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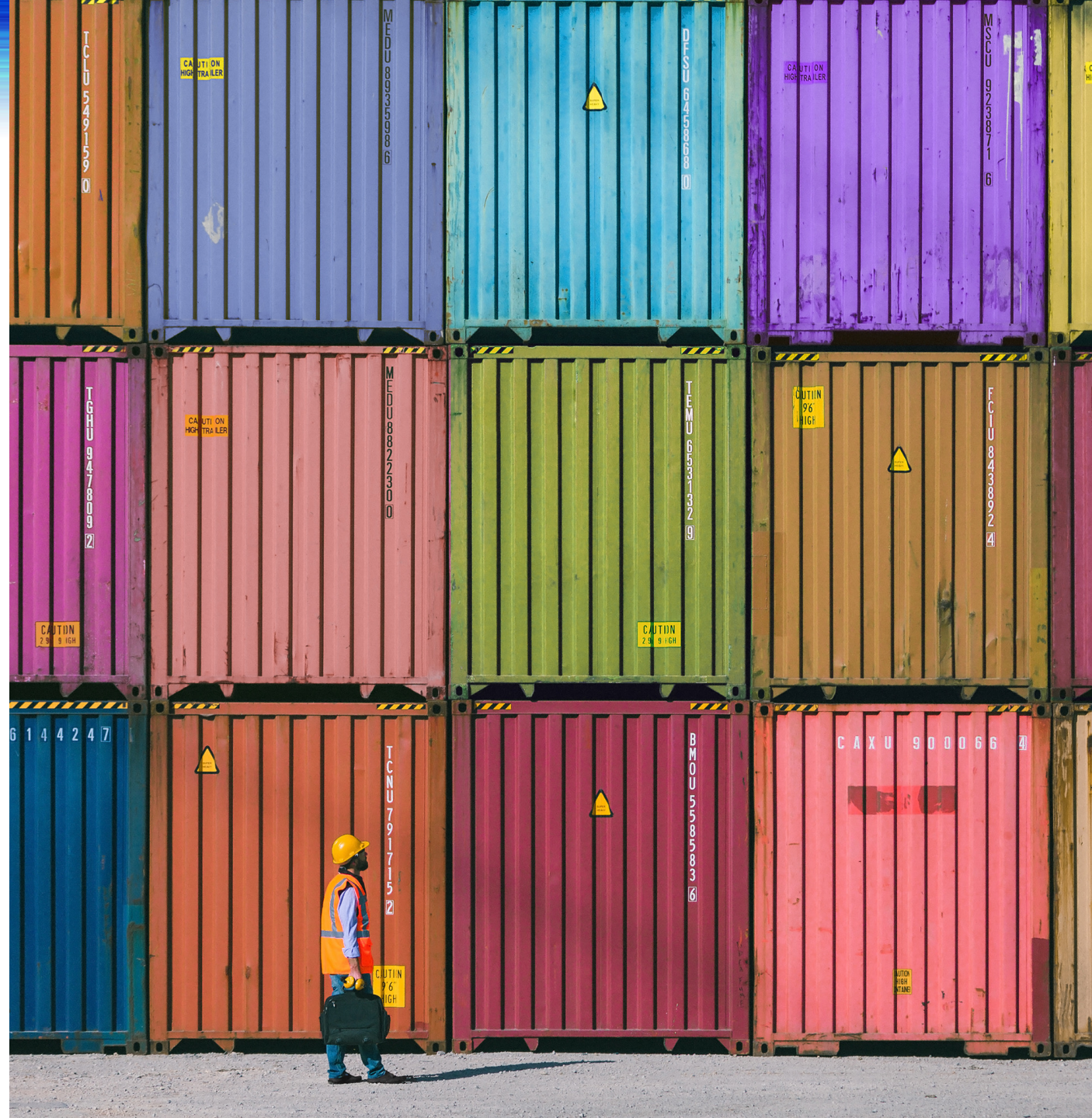
01 JANUARY 2023

