Communication Between Docker Containers

User-defined bridge network

You can create custom, user-defined networks, and connect multiple containers to the same network. Once connected to a user-defined network, containers can communicate with each other using container IP addresses or container names.

1. Create the alpine-net network.
    a. “docker network create alpine-net” (alpine-net can be whatever you want the network name to be)
    b. List Docker's networks:

```
$ docker network ls

NETWORK ID          NAME                DRIVER              SCOPE
e9261a8c9a19        alpine-net          bridge              local
17e324f45964        bridge              bridge              local
6ed54d316334        host                host                local
7092879f2cc8        none                null                local
```

2. Run both containers on the network
    a. docker run -dit --name container1 --network my-net alpine
    b. docker run -dit --name container2 --network my-net alpine
3. Exec into container 1
    a. docker exec -it container1 sh
4. “ ping container2”
    a. A success message will appear if the containers successfully communicated

Links

These links have step by step instructions in detail.

https://docs.docker.com/engine/network/tutorials/standalone/

https://docs.docker.com/engine/network/