

# Working with Containers



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# Overview/ Summary



**Containers: Big Picture**

**Containers: Hands-on Deep Dive**

**Managing Containers with Docker Desktop**

**Recap**



**Up Next:**

# **Containers: Big Picture**

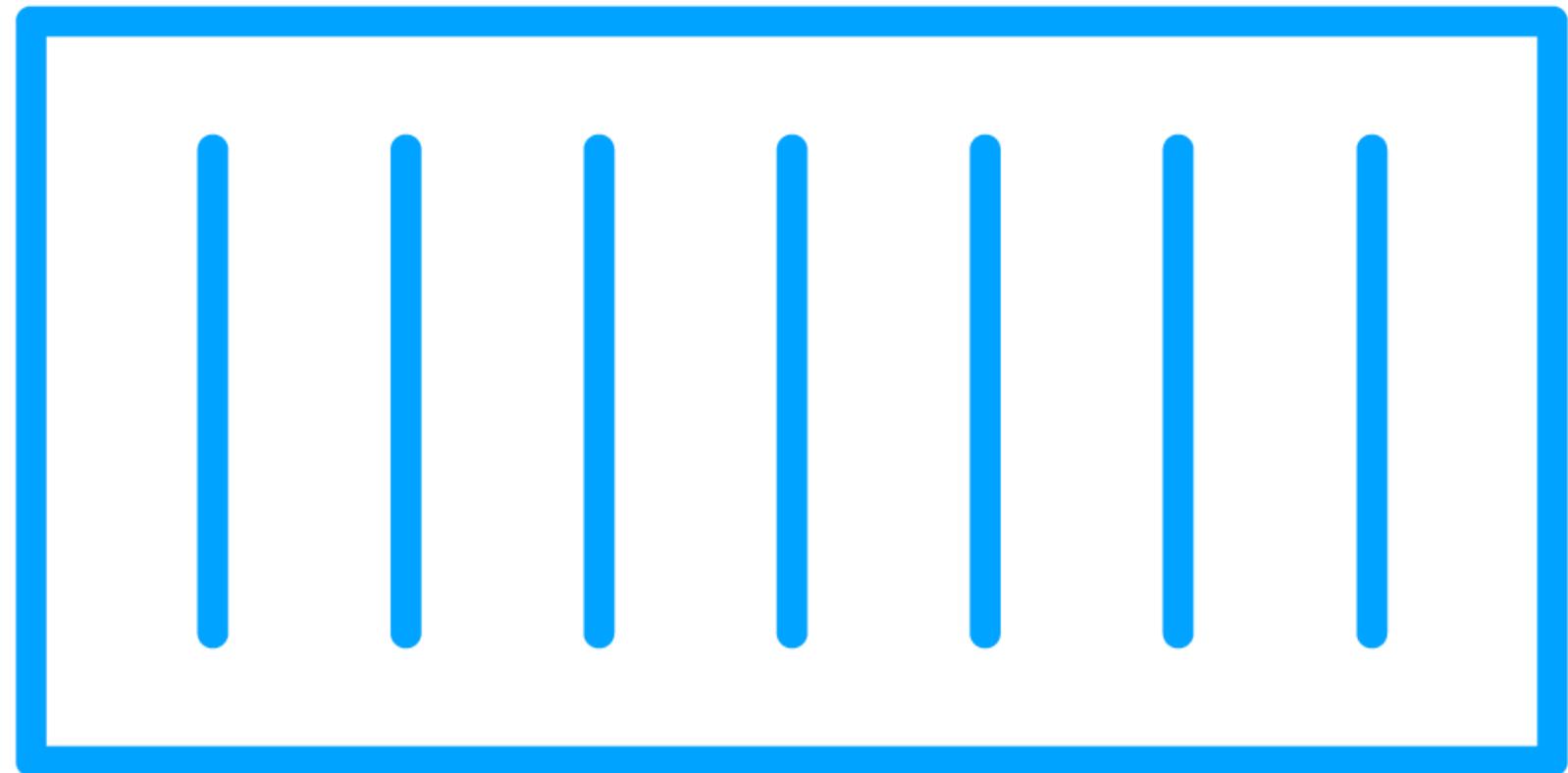
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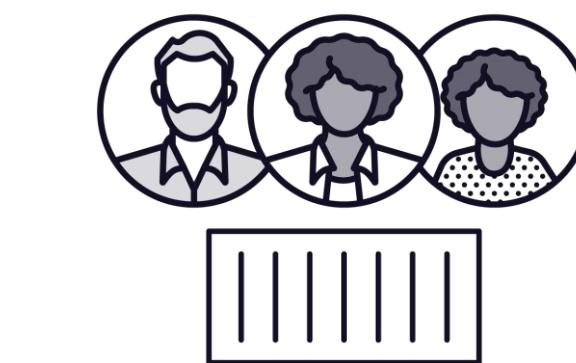
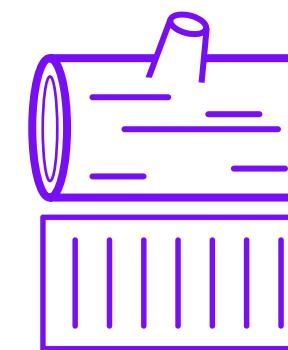
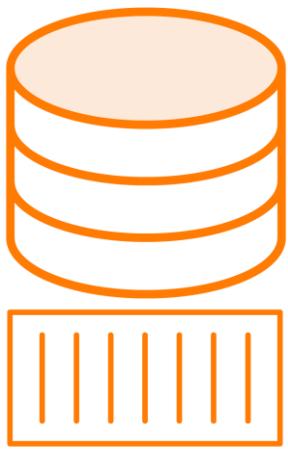
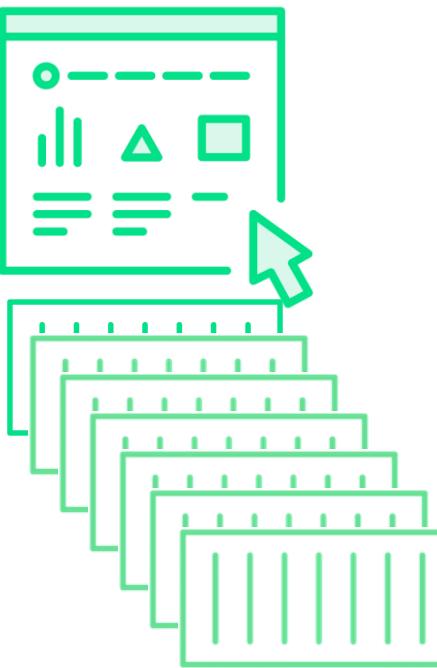
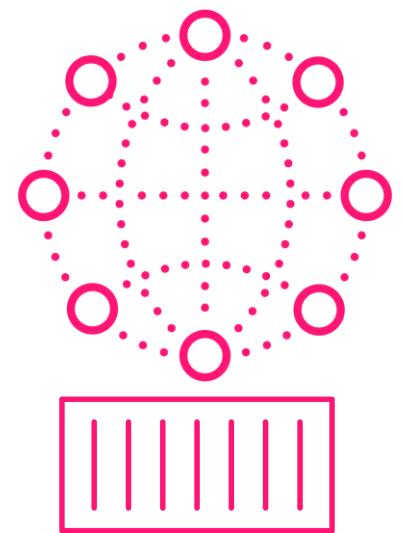
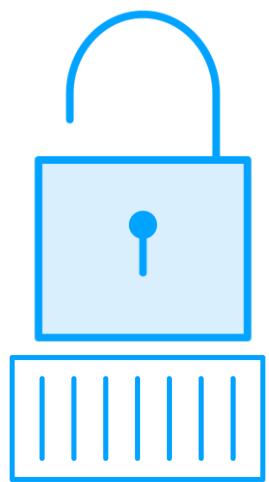
# Containers: Big Picture





