

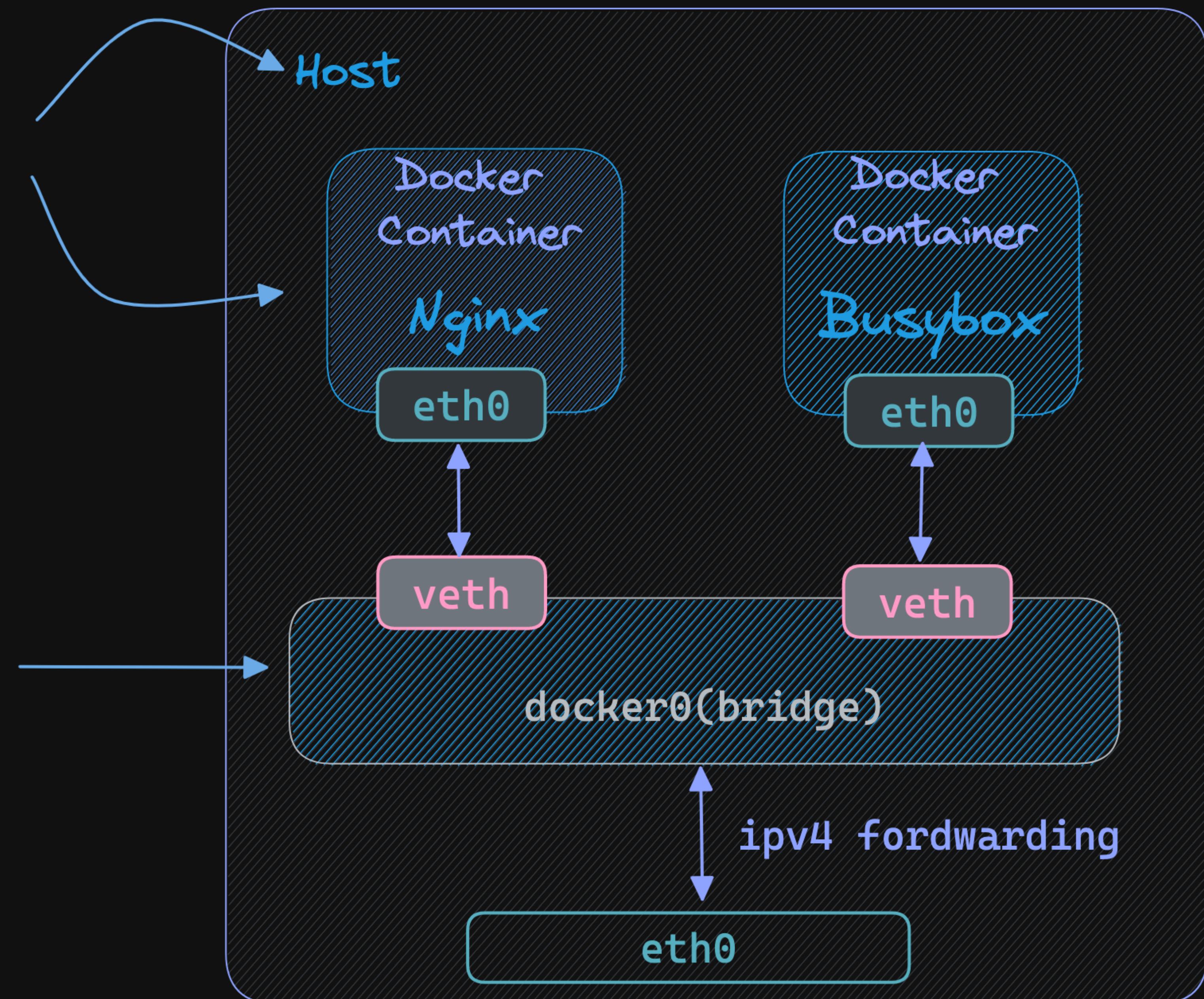


Docker

Docker Bridge Network

The host can communicate with the Docker containers, and the containers can also communicate with each other.

(*) Docker creates a virtual shared network between the host and all containers.



By default Docker launch your containers in Bridge network type.



NETWORK ID	NAME	DRIVER	SCOPE
e0842df7e1aa	bridge	bridge	local
064f73013df0	host	host	local
f73f28ae12b1	minikube	bridge	local
677918e68785	none	null	local

To view existing container networks on the current Docker host.

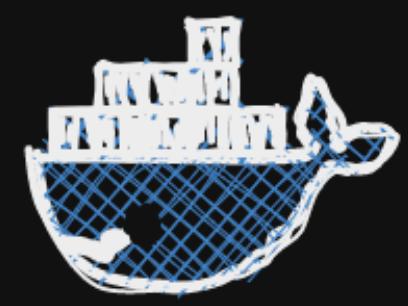
(*) Because of the way networking is implemented in Docker Desktop, you cannot see a docker0 interface on the host. This interface is actually within the virtual machine.



Docker

The default bridge network, allows simple container-to-container communication by IP address.

Testing communication between containers:



Nginx container



Busybox container

```
↳ docker container run -p 81:80 \
--name nginx -d nginx
9db1b2621bb21 ...
```

```
↳ docker container port nginx
```

80/tcp	→	0.0.0.0:81
container		host

```
↳ docker container inspect --format \
'{{ .NetworkSettings.IPAddress }}' nginx
```

172.17.0.2

```
↳ docker run -it --name busybox busybox
/ # wget -qO- 172.17.0.2:80
```

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
```

```
● ● ●
▶ docker network inspect bridge <-->
[
  {
    "Name": "bridge",
    "Driver": "bridge",
    "Containers": [
      "48eae72bd18fdfdeecdaf0fafefbed1453d38aeda71a0a18d7439ab1ce1fb3a4": {
        "Name": "busybox",
        "IPv4Address": "172.17.0.3/16",
      },
      "9db1b2621bb21c2b559cec586a139517800799c3312348f0a8a4599452d3d7c6": {
        "Name": "nginx",
        "IPv4Address": "172.17.0.2/16",
      }
    ]
  }
]
```

Container ID

Inspect "bridge" network

Containers can communicate because the bridge network is like a private network.