

Container Networking



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Networking is hard.



**Networking is hard.
Docker makes it easy.**





More Information

Docker Networking

Nigel Poulton



Overview/ Summary



Network Types

Network Services

Recap



Up Next:

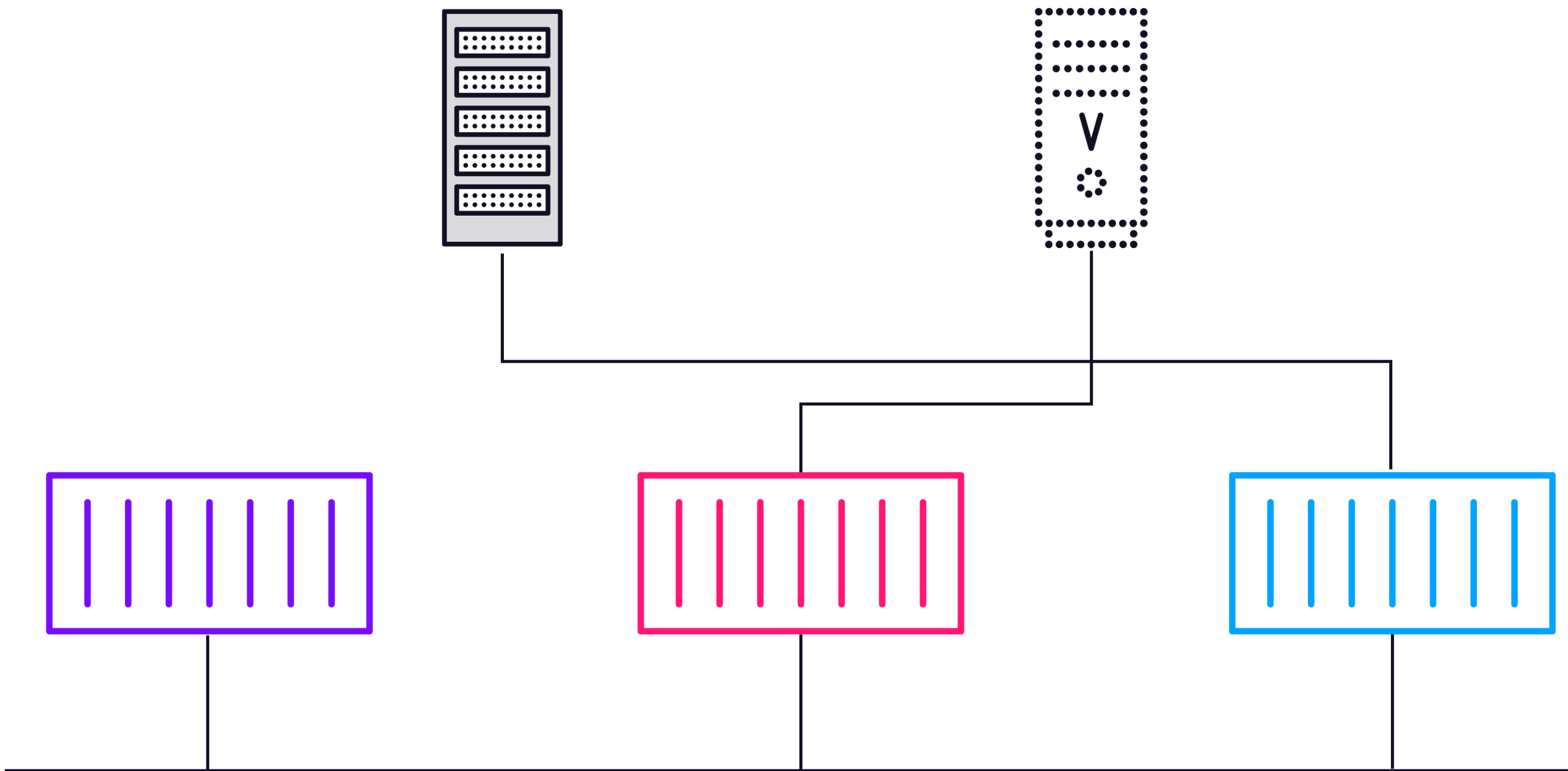
Network Types



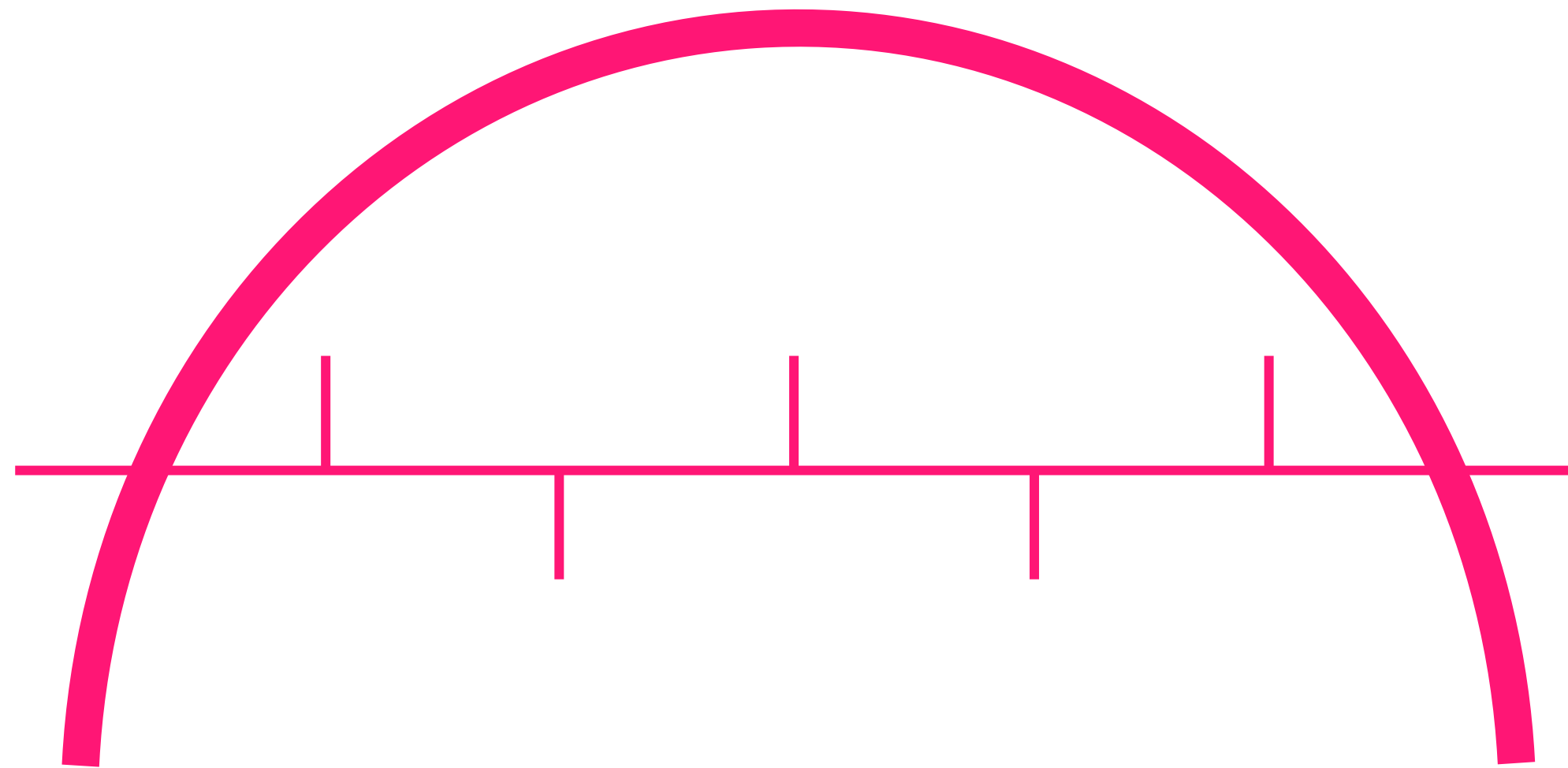


