

Confidential Computing on Kubernetes Workshop

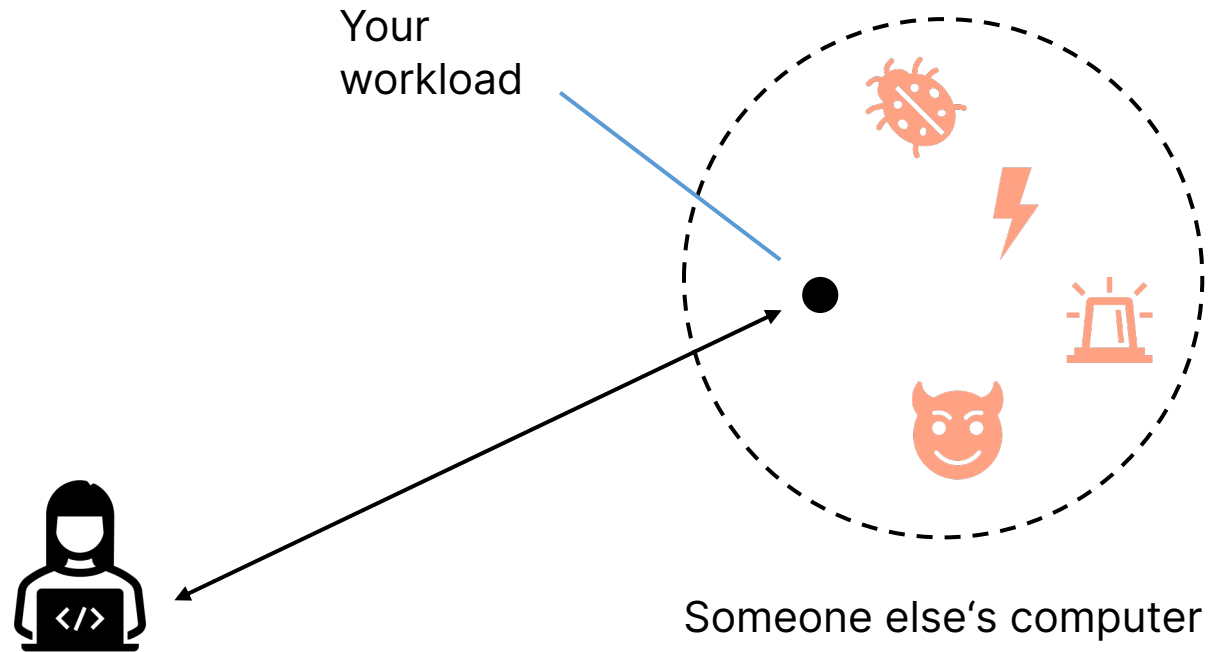
01.08.2024

Kubesimplify

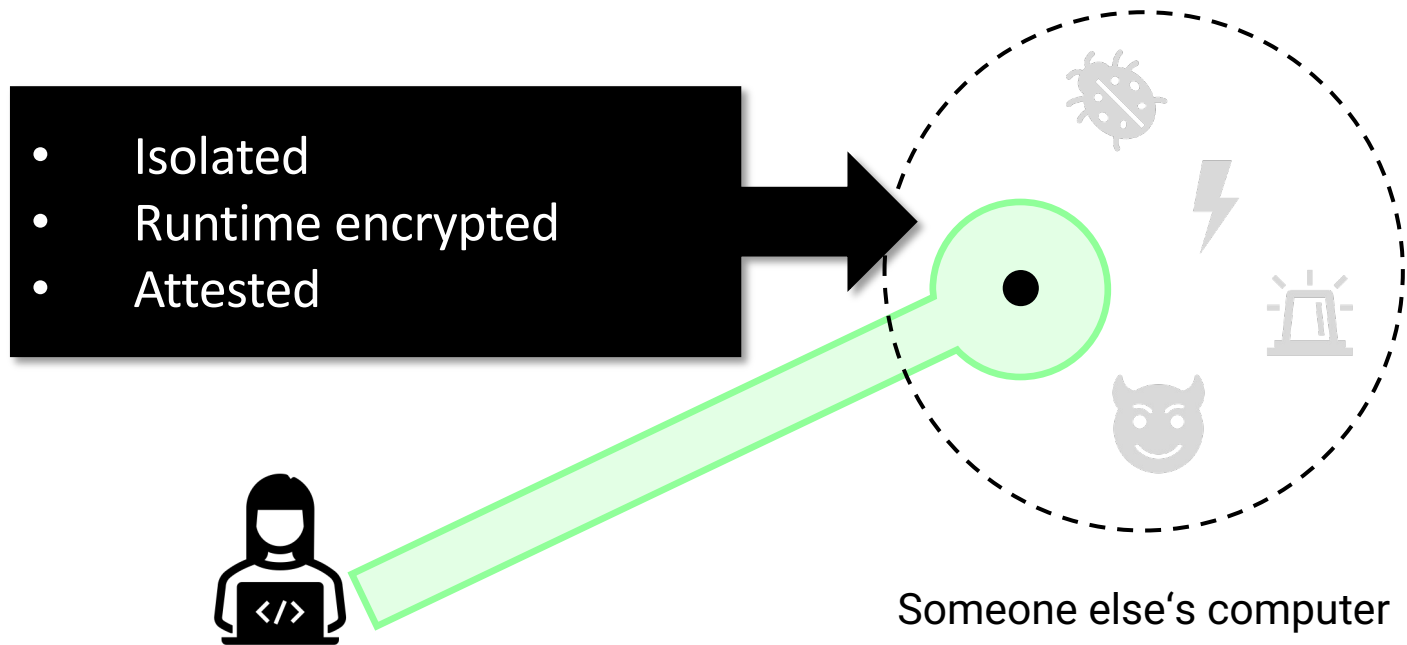
01

