

# Lab 6 – Docker-swarm

## Manage cluster of machines

### Manage service on the swarm

1. Start vagrant VMs :
  - Master as manager node
  - Worker1 as worker node 1
  - Worker1 as worker node 2Give VM IP addresses
2. Initialize a swarm cluster on Master machine (as Manager node).
  - View informations about the nodes joined the swarm.
3. Join the 2 workers nodes to the swarm
  - On Manager node, check that the 2 workers node joined the swarm
4. Create a new service named srv1 :
  - image : nginx
  - port : 8000:80
5. Display detailed informations about srv1.
  - How many replicas of srv1 ?
  - On which node replicas is running ?
  - Test web page on the browser.
6. Scale the srv1 service to 3 replicas.
  - On which node replicas is running ?
7. Shutdown Worker1 node.
  - What happened to the replicas which was running on it ?
8. Display docker networks.
  - What do you notice ?
9. Remove srv1 service.

### Deploy stack on the swarm (docker swarm + docker-compose)

10. With docker-compose yaml file created in Lab9, deploy the services on the docker swarm.