# Module-5: Networking and Security

## Demo Document - 2

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# DEMO-2: Overlay Network

**Note:** All commands are executed as root.

1.  To create an overlay network use

```
$ docker network create --driver overlay --attachable <networkName>
```

The --attachable flag lets containers outside of swarm to connect to the overlay network

```
root@docker-1:~# docker network create -d overlay --attachable myoverlay
5zqcwfrlo9dgv71p5v3804jqk
```

2.  Check the deployed network using the ls command

```
$ docker network ls
```

```
root@docker-1:~# docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
646251da9ee9        bridge              bridge              local
4ade9c9deb87        docker_gwbridge     bridge              local
8007bfe35676        host                host                local
lnjs1ov80kho        ingress             overlay             swarm
3c6eff7a7139        mybridge            bridge              local
5zqcwfrlo9dg        myoverlay           overlay             swarm
5892f118f3b1        none                null                local
```

3.  Start a service with the overlay network

```
$ docker service create \
  --name nginx4 \
  --network <networkName> \
  --replicas 3 \
  --publish 8008:80 \
  nginx
```

```
root@docker-1:~# docker service create \
> --name nginx4 \
> --network myoverlay \
> --replicas  3 \
> --publish 8008:80 \
> nginx
nsewwqlmg4zdqacxedkp0weu1
overall progress: 3 out of 3 tasks
1/3: running   [==================================================>]
2/3: running   [==================================================>]
3/3: running   [==================================================>]
verify: Service converged

                    Resources:
                    Networks: myoverlay
                    Endpoint Mode:    vip
```