Your company is ready to move forward with using Docker to run their applications.

However, they have some complex container apps that can take advantage of the cluster management and orchestration features of Docker swarm.

You have been asked to stand up a simple Docker swarm cluster to be used for some initial testing.

A set of servers has already been provisioned for this purpose. The swarm cluster should meet the following criteria:

Solution:

**To add active the swarm orchestration tool, we have to add**

**docker swarm init**

One Swarm manager.

**Our docker instance will become manager when we run docker swarm init command(MASTER)**

Two worker nodes

All nodes should use Docker CE version 5:18.09.5~3-0~ubuntu-bionic.

Both worker nodes should be joined to the cluster.

Any non-root user should be able to run docker commands on all three servers.

**I have created one ec2 instances on aws for the worker node and**

**Command to choose the Ubuntu version:**

sudo apt-get install docker-ce=5:18.09.5~3-0~ubuntu-bionic docker-ce-cli=5:18.09.5~3-0~ubuntu-bionic containerd.io

For the root privileges I have created docker group and run the following commands:

1. **sudo groupadd docker**
2. **sudo usermod -aG docker $USER**
3. **newgrp docker**

To test the nodes for the docker swarm, we run the following command:

**Docker nodes ls**

[NOTE: Write the series of commands to achieve above in this file below the question scenario with documentation]

Good luck!