Atomic unit of scheduling



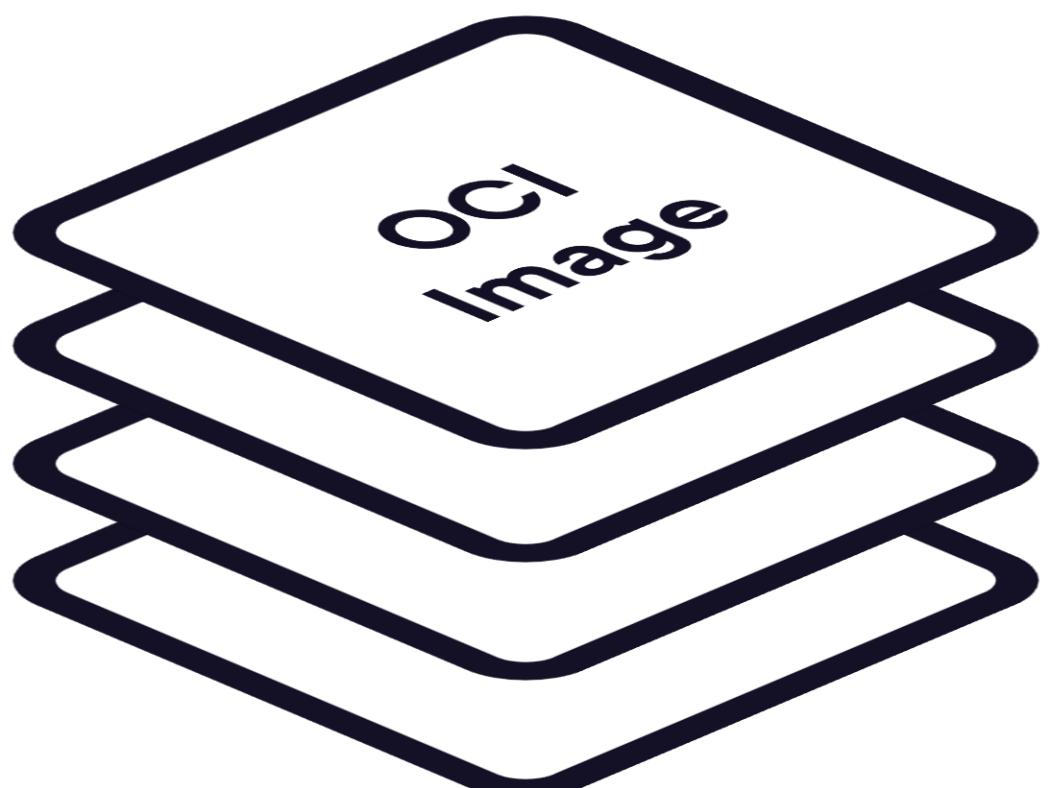




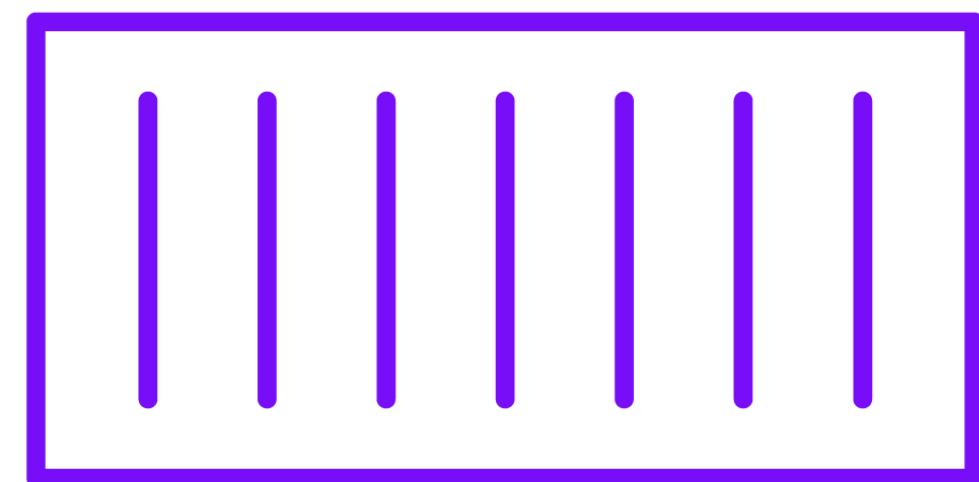
**Build time**

**Runtime**

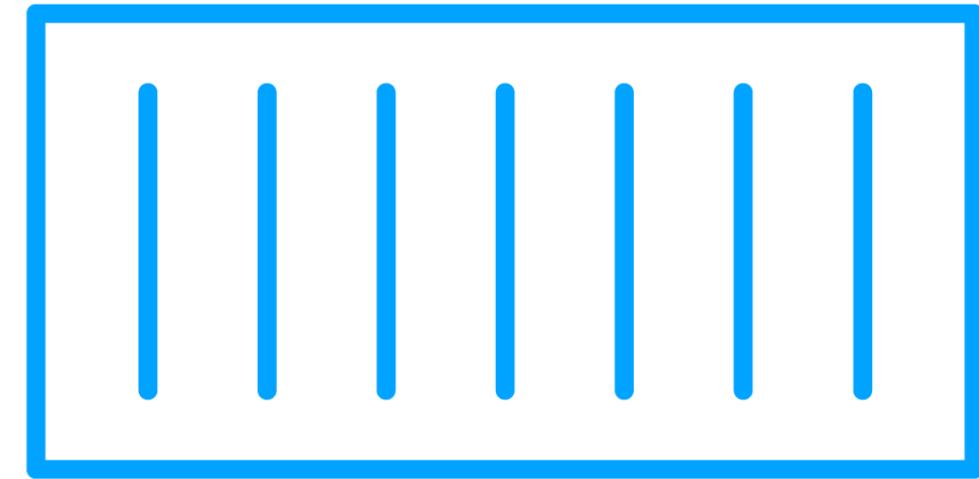


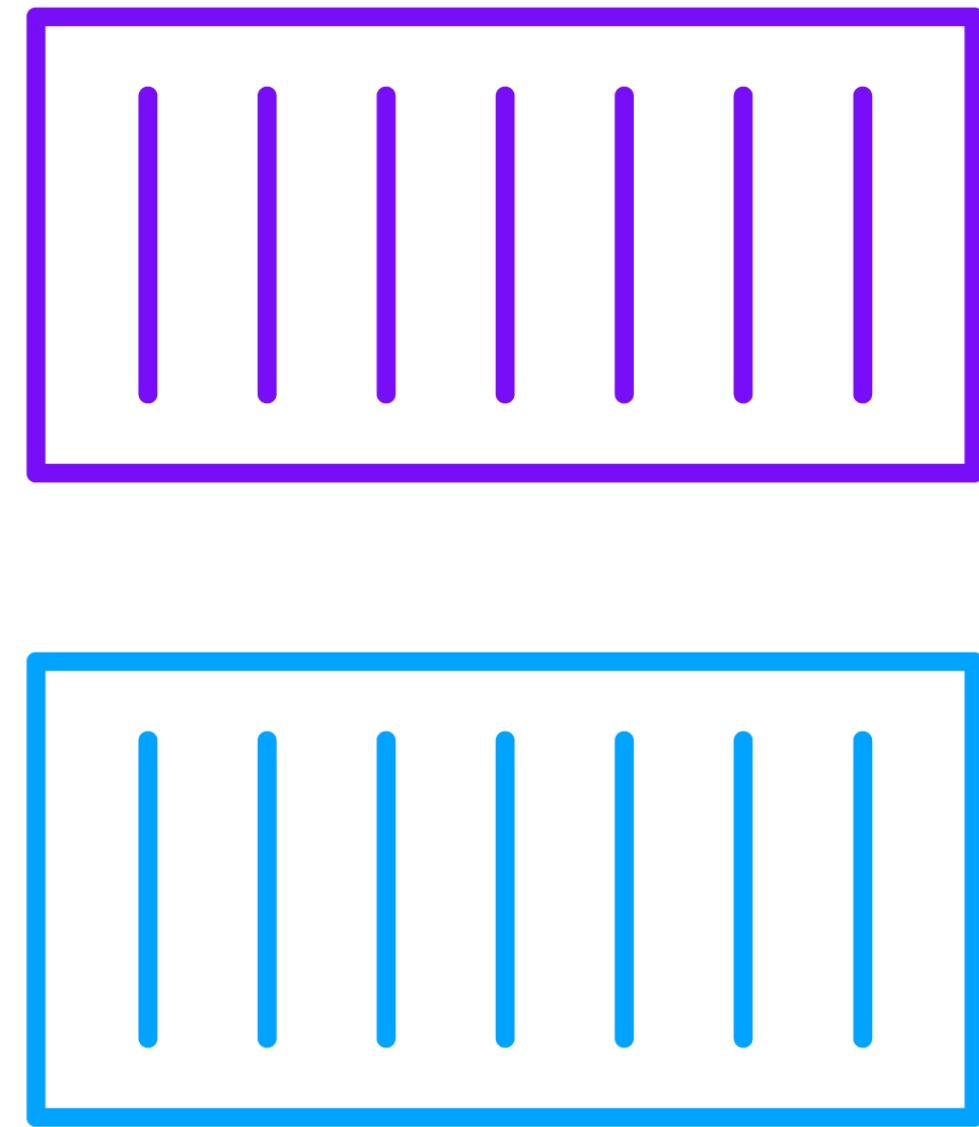
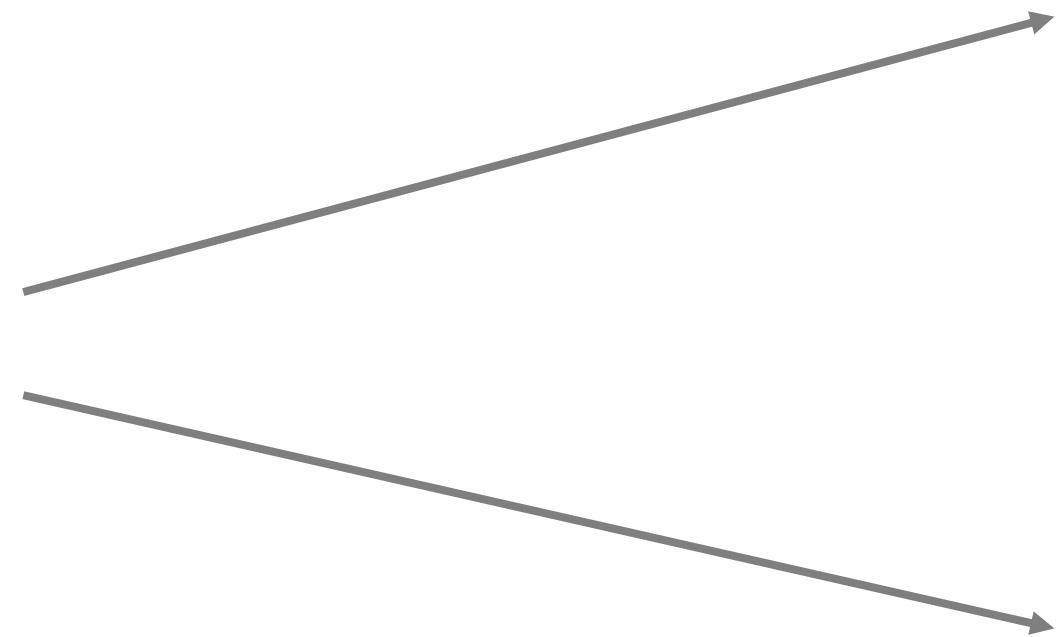
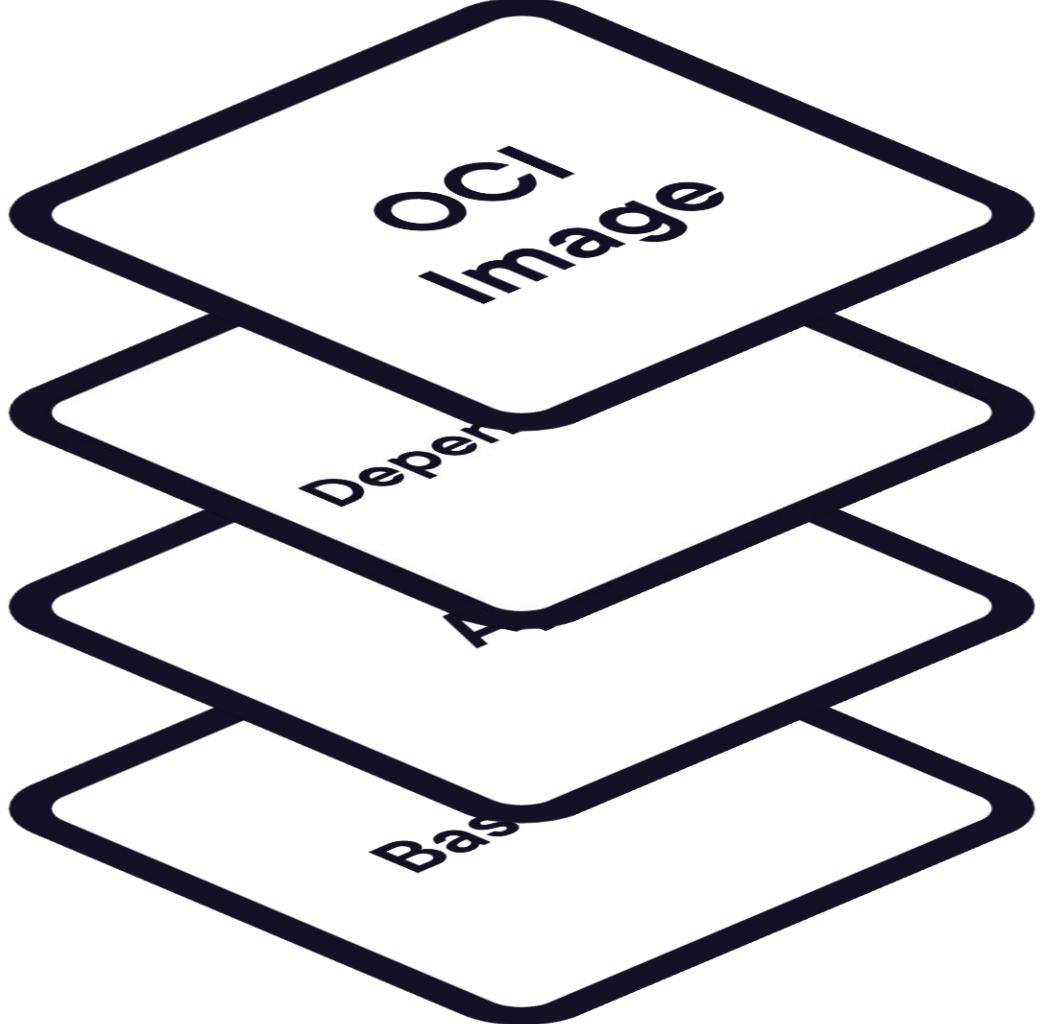


