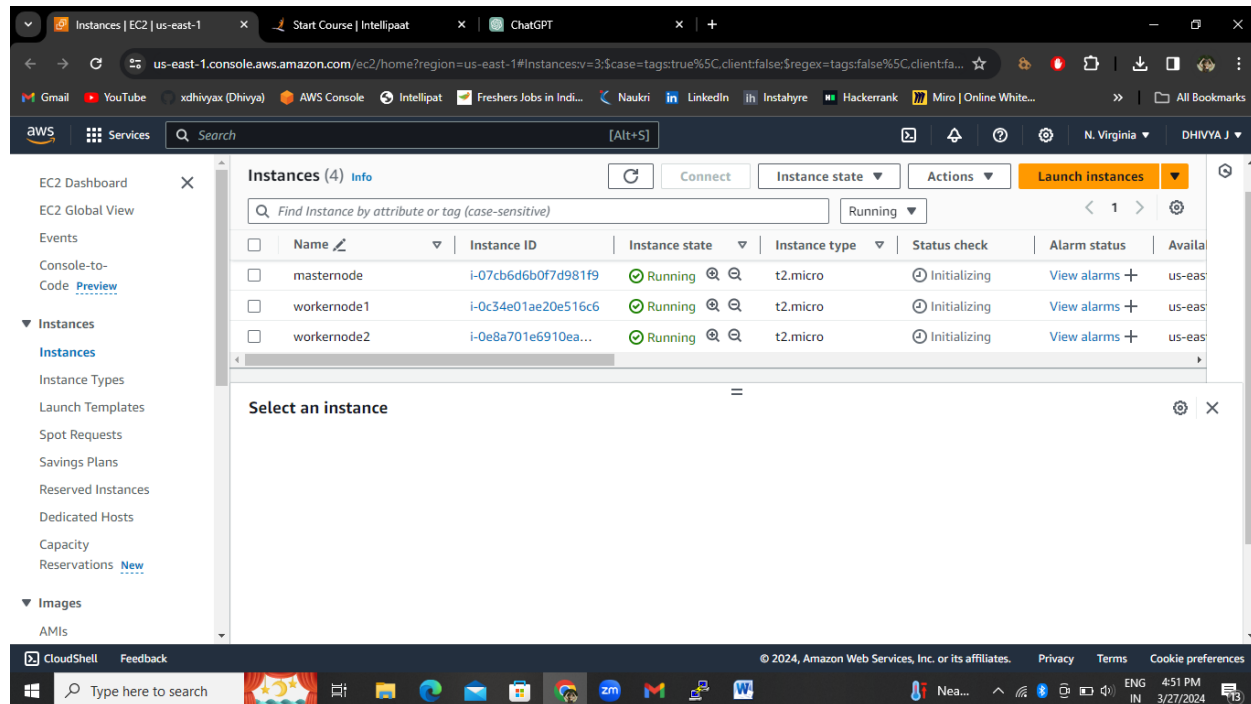


## Module-4: Docker - II: Assignment - 4

You have been asked to:

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



The screenshot shows the AWS Management Console for the EC2 Instances page. The page displays a table with 4 instances: 1 master node and 3 worker nodes. All instances are in the 'Running' state. The master node is named 'masternode' and the worker nodes are named 'workernode1' and 'workernode2'. The instances are t2.micro type and are located in the us-east-1 region. The page also shows a 'Select an instance' dialog box.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
masternode	i-07cb6d6b0f7d981f9	Running	t2.micro	Initializing	View alarms +	us-east-1a
workernode1	i-0c34e01ae20e516c6	Running	t2.micro	Initializing	View alarms +	us-east-1a
workernode2	i-0e8a701e6910ea...	Running	t2.micro	Initializing	View alarms +	us-east-1a

```
ubuntu@masternode: ~  
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-lq7lovggg49ruu380bmk0egg0qmcbbwt6cwa354assjdw14ulmj-79gfx6110jme2  
    xbf5xf8alnql 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: ~  
ubuntu@workernode1:~$ docker swarm join --token SWMTKN-1-lq7lovggg49ruu380bmk0egg0qmcbbwt6cwa354assjdw1  
4ulmj-79gfx6110jme2xbf5xf8alnql 172.31.93.64:2377  
This node joined a swarm as a worker.  
ubuntu@workernode1:~$
```

```
ubuntu@workernode2: ~  
ubuntu@workernode2:~$  
ubuntu@workernode2:~$ docker swarm join --token SWMTKN-1-lq7lovggg49ruu380bmk0egg0qmcbbwt6cwa354assjdw1  
4ulmj-79gfx6l1l0jme2xbf5xf8alnql 172.31.93.64:2377  
This node joined a swarm as a worker.  
ubuntu@workernode2:~$
```

```
ubuntu@masternode: ~  
ubuntu@masternode:~$ docker service create --name assignment --replicas 4 http:latest  
y9udbe2l3w7gtckm56v6l7gcg  
overall progress: 4 out of 4 tasks  
1/4: running  
2/4: running  
3/4: running  
4/4: running  
verify: Service y9udbe2l3w7gtckm56v6l7gcg converged  
ubuntu@masternode:~$
```

```
ubuntu@masternode: ~  
ubuntu@masternode:~$ docker service ls
```

ID	NAME	MODE	REPLICAS	IMAGE	PORTS
y9udbe213w7g	assignment	replicated	4/4	httpd:latest	

```
ubuntu@masternode:~$
```

```
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
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.b2wd4o1ly4o29xhjgchqa0m7d	httpd:latest	"httpd-foreground"	3 minutes ago	Up 3 minutes	80/tcp	assignment.
e8e6a3f6009c	httpd:latest	"httpd-foreground"	3 minutes ago	Up 3 minutes	80/tcp	assignment.
2.zkmeim4ke32ky30125qaz651v	httpd:latest	"httpd-foreground"	3 minutes ago	Up 3 minutes	80/tcp	assignment.

```
ubuntu@workernode1:~$
```

```
ubuntu@workernode2: ~  
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:~$
```

