

Working with Containers



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Module Outline

Big Picture
Deeper Dive
Logging
Recap





Domain 1: Orchestration

- Inspect images and report specific attributes using filter and format
- Add networks, publish ports

Domain 2: Image Creation, Management, and Registry

- Interpret the output of "docker inspect" commands

Domain 4: Networking

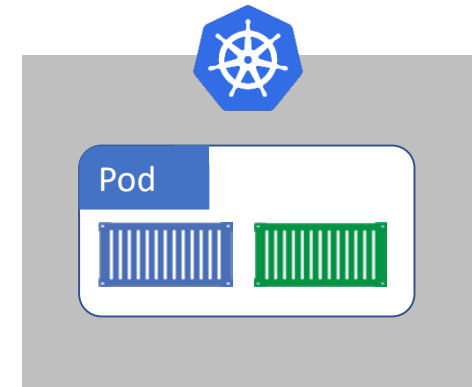
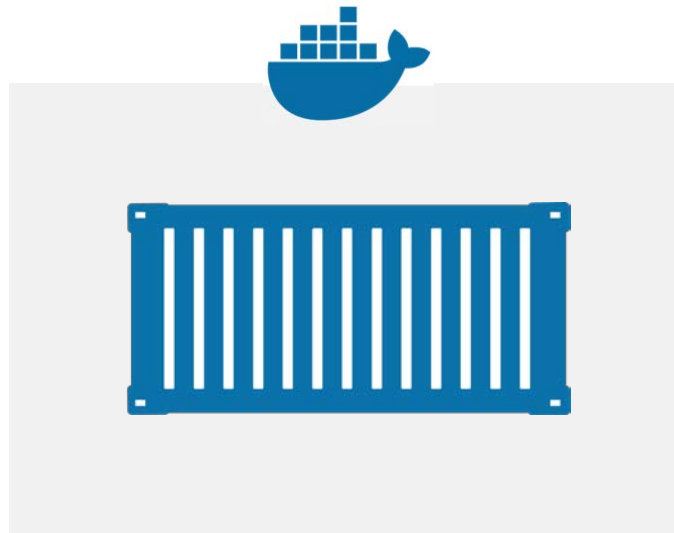
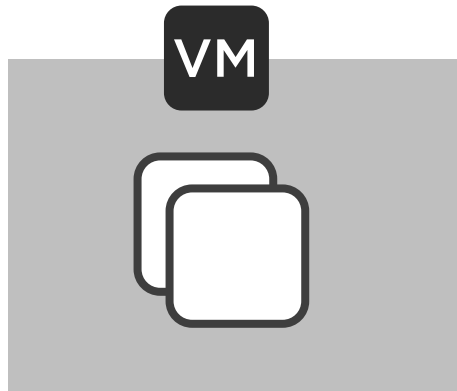
- Publish a port so that an application is accessible externally
- Identify which IP and port a container is externally accessible on



The Big Picture

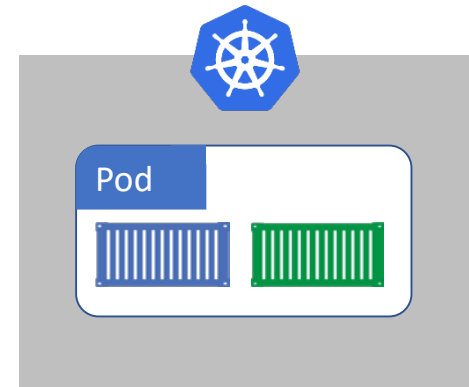
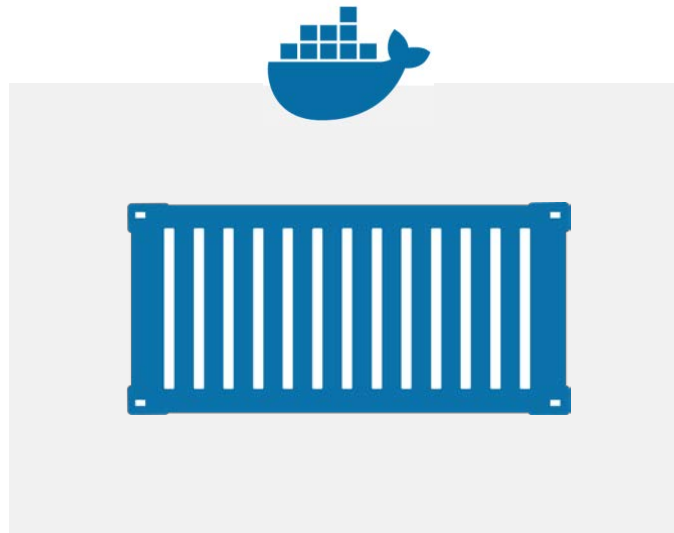
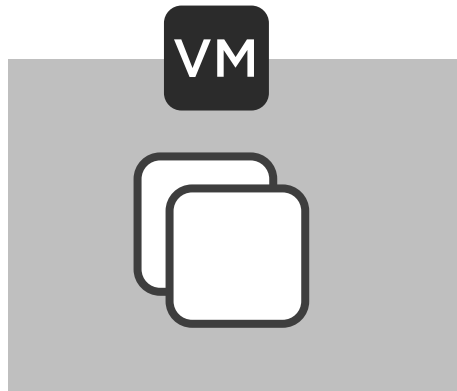
It's all about the applications!





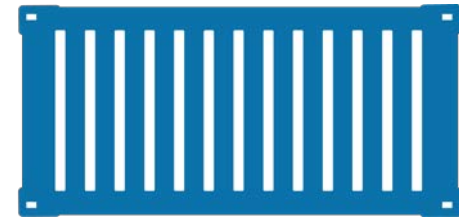
← Atomic units →





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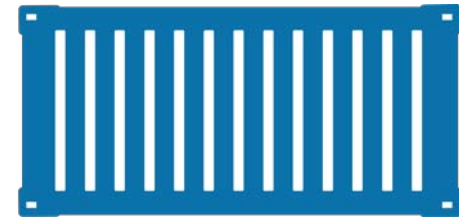
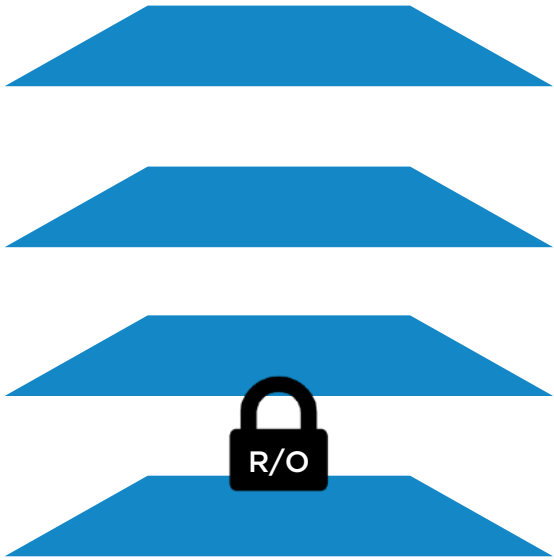