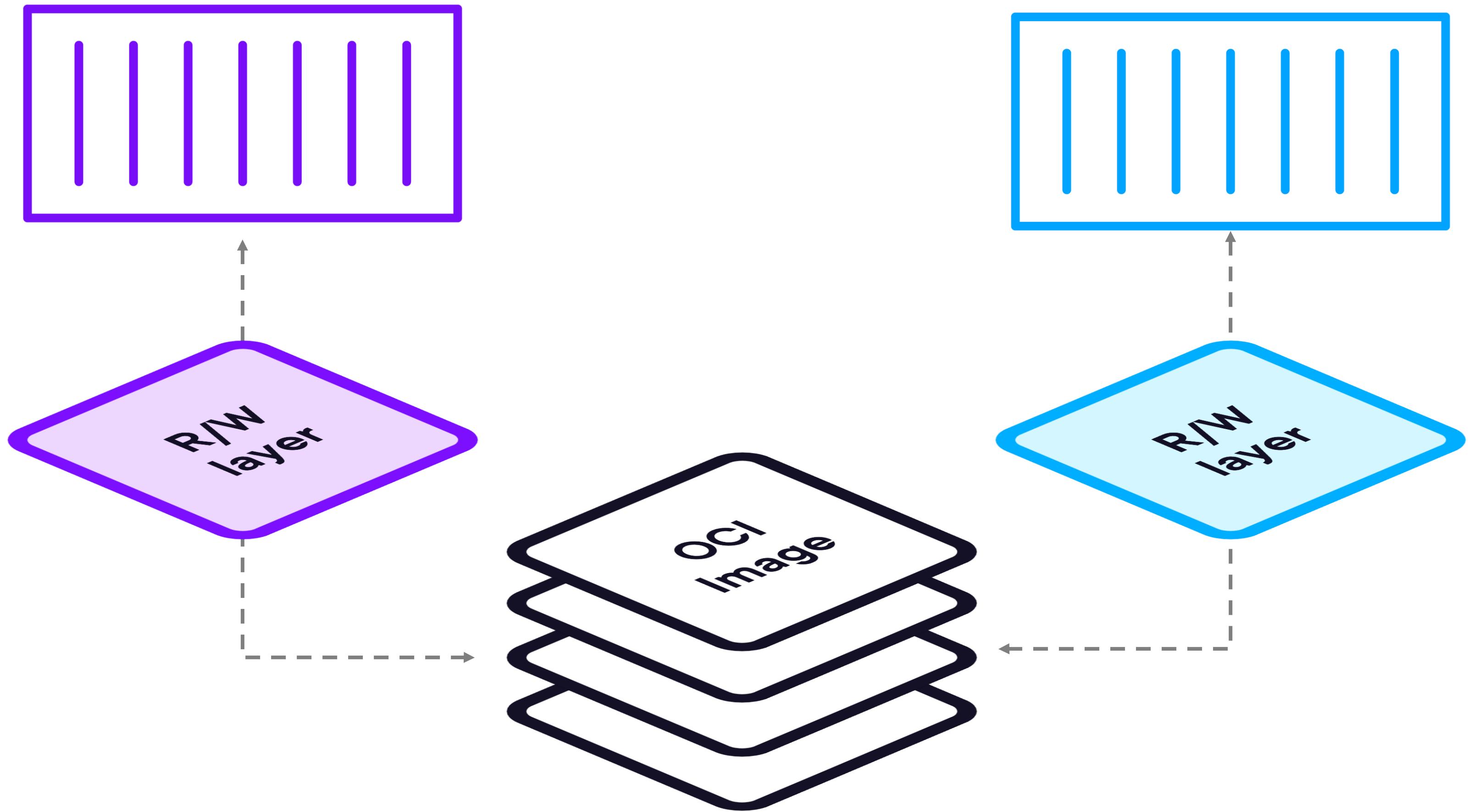
**Build time**

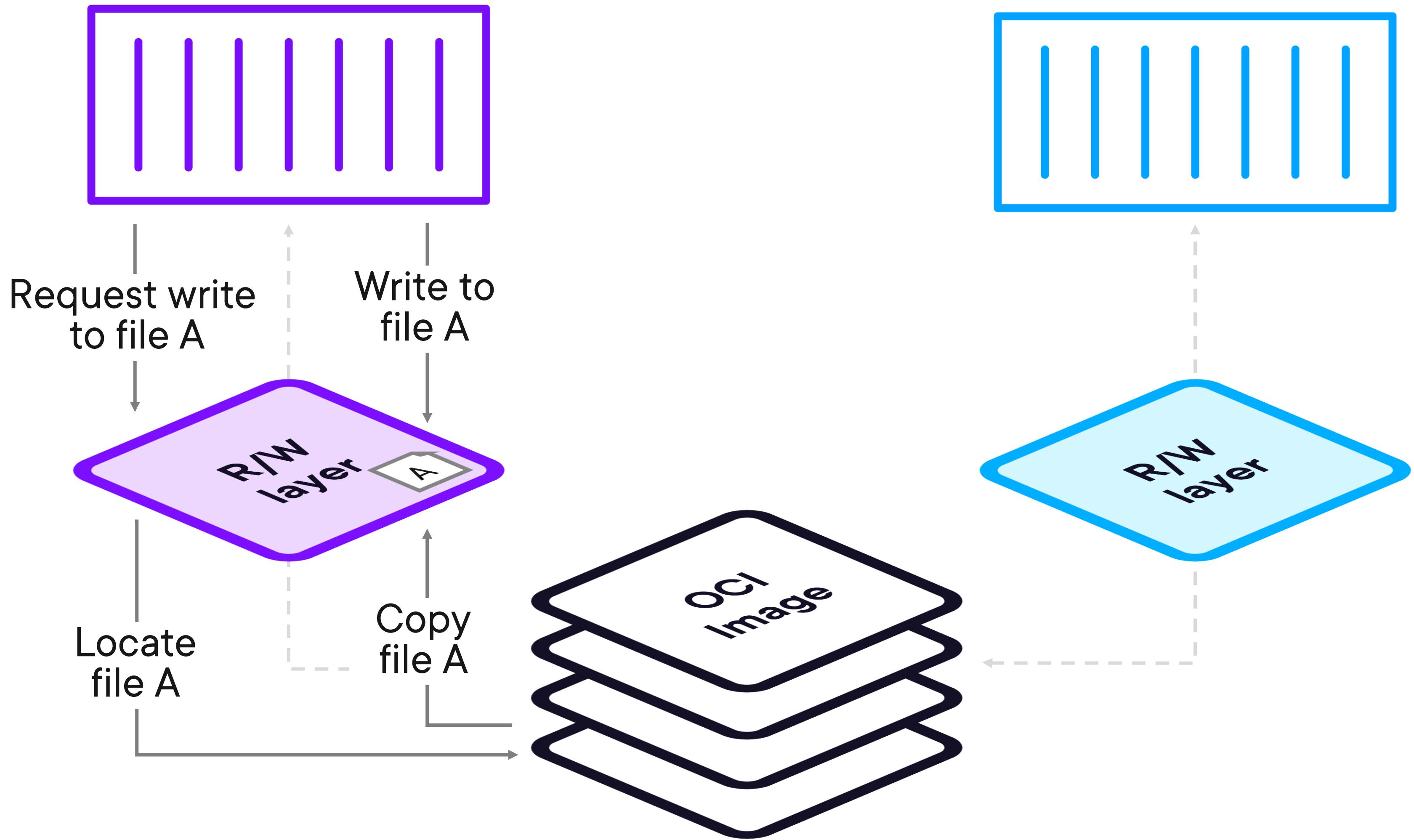


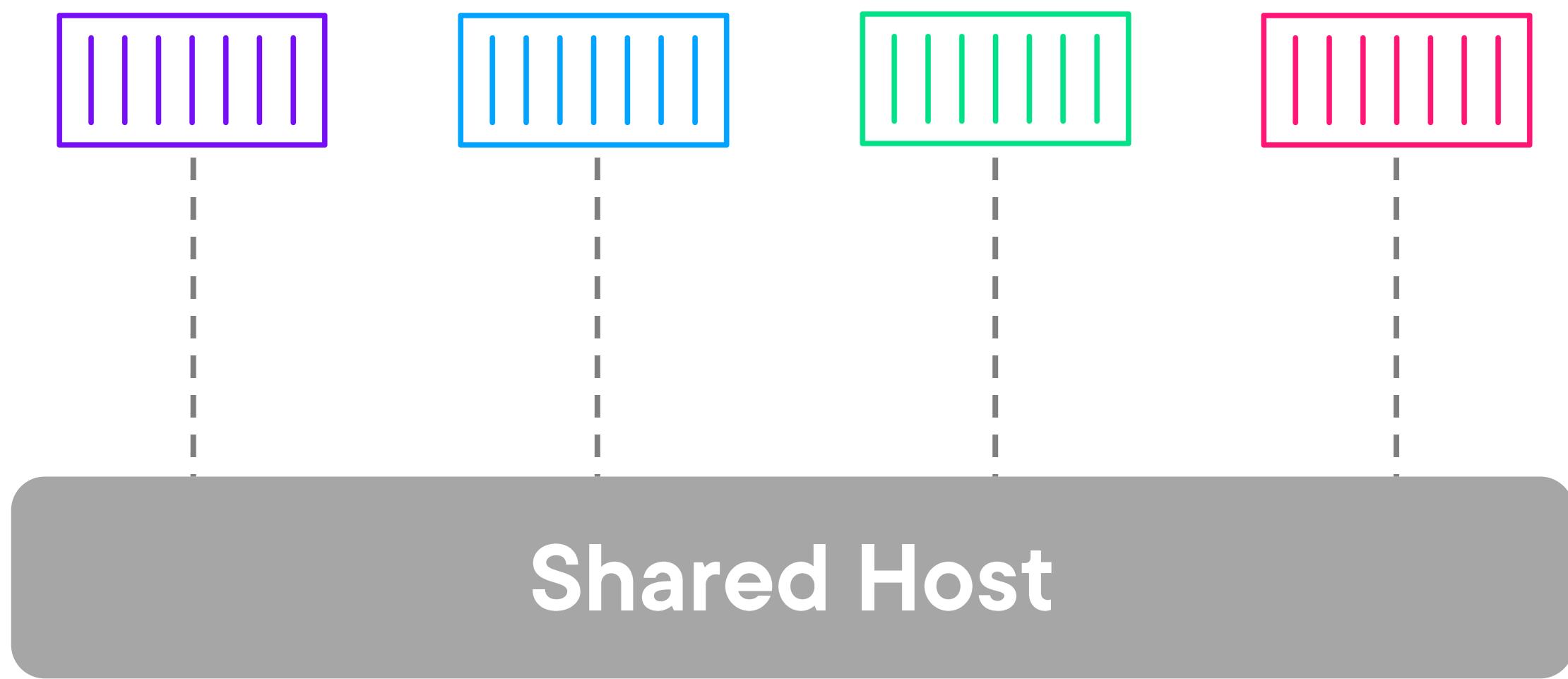
**Runtime**

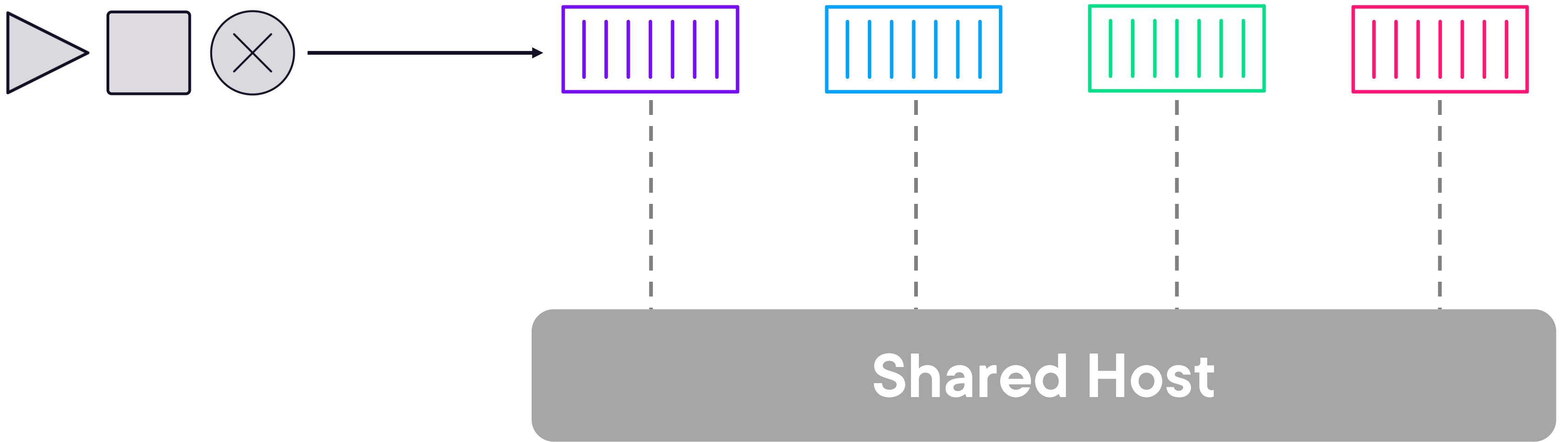


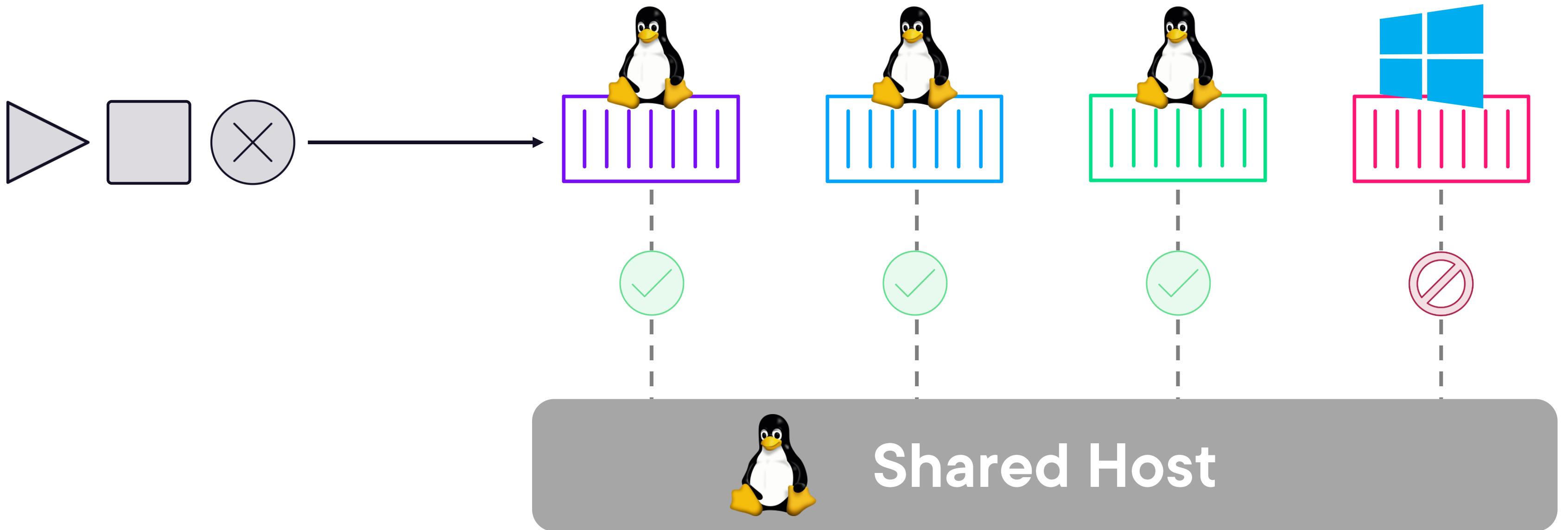


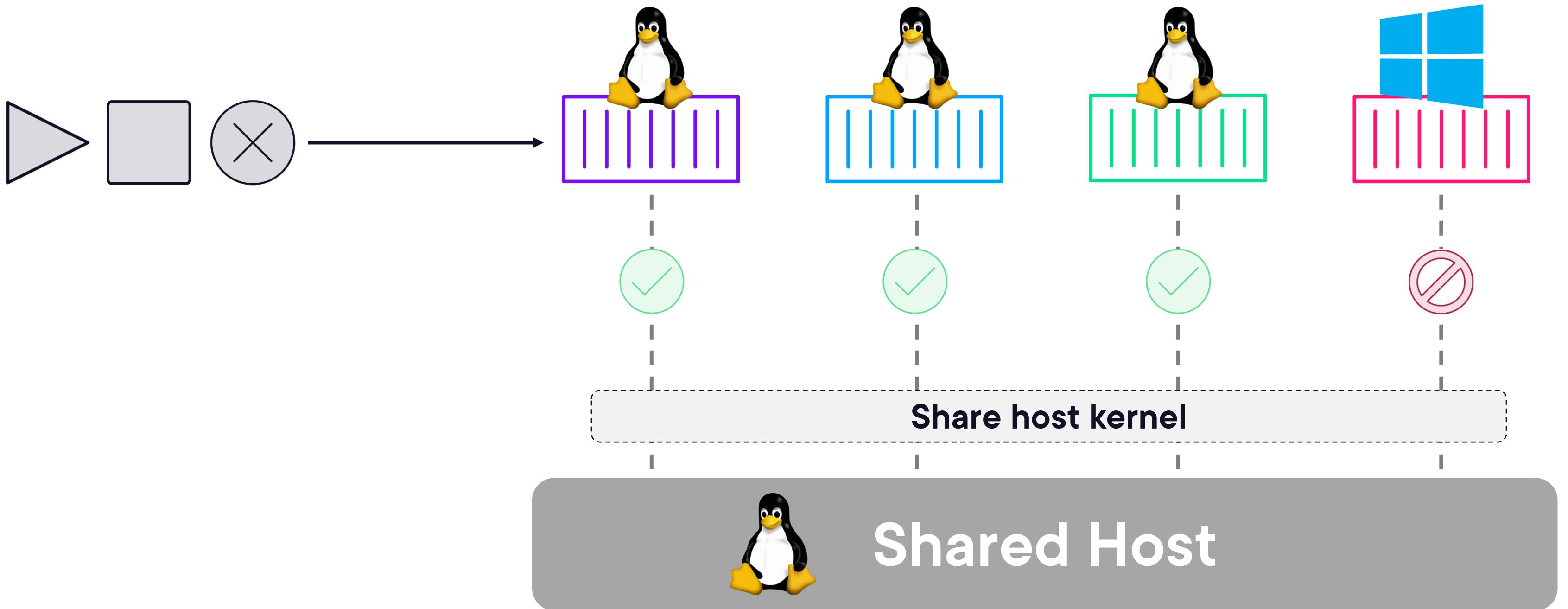


