## Case Study 3

Create three instances on docker hub playground (one manager and two worker nodes) and run the below commands -

- On Manager node docker swarm init - -advertise-addr <your-host-ip>
- 2. The above command will return a command in response like below -

```
docker swarm join - -token <token> <your-host-ip>:<your-host-port>
```

Run this returned command on both the worker nodes, to make them join the swarm cluster.

3. On all three nodes, you would be able to see like below -

## docker network Is

[node1 ~]\$ docker network ls						
NETWORK ID	NAME	DRIVER	SCOPE			
a57ca4254927	bridge	bridge	local			
e304ccd5946b	docker gwbridge	bridge	local			
2ec8798b0692	host	host	local			
y4qms6pn1o3j	ingress	overlay	swarm			
9282ce21726d	none	null	local			

4. To deploy a simple nginx "service" with a replica set of 3 on the cluster, run the below command on the manager node -

docker service create - -name myNginxService - -replicas 3 -p 31000:80 nginx:latest

5. Verify using below commands -

## docker service Is

```
[node1 ~]$ docker service ls
ID NAME MODE REPLICAS IMAGE PORTS
jr41iaiwhliv myNginxService replicated 3/3 nginx:latest *:31000->80/tcp
```

docker service ps myNginxService

[node1 ~]\$ docker service ps myNginxService						
ID PORTS	NAME	IMAGE	NODE	DESIRED STATE		
lnlb19dbo094	myNginxService.1	nginx:latest	node1	Running		
vur5pzs20p3t	myNginxService.2	nginx:latest	node2	Running		
mwyli5pm0qpg	myNginxService.3	nginx:latest	node3	Running		