Build-time

Run-time



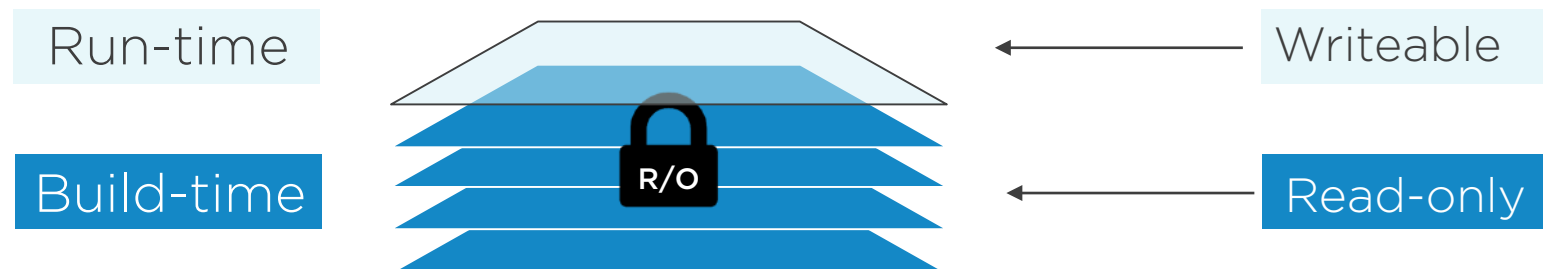


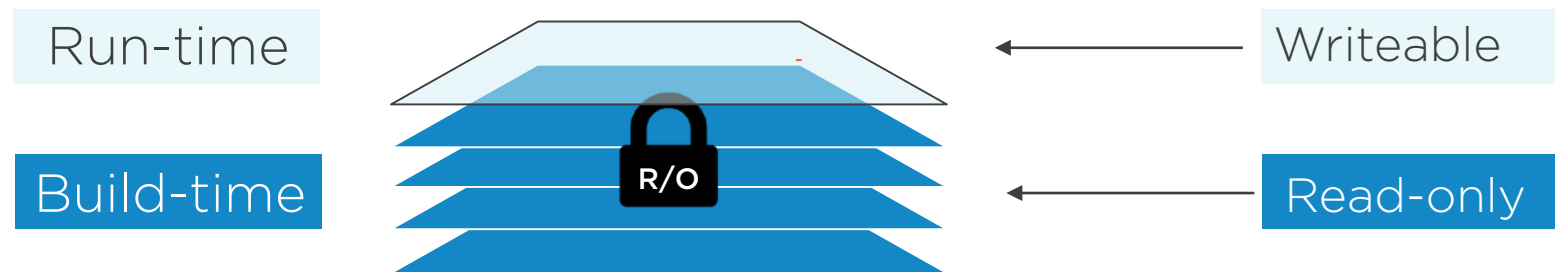
Build-time

