



DOCKER SWARM INITIALIZATION

DevOps Certification Training

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DOCKER SWARM INITIALIZATION ON UBUNTU

Initialization of Docker Swarm:

Since we have already installed docker in our system, along with that docker swarm is already installed. We just need to initialize the docker swarm

Step 1: Use the following command to create a new swarm.

```
$ sudo docker swarm init --advertise-addr <master IP>
```

```
ubuntu@ip-172-31-30-114: ~/compose
ubuntu@ip-172-31-30-114:~/compose$ sudo docker swarm init --advertise-addr 18.224.140.254
Swarm initialized: current node (mvt7ujrvy3oqtakn7n8mp59hu) is now a manager.

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

    docker swarm join --token SWMTKN-1-0n6hs44w6bez8wh9sht656ycqph6ksqocdbt65lmorrzsncwly-4n8xxhy4incc62unze4z75dzy 18.224.140.254:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
```

Copy the token (marked in red) to clipboard.

Step 2: Now we will start a new session as worker, and we will join the swarm that we just created. Paste the copied token shown below.

```
$ sudo <token>
```

```
ubuntu@ip-172-31-22-82: ~
ubuntu@ip-172-31-22-82:~$ sudo docker swarm join --token SWMTKN-1-0n6hs44w6bez8wh9sht656ycqph6ksqocdbt65lmorrzsncwly-4n8xxhy4incc62unze4z75dzy 18.224.140.254:2377
This node joined a swarm as a worker.
ubuntu@ip-172-31-22-82:~$
```

Step 3: Now check we will check the node list as the manager.

```
$ sudo docker node ls
```

```
ubuntu@ip-172-31-30-114: ~/compose
ubuntu@ip-172-31-30-114:~/compose$ sudo docker node ls
ID                                HOSTNAME                STATUS                AVAILABILITY                MANAGER STATUS
ON
pzb888pme2hlrcccz9ndpe64t        ip-172-31-22-82         Ready                Active
mvt7ujrvy3oqtakn7n8mp59hu *      ip-172-31-30-114        Ready                Active                Leader
ubuntu@ip-172-31-30-114:~/compose$
```

As you can see worker has joined and status of both nodes are ready.

Step 4: Follow the commands given below to leave the swarm.

```
$ sudo docker leave --force
```

```
ubuntu@ip-172-31-22-82: ~
ubuntu@ip-172-31-22-82:~$ sudo docker swarm leave --force
Node left the swarm.
ubuntu@ip-172-31-22-82:~$
```

Now that the node left the swarm, let's check the node list as manager and check the status of the nodes.

Step 5: To check the node list as manager follow the command given below.

```
$ sudo docker node ls
```

```
ubuntu@ip-172-31-30-114: ~/compose
ubuntu@ip-172-31-30-114:~/compose$ sudo docker node ls
ID                                HOSTNAME                STATUS                AVAILABILITY                MANAGER STATUS
ON
pzb888pme2hlrcccz9ndpe64t        ip-172-31-22-82         Down                 Active
mvt7ujrvy3oqtakn7n8mp59hu *      ip-172-31-30-114        Ready                Active                Leader
ubuntu@ip-172-31-30-114:~/compose$
```

As you can, the status of the node that left the swarm is no longer ready.

Step 6: To leave the swarm as manager follow the command given below.

```
$ sudo docker swarm leave --force
```

```
ubuntu@ip-172-31-30-114: ~/compose
ubuntu@ip-172-31-30-114:~/compose$ sudo docker swarm leave --force
Node left the swarm.
ubuntu@ip-172-31-30-114:~/compose$
```