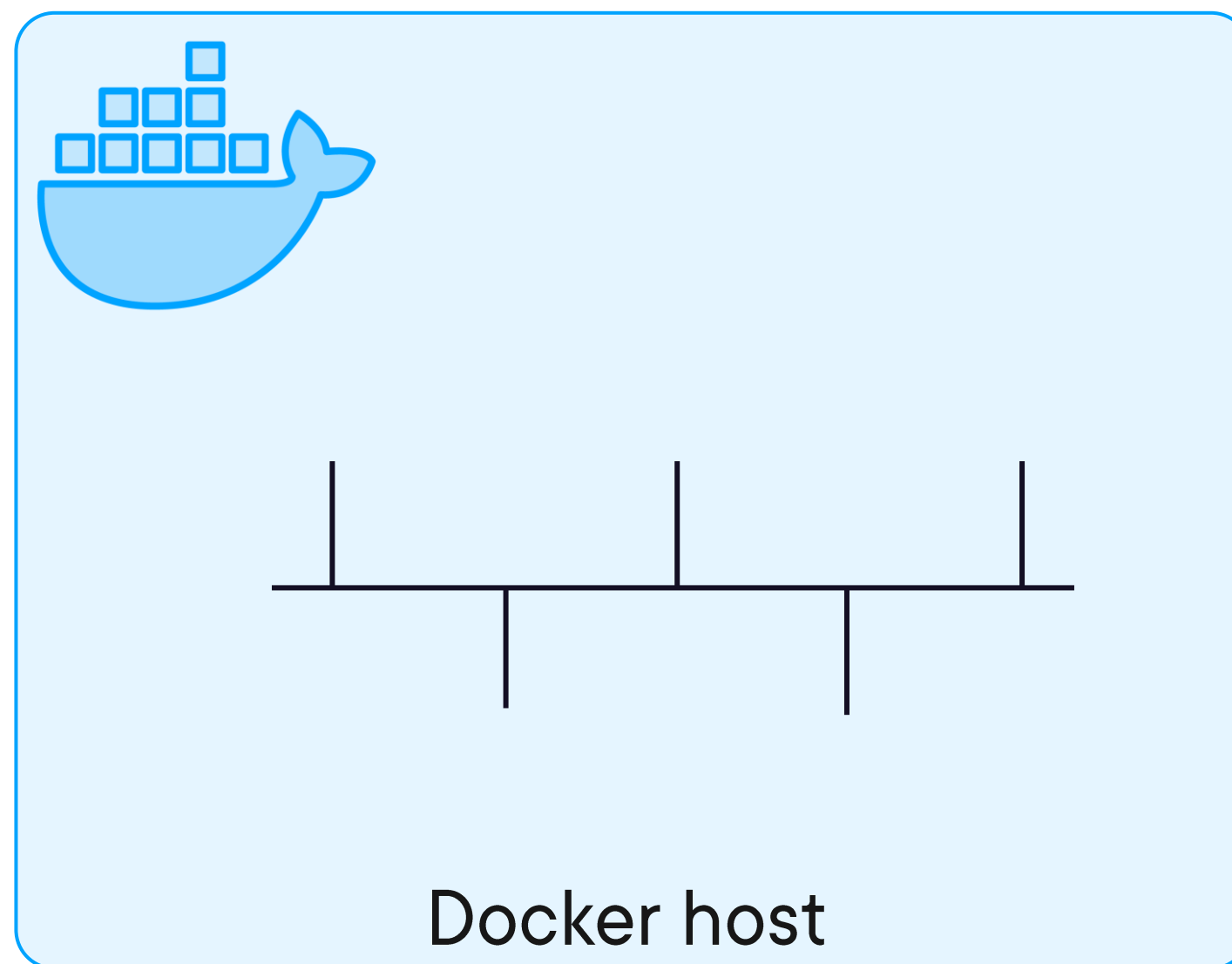
Network Types

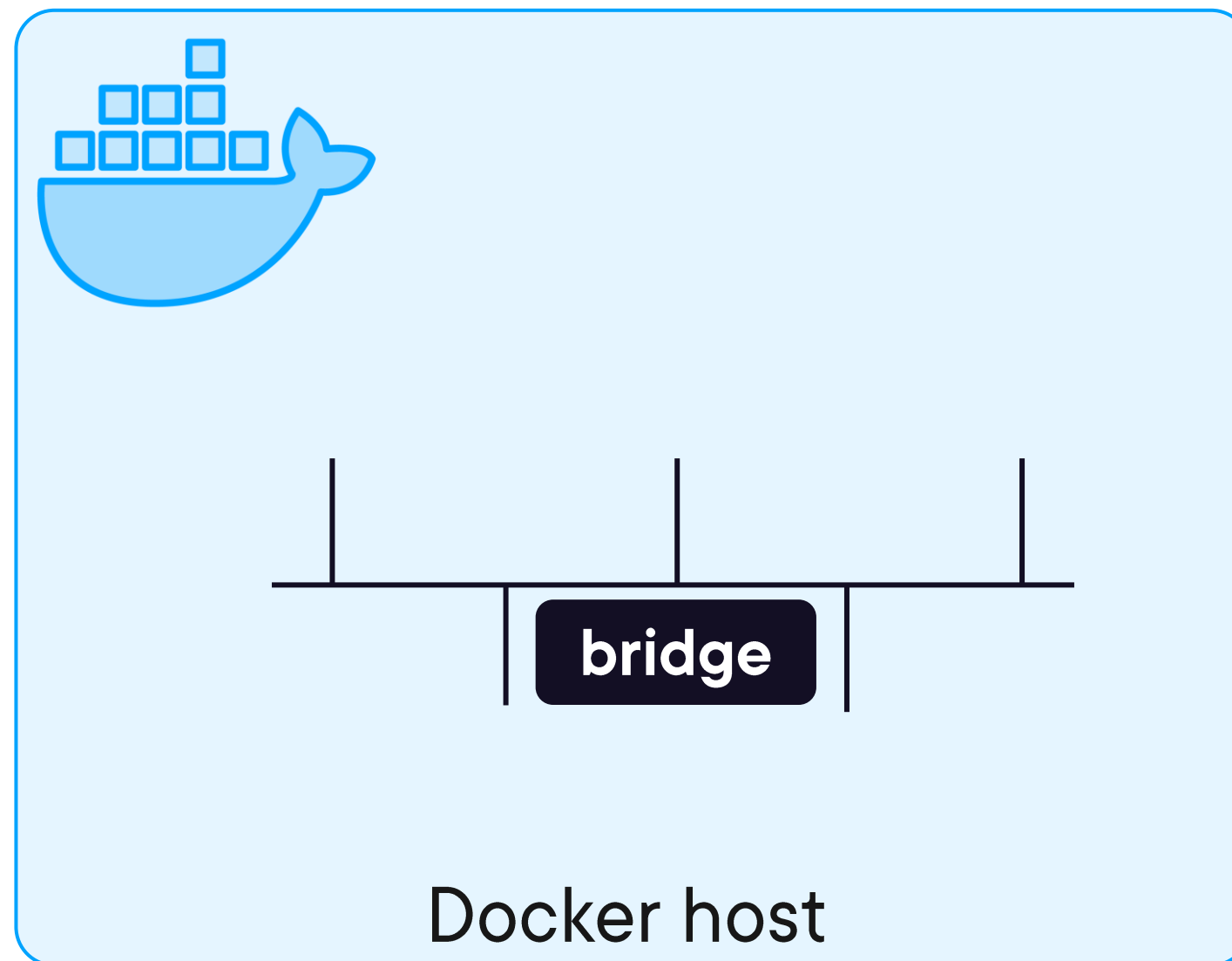


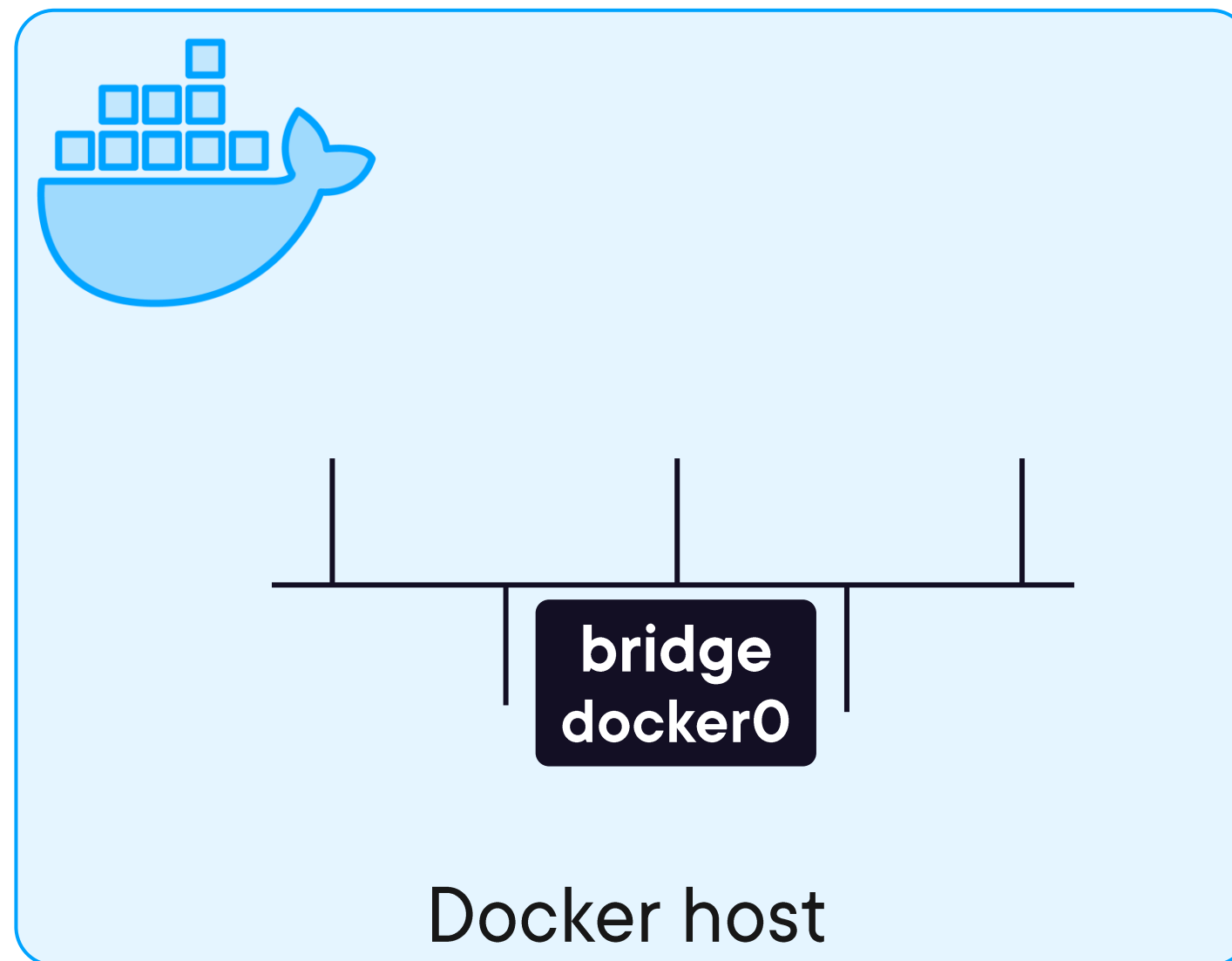


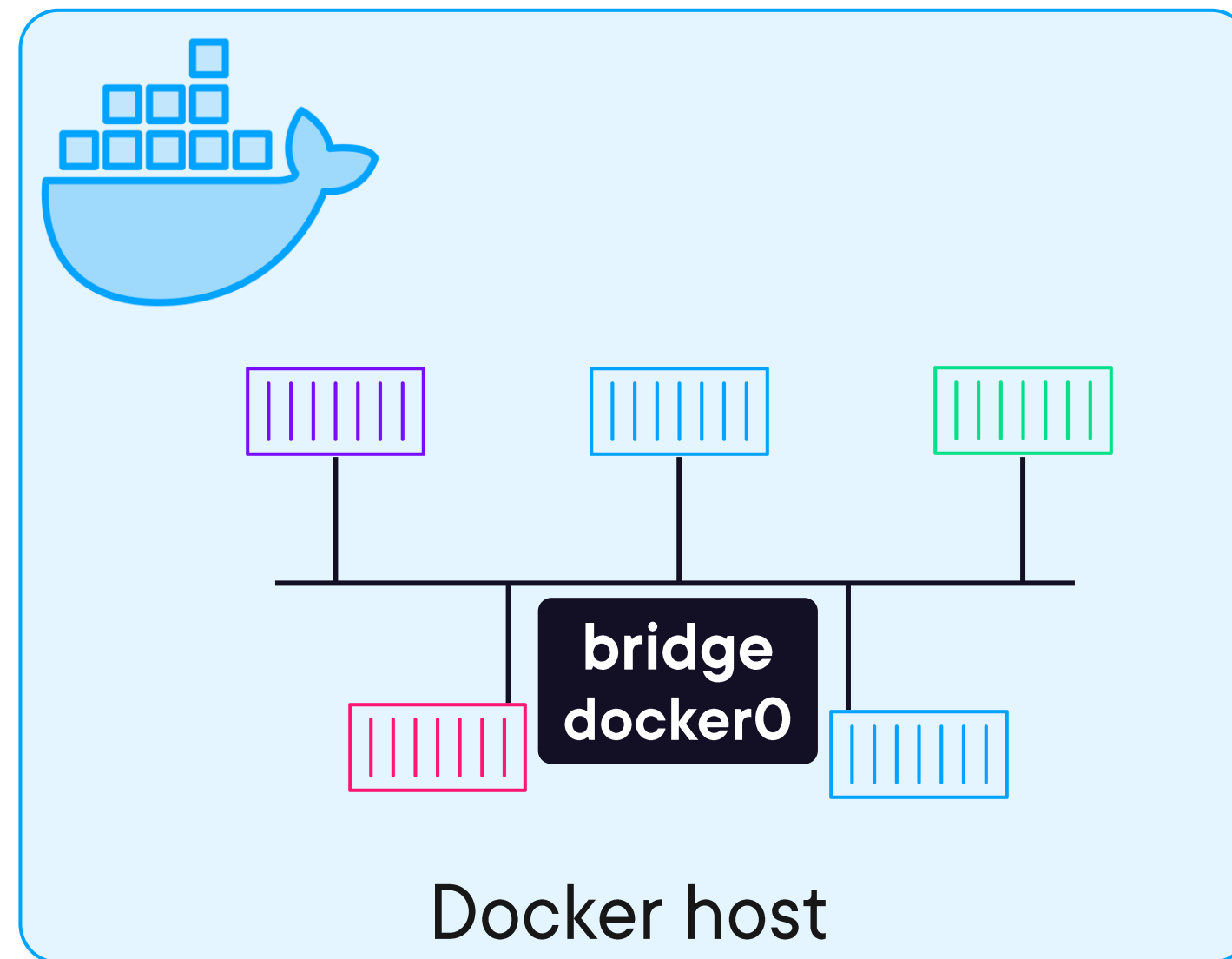
Bridge networking