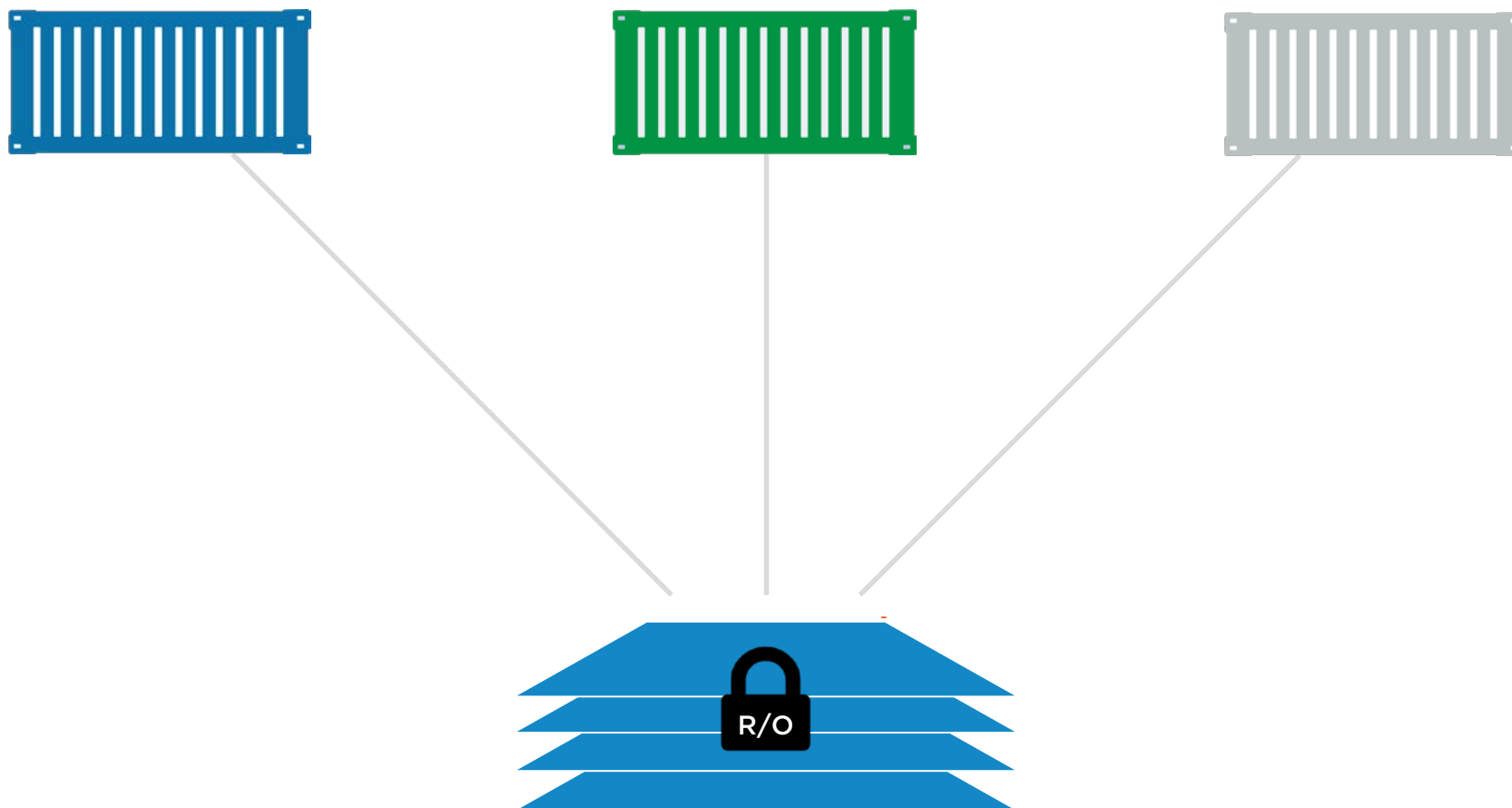
Run-time

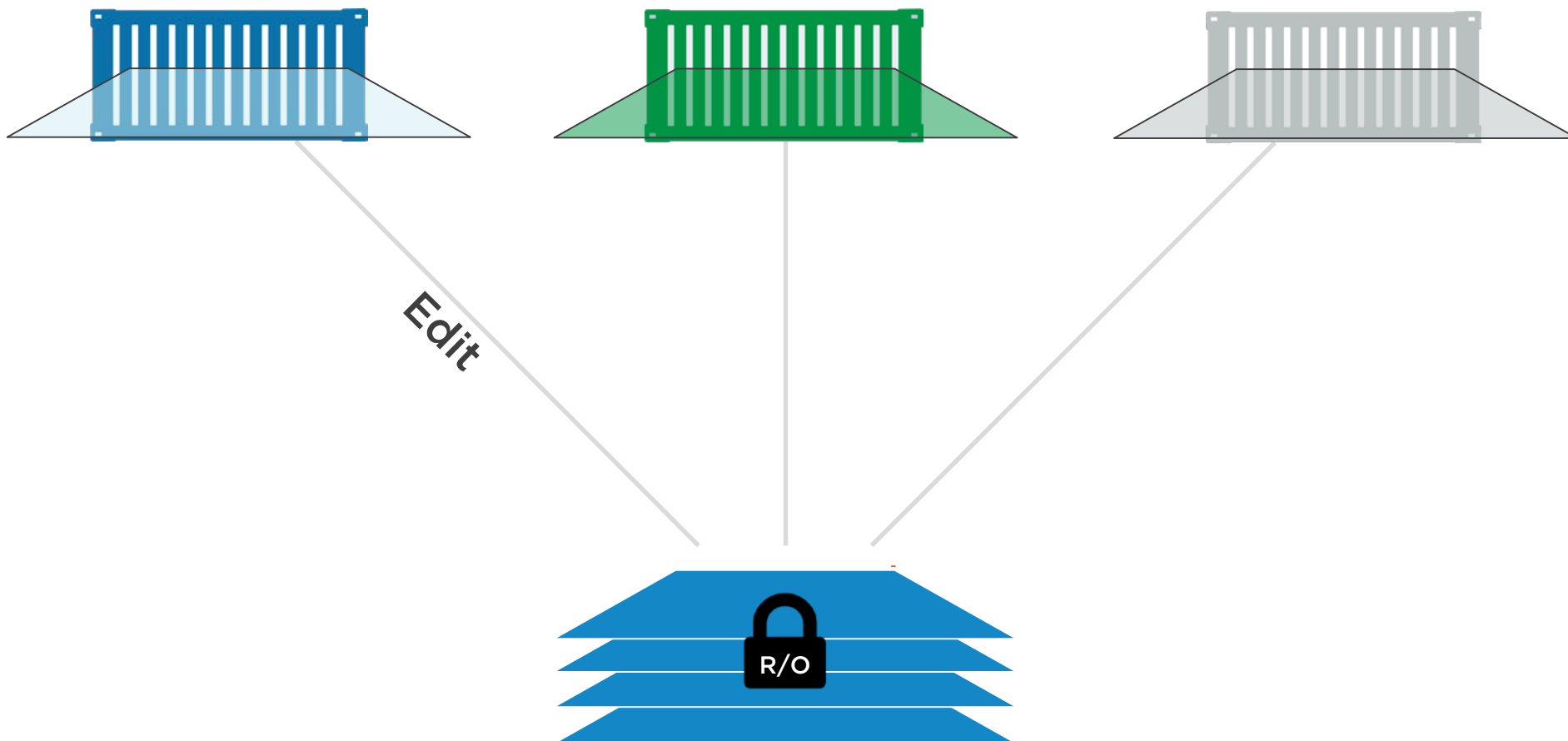


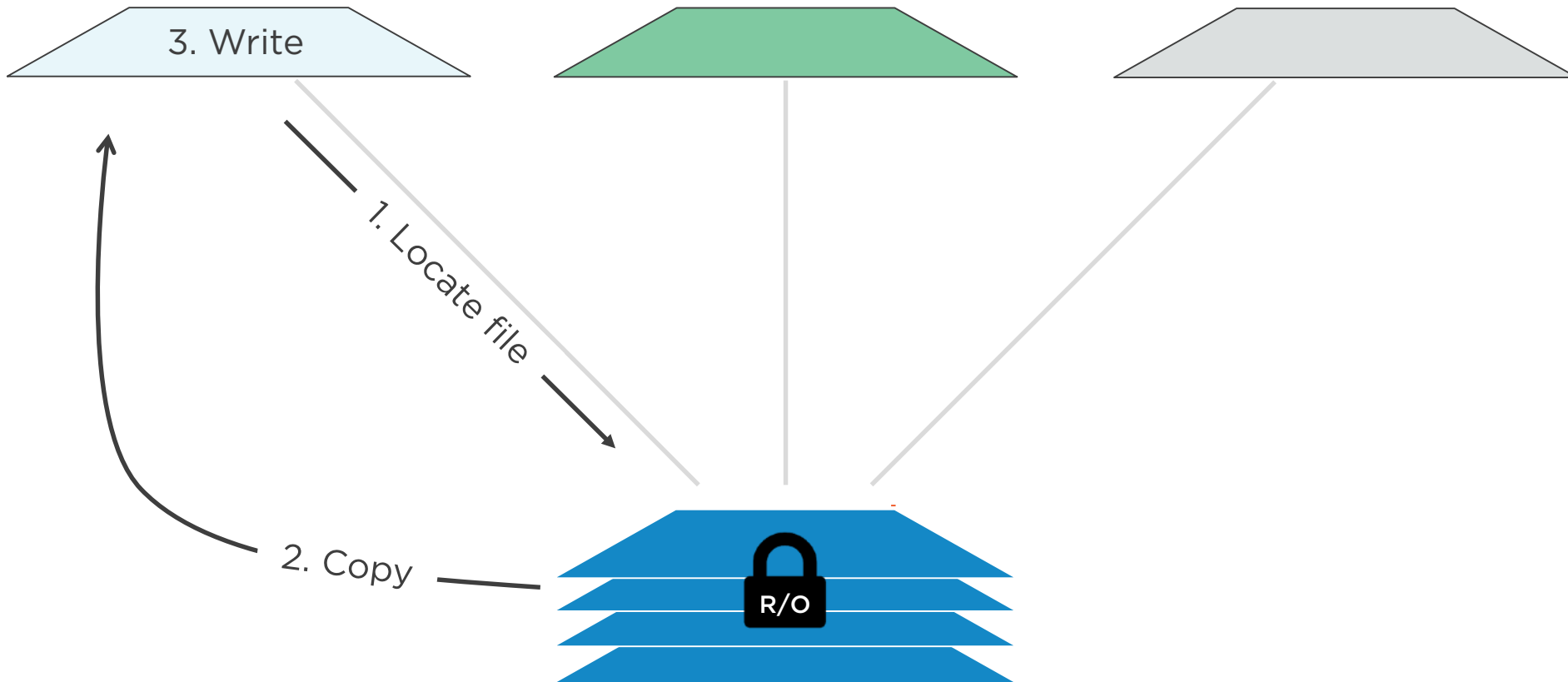


