**Launch three EC2 instances:**

1)Name: swarm-manager,swarm-worker1 and swarm-worker2

2)Operating System- Ubuntu

3)Instance type - t3.micro

4)Key pair- Proceed without a key pair

5)Configure Security group

* Allow SSH traffic - to connect to the EC2 instance
* Type - Custom TCP , Port range- 8001 , Source type: Anywhere
* Type - Custom TCP , Port range- 2733 , Source type: Anywhere

6)Click Launch

7)Perform the latest update:

sudo apt-get update

8) Command to install docker

sudo apt-get install docker.io -y

9) Start Docker service:

sudo systemctl start docker

10)Try running the sample image

sudo docker run hello-world

11)To enable docker service

sudo systemctl enable docker

12)It helps end-users in creating and deploying a cluster of Docker nodes

docker swarm init

13)Then copy paste the join command diplayed to the other two worker nodes

Example: sudo docker swarm join --token SWMTKN-1-4h9d094wjccg4ihvbdogmnfm39my1ciip8nmw8ru2d3s1e11h3-4gsnrnrqs2fazz798svpfd734 172.31.36.133:2377

14)Check if the worker nodes are etting listed

sudo docker node ls

15)Command to create a service running a react-django image

sudo docker service create --name django-app-service --replicas 3 --publish 8001:8001 trainwithshubham/react-django-app:latest

16) lists services that are running in the swarm.

sudo docker service ls

17) To list Docker containers. It provides crucial information about each container, such as its ID, image, status, and more

sudo docker ps

18)To remove the worker nodes, use the following command

sudo docker swarm leave