Container Basics

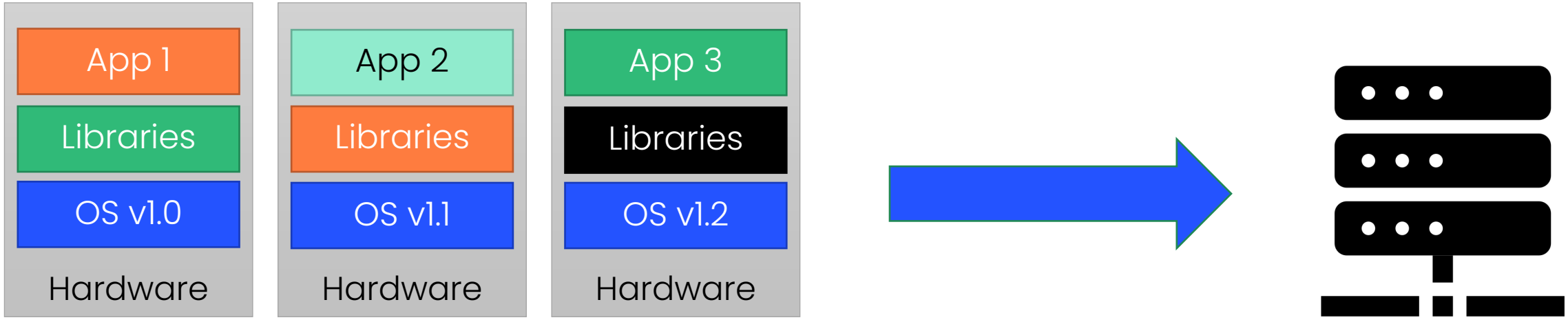
What is a Container?

Agenda

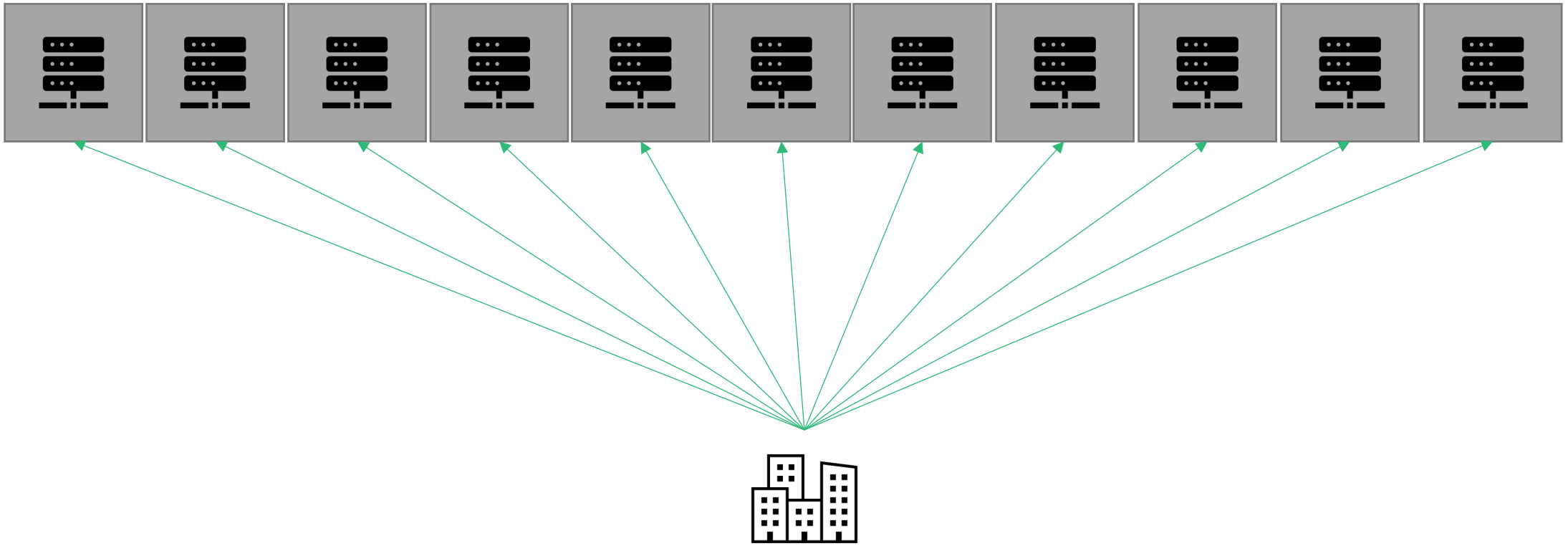
1. Evolution of infrastructure
2. What is a container?
3. Container versus VM
4. Container versus process



