**Docker Swarm**

1. Find the IP addresses of the two VM’s by ifconfig.
2. Ensure that the two nodes(VM’s) are able to ping each other
3. Ensure that both of these VM’s have docker installed
4. Create a swarm on one of them
   1. docker swarm init --advertise-addr <MACHINE-IP>
5. Create the worker node on the other VM
   1. Use the command for worker generated on previous step
6. Use can also run the following commands on the first VM(manager) to get the tokens
   1. docker swarm join-token worker
   2. docker swarm join-token manager
7. docker node ls
   1. the command will list all the nodes of a swarm
8. docker service create --name web-fe -p 8080:8080 --replicas 5 jenkins/jenkins
   1. This creates a swarm service with 5 replicas
9. docker service ls
   1. Gives a list of all running services
10. docker service ps web-fe
    1. List of service replicas and their state
11. docker service inspect --pretty web-fe
    1. To find the detailed information about the service
12. docker service scale web-fe=10
    1. To scale up the service to 10 replicas
13. You can run the step 11 again to see the effects of previous step
14. docker service rm web-fe
15. To remove a service
16. docker node promote <hostname>
    1. To promote a node from worker to manager
17. To reset the tokens, you can run the rotate command
    1. docker swarm join-token --rotate worker
    2. docker swarm join-token --rotate manager