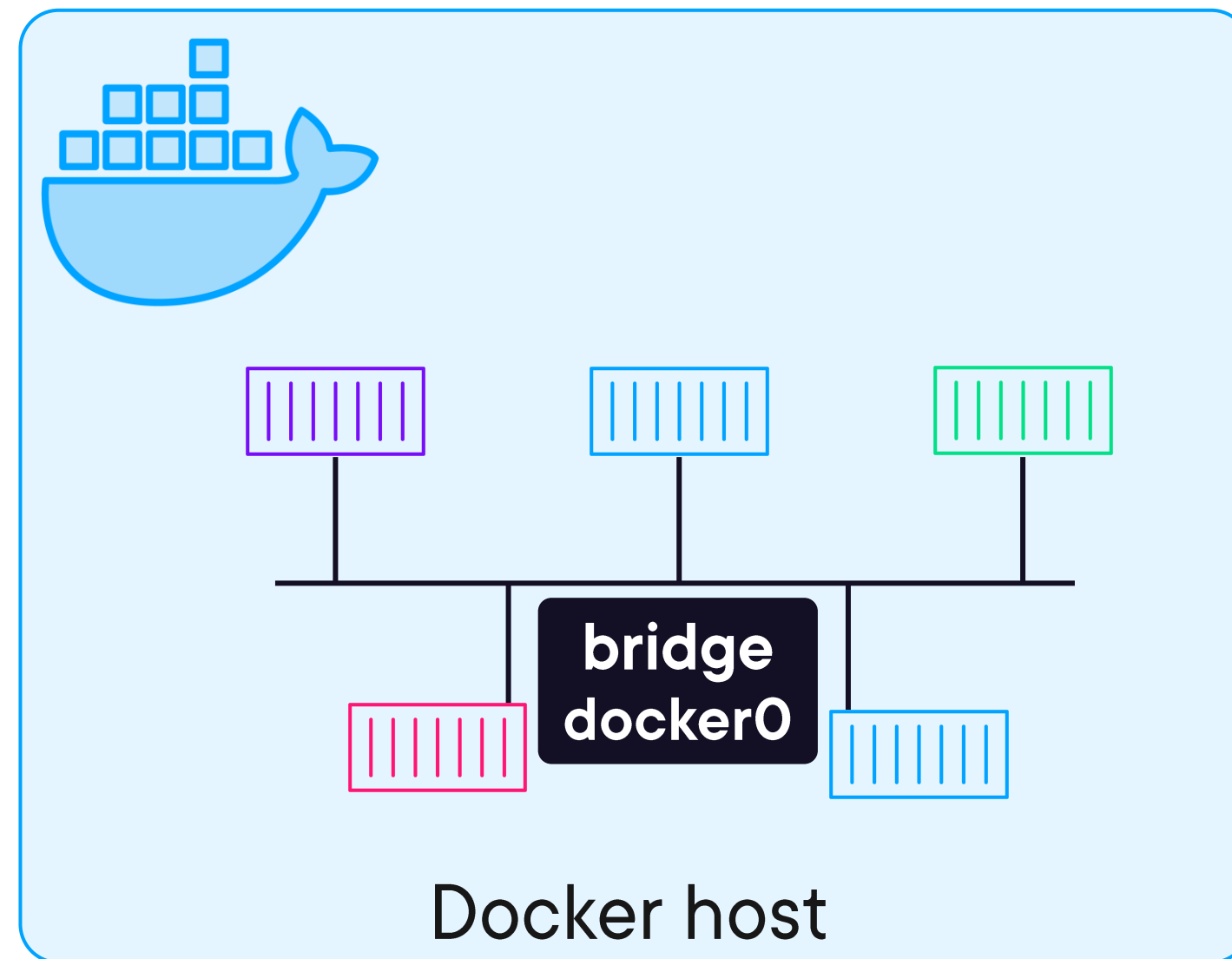


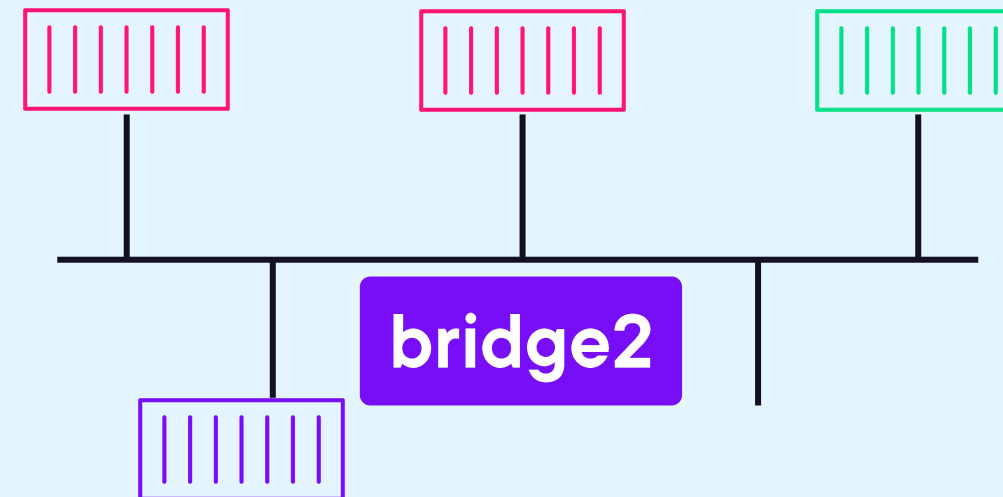
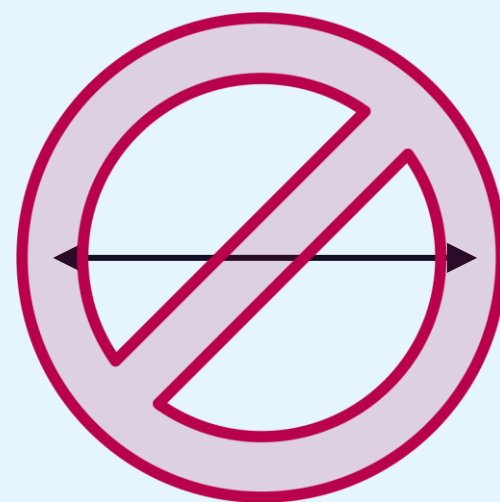
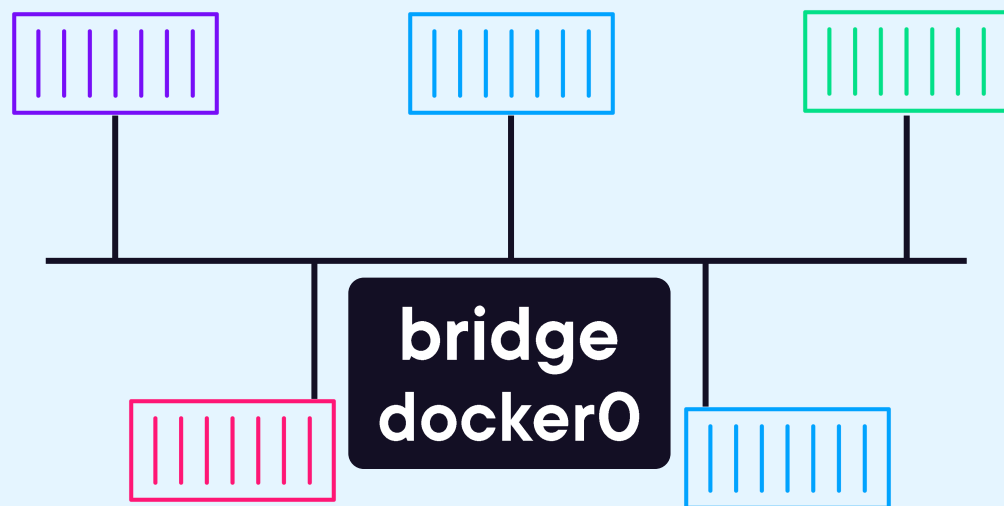
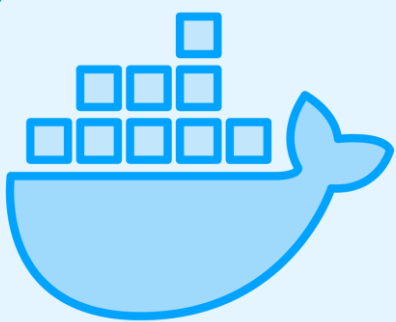








