

Creamos una subred swarm por ejemplo

```
# docker network create --subnet=172.19.0.0/16 swarm
b61fd20f8ea5d6c53e70f938b4e1ce44333ba0fd993a333c5fb9fefc6cd2d1f3
```

```
# docker network ls
```

NETWORK ID	NAME	DRIVER	SCOPE
ef49af878942	bridge	bridge	local
3016c3471d38	host	host	local
e72a3fcdfff2	none	null	local
b61fd20f8ea5	swarm	bridge	local
15c7084e1eea	weblogicnet	bridge	local

Miramos el detalle de la red:

```
# docker inspect swarm
```

```
[
  {
    "Name": "swarm",
    "Id":
    "b61fd20f8ea5d6c53e70f938b4e1ce44333ba0fd993a333c5fb9fefc6cd2d1f3",
    "Created": "2017-02-13T18:10:44.25361846+01:00",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "172.19.0.0/16"
        }
      ]
    },
    "Internal": false,
    "Attachable": false,
    "Containers": {},
    "Options": {},
    "Labels": {}
  }
]
```

Ahora ejecutamos cada máquina con una ip:

```
# docker run --name swarm-nodo1 --privileged --net swarm --ip 172.19.0.101 -
-hostname swarm1 --add-host=swarm1:172.19.0.101 --add-
host=swarm2:172.19.0.102 --add-host=swarm3:172.19.0.103 -ti swarm
```

```
# docker run --name swarm-nodo2 --privileged --net swarm --ip 172.19.0.102 -
-hostname swarm2 --add-host=swarm1:172.19.0.101 --add-
host=swarm2:172.19.0.102 --add-host=swarm3:172.19.0.103 -ti swarm
```

```
# docker run --name swarm-nodo3 --privileged --net swarm --ip 172.19.0.103 -
-hostname swarm3 --add-host=swarm1:172.19.0.101 --add-
host=swarm2:172.19.0.102 --add-host=swarm3:172.19.0.103 -ti swarm
```

Creamos swarm en el primer nodo

```
# docker swarm init --advertise-addr 172.19.0.101
```

Swarm initialized: current node (obtavwk9ypnpq20ubd54gt7me) is now a manager.

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

```
docker swarm join \
--token SWMTKN-1-5wvvfc5qpmk4avbqzv0iw1st0qxtwb15ut0phwyjgmv2iw65t7-
akxww3rmtsimaihqokcgmwu7a \
172.19.0.101:2377
```

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

Si hacemos docker info, vemos swarm:

```
# docker info
```

```
.....
Swarm: active
NodeID: obtavwk9ypnpq20ubd54gt7me
Is Manager: true
ClusterID: tbzs05pa17b5vkseyzzmc2sew
Managers: 1
Nodes: 1
.....
```

Podemos ver los nodos activos:

```
# docker node ls
```

ID	HOSTNAME	STATUS	AVAILABILITY	MANAGER STATUS
obtavwk9ypnpq20ubd54gt7me *	swarm1	Ready	Active	Leader

El * indica que actualmente estamos conectados a ese nodo

Desde el manager, sacamos el token para unir a los otros:

```
# docker swarm join-token worker
```

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

```
docker swarm join \
  --token SWMTKN-1-5wvvfc5qpmk4avbqzv0iw1st0qxtwb15ut0phwyjgmv2iw65t7-
  akxww3rmtsimaihqokcgmwu7a \
  172.19.0.101:2377
```

Lanzamos ese comando en los otros dos nodos y vemos que se han unido:

```
# docker node ls
```

ID	HOSTNAME	STATUS	AVAILABILITY	MANAGER STATUS
bz1lp92f0ietyc2rvv8zs63dt	swarm3	Ready	Active	
mzjrvtr4519idowp10y1lowfy	swarm2	Ready	Active	
obtavwk9ypnpq20ubd54gt7me *	swarm1	Ready	Active	Leader

Crear un servicio

<https://docs.docker.com/engine/swarm/swarm-tutorial/deploy-service/>

```
# docker service create --replicas 1 --name helloworld alpine ping
docker.com
nyl09vvho4z1f63lo9f2bbsb4
```

```
# docker service ls
```

ID	NAME	MODE	REPLICAS	IMAGE
nyl09vvho4z1	helloworld	replicated	1/1	alpine:latest

Ahora miramos el servicio

<https://docs.docker.com/engine/swarm/swarm-tutorial/inspect-service/>

```
docker service inspect --pretty helloworld
```

```
ID:      nyl09vvho4z1f63lo9f2bbsb4
Name:     helloworld
Service Mode:  Replicated
  Replicas:  1
Placement:
UpdateConfig:
  Parallelism:  1
  On failure:   pause
  Max failure ratio: 0
ContainerSpec:
  Image:
alpine:latest@sha256:dfbd4a3a8ebca874ebd2474f044a0b33600d4523d03b0df76e5c598
6cb02d7e8
  Args:      ping docker.com
```

Resources:

Endpoint Mode: vip

Vemos donde corre:

docker service ps helloworld

ID	NAME	IMAGE	NODE	DESIRED	STATE	CURRENT
STATE	ERROR	PORTS				
l4edt3bnis27	helloworld.1	alpine:latest	swarm3	Running		Running 3 minutes ago

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