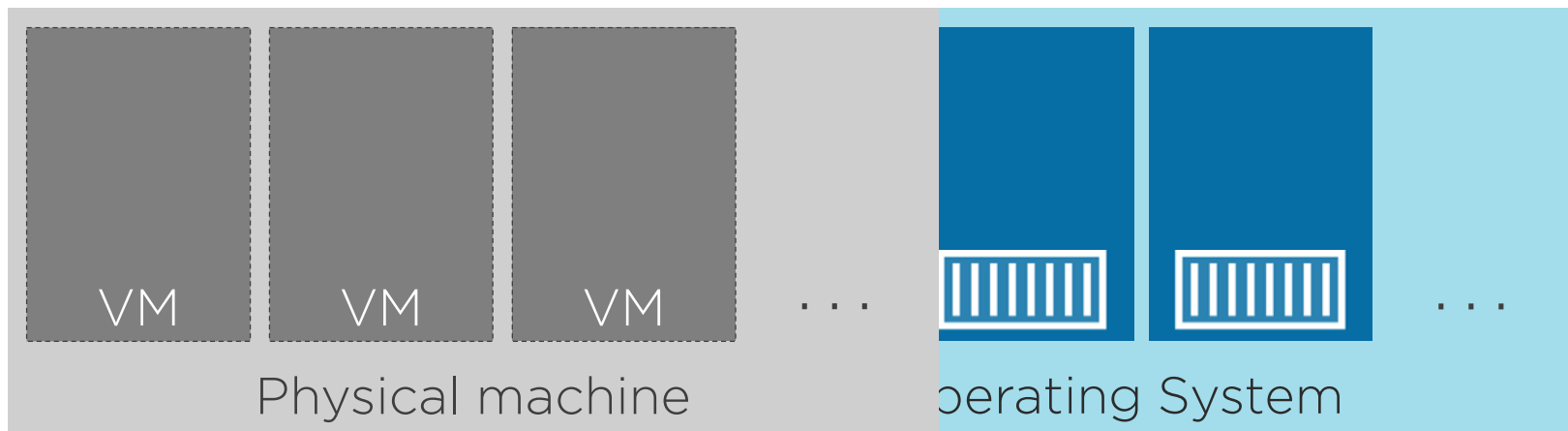


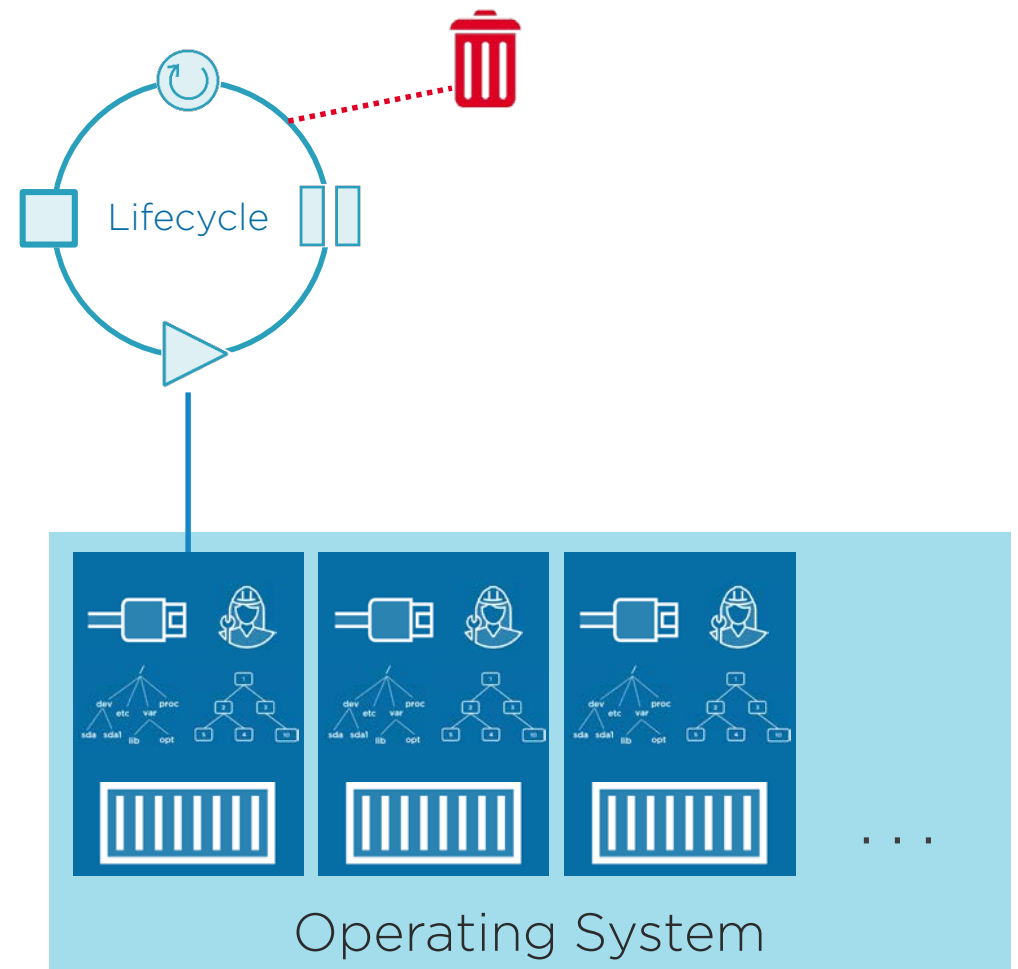
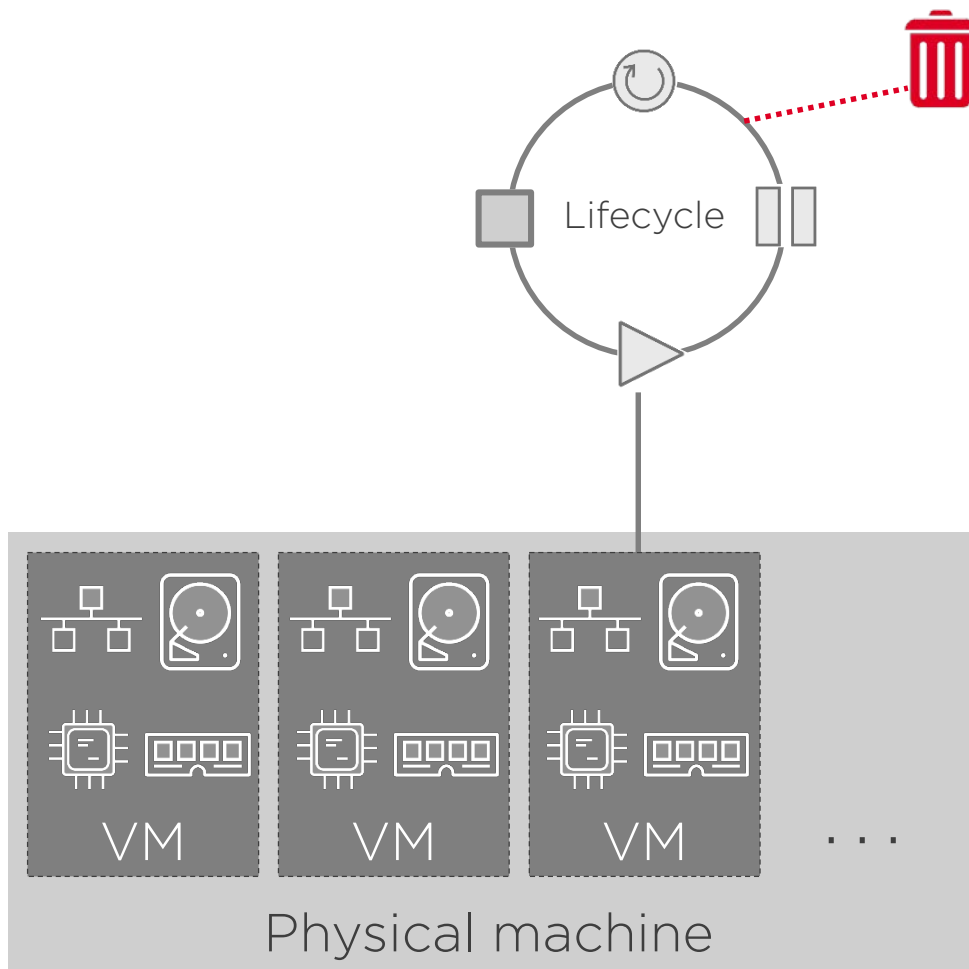