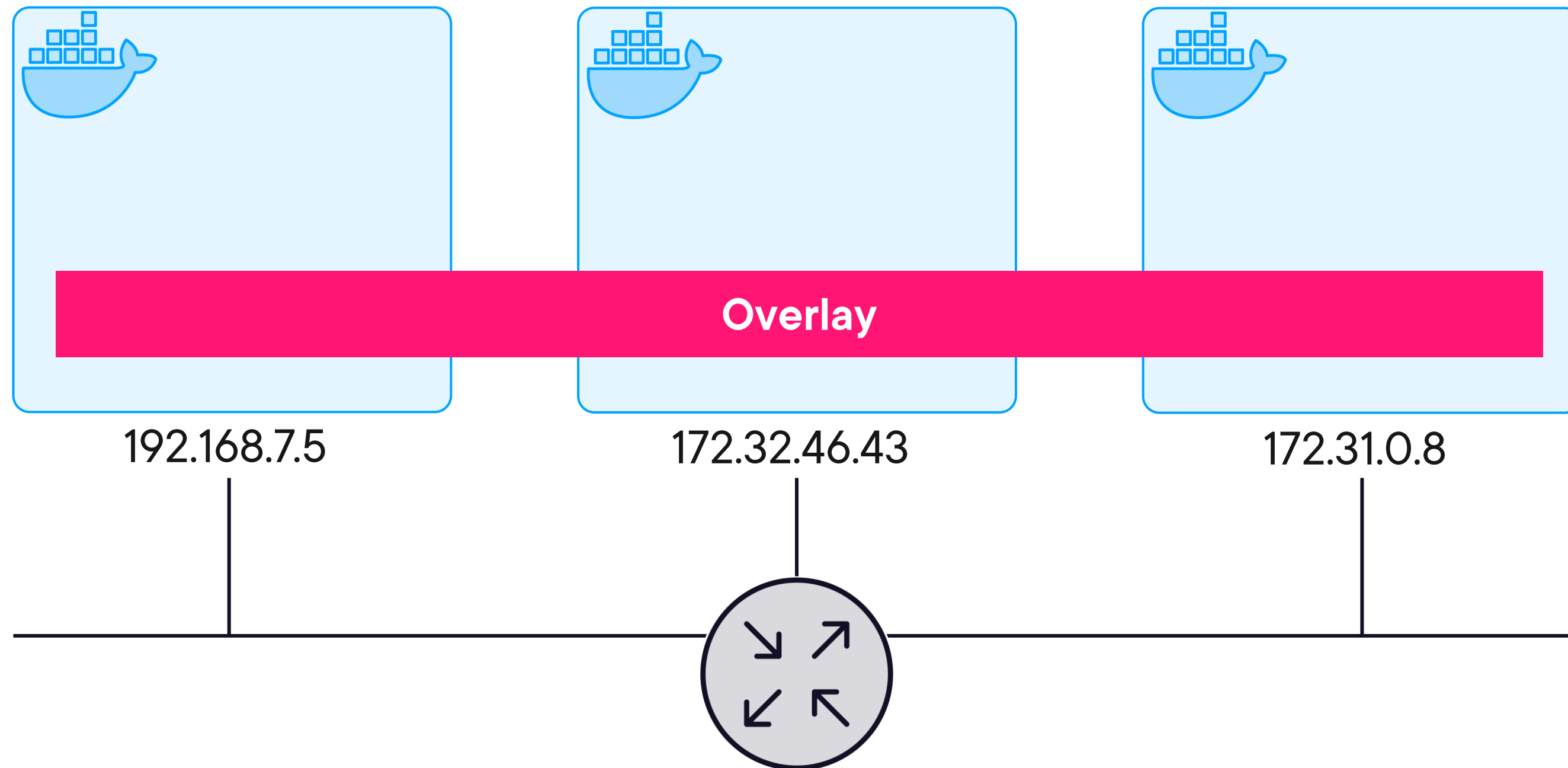




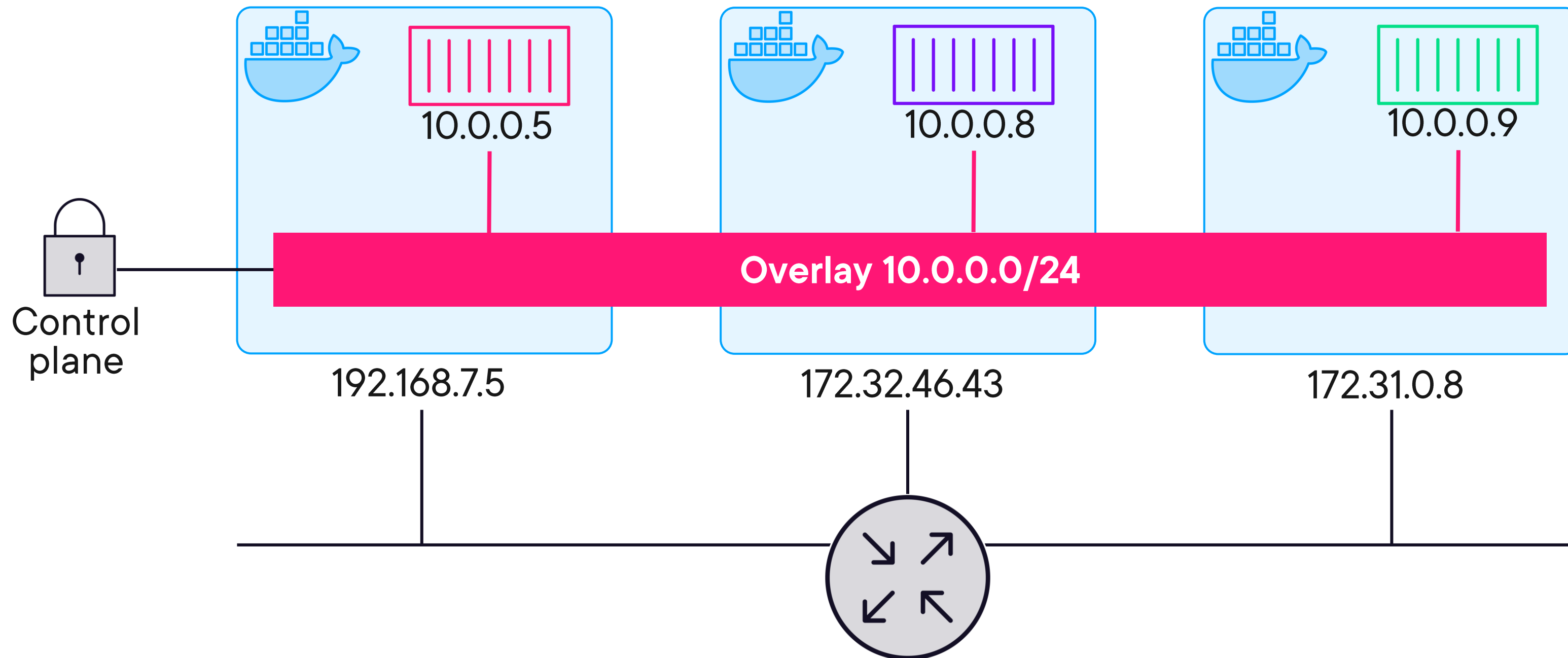
Docker host



