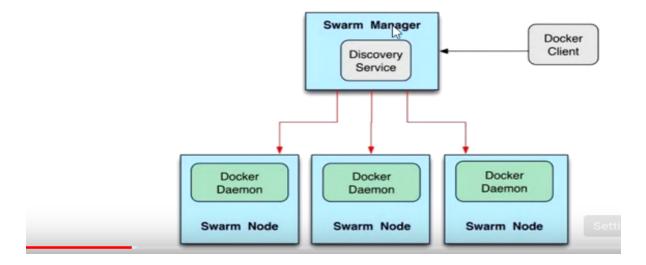
Docker swarm - introduction

Docker Swarm Architecture



- Container orchestrating tool, means we can handle multiple containers running in multiple host machines.
- Each machine is a node in docker swarm.
- We have 'm' number of docker daemon in 'n' number of host machines also known as worker nodes.
- We have one node identified as a manager node.
- Containers usually run in worker nodes .
- Services are controlled in manager nodes.

SWARM INITIALISATION

- sudo docker swarm init -advertise-addr 192.168.1.11
- Ip address is selected so that other machines can access it.

```
Swarm initialized: current node (50jkvkr17khkx30w6in06h8pz) is now a manager.

To add a worker to this swarm, run the following command:

docker swarm join --token SWMTKN-1-Opqeegth7z6tljz2kwxgo9has40d06sllxj0l7x79dp6dlwwzi-6audplwxfpgg34atei79rtafi 192.168.2
11:2377

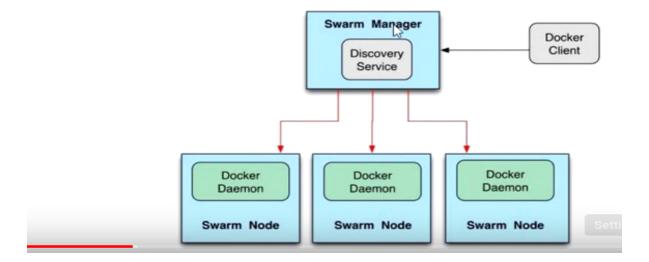
I

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions. SELVA Tech & ITO MANAGEM SELVA TECH & ITO MANAGEM
```

(copy the join commands)

Docker swarm - introduction

Docker Swarm Architecture



 Use the join command in worker machines to join the swarm. After successful joins use the below command on manager node to see available nodes in swarm

SWARM NODE

- docker node demote <node name> Demotes an existing manager so that it is no longer a manager.
- docker node inspect <node name> returns information about nodes in json format.
- docker node Is lists all nodes under manager.
- docker node promote <node name> promotes a node to a manager node.
- docker node ps <node name> lists all running process in a node
- docker node rm <node name>

DOCKER SERVICES

- sudo docker service create -replicas 2 -p 80:80 -name web1 httpd
- httpd is the image name.
- It runs the image service in two nodes in swarm.
- sudo docker service create -mode global -p 80:81 -name web1 httpd
- It runs the image service in all nodes in swarm.

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Docker Swarm Architecture