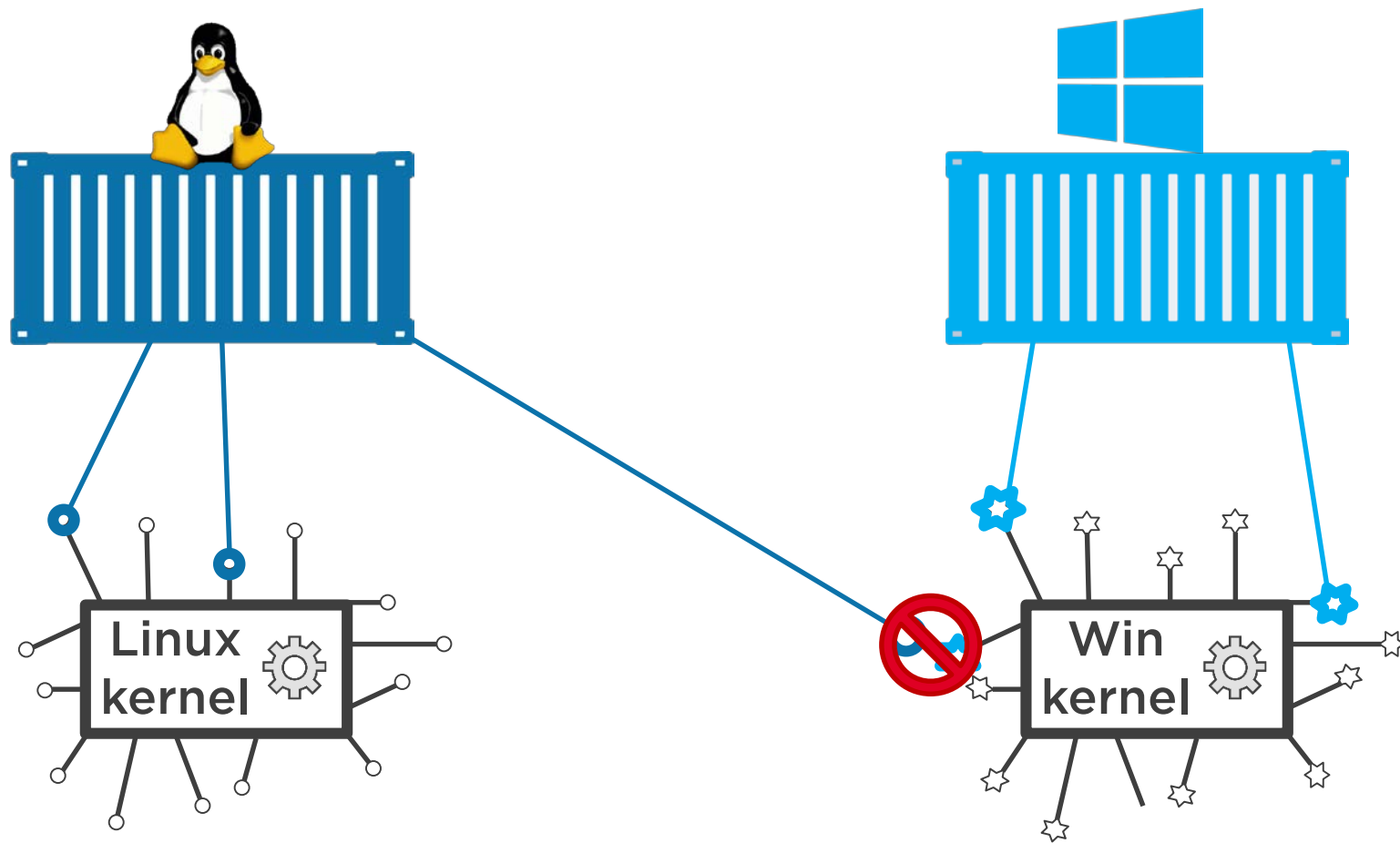


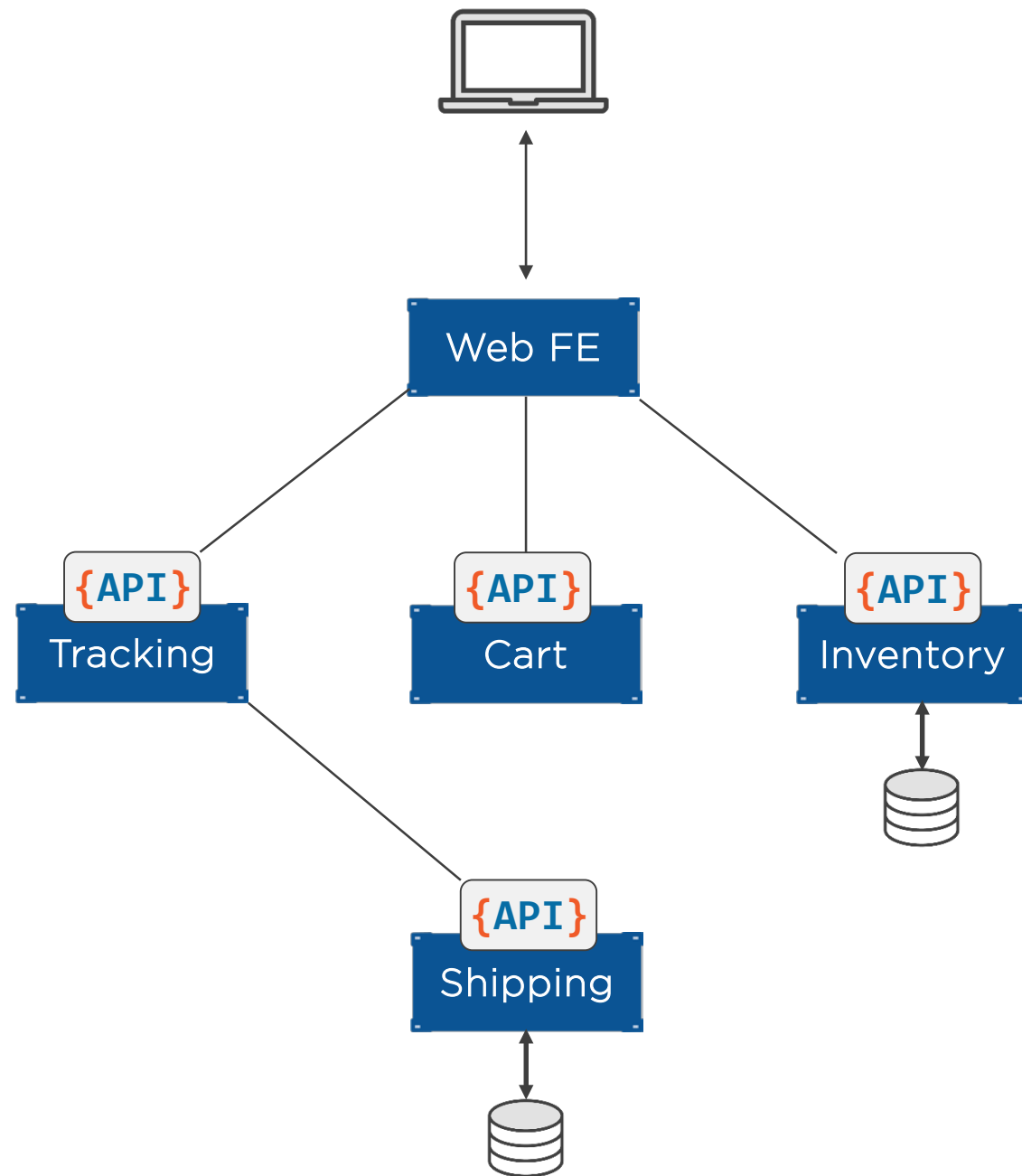
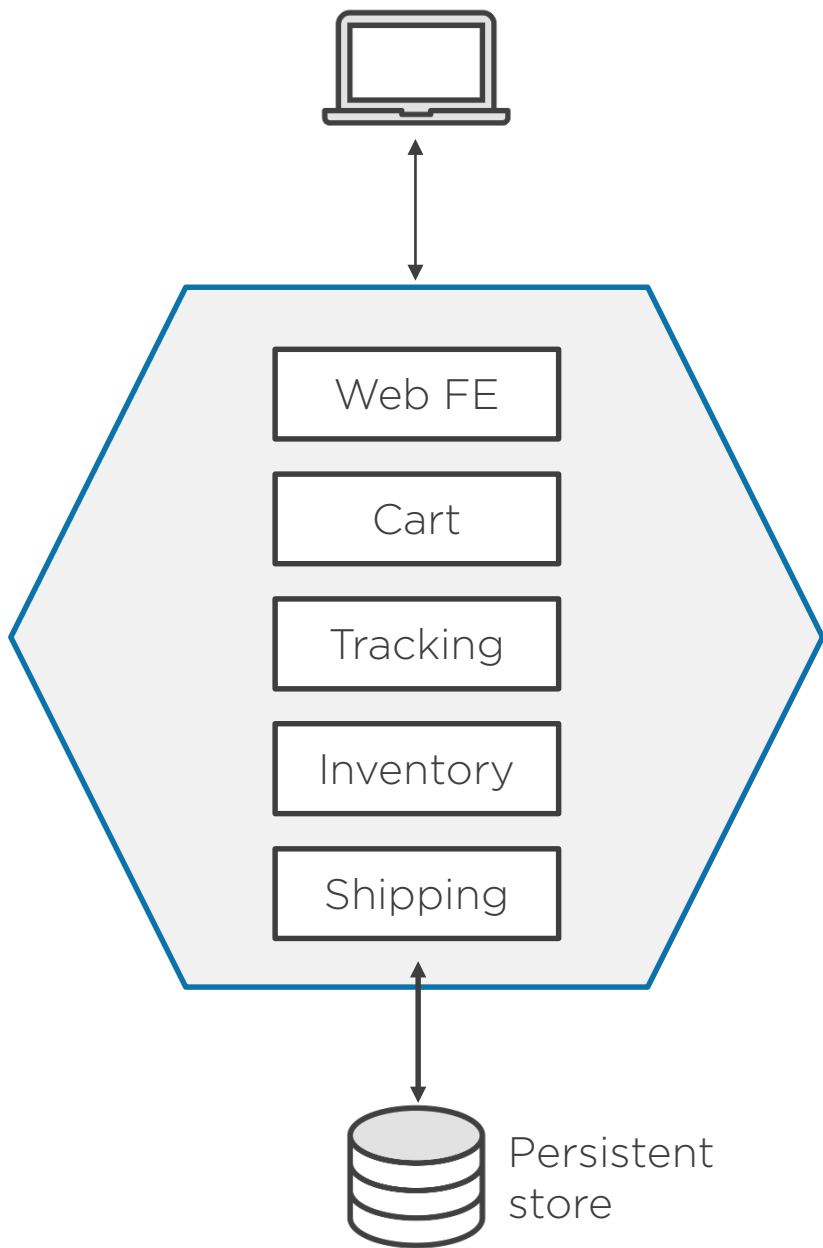




