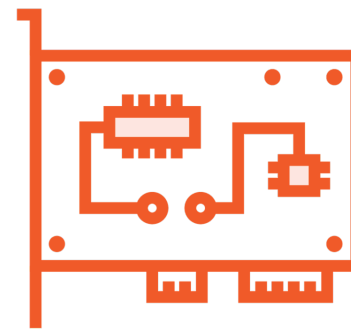
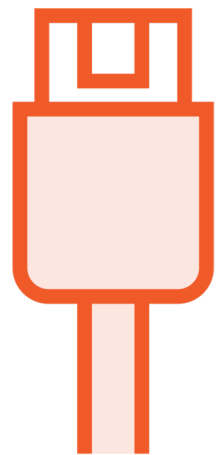


The Role of Container Networks



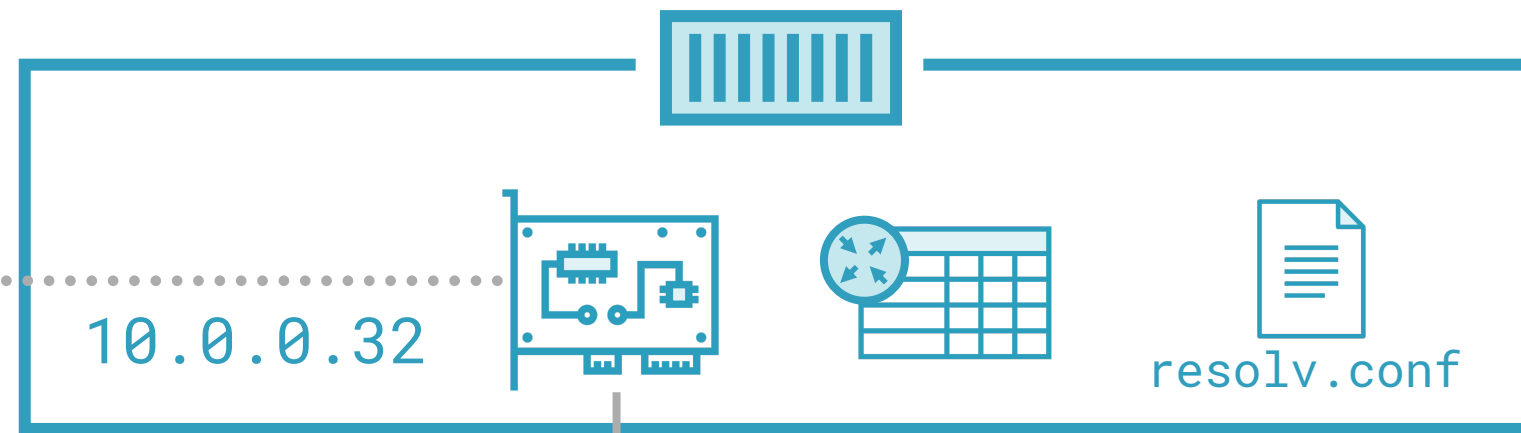
Container Networks...

...built from standard networking components.

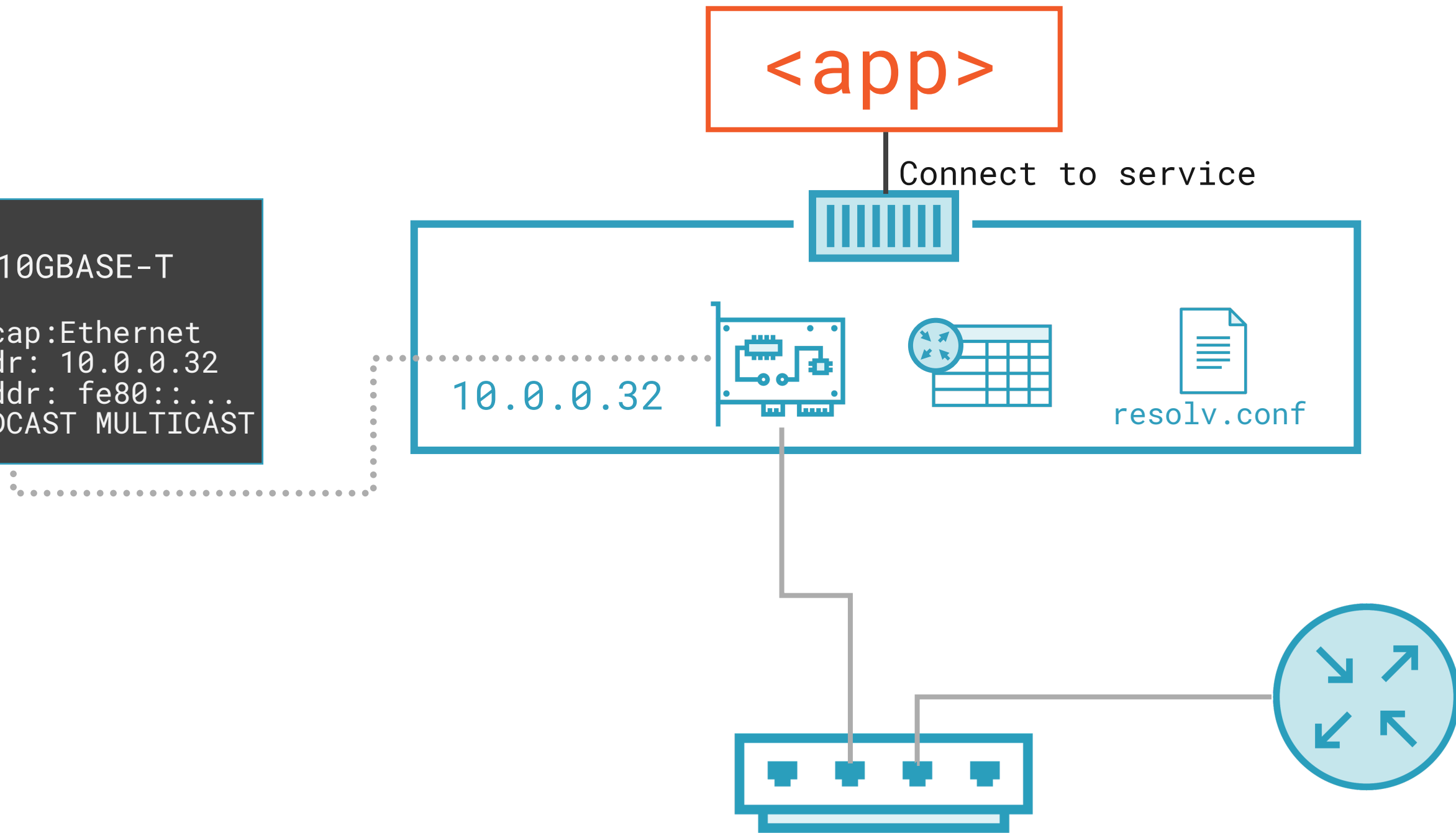