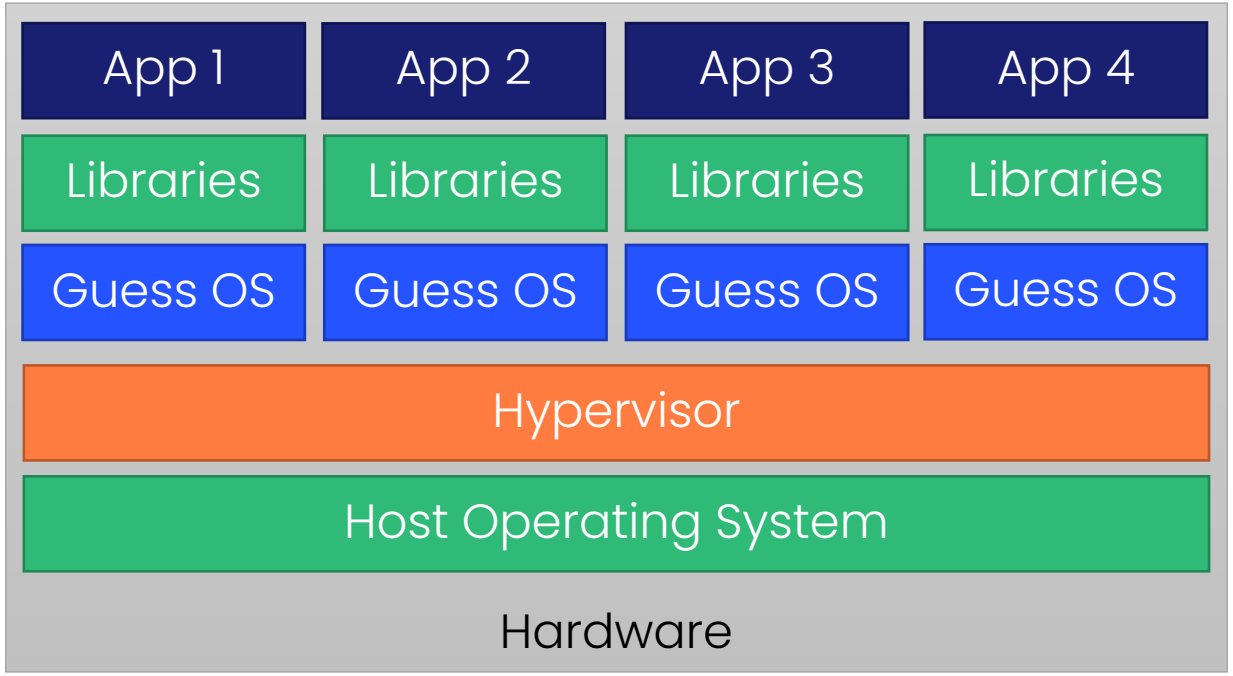
Evolution of Infrastructure

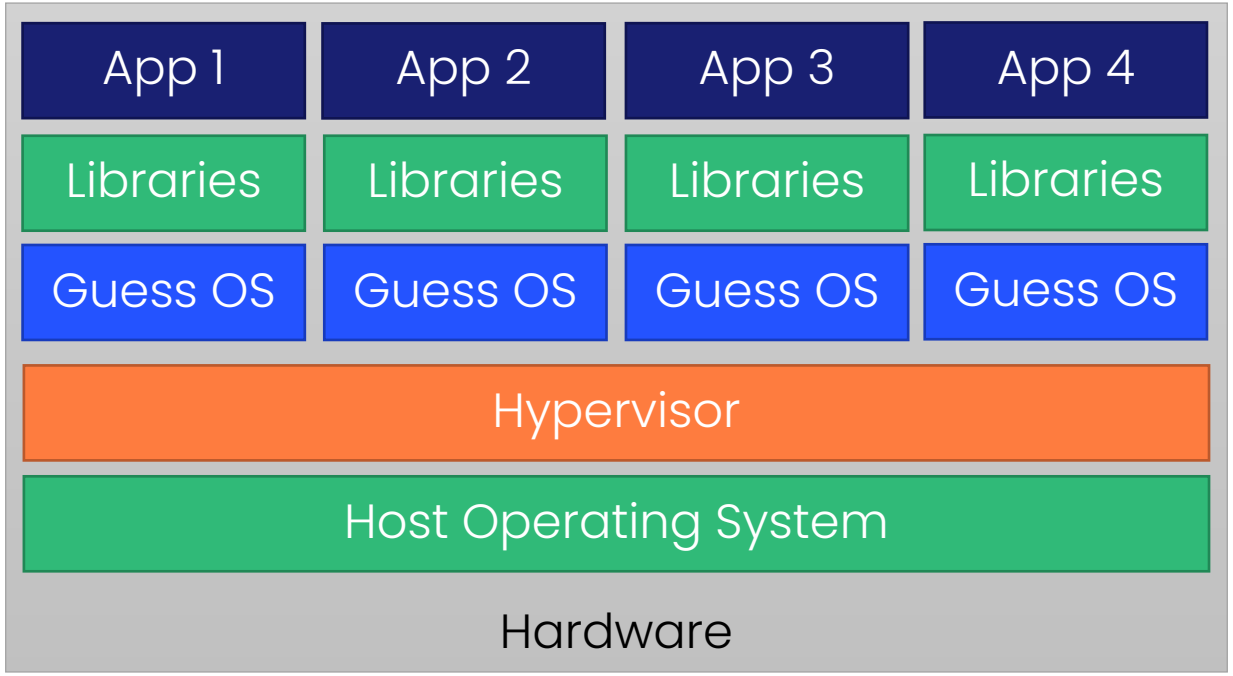


Evolution of Infrastructure

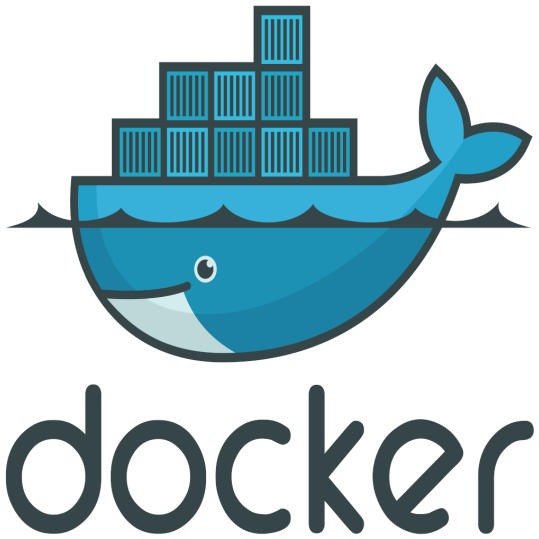


