

DOCKER NETWORKS

Types of Docker Networks

There are four types of docker networks

1. Bridge Network
2. Host Network
3. None Network
4. Overlay Network

Bridge Network:

In Bridge Network containers are communicate with each other in the same host and the default network is bridge network

Host Network:

In Host Network the host IP and container IP is same

None Network:

None Network is not exposing the container because it can't provide the IP for the container

Overlay Network:

Overlay Network is used to create communication between one server container to another server container

Steps to create Bridge Network

1. First create one network in terminal by using command

docker network create network name	It is used to create the network
---	----------------------------------

2. To list the Networks there is command

docker network ls	To list the networks
--------------------------	----------------------

As shown in below figure

```

aws Services Search [Alt+S]
ubuntu latest 59ab366372d5 3 weeks ago 78.1MB
image1 latest fe36f7f56857 3 weeks ago 78.1MB
[root@ip-172-31-19-173 ~]# docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[root@ip-172-31-19-173 ~]# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
9494ca375c86   image1    "/bin/bash"   19 hours ago   Exited (137) 19 hours ago   cont-2
4d82bb517f3f   ubuntu    "/bin/bash"   19 hours ago   Exited (137) 19 hours ago   cont1
[root@ip-172-31-19-173 ~]# docker networks
docker: 'networks' is not a docker command.
See 'docker --help'
[root@ip-172-31-19-173 ~]# docker networks ls
docker: 'networks' is not a docker command.
See 'docker --help'
[root@ip-172-31-19-173 ~]# docker network ls
NETWORK ID     NAME      DRIVER    SCOPE
b290a3839d37   bridge   bridge    local
f12d3efd4131   host     host      local
9cde96655fb1   none     null      local
[root@ip-172-31-19-173 ~]# docker network create mani
bd9867c93b786310b6990e5629d68d2ae7e94b4e49f34a8708a952411f84fa82
[root@ip-172-31-19-173 ~]# docker network ls
NETWORK ID     NAME      DRIVER    SCOPE
b290a3839d37   bridge   bridge    local
f12d3efd4131   host     host      local
bd9867c93b78   mani     bridge    local
9cde96655fb1   none     null      local
[root@ip-172-31-19-173 ~]#

```

3. Create the network for the container by the command is

docker run -it --name new cont name --network network name image name
--

4. After creating the container with created network just inspect that container to see the information by the command

Docker inspect container name	To see the information of the container
--	---

As shown in below figure

- ## 5. Switch to the container by using command

- ## 6. Check the running containers

7. Switch into container2 Type **ping** paste the copied IP in cont2 – check the connection if the connection is providing then it is working as shown in below figure