<app>

```
IEEE 802.3-x  
10/100/1000/10GBASE-T  
CSMA/CD  
eth0: Link encap:Ethernet  
      inet addr: 10.0.0.32  
      inet6 addr: fe80::...  
      UP BROADCAST MULTICAST
```



```
IEEE 802.3-x
10/100/1000/10GBASE-T
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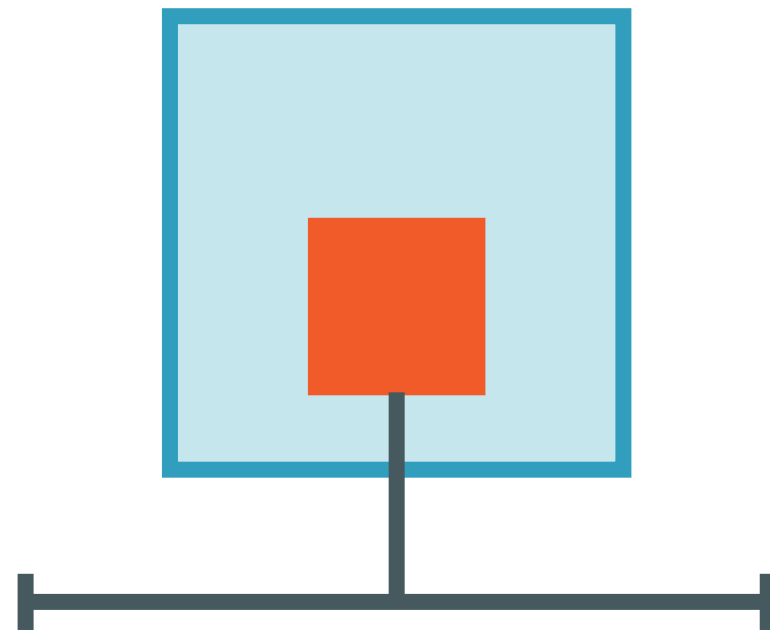
Up Next:

Container Network Model and Architecture

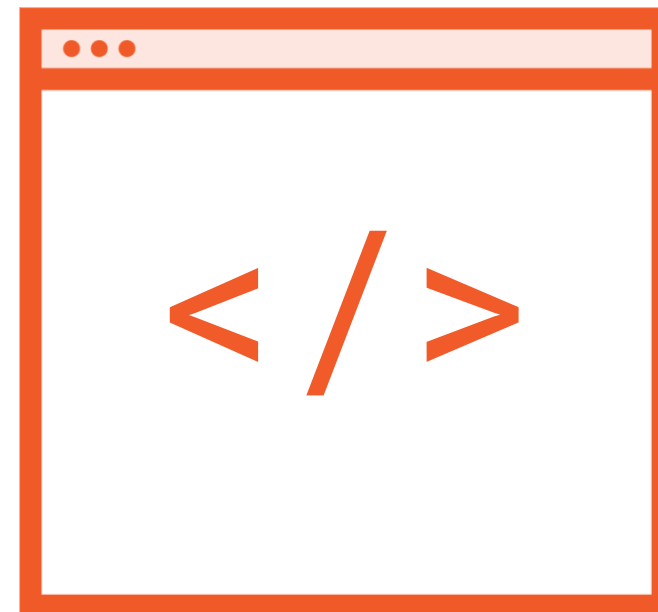


Container Network Model and Architecture





CNM
Design spec