Evolution of Infrastructure





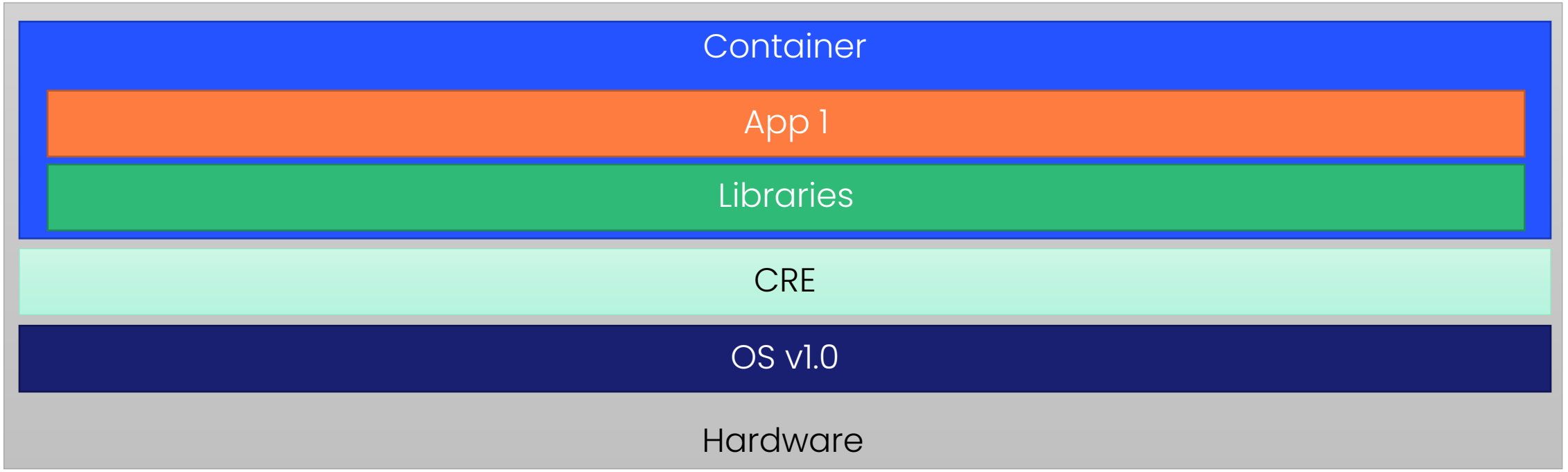
Containerization



Containerization technology

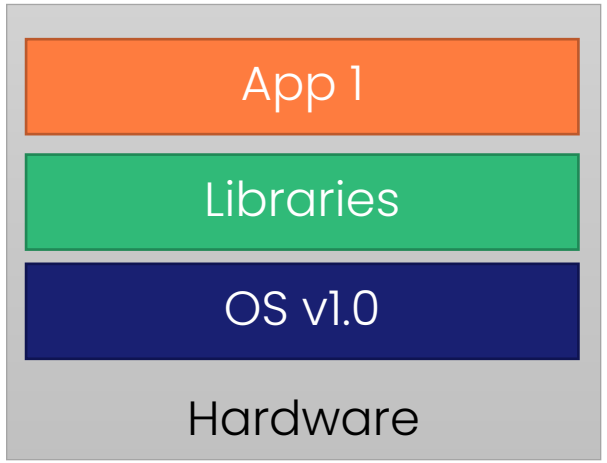