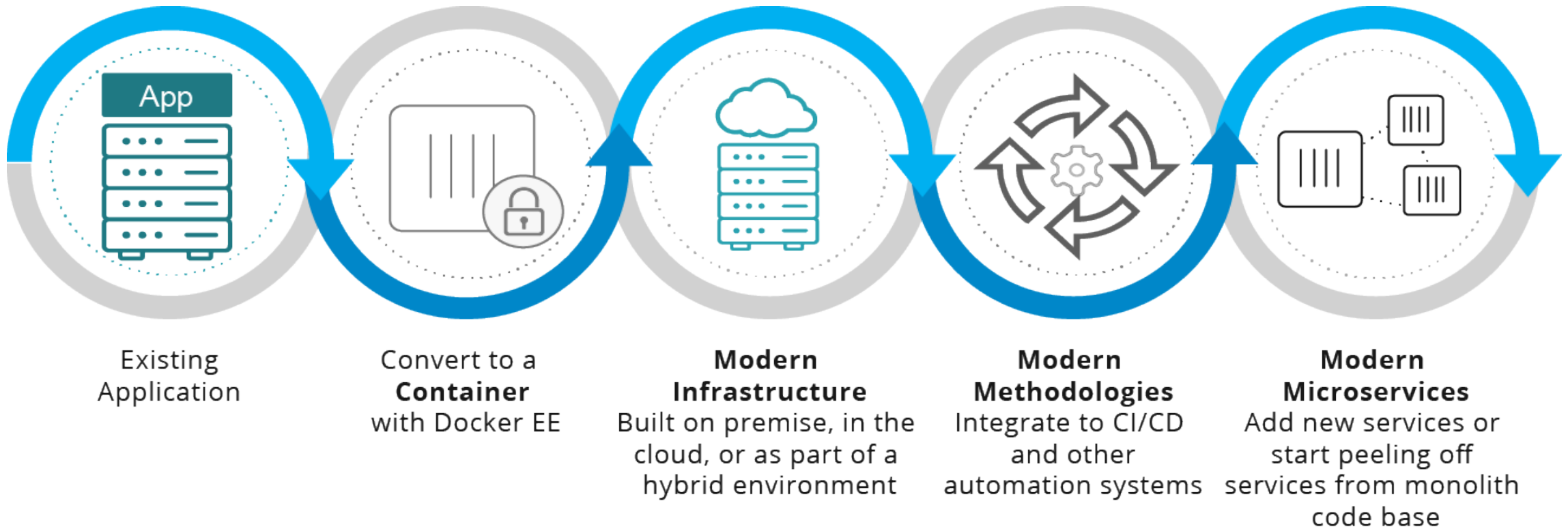


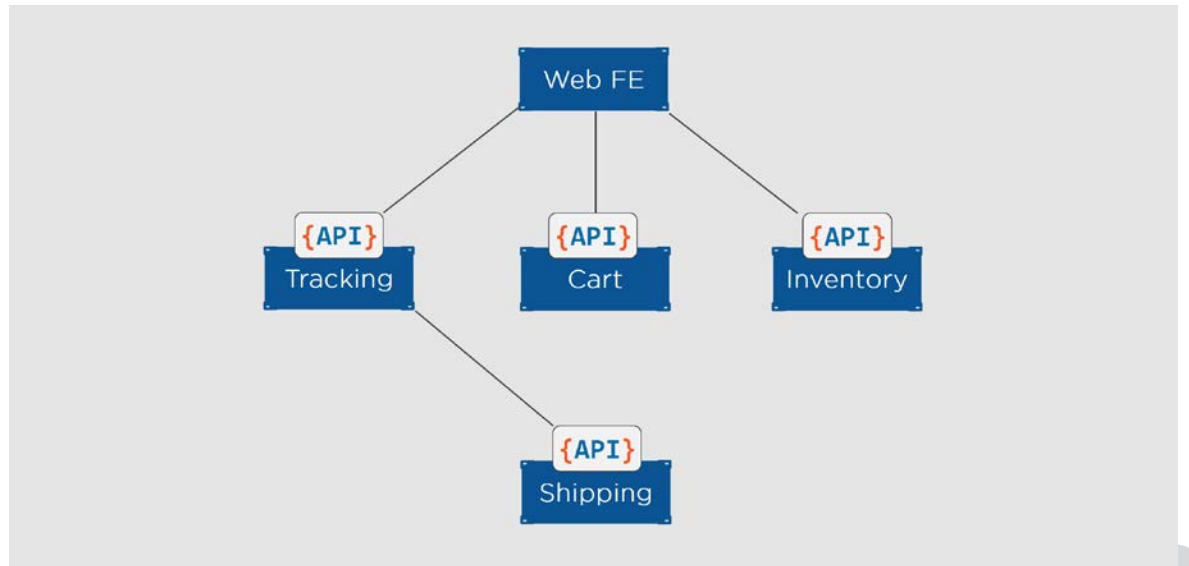
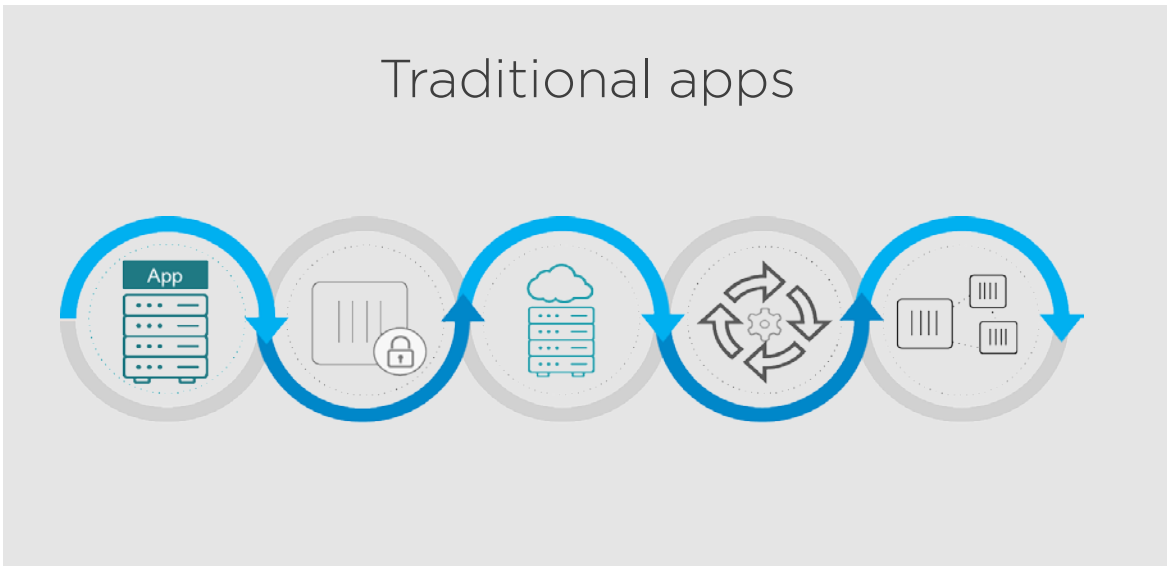
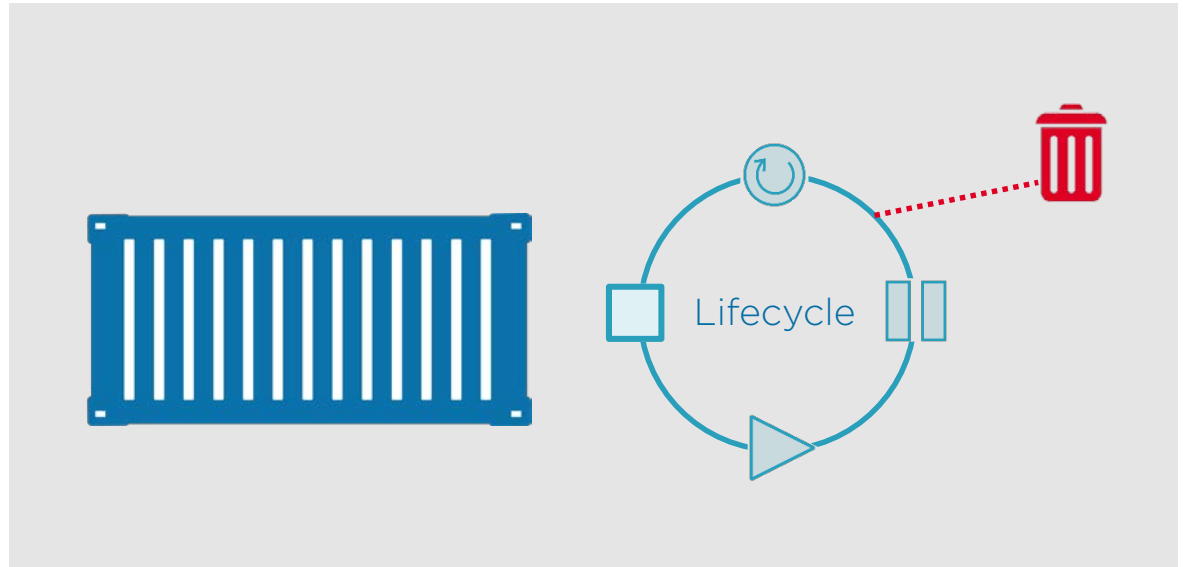
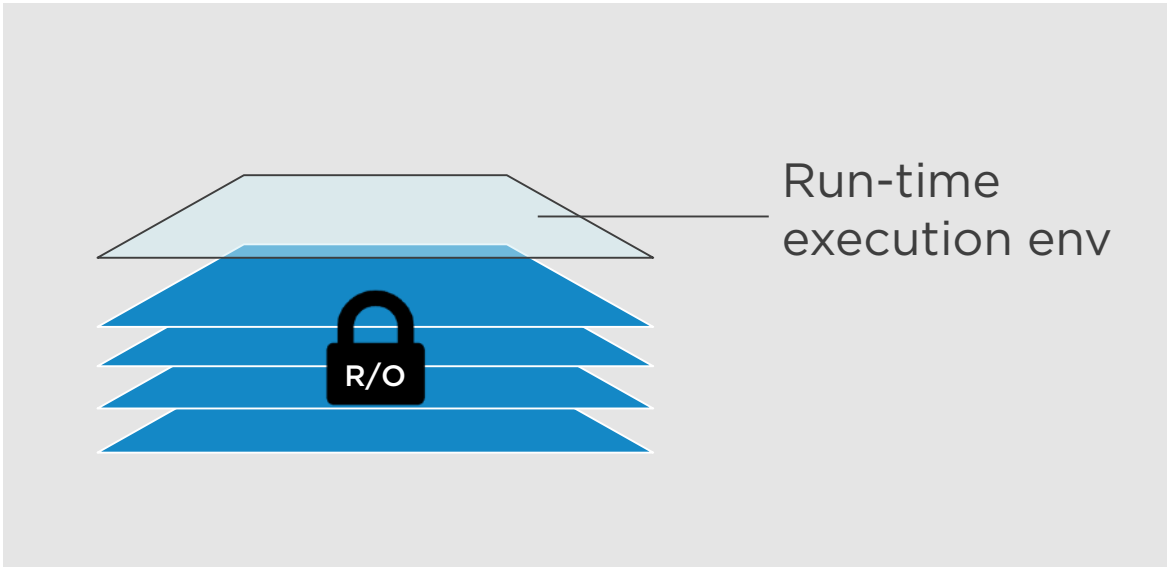






