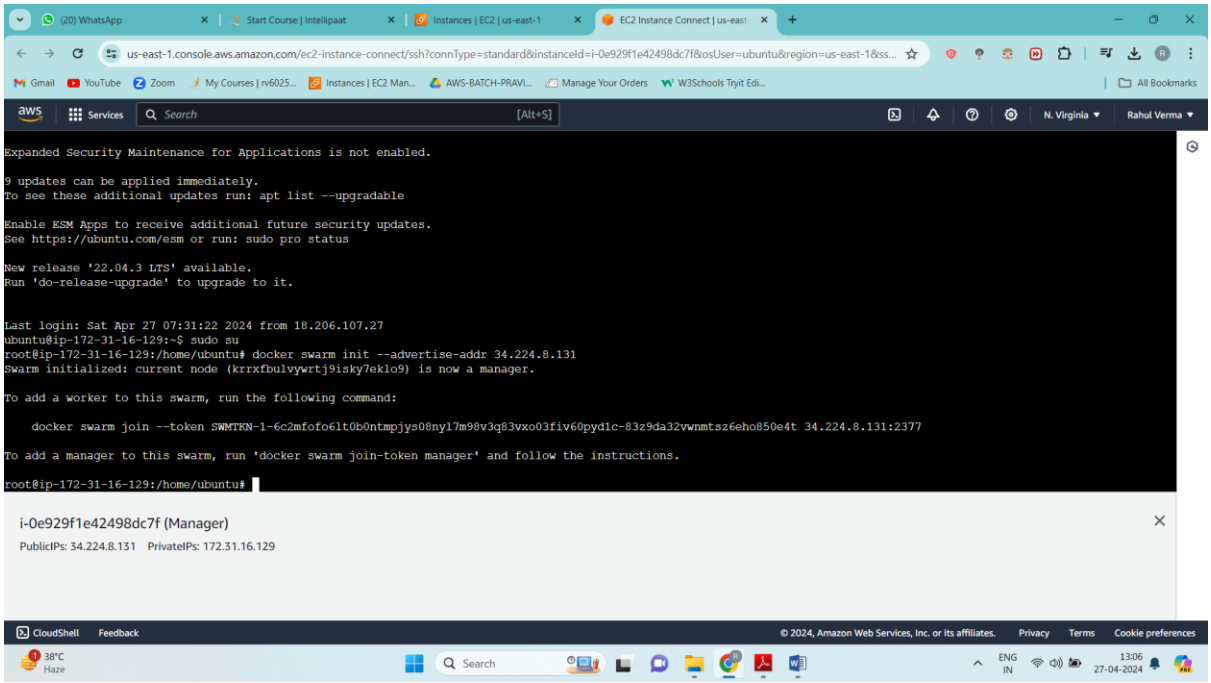
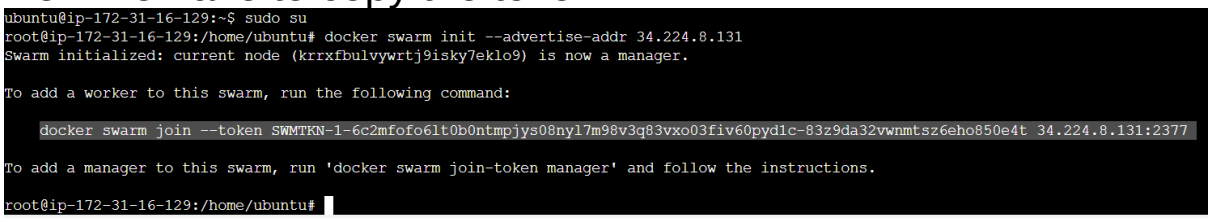
Initializing a Docker Swarm

1: First create the swarm on the Main Node (Instance) by using the below command. This command is used to initialize a swarm with a manager.