“A container is a standard unit of software packaging all the necessary elements for an application to run anywhere.”

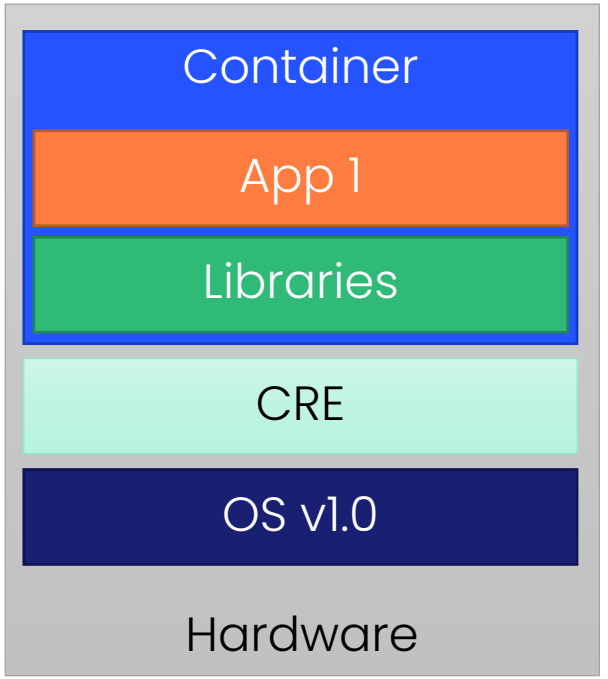
Containerization



Containers = VMs?

