**Docker networking:**

There are the 4 types of docker networking:

1. Bridge network
2. Host only network
3. Null network
4. Over lay network
5. **Bridge network:**

it is used between the containers which are running on the same docker host.

1. **Host only network:**

By using the container communicate only with the host machine.

1. **Null network:**

It is used create an isolated container which doesn’t communicate with another container.

1. **Overlay network**

It is used when we have a docker containers which are running on the docker host is a distributed environment.

Create a docker network

>docker network create a network name

 To remove a network

>docker network rm network name or network id

 To connect a container to a network

>docker network connect network name or network id.

 To disconnect a container from the network

>docker network disconnect network name or network id.

 To find the list of networks

>docker network ls

To find the detailed info about a network

>docker network inspect network name or network ID

**Scenario:**

* Create 2 docker networks name as network 1 and network 2
* Create 3 busy box container
* Container 1 and container 2 should run on network 1
* Container 3 should run on network 2.

1. To create 2 networks

>docker network create network1

>docker network create network2

2. To see the list of networks      
   >docker network ls

3. start busy box b1 container on network1   
  >docker run -it --name b1 --network network1 busy box

>Ctrlp+Ctrlq

4. find the IP address of the b1

>docker inspect b1

1. start busy box b2 container on network1   
   >docker run -it --name b2 --network network1 busy box
2. start busy box b3 container on network2

>docker run -it --name b3 --network network2 busy box

1. connect container2 (b2) to network2

>docker network connect network2 b2

 8. Go into container 2 (b2)

>docker attach container 2

9. from b2 to ping Ip address of container 1 (b1)

 it should communicate (because container 1 and container 2 are sharing the same network i.e., network 1)

10. from b2 to ping ip address of container 3 (b3)

 it should communicate (because container 2 and container 3 are sharing the same network i.e., network 2)

 11. But if we call container 1 from container 3 and vice versa., call should not happen     because container1 and container 3 are sharing different networks    i.e., container 1 is available in network1    and           container 3 is available in network2