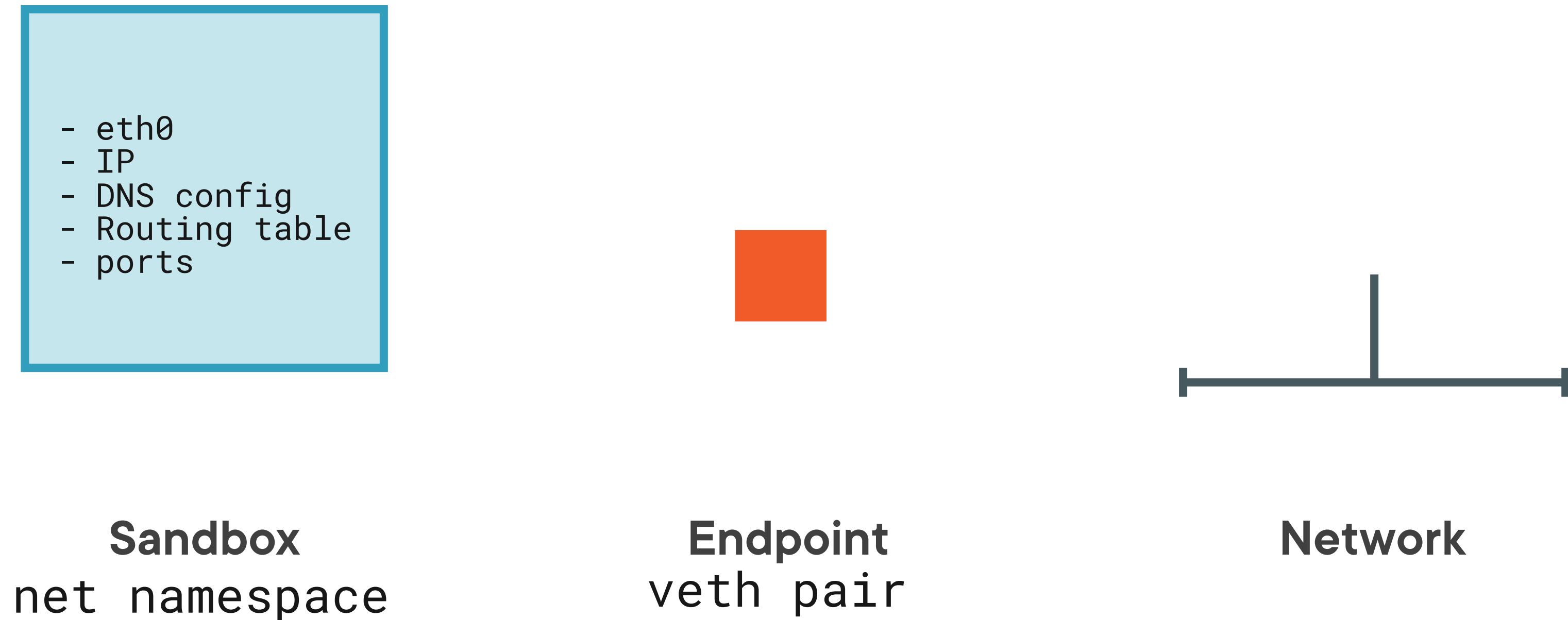
Libnetwork
Implementation

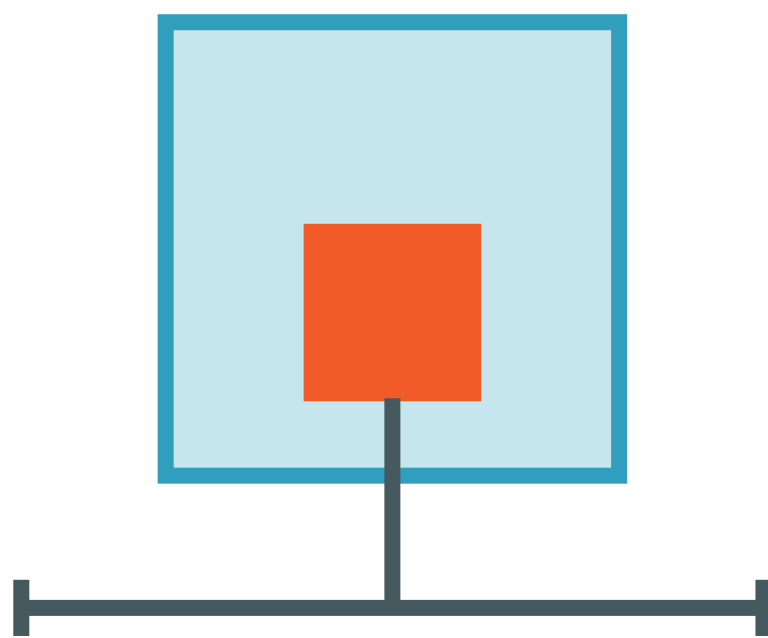


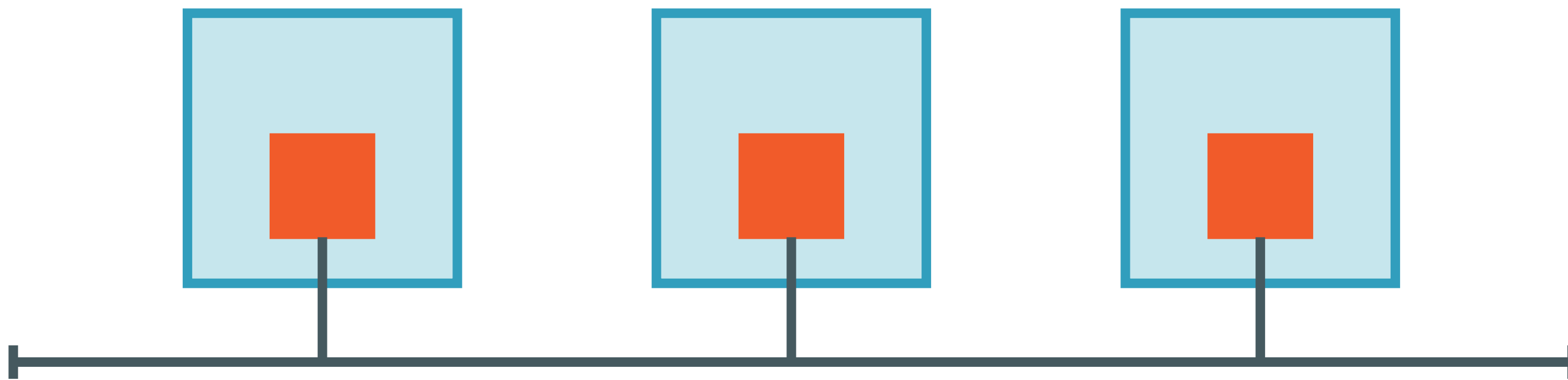
Plugin drivers
Network topology

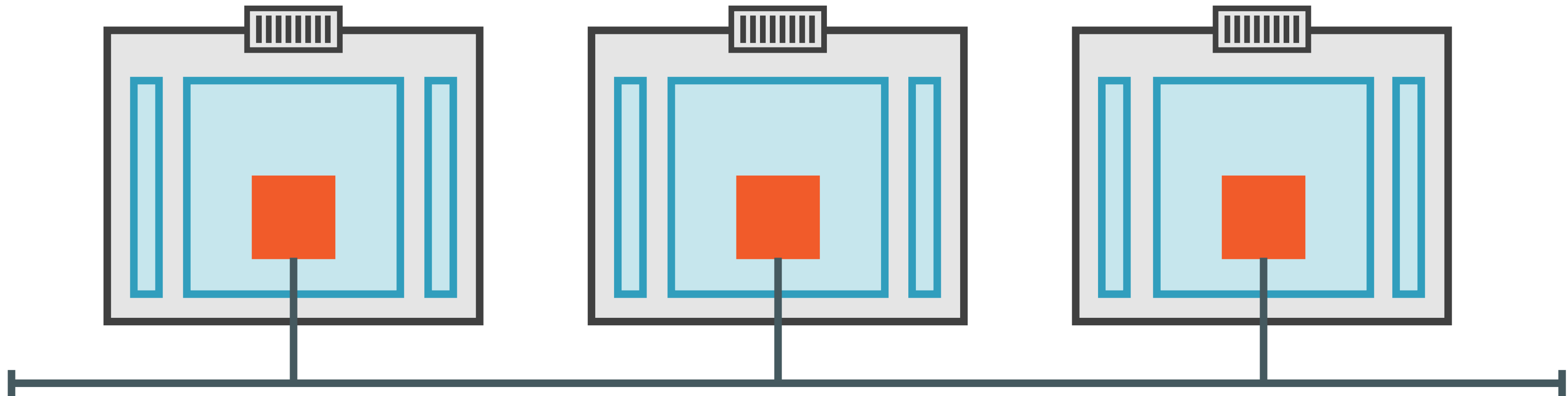


Container Network Model (CNM)