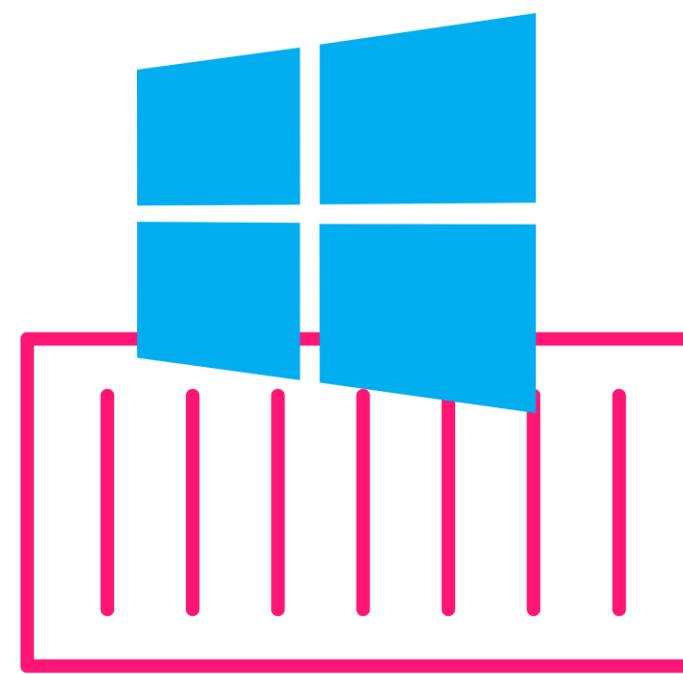
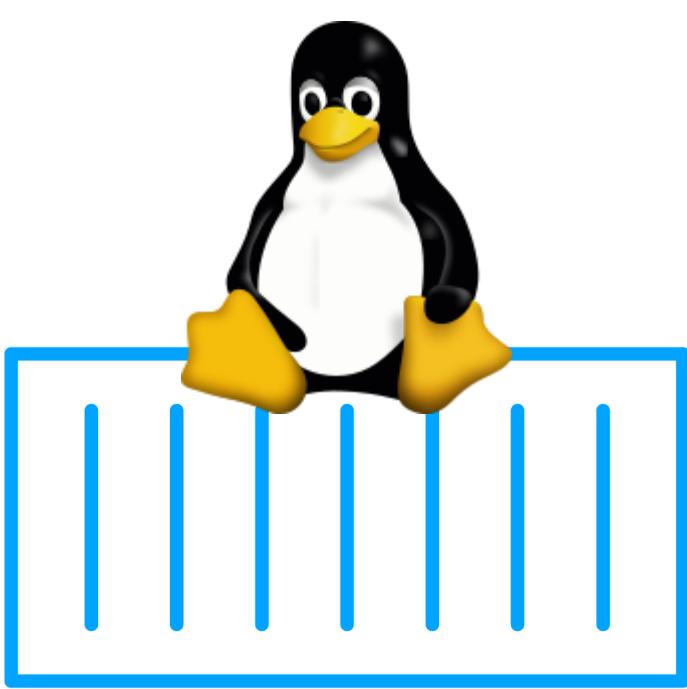








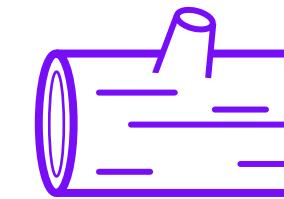
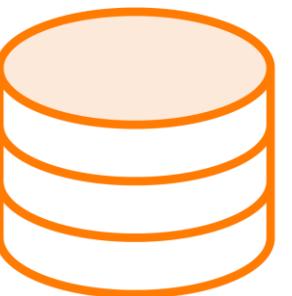
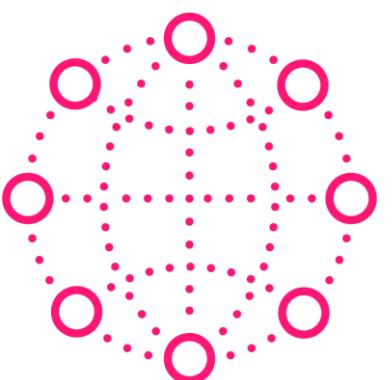
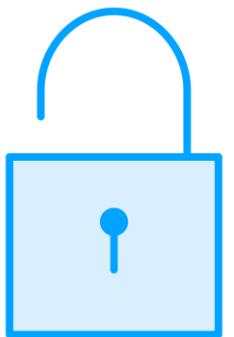