Confidential Computing

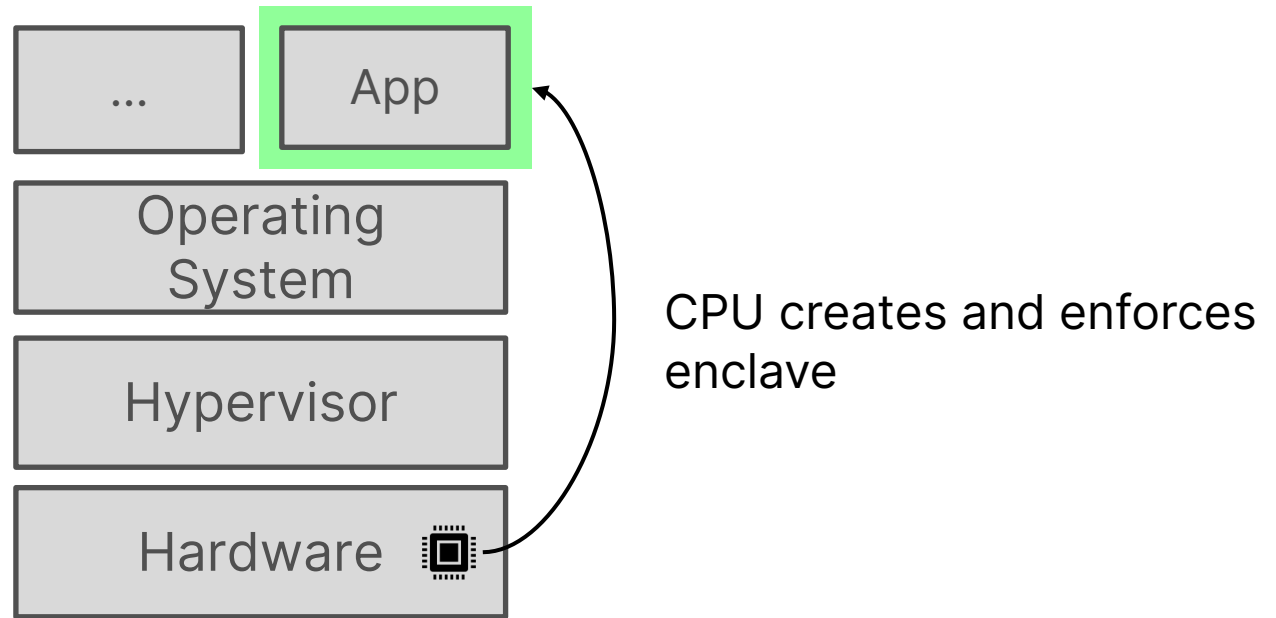
What is confidential computing?



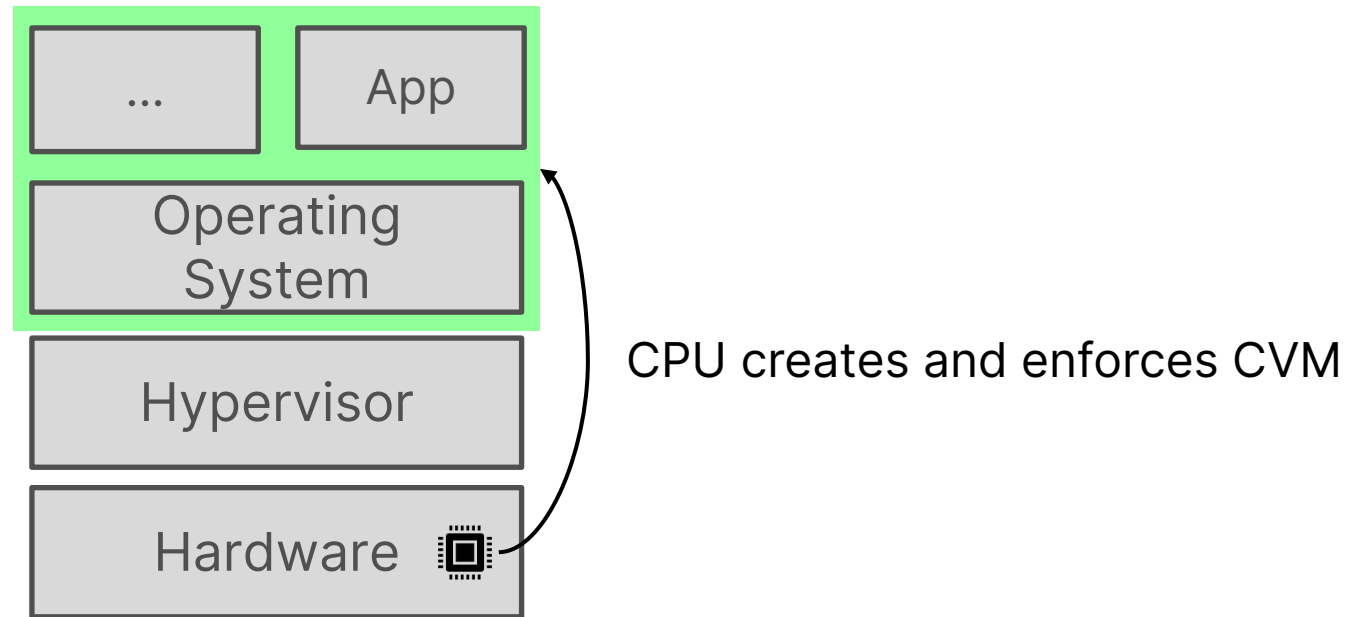
What is confidential computing?



