

### Task 1: Using bridge networking

- Reference: <https://docs.docker.com/network/network-tutorial-standalone/>
- Practice using multiple bridge network:
  - + Create 2 bridges
  - + Create 2 containers on each bridge and test the connection between 2 containers

### Task 2: Using host networking

- Reference: <https://docs.docker.com/network/network-tutorial-host/>

### Task 3: Using overlay networking

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

### Task 4: Using macvlan networking

- Reference: <https://docs.docker.com/network/network-tutorial-macvlan/>

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#### Task 1: Create network

```
thuongbv@thuongbv-desktop:~$ docker network create --driver bridge bridge_network_1
cc3f4a2a5afaef122faf7e310533e8ccbbe9147264d8ee6311f6e3820114aaac
thuongbv@thuongbv-desktop:~$ docker network create --driver bridge bridge_network_2
1e16dfb2235c2d37f09a250b9d205d9634dba999abdc7dd462b6aa7b4a974826
thuongbv@thuongbv-desktop:~$ docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
2623a122f06e        bridge              bridge              local
cc3f4a2a5afa        bridge_network_1    bridge              local
1e16dfb2235c        bridge_network_2    bridge              local
1efef8a711ae        host                host                local
1d91e0ace88e        none                null                local
```

#### Create container

```
thuongbv@thuongbv-desktop:~$ docker run -dit --name alpine1 --network bridge_network_1 alpine ash
3d0cc5d4543d9fbbcd48caf5acb598c5b973a1e75d1a4788e7c2c36ea78b054b
thuongbv@thuongbv-desktop:~$ docker run -dit --name alpine2 --network bridge_network_2 alpine ash
1cb2c029adca397288a07b3e17da7315559f20b3de1b8e10aeb09992d8ce7da6
thuongbv@thuongbv-desktop:~$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
1cb2c029adca        alpine             "ash"              11 seconds ago     Up 10 seconds      0.0.0.0:6444->6444  alpine2
3d0cc5d4543d        alpine             "ash"              19 seconds ago     Up 18 seconds      0.0.0.0:6444->6444  alpine1
thuongbv@thuongbv-desktop:~$
```

#### Test connect

```
thuongbv@thuongbv-desktop:~$ docker container ls -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
1cb2c029adca   alpine   "ash"     3 minutes ago    Up 3 minutes                   alpine2
3d0cc5d4543d   alpine   "ash"     3 minutes ago    Exited (1) 26 seconds ago      alpine1
thuongbv@thuongbv-desktop:~$ docker restart 3d
3d
thuongbv@thuongbv-desktop:~$ docker container attach apline1
Error response from daemon: No such container: apline1
thuongbv@thuongbv-desktop:~$ docker container attach alpine1
/ # docker ping -c 2 alpine2
ash: docker: not found
/ # ping -c 2 alpine2
ping: bad address 'alpine2'
/ #
/ # ping -c 2 1c
ping: bad address '1c'
/ #
```

## Task2:

localhost

## Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](https://nginx.org).  
Commercial support is available at [nginx.com](https://nginx.com).

*Thank you for using nginx.*