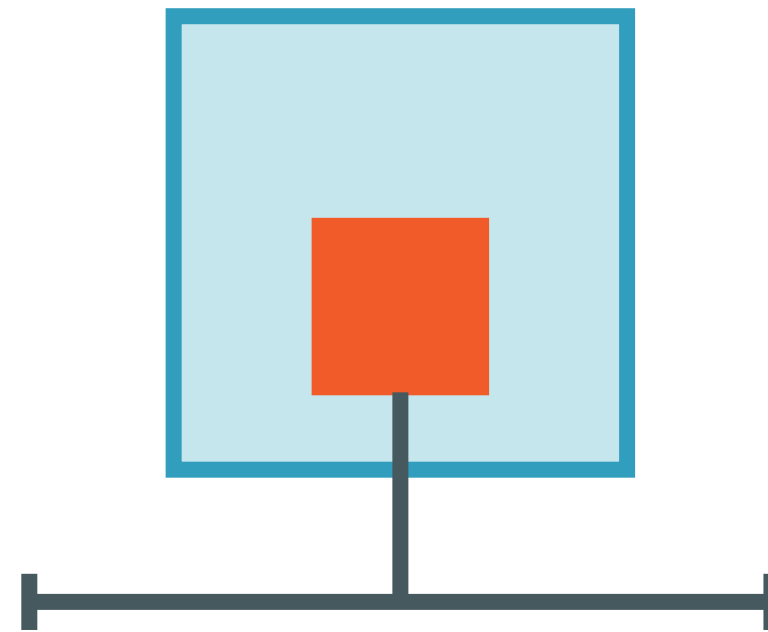


 Container (collection of namespaces)


 Namespace



Container Network Model (CNM)

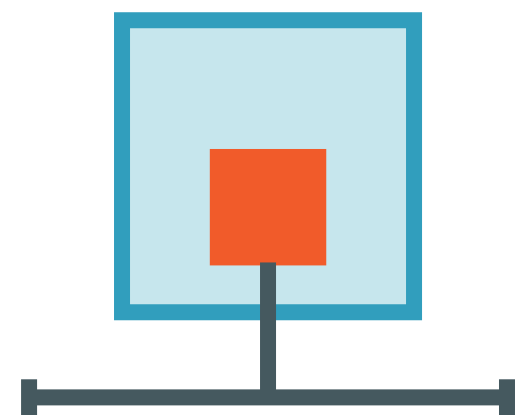


 Sandbox (network namespace)

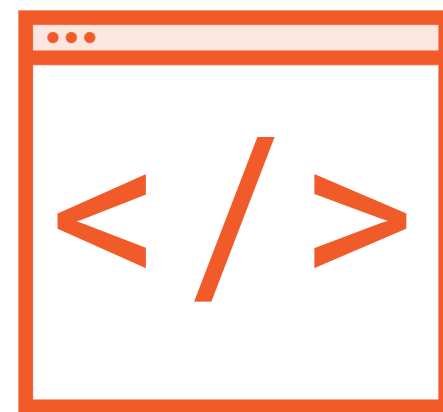