Modernize Traditional Apps





Coming up Hands-on



Diving Deeper

Getting hands-on



Coming up Logging



Logging

What you don't know, is greater than what you do know



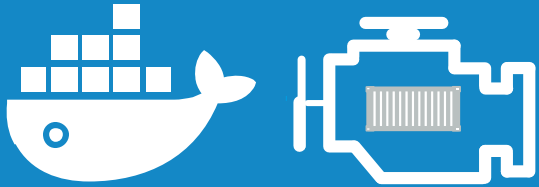
Logging

Log

What you don't know, is great

Logging

Engine/daemon



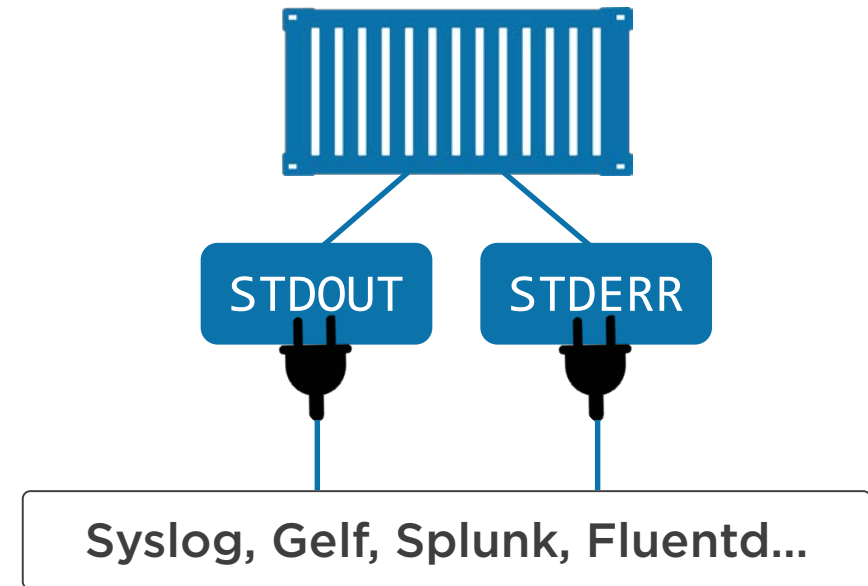
Linux

- **systemd:**
`journalctl -u docker.service`
- **Non-systemd:**
Try `/var/log/messages`

Windows:

`~/AppData/Local/Docker`

Container/App



Set default logging driver in `daemon.json`

Override per-container with
`--log-driver --log-opts`

Inspect logs with `docker logs <container>`
- *Doesn't work with all drivers*

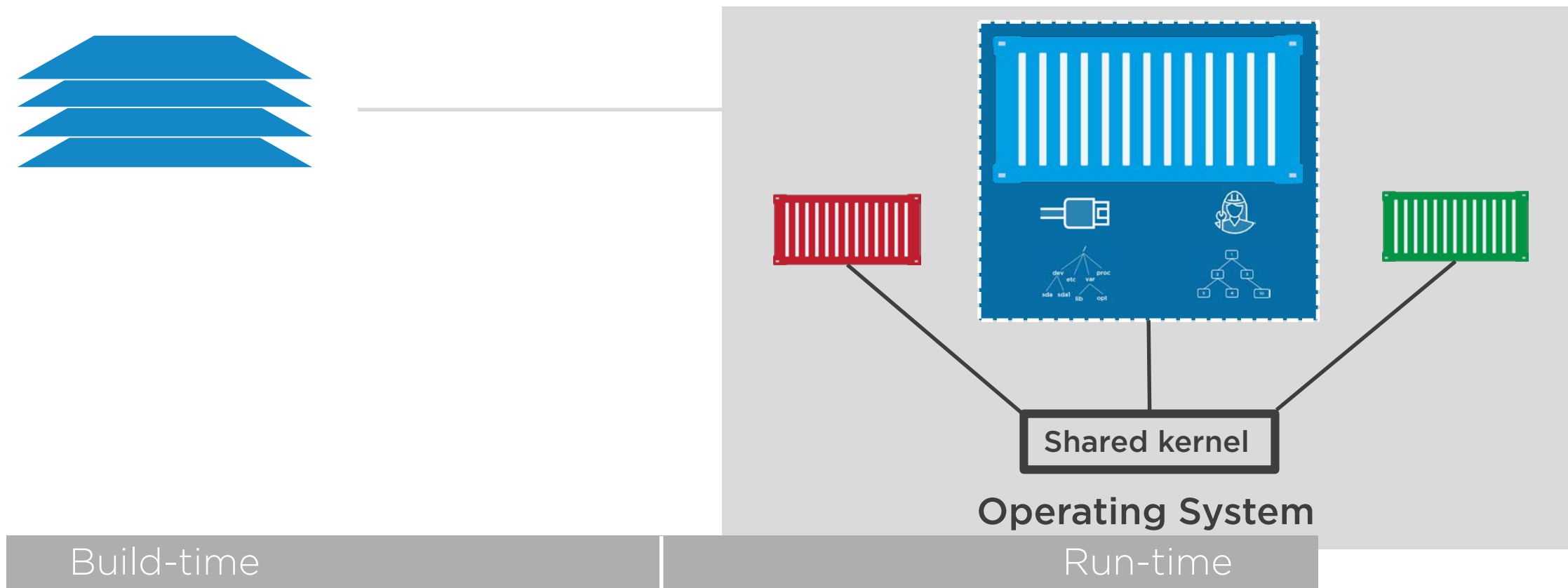
Coming up Recap

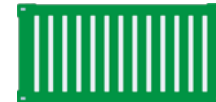
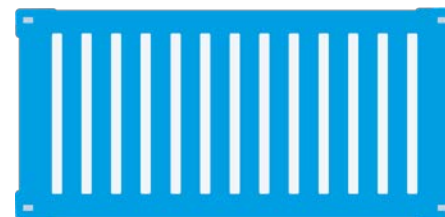