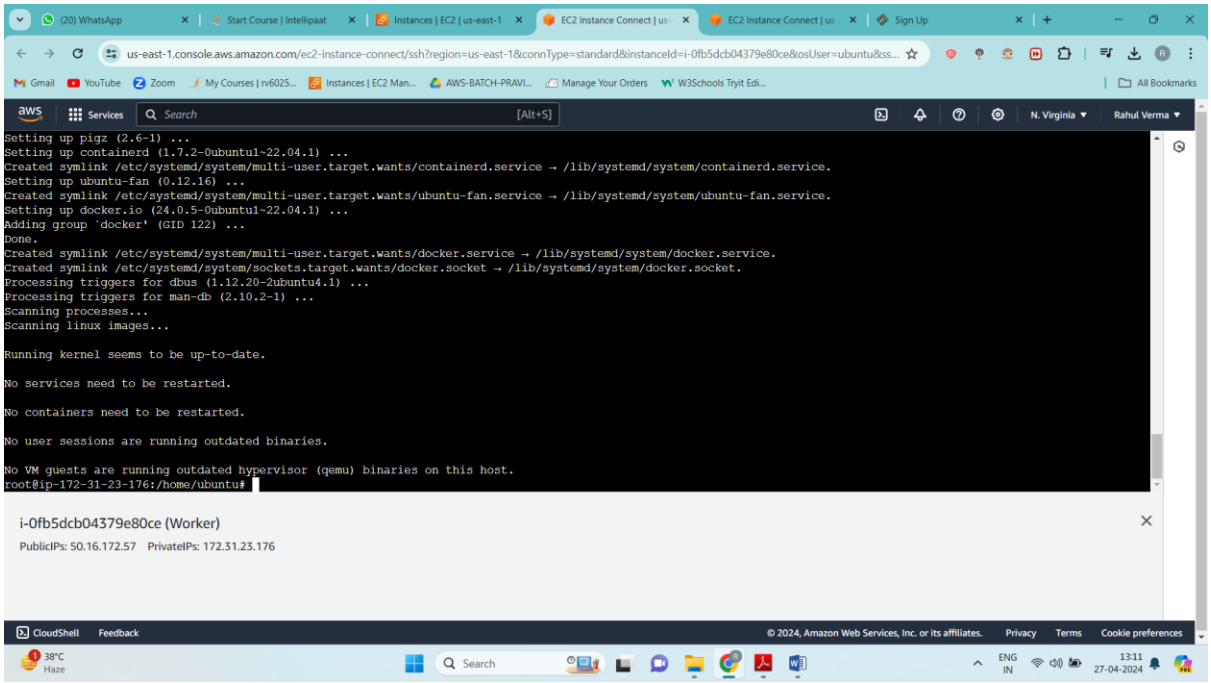
docker swarm init --advertise-addr <manager-ip>



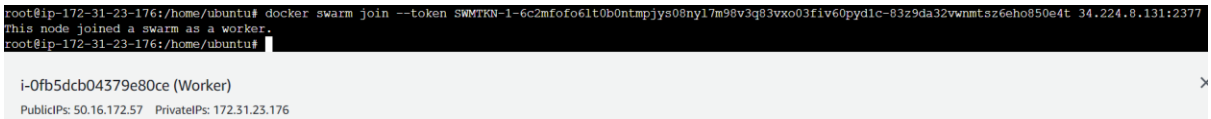
Now we have to copy the token



2: Now create another instance so that you can join it as a worker node in the previously initialized swarm.
We have already installed docker in worker instance



Now copy the token from manager instance and paste it in worker instance

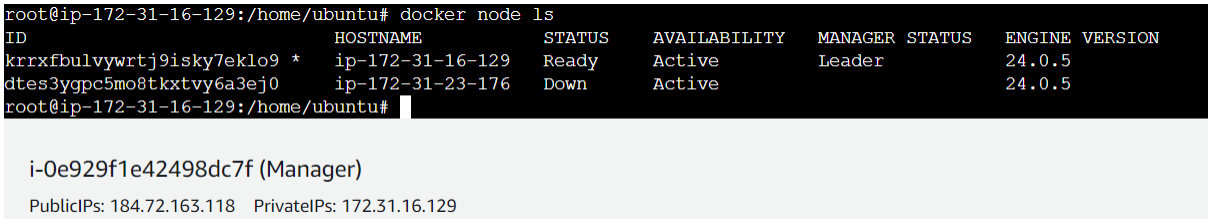


3: This command can be used to get information about the swarm

docker info

4: This command gives you the list of connected nodes.

docker node ls



5: This command can be used from the node terminal to leave a swarm.

Execute this on worker instance

docker swarm leave --force

```
ubuntu@ip-172-31-23-176:~$ sudo docker swarm leave --force
Node left the swarm.
ubuntu@ip-172-31-23-176:~$
```

i-0fb5dcb04379e80ce (Worker)

PublicIPs: 54.146.252.91 PrivateIPs: 172.31.23.176

And if you check nodes-

Worker node status is down

```
root@ip-172-31-16-129:/home/ubuntu# docker node ls
ID                            HOSTNAME           STATUS    AVAILABILITY   MANAGER STATUS   ENGINE VERSION
krrxfbulvywrtj9isky7eklo9 *   ip-172-31-16-129   Ready     Active         Leader           24.0.5
dtes3ygpc5mo8tkxtvy6a3ej0     ip-172-31-23-176   Down      Active                          24.0.5
root@ip-172-31-16-129:/home/ubuntu#
```

i-0e929f1e42498dc7f (Manager)

PublicIPs: 184.72.163.118 PrivateIPs: 172.31.16.129

6: This command can be used in a manager node terminal to remove a node.

docker node rm -f <node-id>

```
root@ip-172-31-16-129:/home/ubuntu# docker node rm dtes3ygpc5mo8tkxtvy6a3ej0
dtes3ygpc5mo8tkxtvy6a3ej0
root@ip-172-31-16-129:/home/ubuntu# docker node ls
ID                            HOSTNAME           STATUS    AVAILABILITY   MANAGER STATUS   ENGINE VERSION
krrxfbulvywrtj9isky7eklo9 *   ip-172-31-16-129   Ready     Active         Leader           24.0.5
root@ip-172-31-16-129:/home/ubuntu#
```

i-0e929f1e42498dc7f (Manager)

PublicIPs: 184.72.163.118 PrivateIPs: 172.31.16.129

7. if you want to add some more nodes

docker swarm join-token worker

this will give you token