 Endpoint (Ethernet interface)

 Network (collection of sandbox/endpoints)

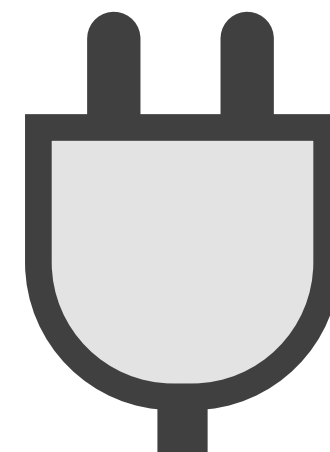




CNM
Design spec

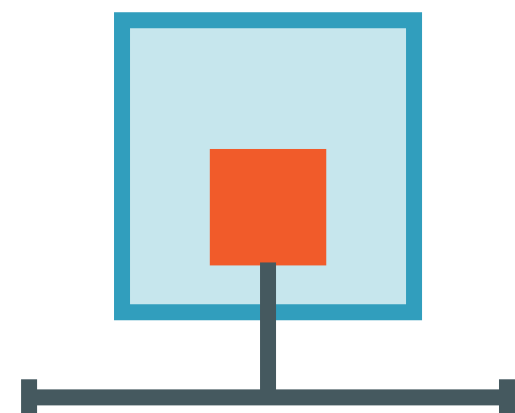


Libnetwork
Implements CNM



Plugins
Network topology