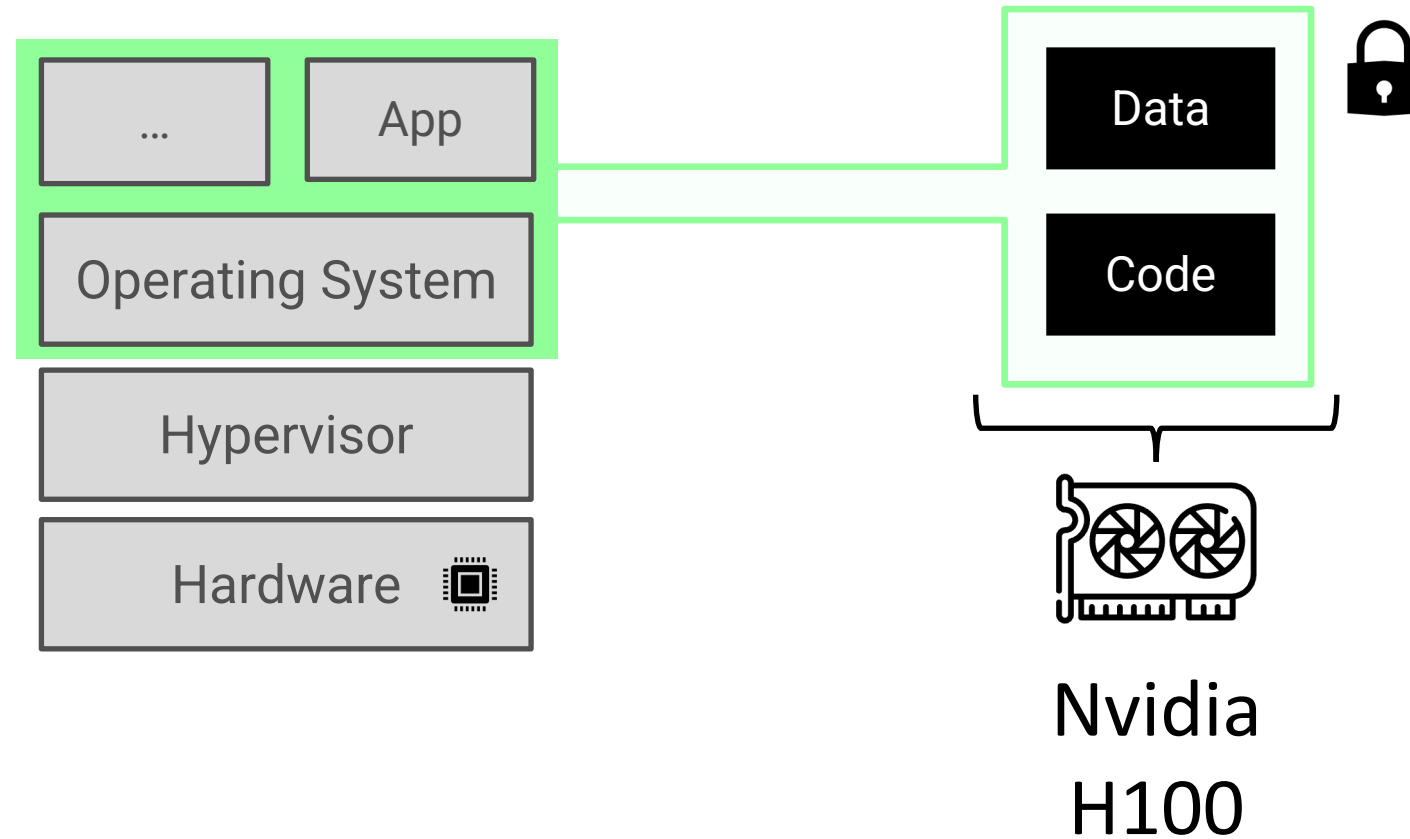
Secure Enclaves



Confidential VMs

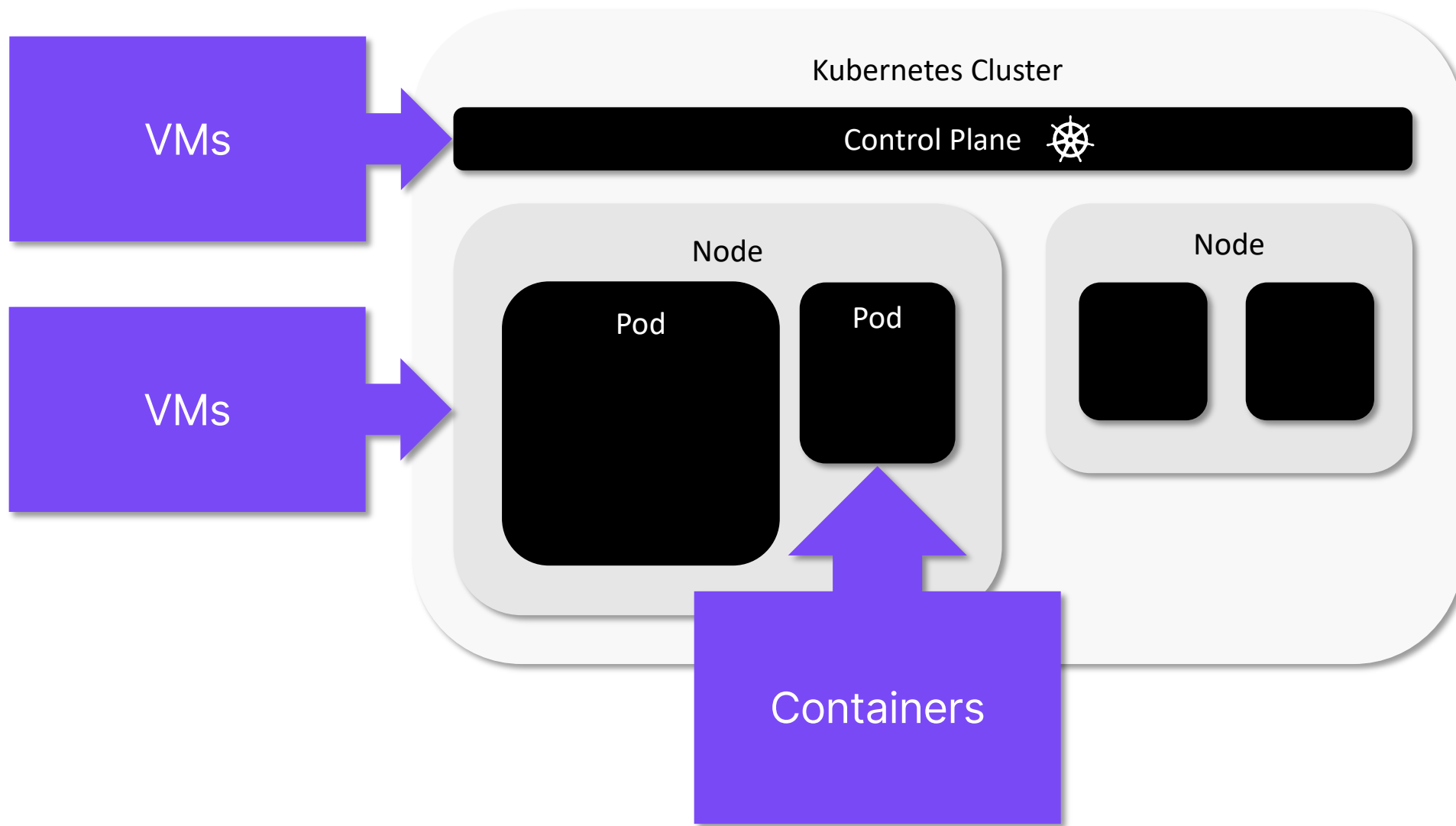


Confidential Accelerators

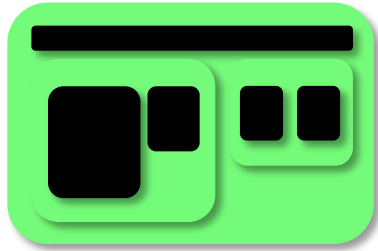


