Module 7: Docker Ecosystem & Networking

Demo Document

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Demo -1: Docker Swarm init

Creating a swarm on the `manager1` machine:

```
edureka@master:~$ sudo docker swarm init --advertise-addr 192.168.56.101
Swarm initialized: current node (khp2o54zkt0h6d2b6j6o99dqj) is now a manager.

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

    docker swarm join --token SWMTKN-1-4icamowwdg6dxo07qwnbmpg9uivh8cnowyrpp69a8sqspn0w9n-6dwc19u2xb8gwbw98nynm4z2n 192.168.56.101:2377

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

edureka@master:~$
```

The `--advertise-addr` flag configures the manager node to publish its address as `192.168.56.101`. The other nodes in the swarm must be able to access the manager at the IP address.

Once you've created a swarm with a manager node, you're ready to add worker nodes. Before moving further just check your docker version. Minimum API version required for swarm is 1.12.

1. Open a terminal and ssh into the machine where you want to run a worker node. This tutorial uses the name `host`.
2. Run the command produced by the `docker swarm init` output from the Create a swarm tutorial step to create a second worker node joined to the existing swarm:

```
edureka@host:~$ sudo docker swarm join --token SWMTKN-1-05clryrzrqzl7rmbuczjzehv3qoll3rwp956rpg5hu4i2txs8d-4rurnuuerga74mroeao8s95wv 192.168.5
6.101:2377
This node joined a swarm as a worker.
edureka@host:~$
```

3. Open a terminal and ssh into the machine where the manager node runs and run the `docker node ls` command to see the worker nodes:

```
edureka@master:~$ sudo docker node ls
ID                            HOSTNAME            STATUS              AVAILABILITY        MANAGER STATUS      ENGINE VERSION
ux8ibb5caow0s4rip5elf8gan     host                Ready               Active                                  18.03.0-ce
xjahnr3d067m84upefx2qn61o *   master              Ready               Active              Leader              18.03.1-ce
edureka@master:~$
```

If you want to create your docker swarm with two worker node, you can just import the host one more time and add it to the cluster by following the same steps which are used to join the first worker to the cluster.

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