

Overlay networks provide transparent network connectivity to containers running in a Swarm, regardless of whether they are running on the same or different nodes. In this lesson, we will discuss overlay networks and demonstrate how to use them to connect containers in a Docker Swarm.

Relevant Documentation

- <https://docs.docker.com/network/overlay/>

Lesson Reference

1. List the networks on the host. You should be able to see the default `ingress` overlay network.

```
docker network ls
```

2. Create an attachable overlay network.

```
docker network create --driver overlay --attachable my-overlay
```

3. Create a service that uses that network, then test the network by attaching a container to it and using the container to communicate with the service.

```
docker service create --name overlay-service --network my-overlay --replicas 3 nginx  
docker run --rm --network my-overlay radial/busyboxplus:curl curl overlay-service:80
```