02

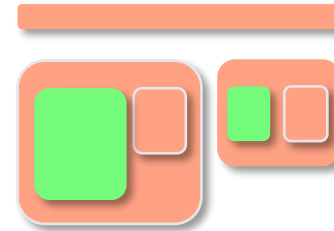
Confidential Containers



Confidential cloud native spectrum

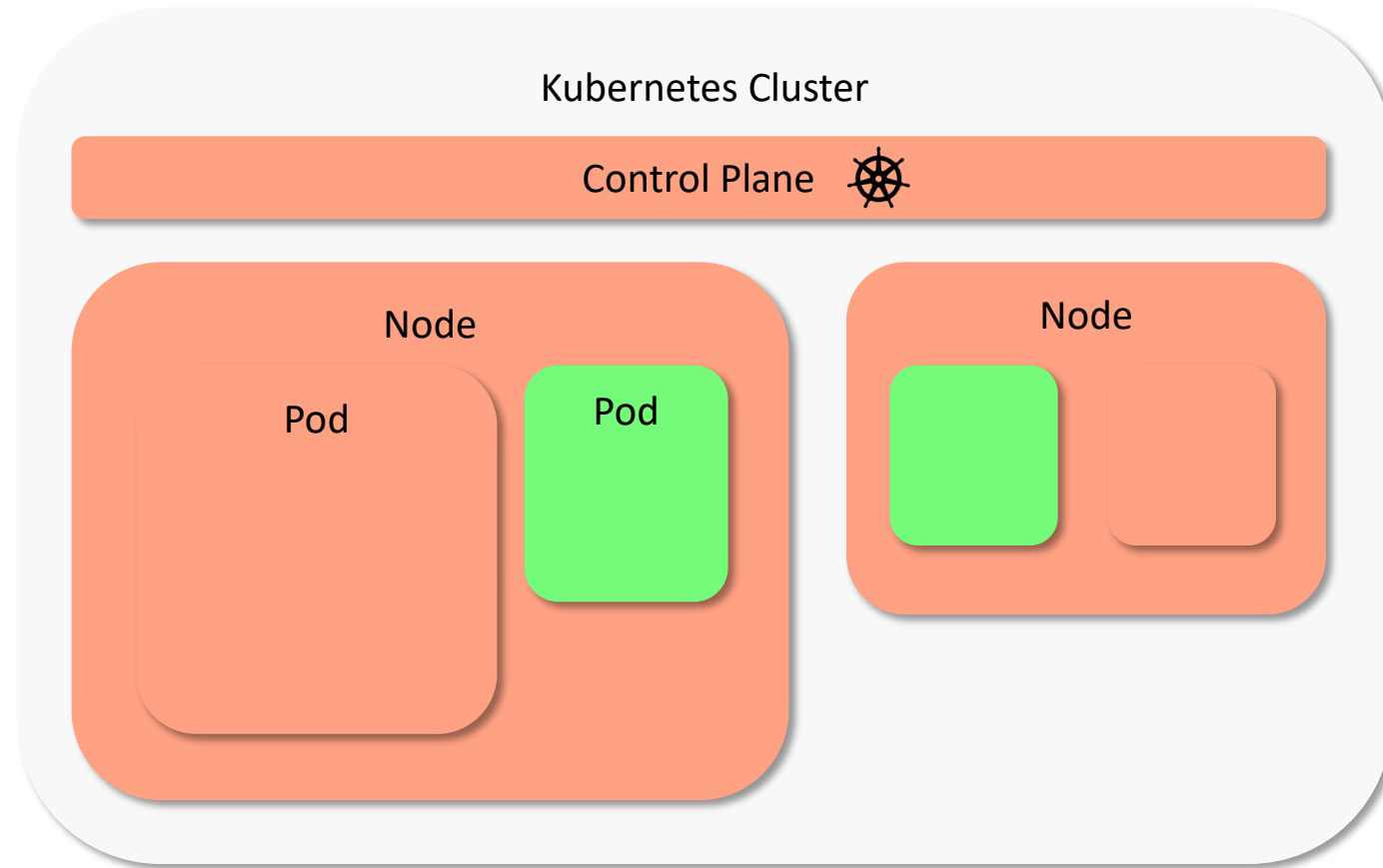


Confidential Cluster: K8s