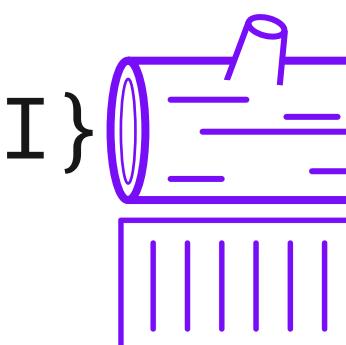
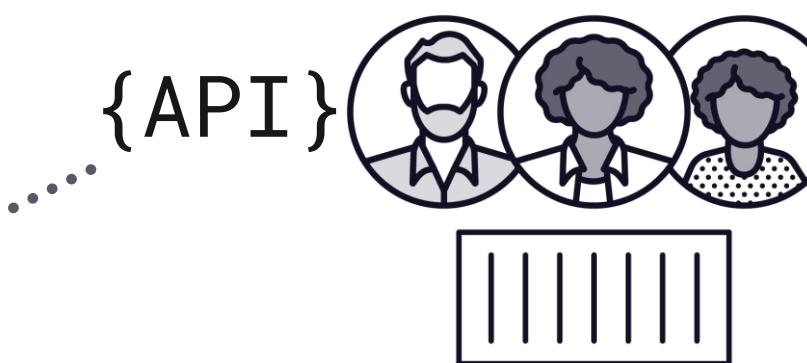
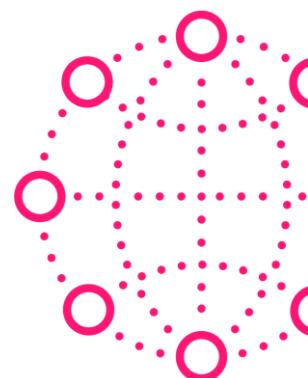
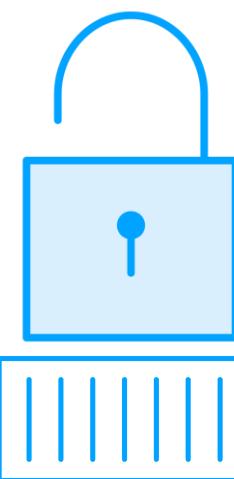
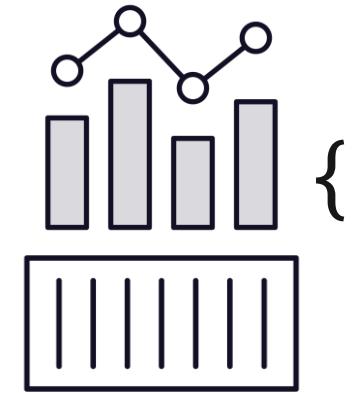


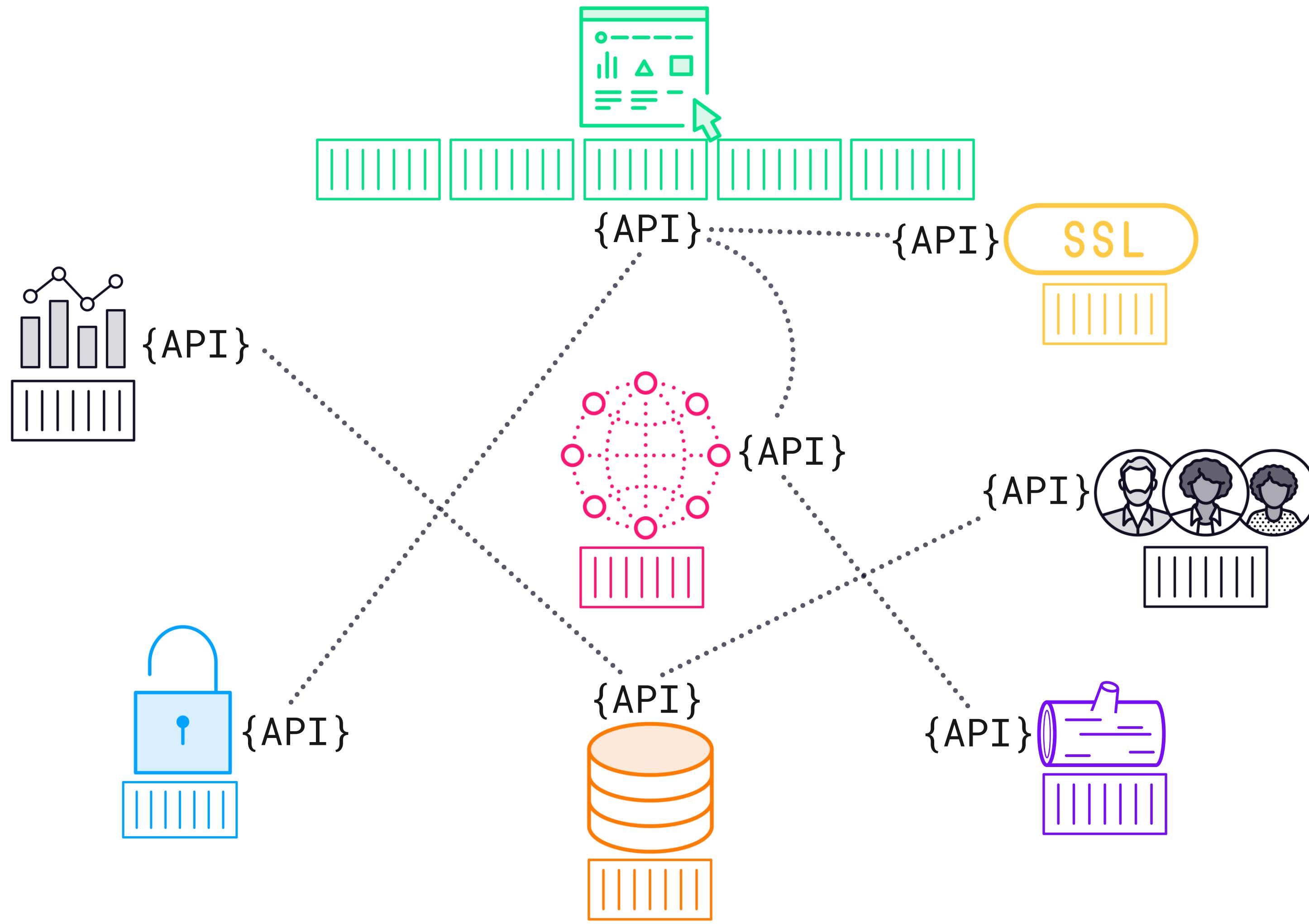
APP



SSL







# Containers...

**Are execution environments**

**Can be started, stopped, deleted...**

**Should be ephemeral**

**Should be immutable**



**Up Next:**

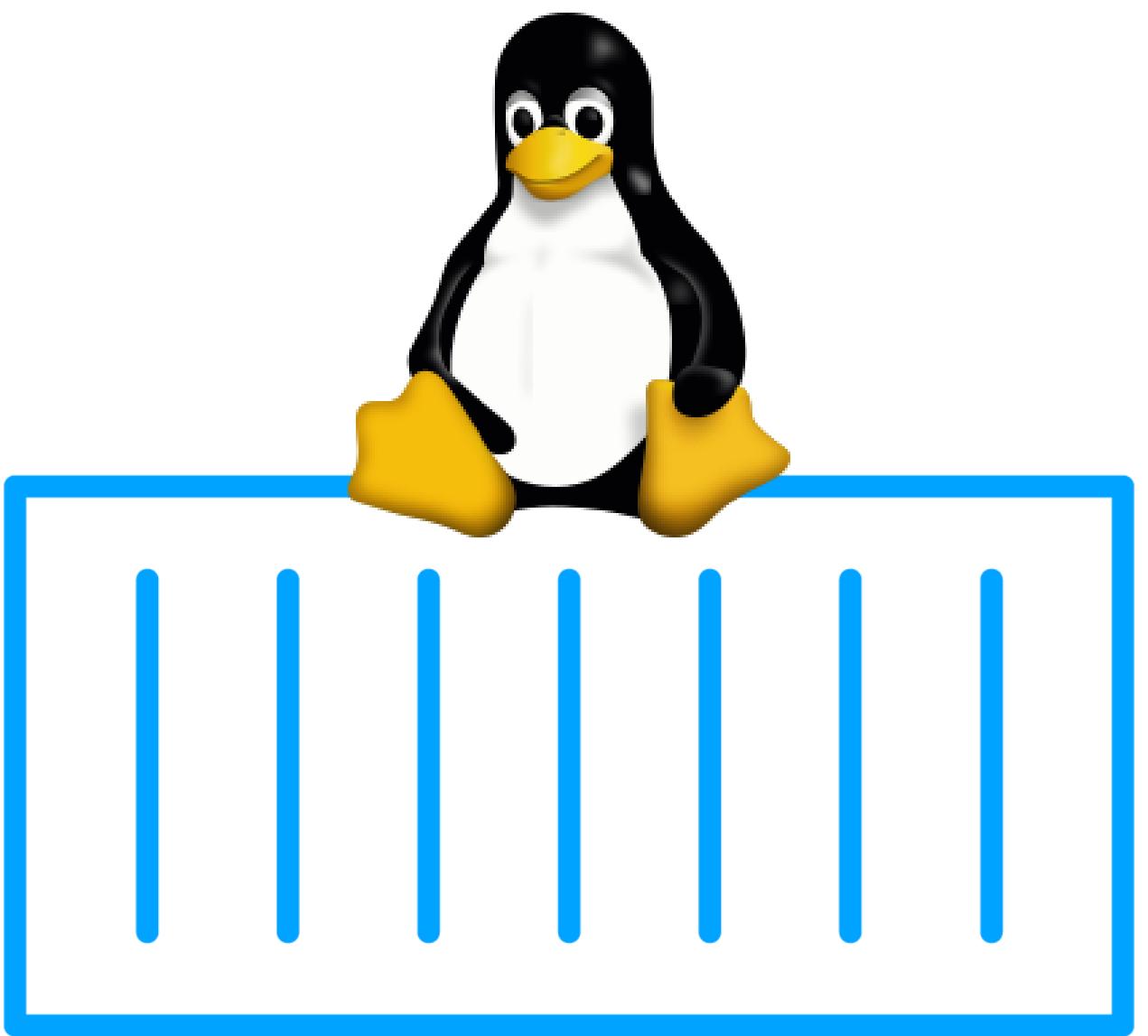
# **Containers: Hands-on Deep Dive**

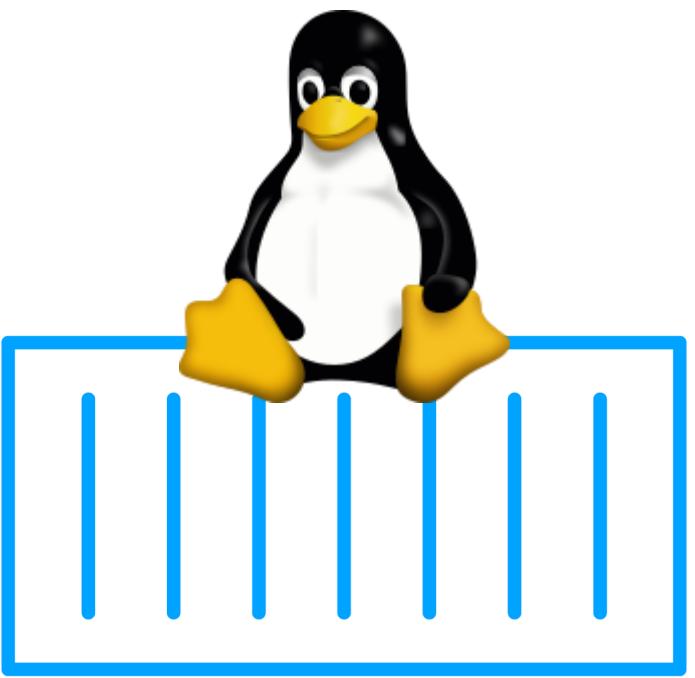
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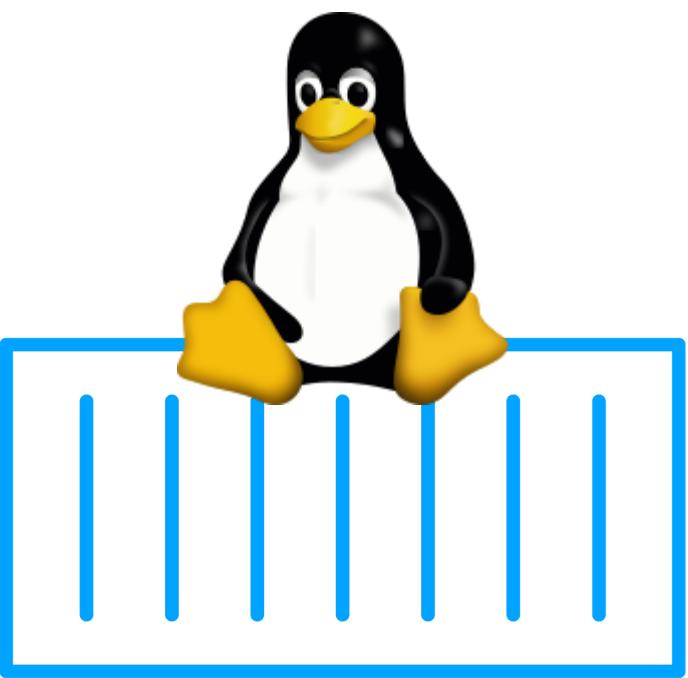


