Create a swarm

Estimated reading time: 2 minutes

After you complete the tutorial setup (/engine/swarm/swarm-tutorial/) steps, you're ready to create a swarm. Make sure the Docker Engine daemon is started on the host machines.

Open a terminal and ssh into the machine where you want to run your manager node. This tutorial uses a machine named manager1. If you use Docker Machine, you can connect to it via SSH using the following command:

```
$ docker-machine ssh manager1
```

2. Run the following command to create a new swarm:

```
$ docker swarm init --advertise-addr <MANAGER-IP>
```

Note: If you are using Docker Desktop for Mac or Docker Desktop for Windows to test single-node swarm, simply run docker swarm init with no arguments. There is no need to specify ——advertise—addr in this case. To learn more, see the topic on how to Use Docker Desktop for Mac or Docker Desktop for Windows (/engine/swarm/swarm-tutorial/#use-docker-desktop-for-mac-or-docker-desktop-for-windows) with Swarm.

In the tutorial, the following command creates a swarm on the manager1 machine:

The —advertise—addr flag configures the manager node to publish its address as 192.168.99.100. The other nodes in the swarm must be able to access the manager at the IP address.

The output includes the commands to join new nodes to the swarm. Nodes will join as managers or workers depending on the value for the —token flag.

3. Run docker info to view the current state of the swarm:

```
$ docker info

Containers: 2
Running: 0
Paused: 0
Stopped: 2
    ...snip...
Swarm: active
   NodeID: dxn1zf6l61qsb1josjja83ngz
   Is Manager: true
   Managers: 1
   Nodes: 1
   ...snip...
```

4. Run the docker node 1s command to view information about nodes:

The * next to the node ID indicates that you're currently connected on this node.

Docker Engine swarm mode automatically names the node for the machine host name. The tutorial covers other columns in later steps.

What's next?

In the next section of the tutorial, we add two more nodes (/engine/swarm/swarm-tutorial/add-nodes/) to the cluster.

tutorial (/search/?q=tutorial), cluster management (/search/?q=cluster management), swarm mode (/search/?q=swarm mode)