Nodes in CVMs

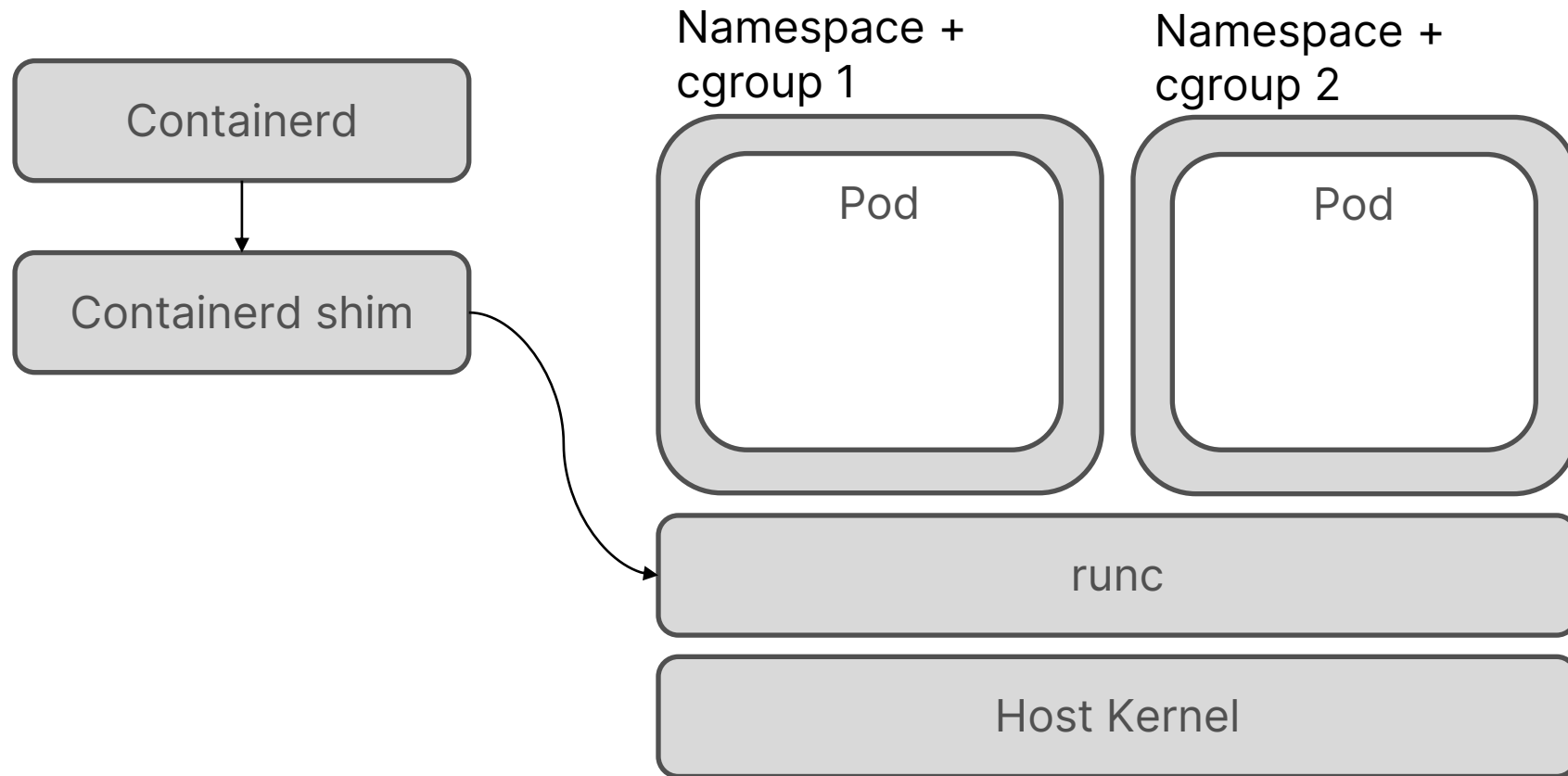


Confidential Containers:
K8s Pods in CVMs

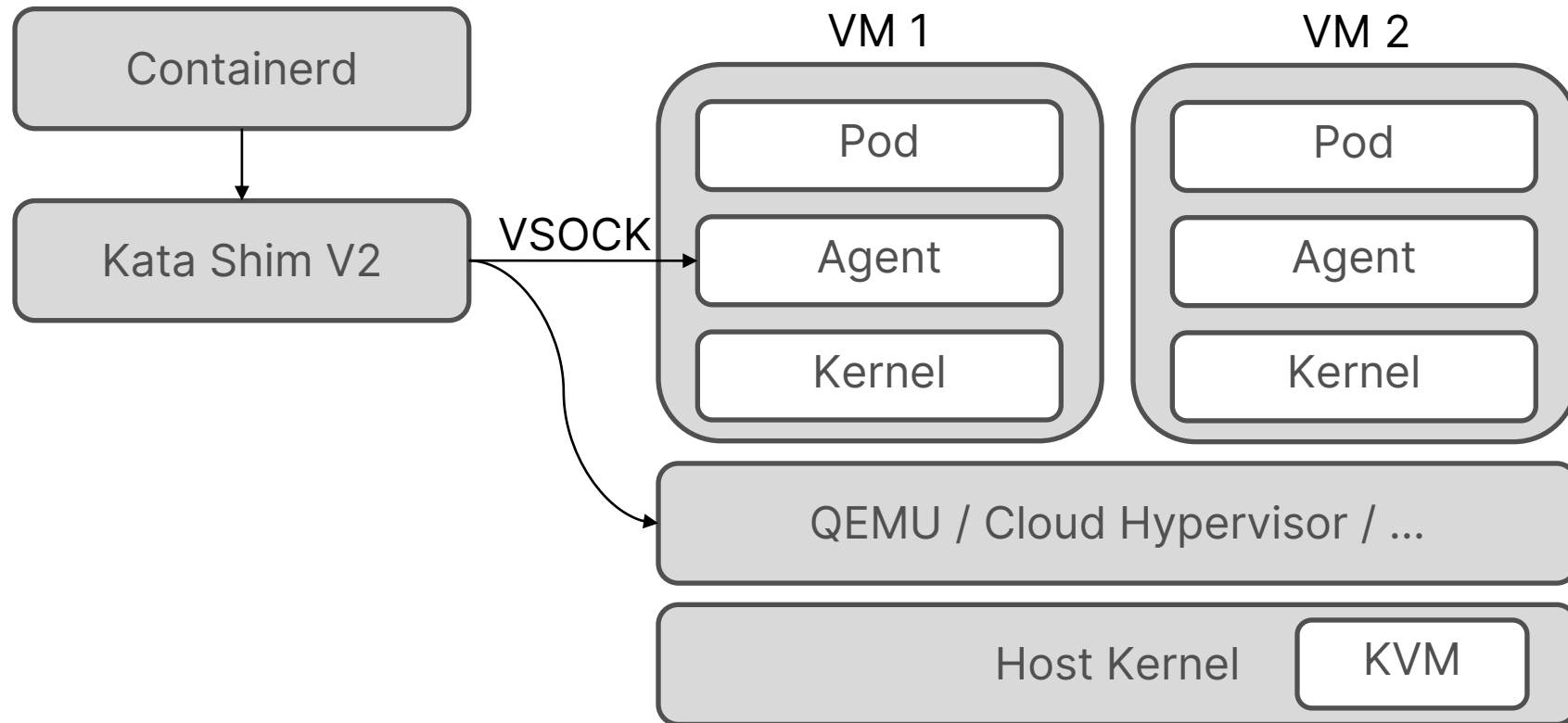
Confidential containers