# Containers: Hands-on Deep Dive

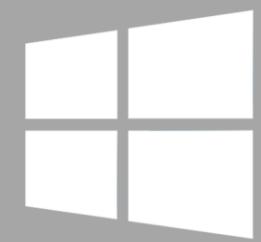








**WSL 2 provides  
the Linux kernel**



**Windows & WSL 2**



**Up Next:**

# **Managing Containers with Docker Desktop**

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# Managing Containers with Docker Desktop

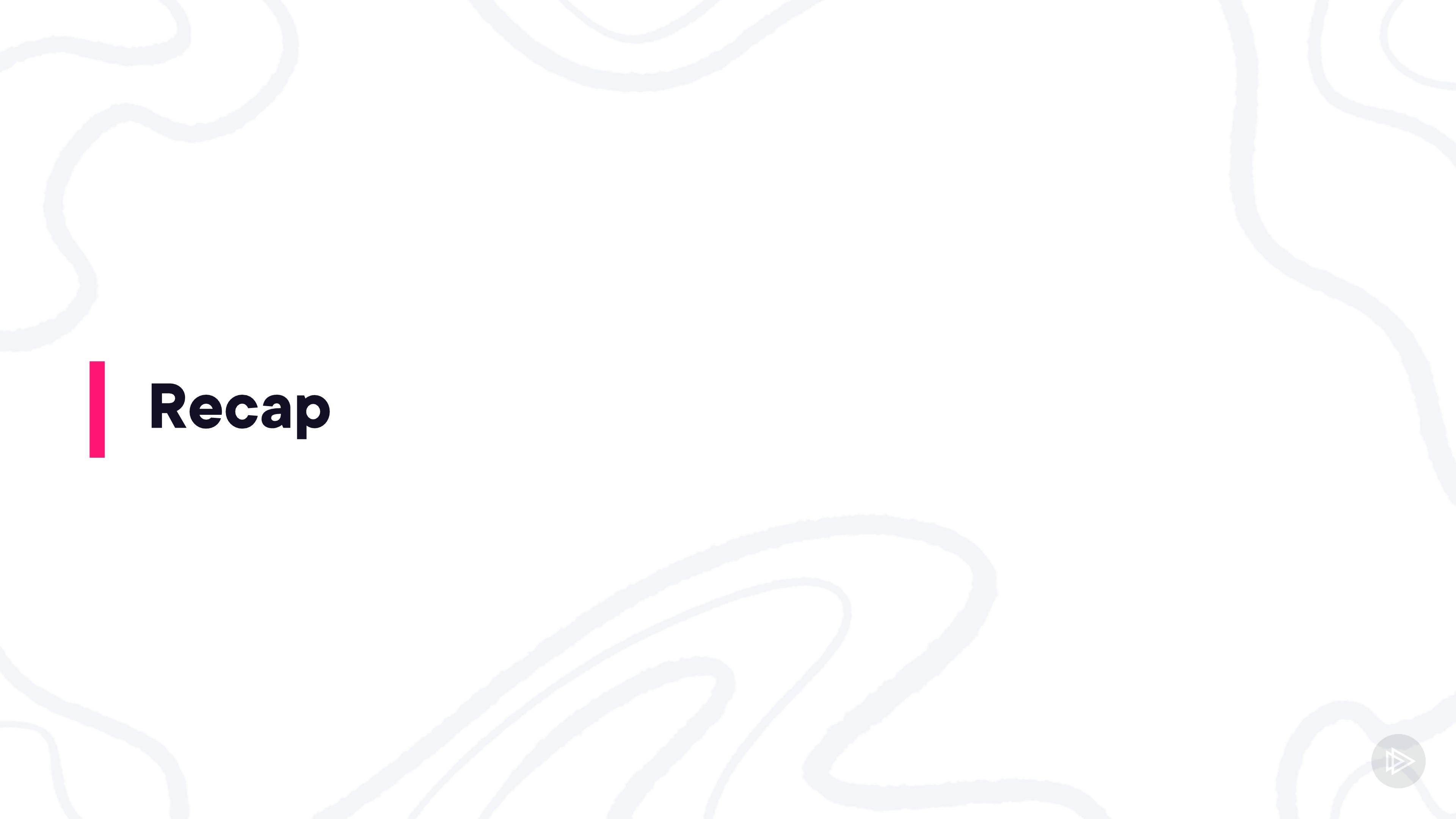