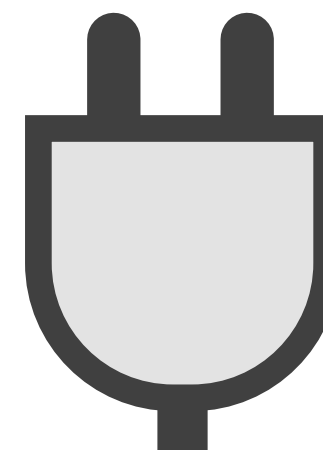




CNM
Design spec

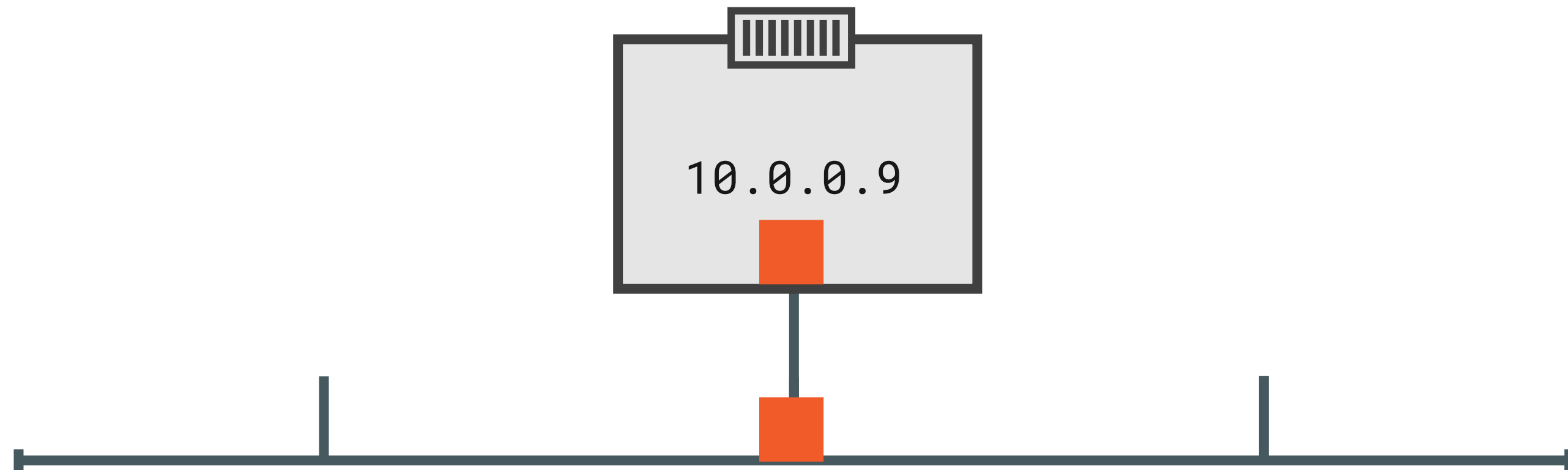


Libnetwork
Implements CNM



Plugins
Network topology





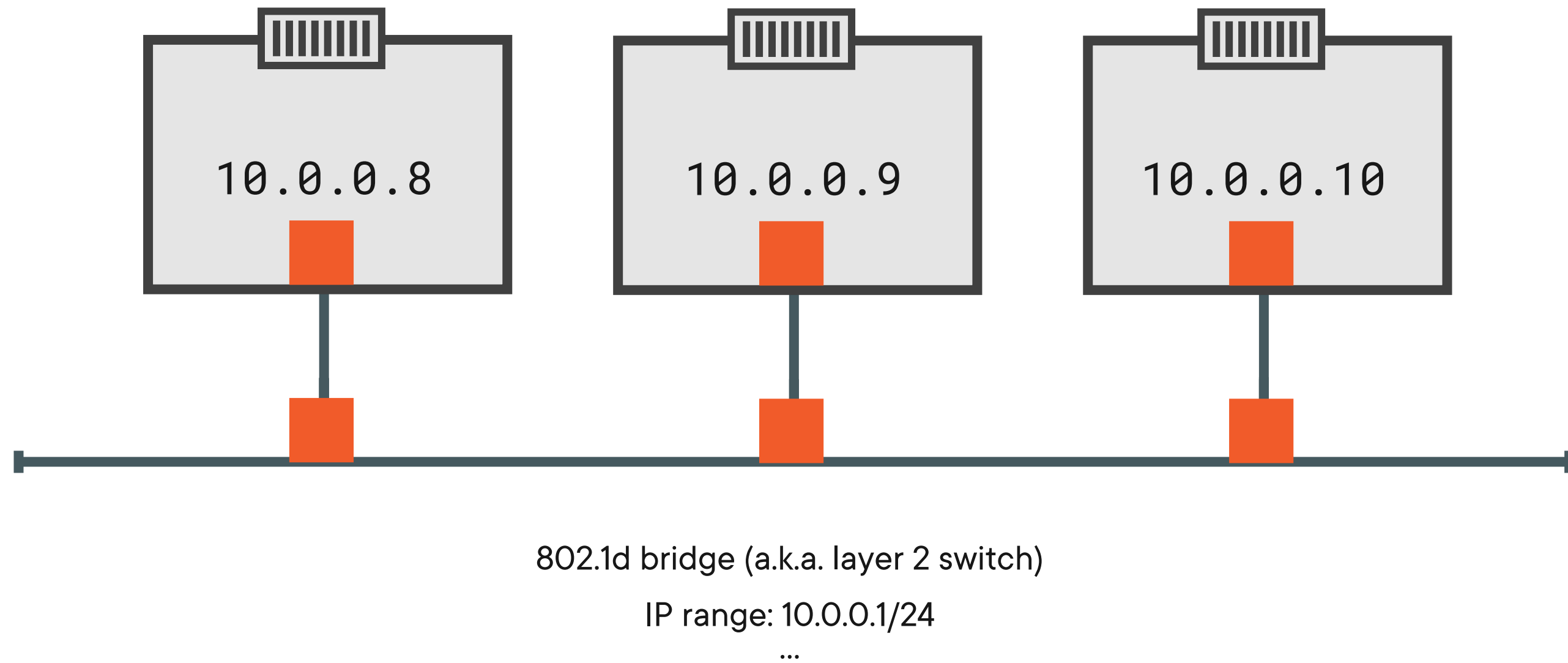
802.1d bridge (a.k.a. layer 2 switch)

IP range: 10.0.0.1/24

...