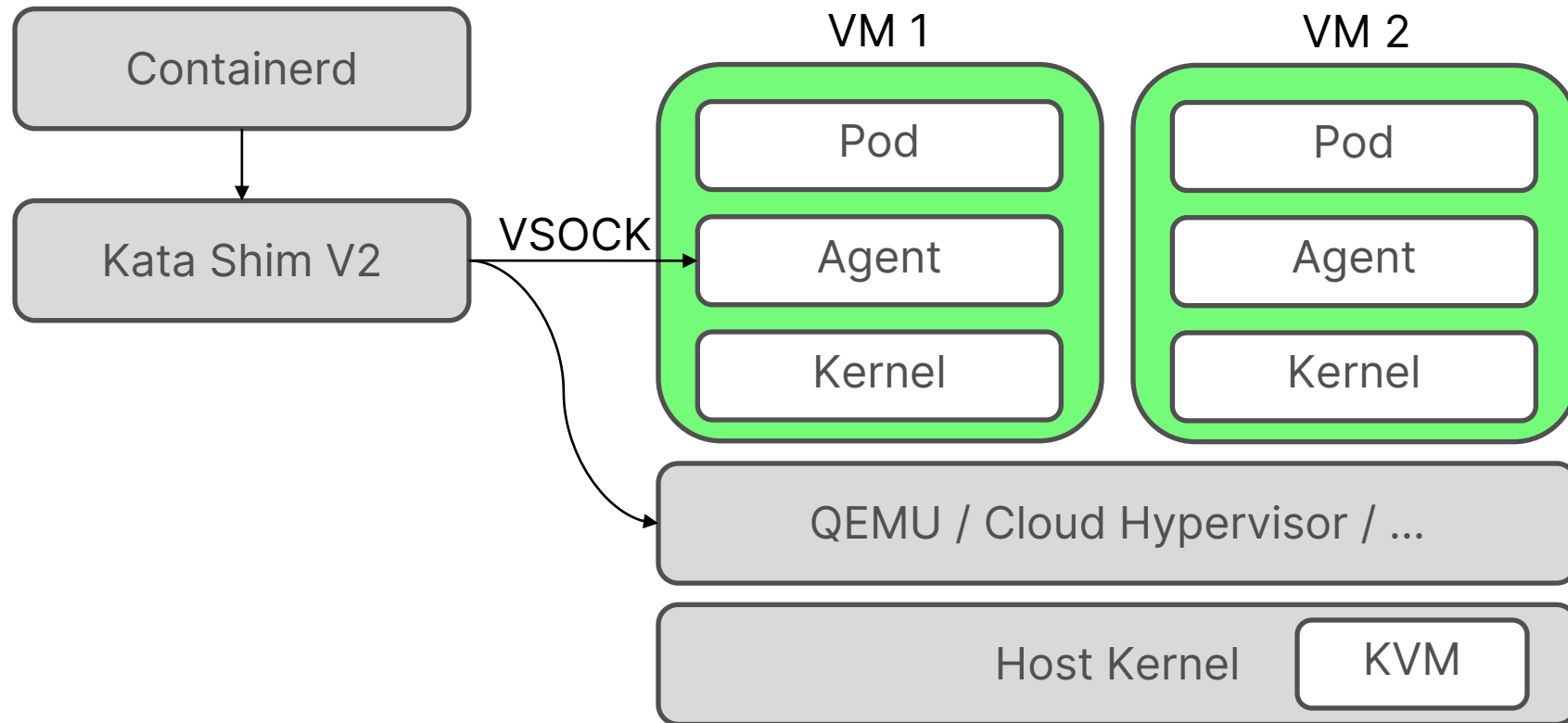
Regular Containers



Kata Containers



Confidential Containers



**CONFIDENTIAL
CONTAINERS**

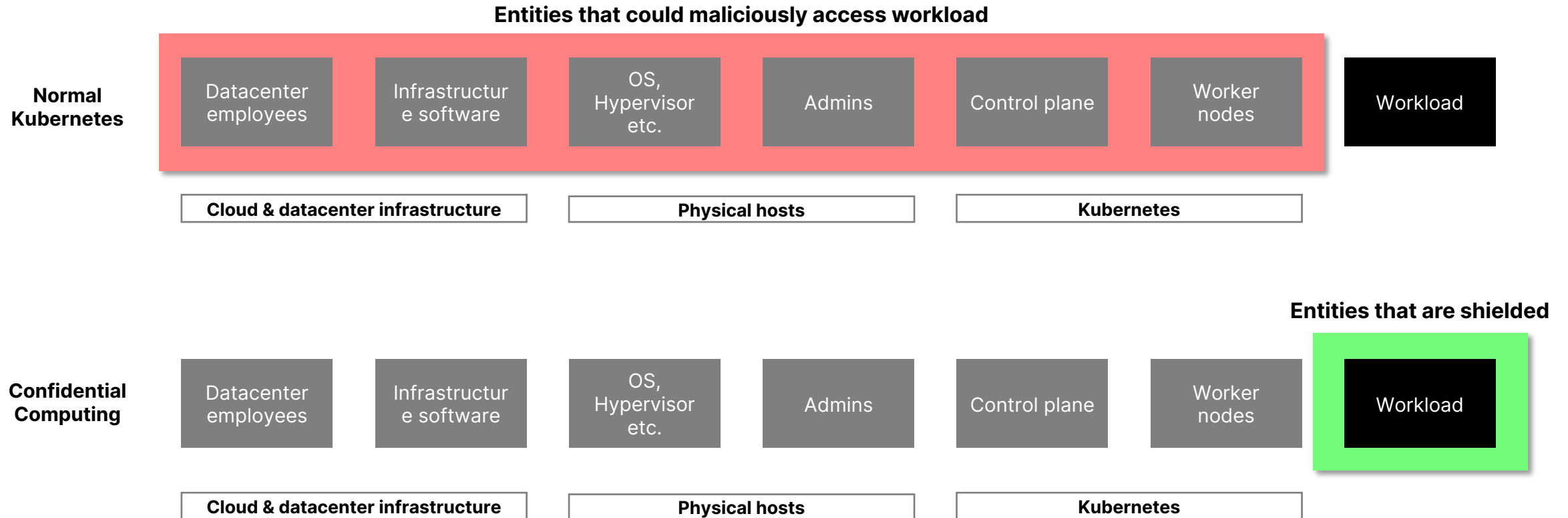
Confidential Containers

- CNCF Sandbox Project
- Kubernetes Container Runtime
- Supports AMD SEV, Intel TDX, IBM Z SE, NVIDIA H100
- Available on bare-metal, nested CVMs, or via remote hypervisor (Peerpod)



