

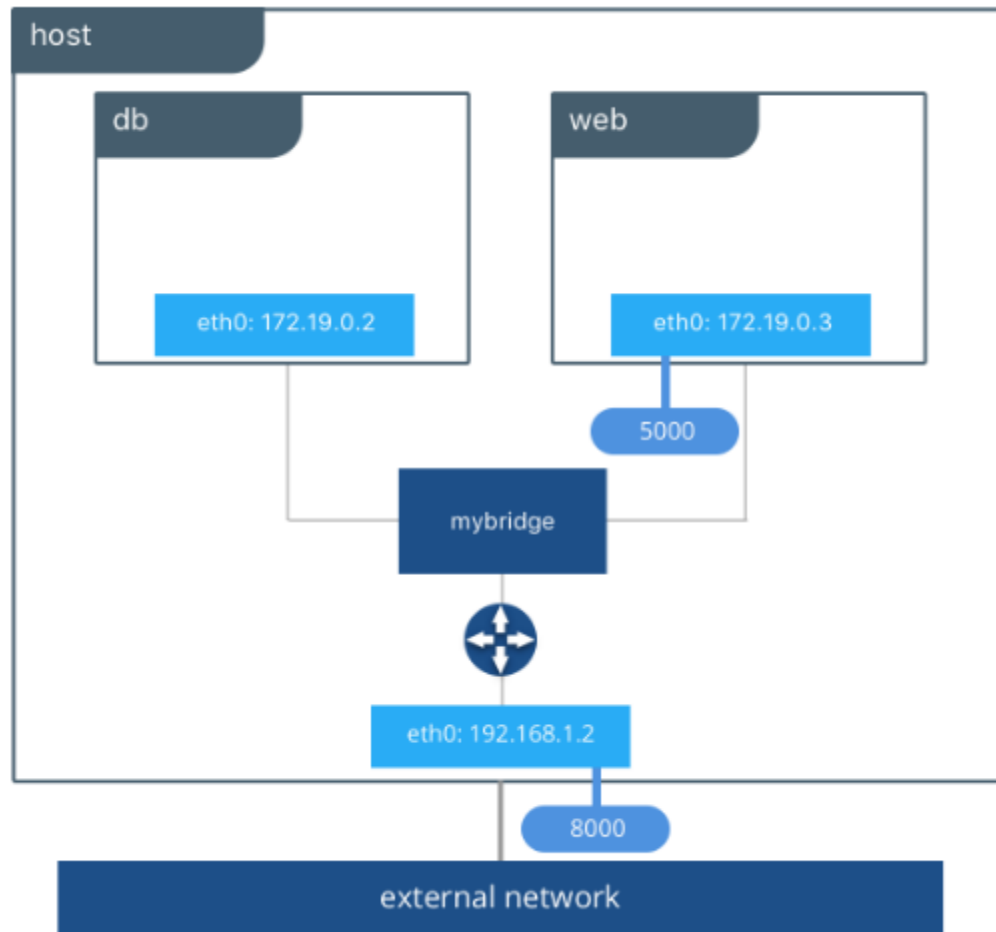
Docker - Networking

Networking

- Helps to communicate between containers , container to host communication or to access the app running inside container
- docker0 - interface gets created during Docker installation
- Pluggable system using drivers
- Networking drivers available -
 - bridge
 - host
 - overlay
 - macvlan
 - none
- Default network range - 172.17.0.0/16
- Can create custom network with other network range like 10.0.0.0/16
- Bridge is default network driver

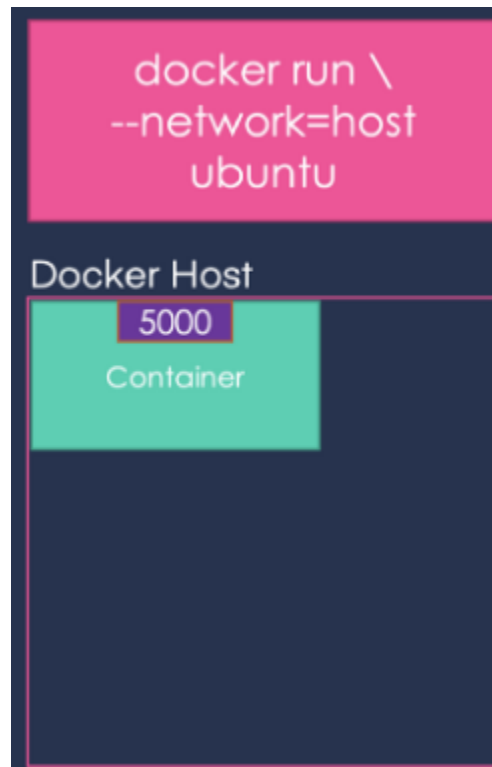
Understanding Bridge Network

- Provides the bridge to help communication between the containers who are connected to bridge network



Host Network

- Container uses host network directly
- Removes the network isolation between container and host
- If you run container app on 80 and network is of type host then app is running directly on host port 80, no port mapping required
- **Advantage** - use cases - Run app within container which requires host network access or monitor host process



Publish All

- If we want to access container application from outside then,

Two options

- First option -p 80:80 - Publishing provided port or specific port only
 - Publish all - Publish all exposed ports
- We need to use -P instead of -p
 - It will assign random port on host