**Up Next:**

# **Recap**

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# Recap

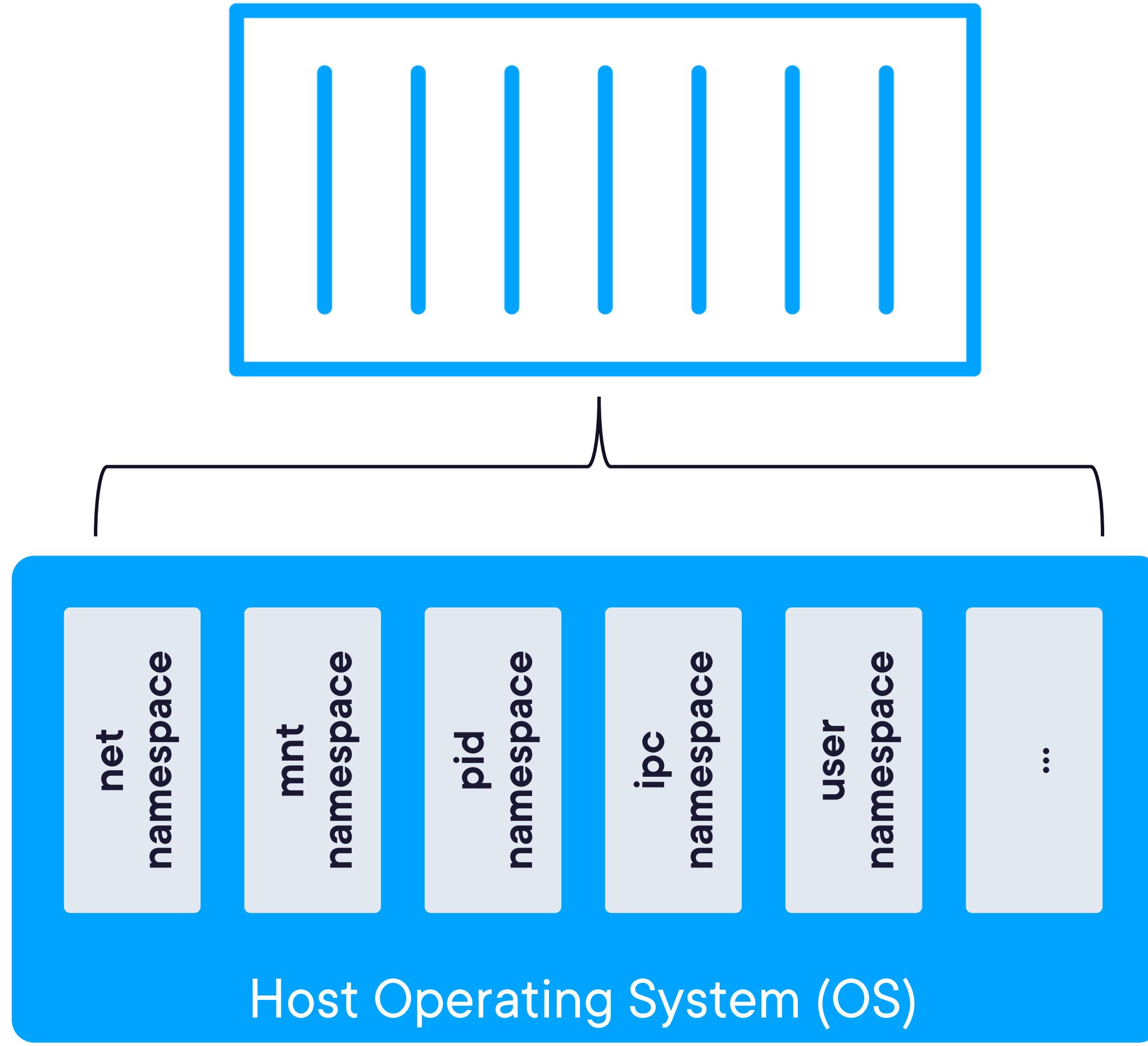


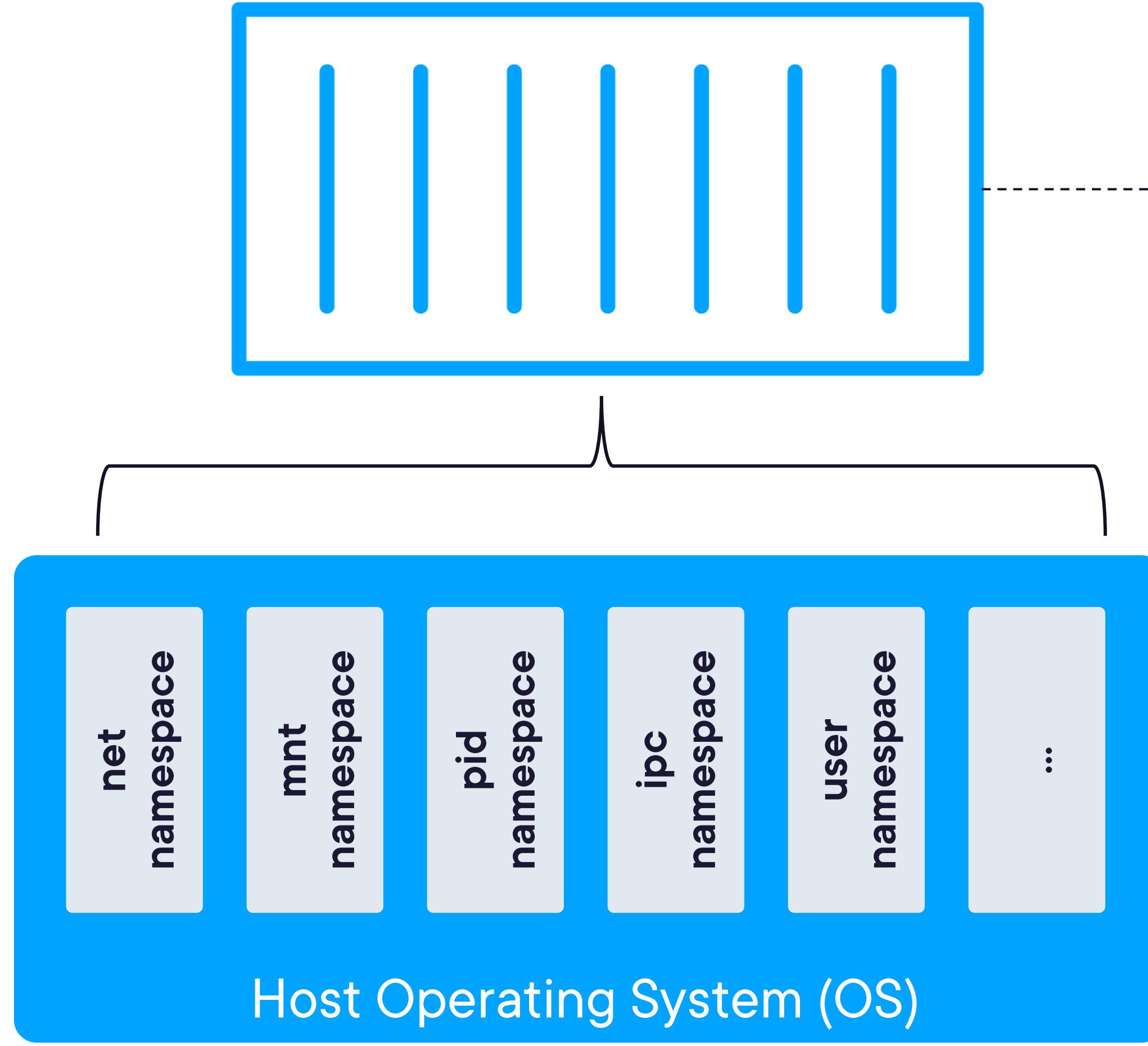


**Build time**

**Runtime**

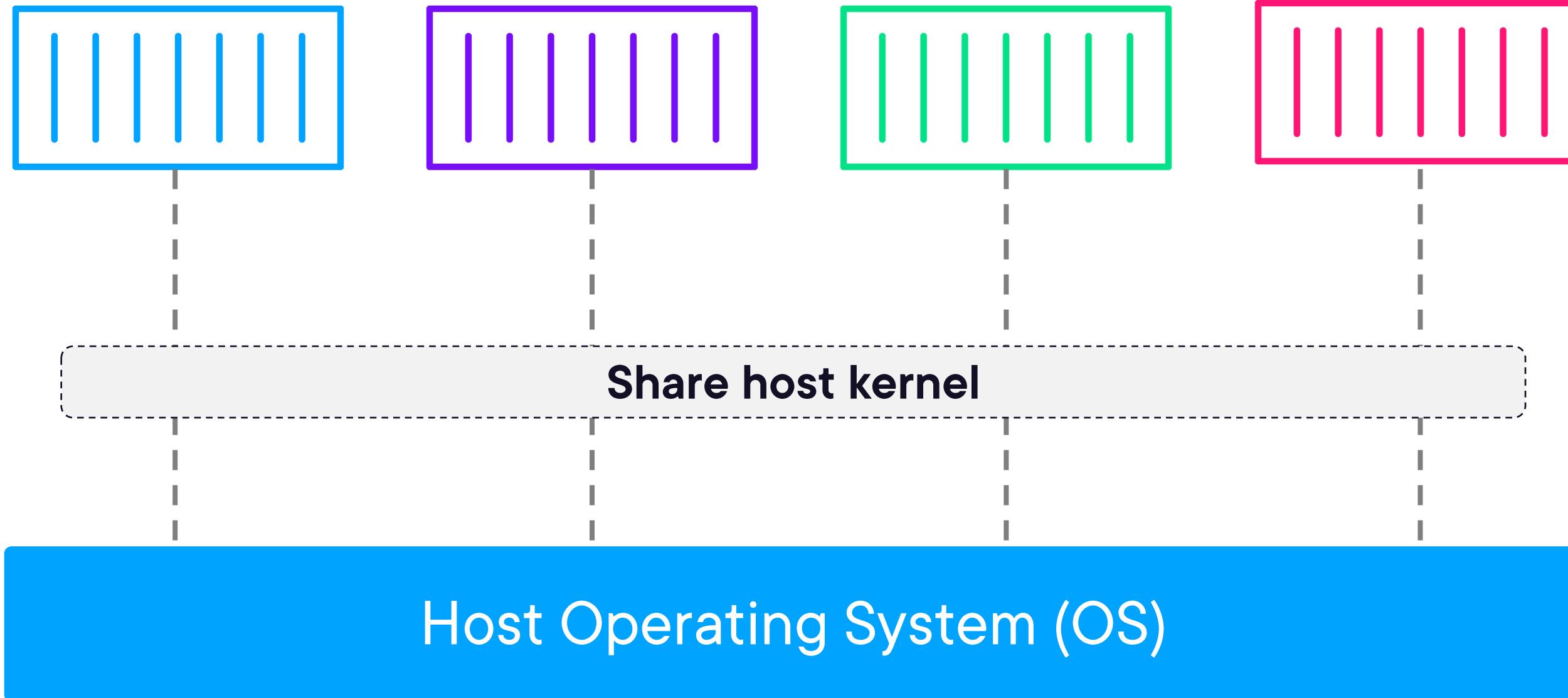


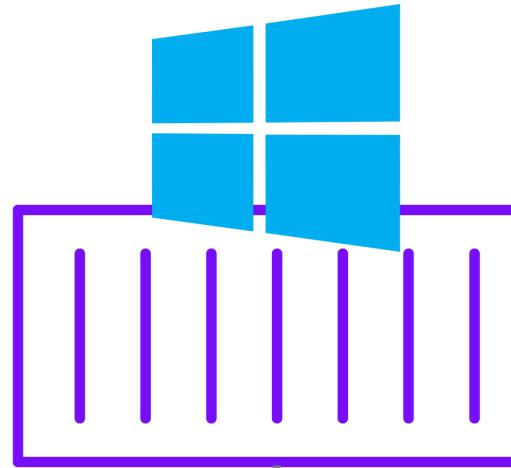
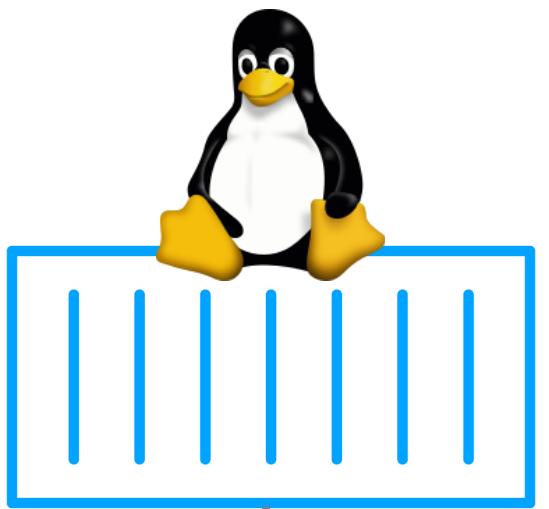