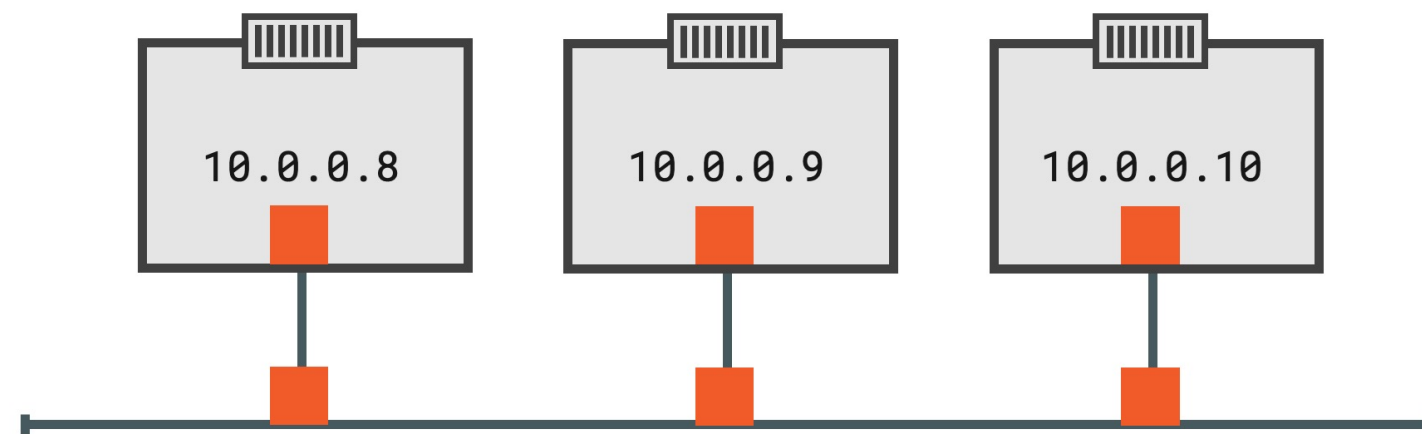
■ ■ veth port pair





■ ■ veth port pair

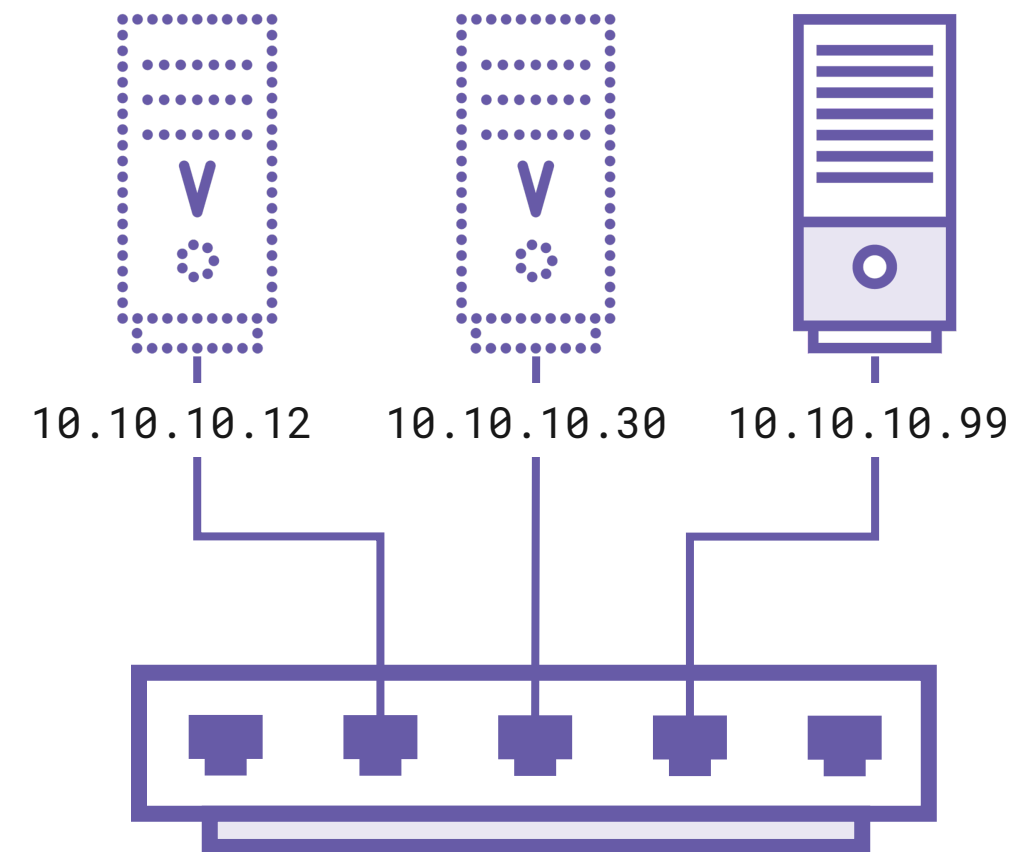




802.1d bridge (a.k.a. layer 2 switch)

IP range: 10.0.0.0/24

...



802.1d bridge (a.k.a. layer 2 switch)

IP range: 10.10.10.0/24

...

