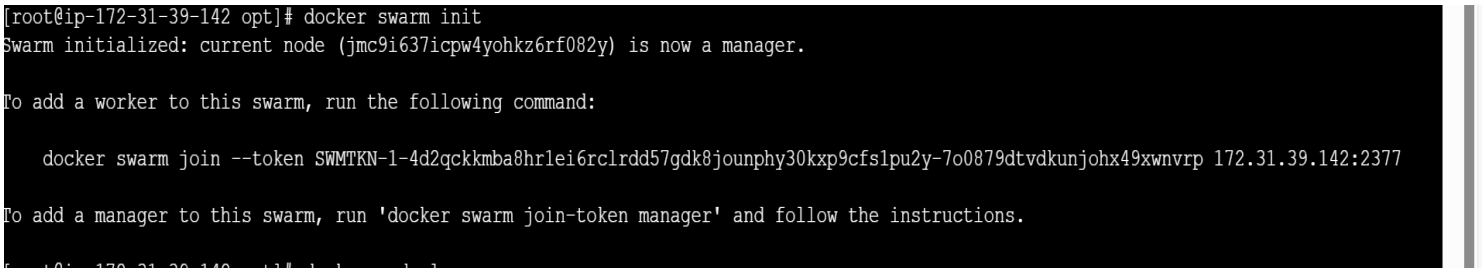
Creation of Docker Swarm

In Swarm, containers are launched using services. A service is a group of containers of the same image that enables the scaling of applications. Before you can deploy a service in Docker Swarm, you must have at least one node deployed.

There are two types of nodes in Docker Swarm:

1. Manager node. Maintains cluster management tasks
2. Worker node. Receives and executes tasks from the manager node



Step 1: Update Software Repositories

Run the following command on the terminal:

apt-get update

Step 2: Install Docker

systemctl start docker

Systemctl status docker

Step 3: Verify Docker Version

To check the installed Docker version, enter the following command:

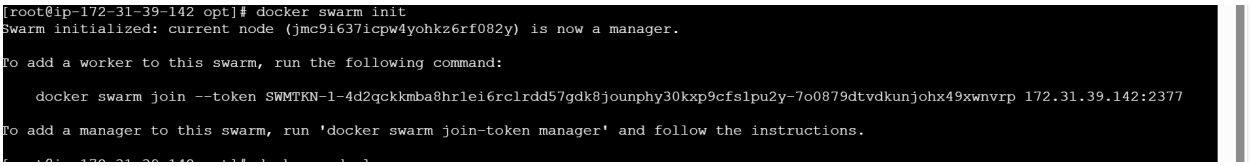
docker –version

Step 4: Create Swarm

Here create a cluster with the IP Address of the manager node

Docker Swarm init

Subsequently,you should see the following output



Manager node

This means that the manager node is successfully configured.

Now, add worker node by copying the command of the “swarm init” and paste the output onto the worker node:

docker swarm join --token SWMTKN-1-4d2qckkmba8hr1ei6rclrdd57gdk8jounphy30kxp9cfs1pu2y-7o0879dtvdkunjohx49xwnvrp 172.31.39.142:2377

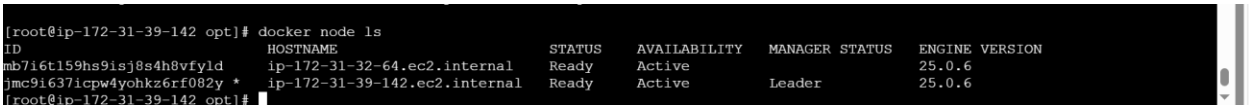
Your worker node is also created if you see the following output:

work node

Now, go back to the manager node and execute the following command to list the worker node:

docker node ls

Here, you must see the worker node in the following output:



Swarm Cluster - Docker Swarm

The above image shows you have created the Swarm Cluster successfully. Now, launch the service in Swarm Mode.

Go to your the manager node and execute the command below to deploy a service:

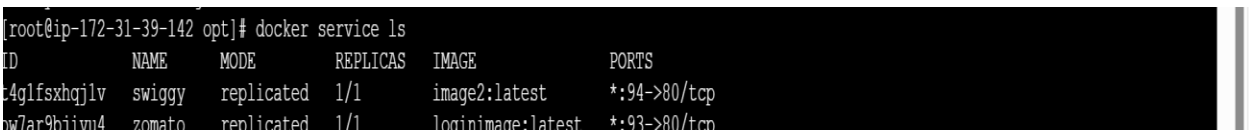
Docker service create –name zomato –publish 93:80 loginimage

By executing the above command, you can access the loginform from the remote system.

To see the output, you can check the services with the following command:

docker service ls

Finally, you should be able to see the following output:



Finally, you should be able to see the following output:

After creating the services we able to public IP Address.