Container looks like  
regular OS



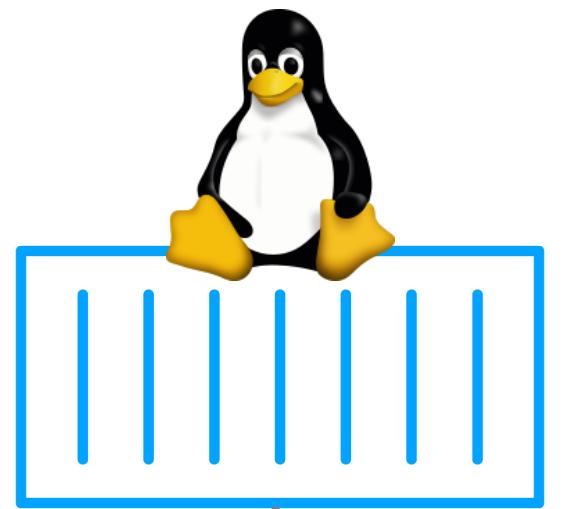




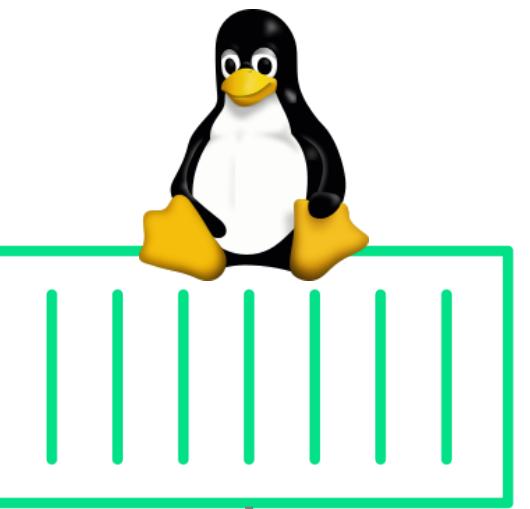
Linux

Windows

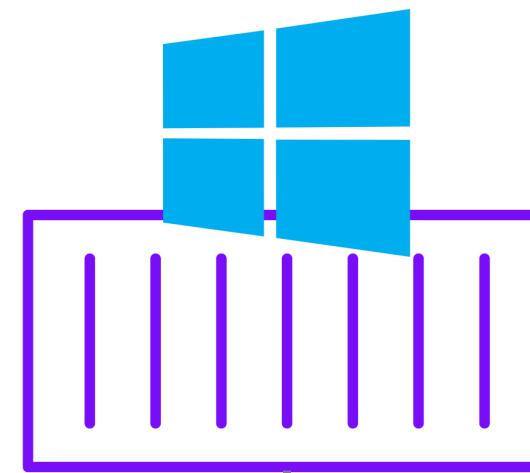




Linux

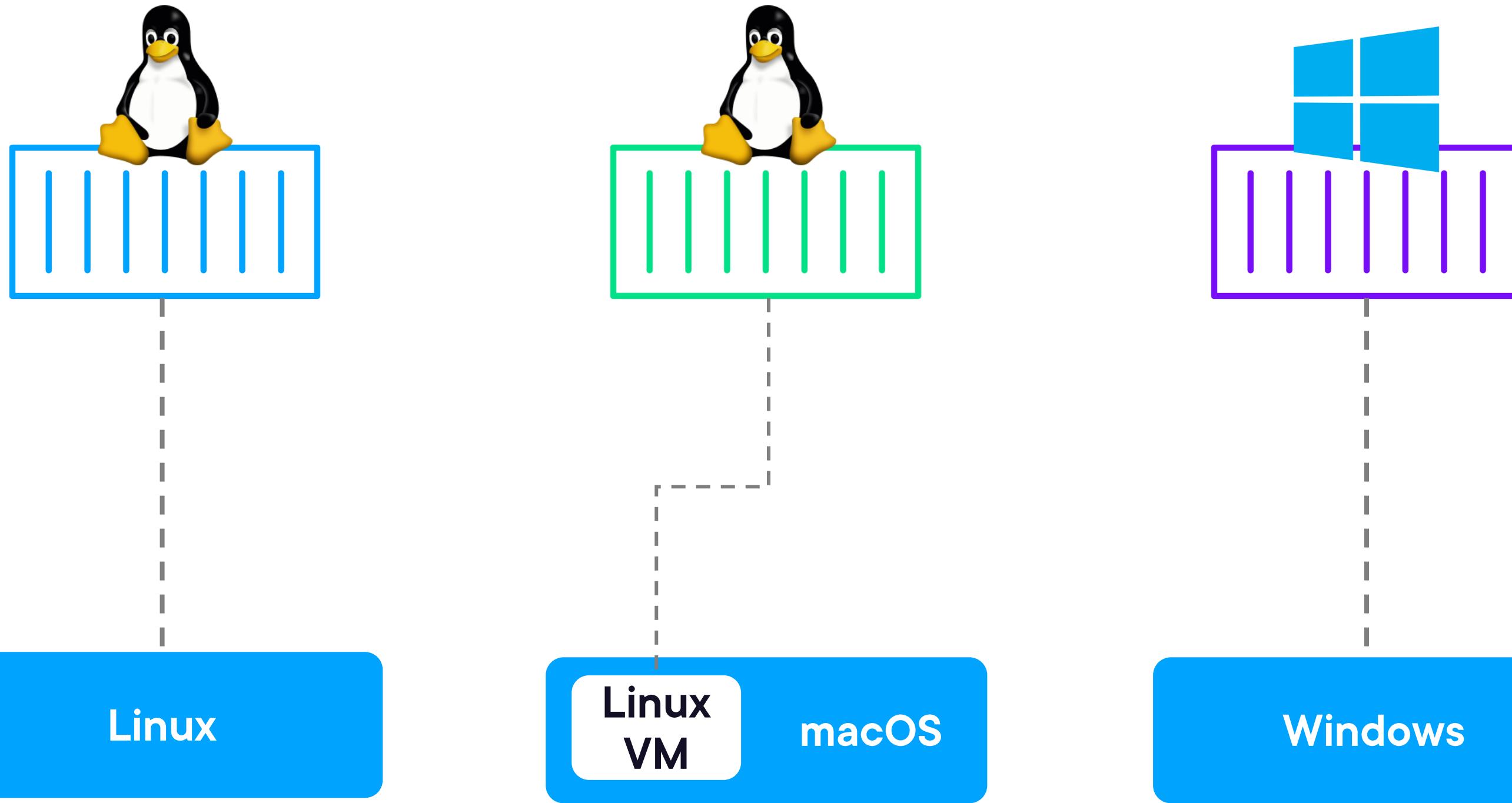


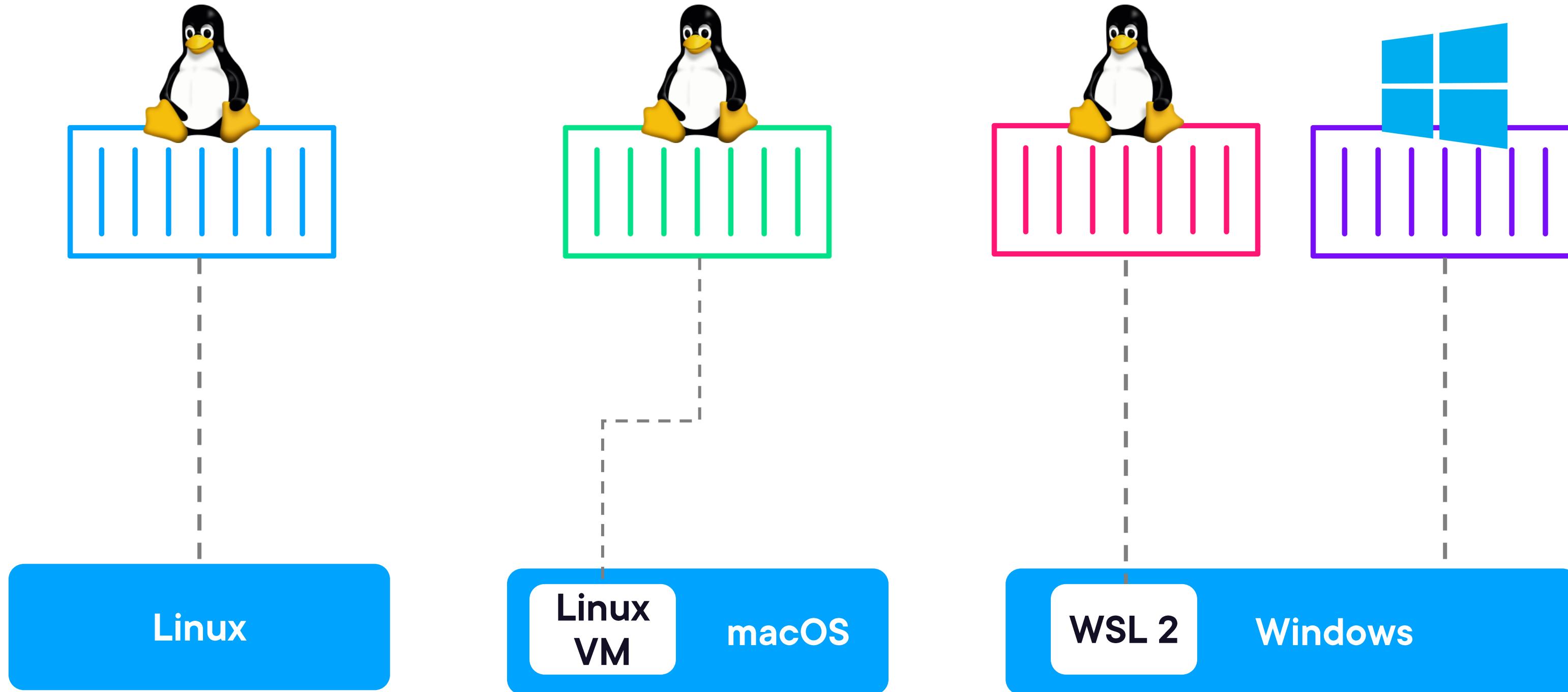
macOS

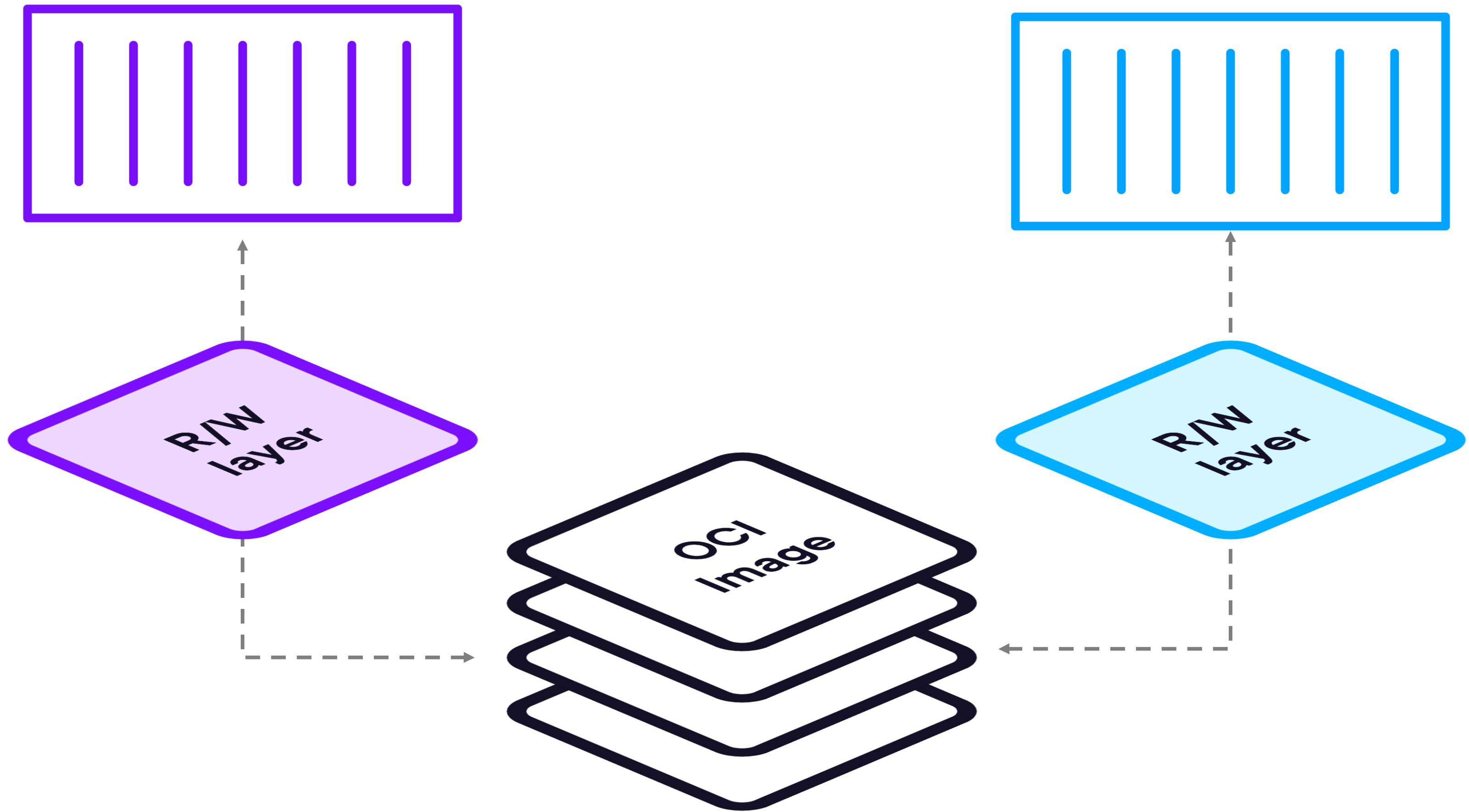


Windows









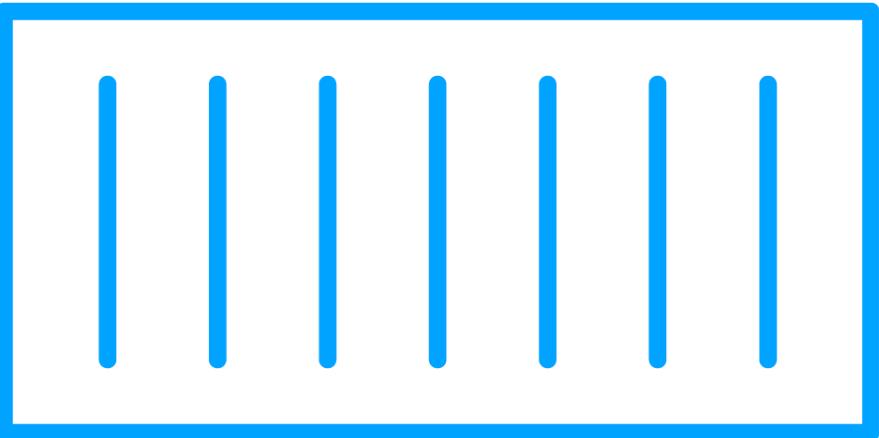
# Containers should be...

Ephemeral

Immutable



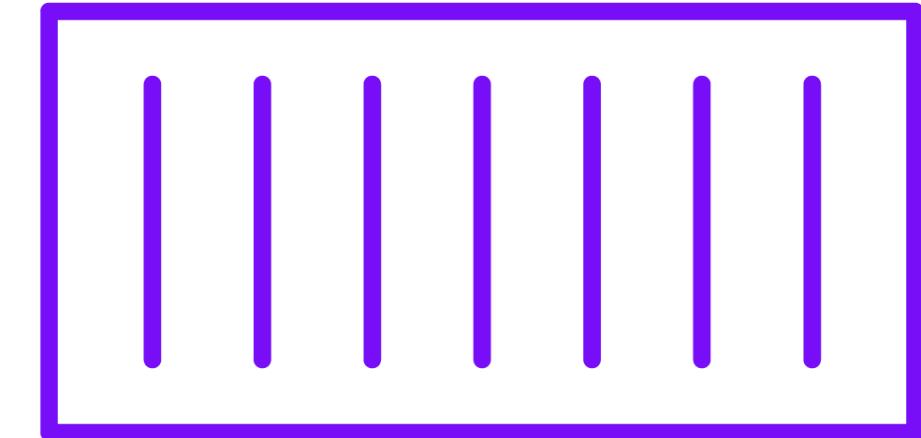
**Single process  
(single concern)**



**Single process  
(single concern)**



**Single process  
(single concern)**



**Up Next:**

# **Building a Secure Swarm**

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