

Distribute Your App Across a Swarm Cluster

Master -node

```
[ec2-user@ip-172-31-85-108 ~]$ docker node ls
```

ID	HOSTNAME	STATUS	AVAILABILITY	MANAGER STATUS	ENGINE VERSION
u21x3v8g4wisntafqu2syl8g	ip-172-31-80-66.ec2.internal	Ready	Active		20.10.25
j1ul130vhuhev4j9tlg4x7n0qs *	ip-172-31-85-108.ec2.internal	Ready	Active	Leader	20.10.25

```
[ec2-user@ip-172-31-85-108 ~]$
```

Created docker service in master-node

```
"docker service ps" requires at least 1 argument.
See 'docker service ps --help'.

Usage: docker service ps [OPTIONS] SERVICE [SERVICE...]

List the tasks of one or more services
[ec2-user@ip-172-31-85-108 ~]$ docker service create --name webapp --publish 8080:8080 --replicas 2 jocat
[ec2-user@ip-172-31-85-108 ~]$ docker service create --name webapp --publish 8000:8080 --replicas 2 jocat
h 8000:8080 --replicas 2 jocat
juw7joasp3nhutl9uye20mgp5
Overall progress: 2 out of 2 tasks
1/2: running [=====>]
2/2: running [=====>]
verify: Service converged
[ec2-user@ip-172-31-85-108 ~]$ docker service ls
```

ID	NAME	MODE	REPLICAS	IMAGE	PORTS
juw7joasp3nh	webapp	replicated	2/2	jocat	*:8000->8080/tcp

```
[ec2-user@ip-172-31-85-108 ~]$
```

Worker-node

In Worker node joined master-node

```
[ec2-user@ip-172-31-80-66 ~]$ docker swarm join --token SWMTKN-1-4crq9zite6uvei7ye4jl6egb3jzy78fvjw4iln0058ycm6p5b7-a6sfma7hdjtlq32a619b20djd 172.31.85.108:2377
This node joined a swarm as a worker.
[ec2-user@ip-172-31-80-66 ~]$ docker service ls
Error response from daemon: This node is not a swarm manager. Worker nodes can't be used to view or modify cluster state. Please run this command on a manager node or promote the current node to a manager.
[ec2-user@ip-172-31-80-66 ~]$ docker node ls
Error response from daemon: This node is not a swarm manager. Worker nodes can't be used to view or modify cluster state. Please run this command on a manager node or promote the current node to a manager.
[ec2-user@ip-172-31-80-66 ~]$ docker service create --name webapp --publish 8000^C080 --replicas 2 jocat
```

And worker node will docker service

```
[ec2-user@ip-172-31-80-66 ~]$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ea0fa852b72f	jocat	"/bin/sh -c 'node se..."	2 minutes ago	Up 2 minutes	8080/tcp	webapp.1.43qbm4b19mxcw8zq3x7d8c7ju

```
[ec2-user@ip-172-31-80-66 ~]$
```