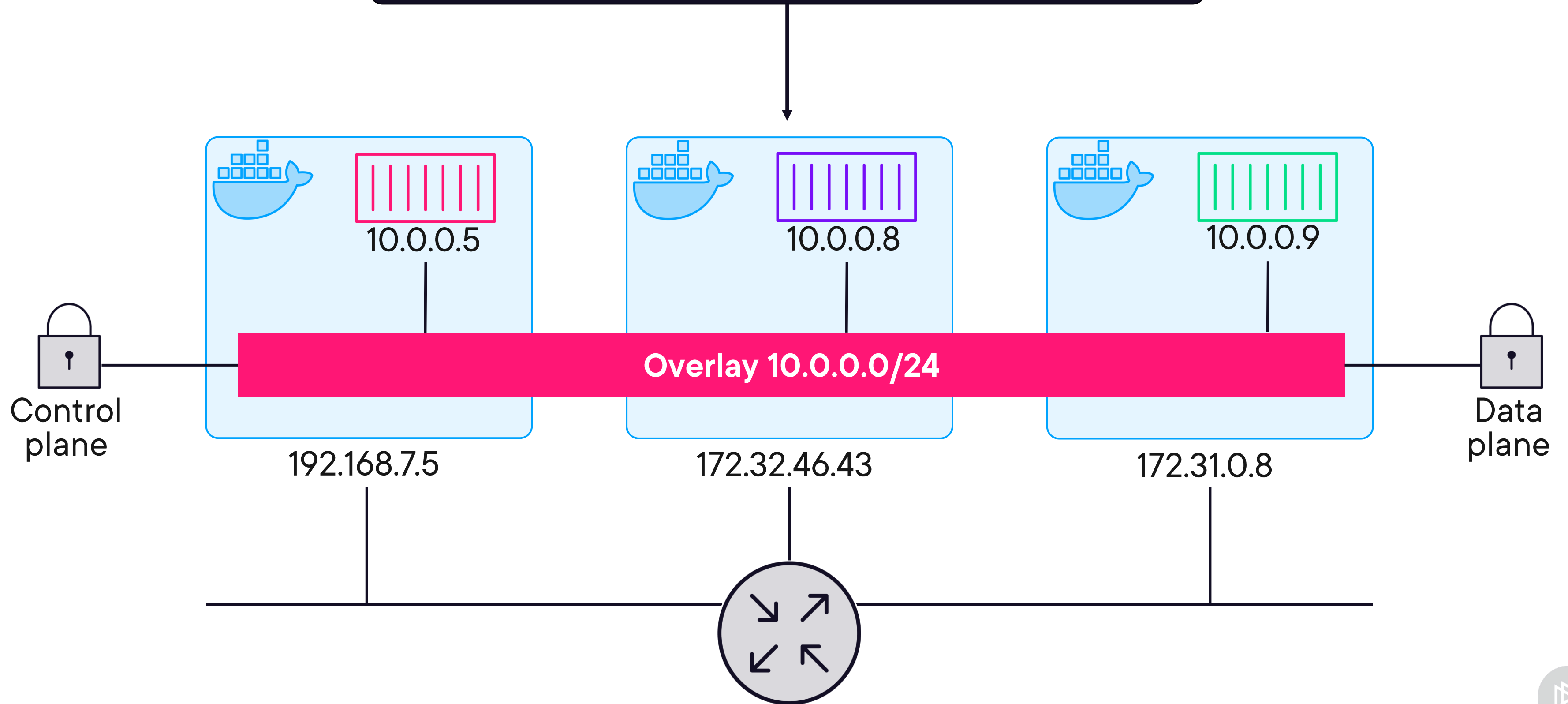
```
$ docker network create -d overlay...
```



