

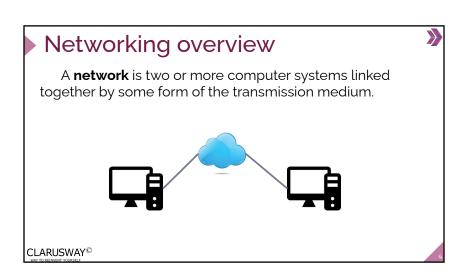
Table of Contents

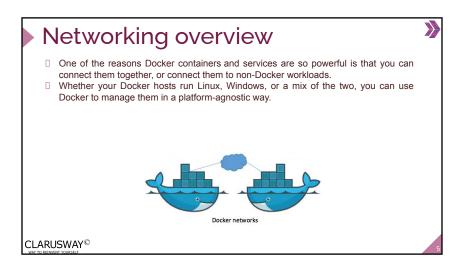
- Networking overview
- ► Network drivers
- ► User-defined bridge networks
- ► Run Port mappings
- Other Network drivers
- docker network Commands

Networking overview

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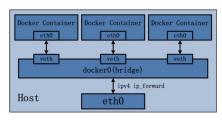


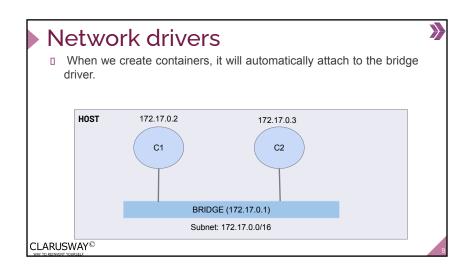


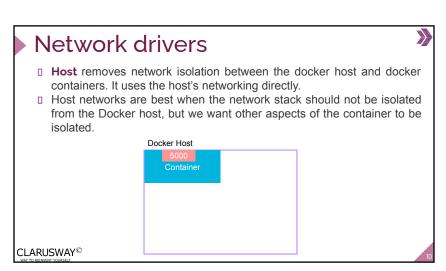
Network drivers As default, docker has three network drivers. Bridge Host none

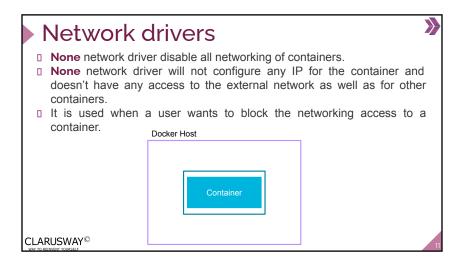
Network drivers

- bridge is the private default network driver. If we don't specify a driver, this is the type of network we are creating.
- When we install the docker, the Docker daemon creates virtual ethernet bridge dockero that performs the operation by automatically delivering packets among various network interfaces.

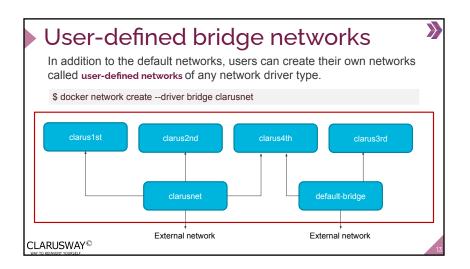










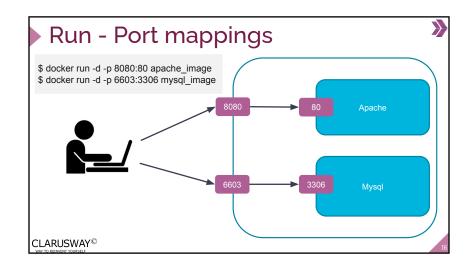




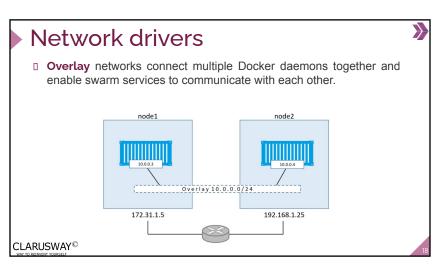
Run - Port mappings

By default, when you create a container, it does not publish any of its ports to the outside world. To make a port available to services outside of Docker, or to Docker containers which are not connected to the container's network, use the --publish or -p flag.

-p host_port:container_port







Network drivers

- Macvlan networks allow you to assign a MAC address to a container, making it appear as a physical device on your network.
- Using the macvlan driver is sometimes the best choice when dealing with legacy applications that expect to be directly connected to the physical network, rather than routed through the Docker host's network stack.

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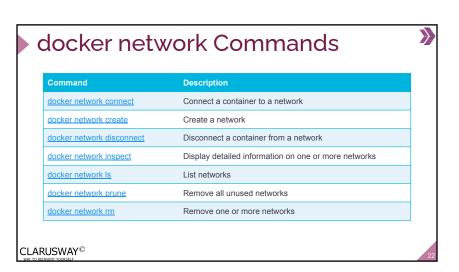
Network drivers

- Network plugins: We can install and use third-party network plugins with Docker. These plugins are available from Docker Hub or from third-party vendors.
- ☐ Third-party network plugins allow us to integrate Docker with specialized network stacks.

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6 docker network Commands

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Network drivers

overlay: Overlay networks connect multiple Docker daemons together and enable swarm services to communicate with each other. You can also use overlay networks to facilitate communication between a swarm service and a standalone container, or between two standalone containers on different Docker daemons. This strategy removes the need to do OS-level routing between these containers.

Network drivers

- macvlan: Macvlan networks allow you to assign a MAC address to a container, making it appear as a physical device on your network. The Docker daemon routes traffic to containers by their MAC addresses. Using the macvlan driver is sometimes the best choice when dealing with legacy applications that expect to be directly connected to the physical network, rather than routed through the Docker host's network stack.
- Network plugins: You can install and use third-party network plugins with Docker. These plugins are available from Docker Hub or from third-party vendors.