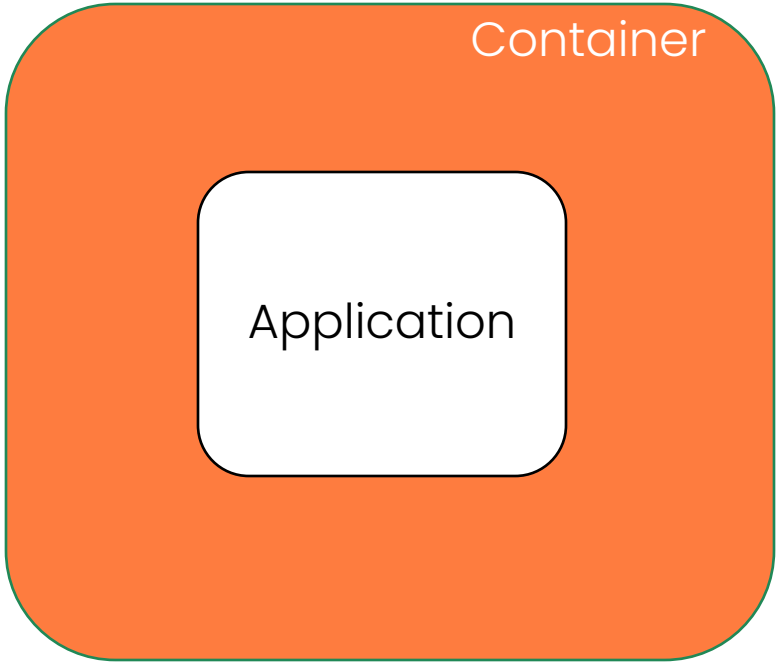
VM v/s containers



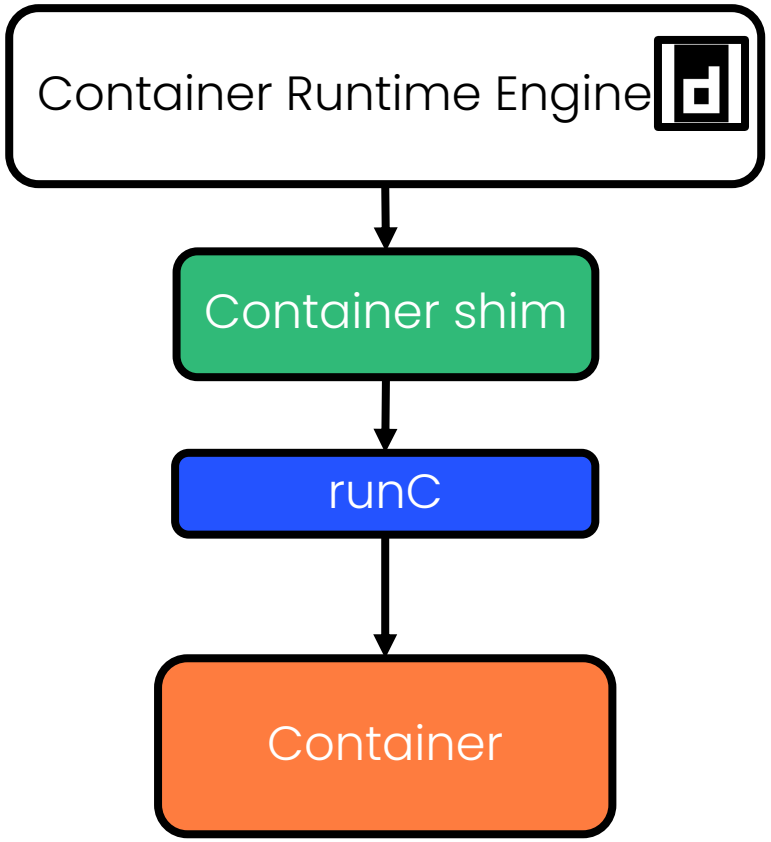


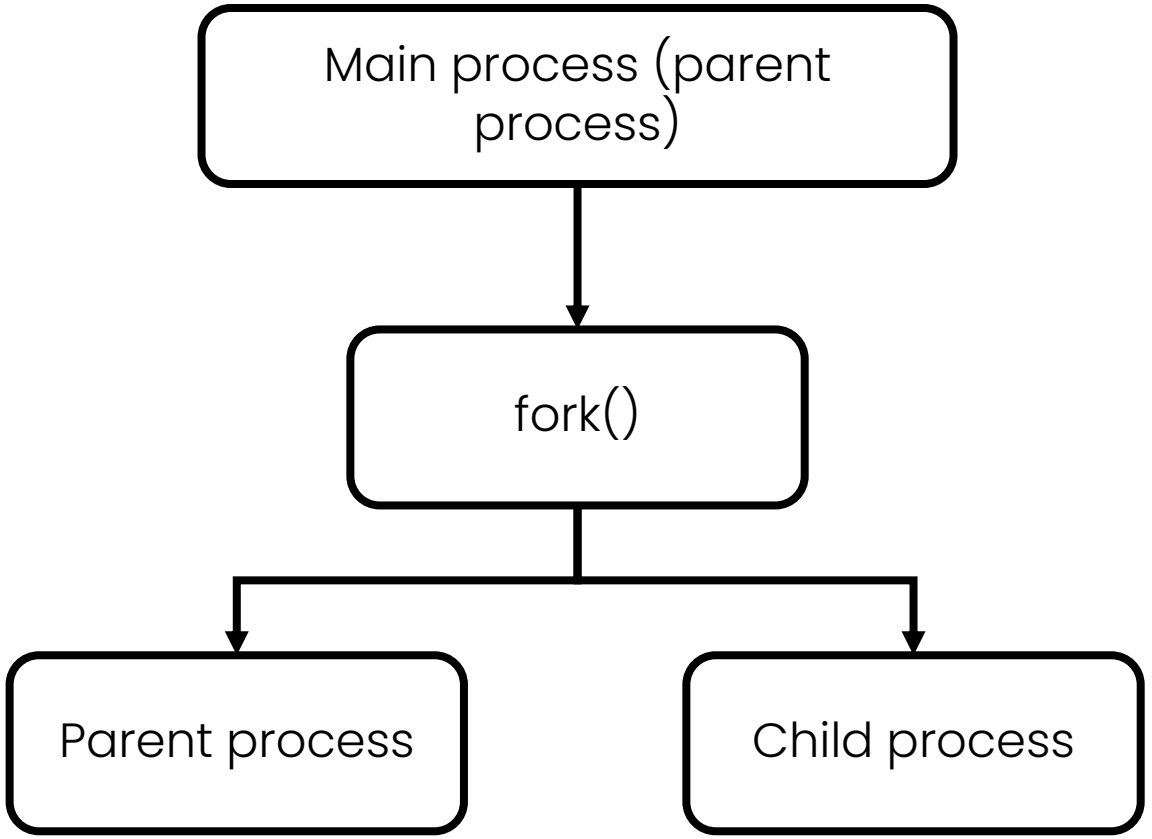
Containers = Process?

Containers v/s processes



Containers v/s processes





Containers v/s processes

- Containers
  - Same kernel
  - Same/different distribution as the host
  - Isolation type: namespaces & cgroups
- Processes
  - Same kernel
  - Same distribution as the host
  - Isolation type: User privileges & memory space

“A container is neither like a VM or a process.”

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Thank you

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