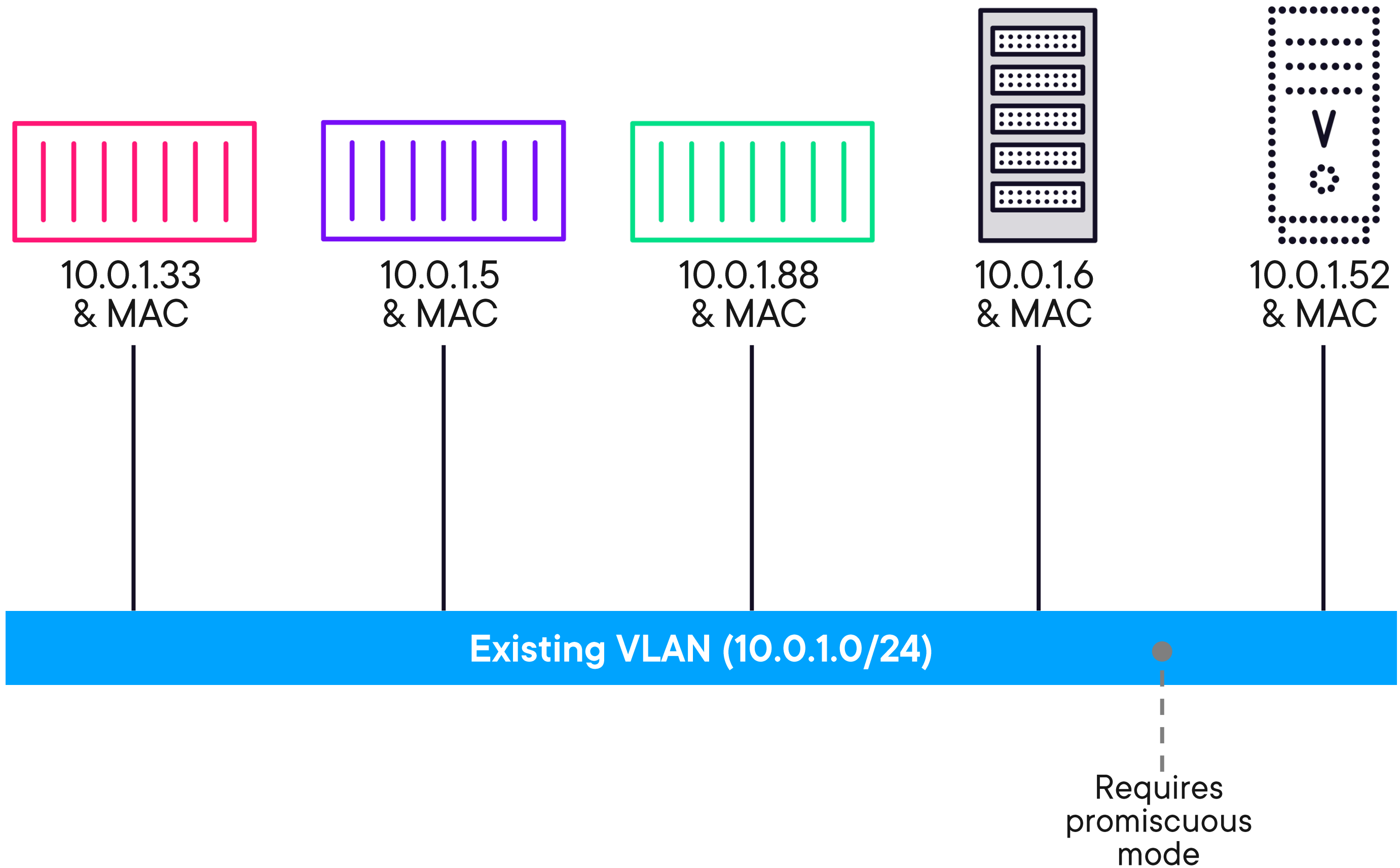
```
$ docker network create -d overlay...
```



```
$ docker network create -d overlay -o encrypted...
```



MACVLAN



Up Next:

Network Services





Network Services



Network Services

Service Discovery

Load Balancing



**Every service
gets a name**

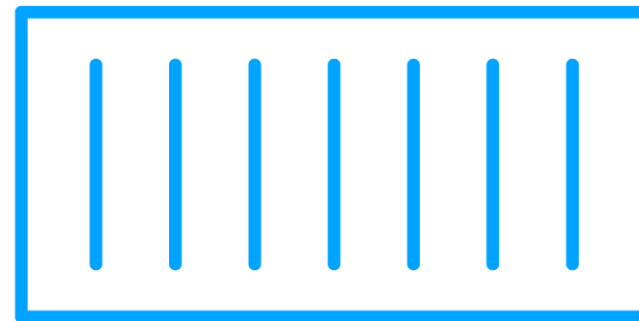


**Names are registered
with DNS**



**Containers use DNS
for service discovery**





Service

Name: web

Replicas: 4

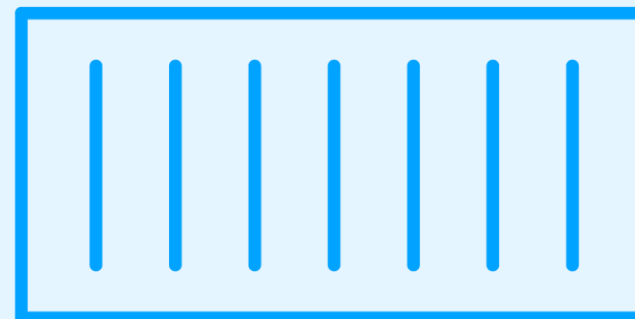
Ver: 1.12

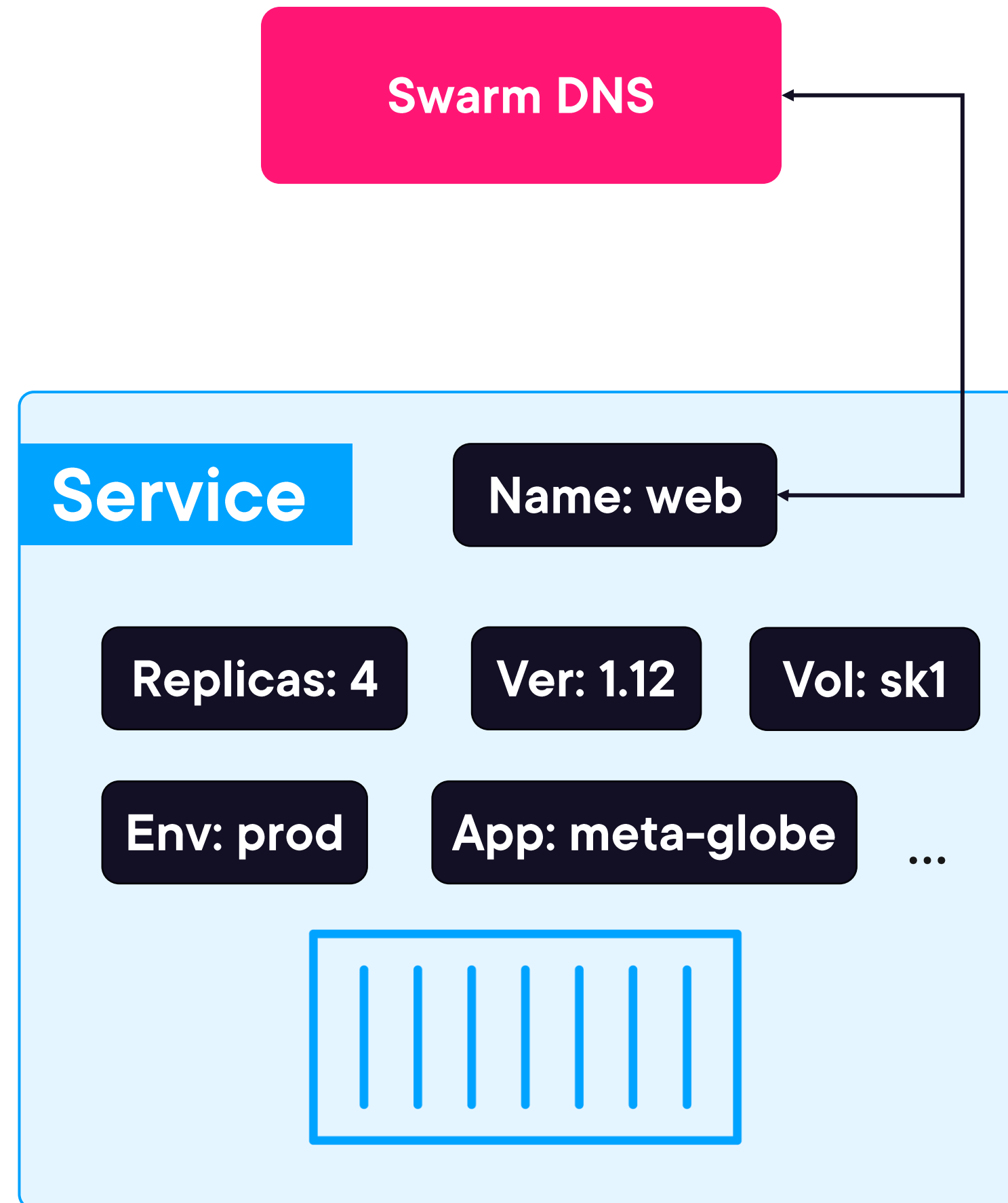
Vol: sk1

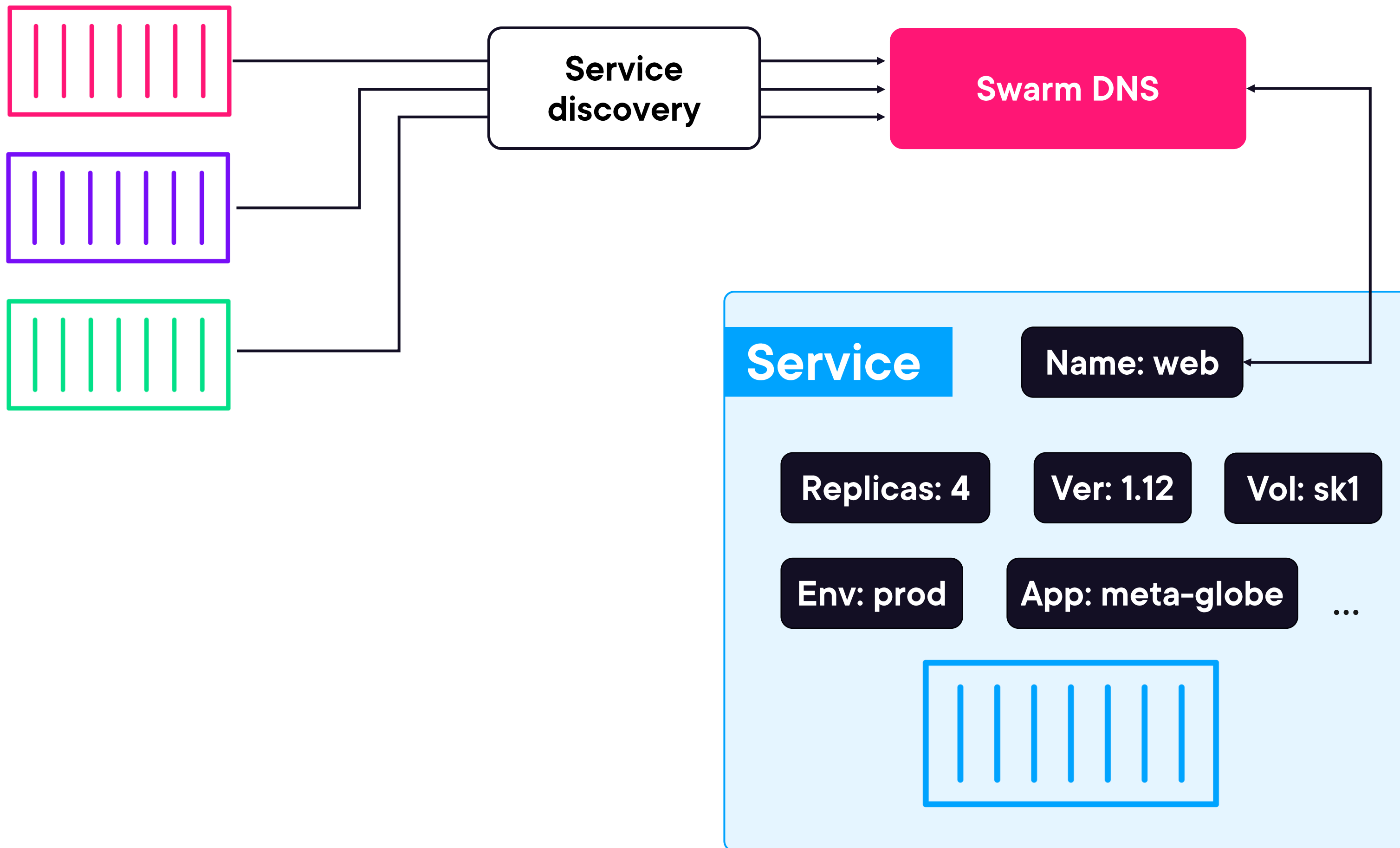
Env: prod

App: meta-globe

...







Up Next:

Recap





Recap



Network Types

Bridge

Single-host

Needs port mappings

Overlay

Multi-host

Container only

MACVLAN

Connect to external

Requires promiscuous



Network Services

Service Discovery

Load Balancing





More Information

Docker Networking

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Up Next:

Volumes and Persistent Data