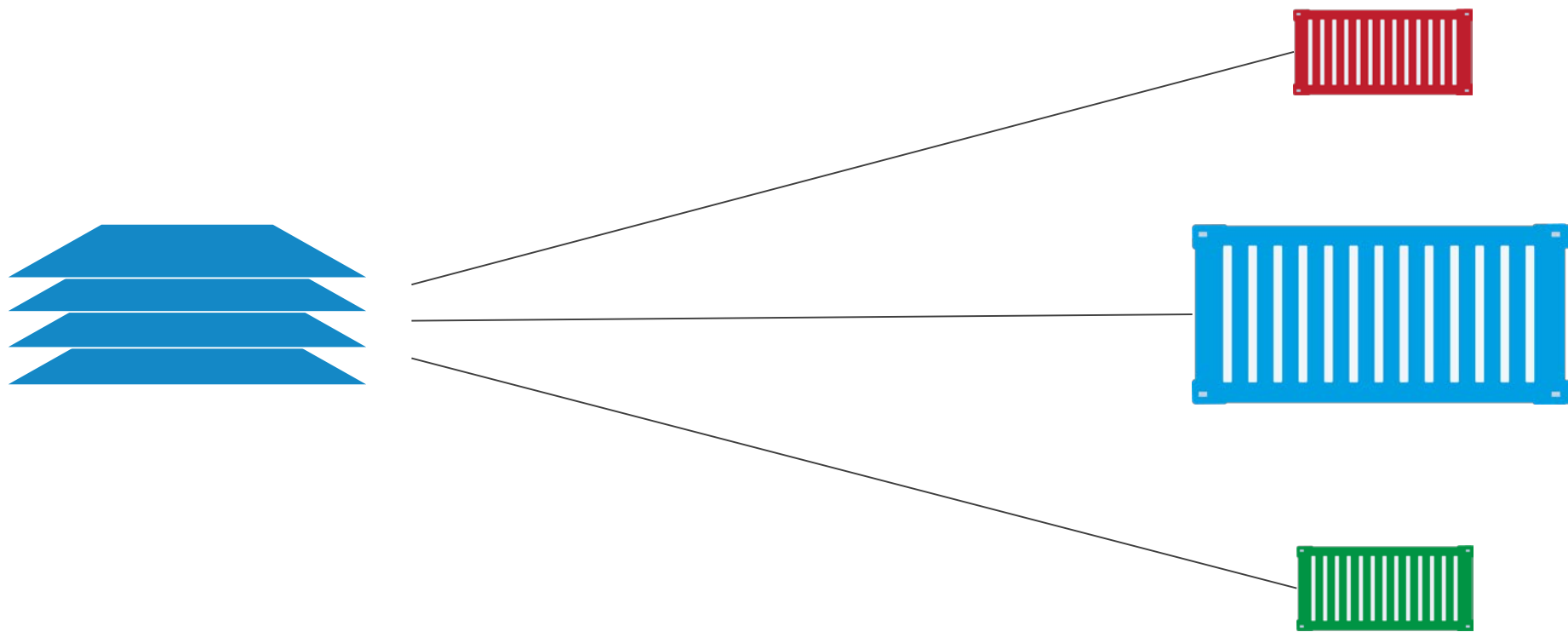
Recap

Repetition is the mother of skill





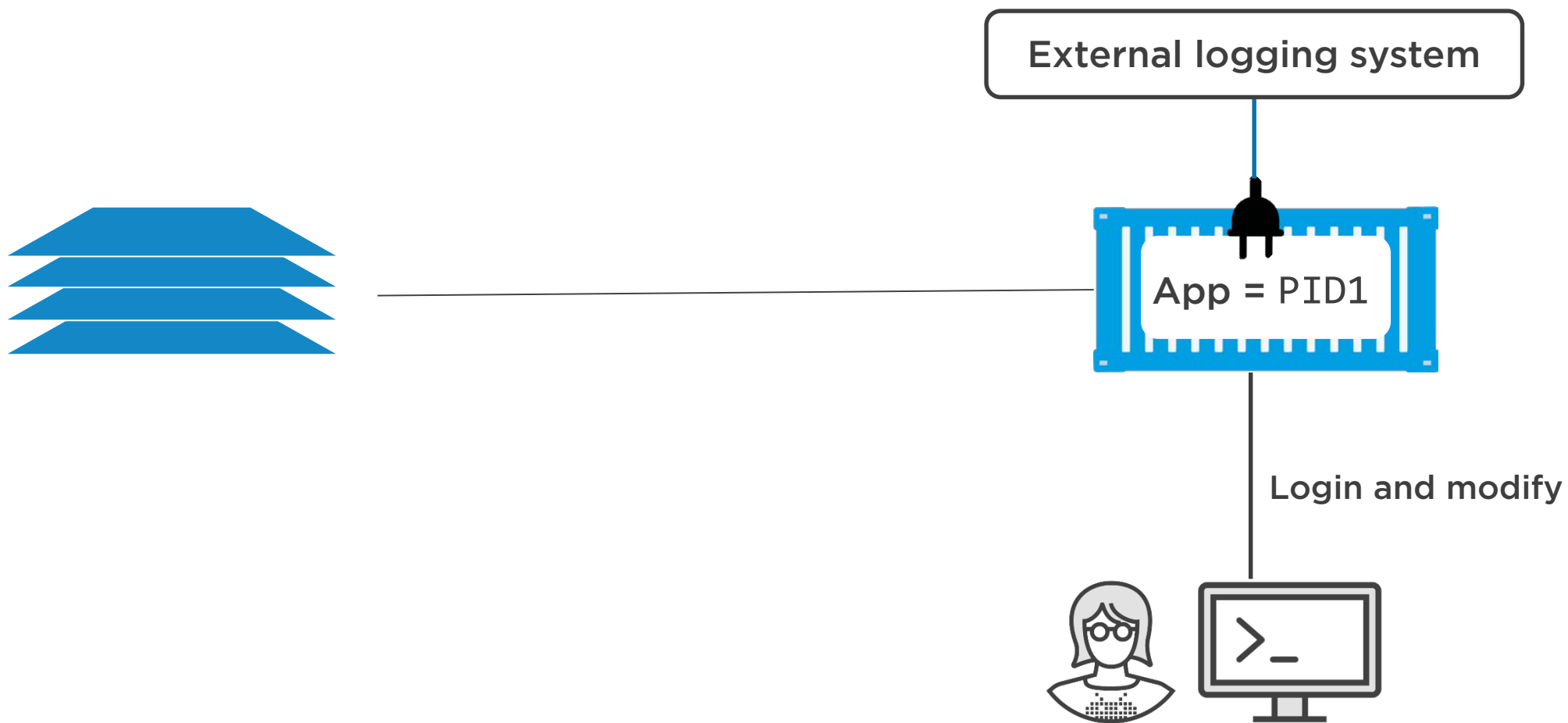




Read-only

Read/write





Coming up

NEXT MODULE

Docker Swarm

... with a hint of Kubernetes