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CONTAINERS**

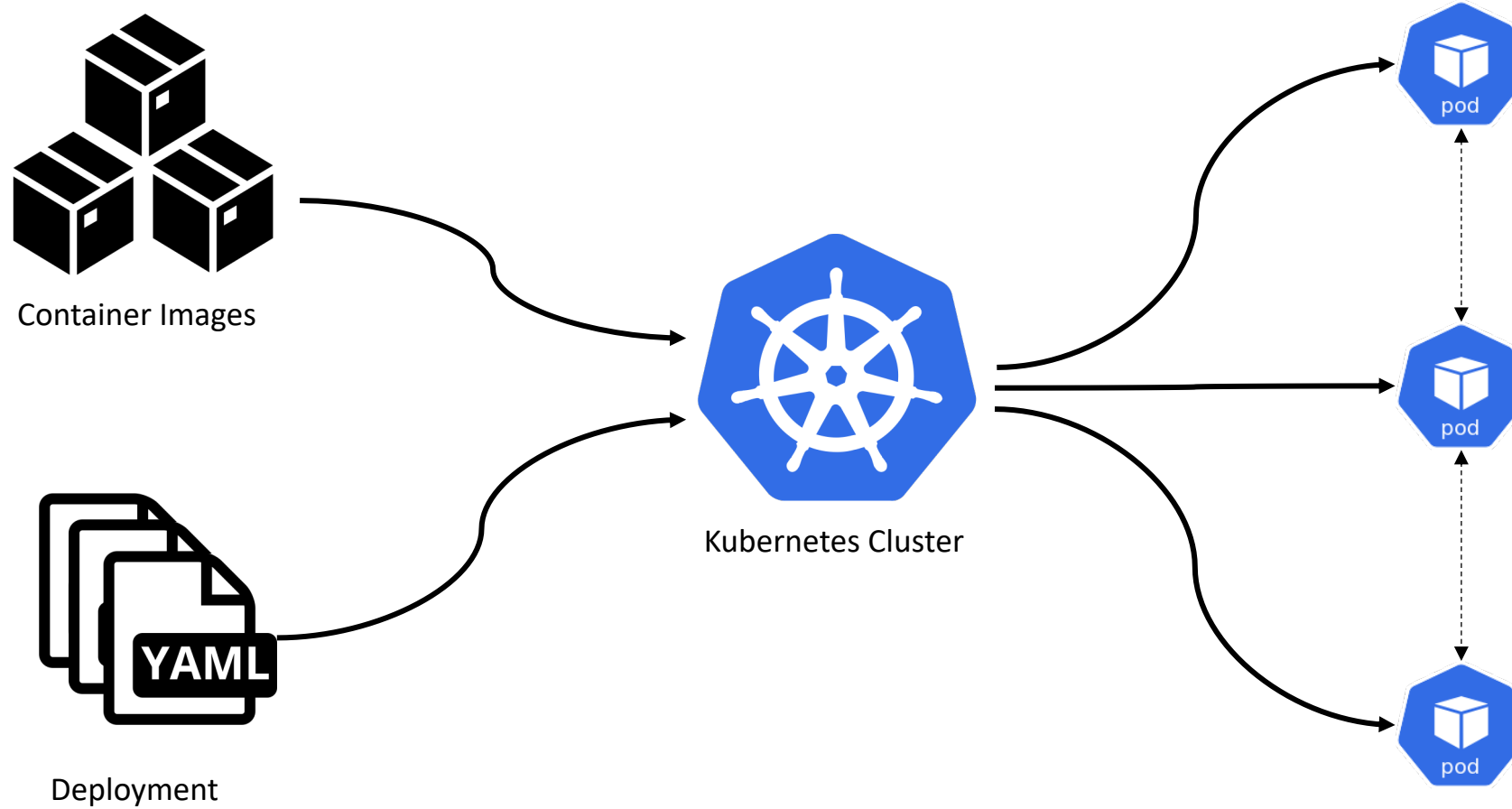
Threat model



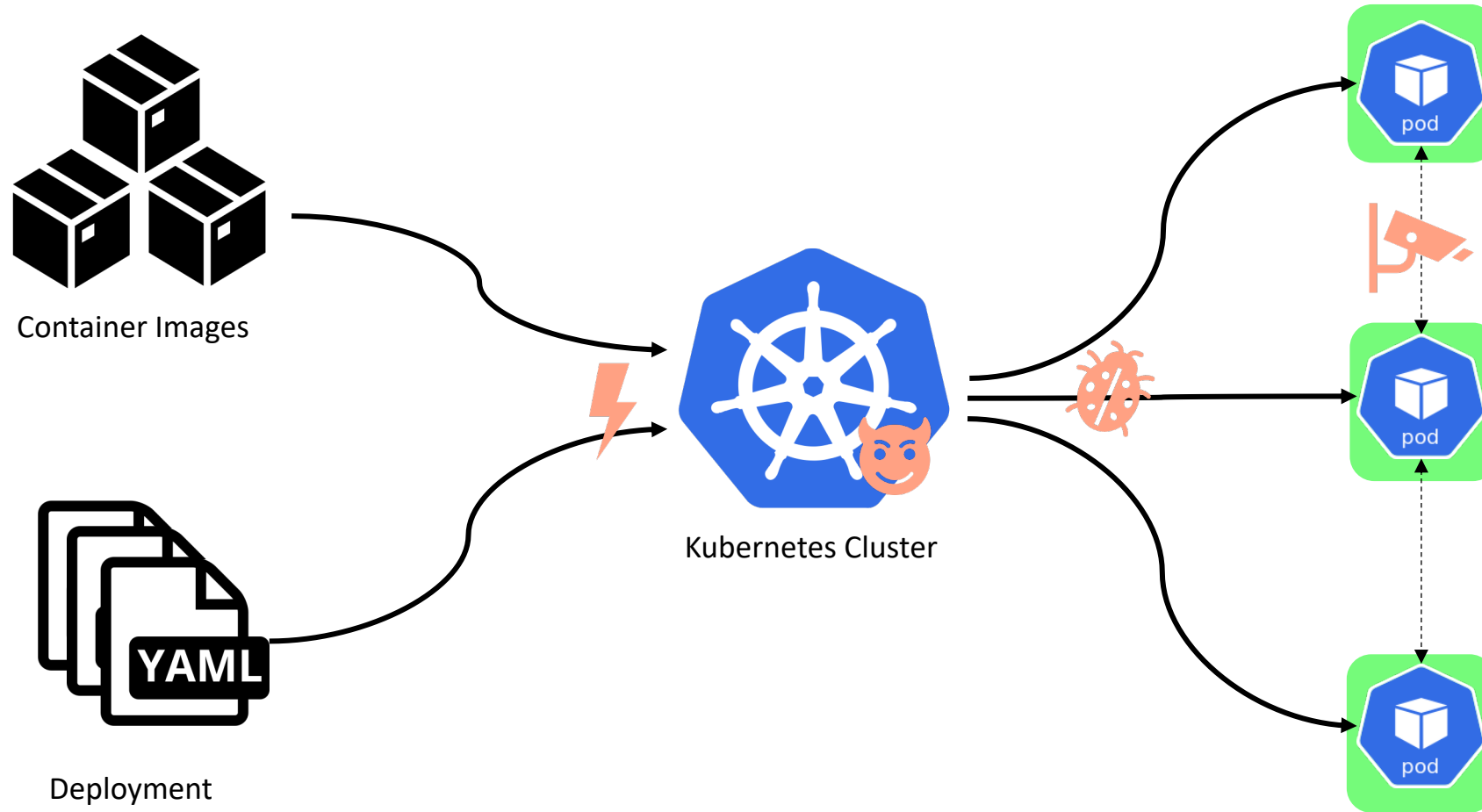
03

Remaining Challenges

K8s deployment



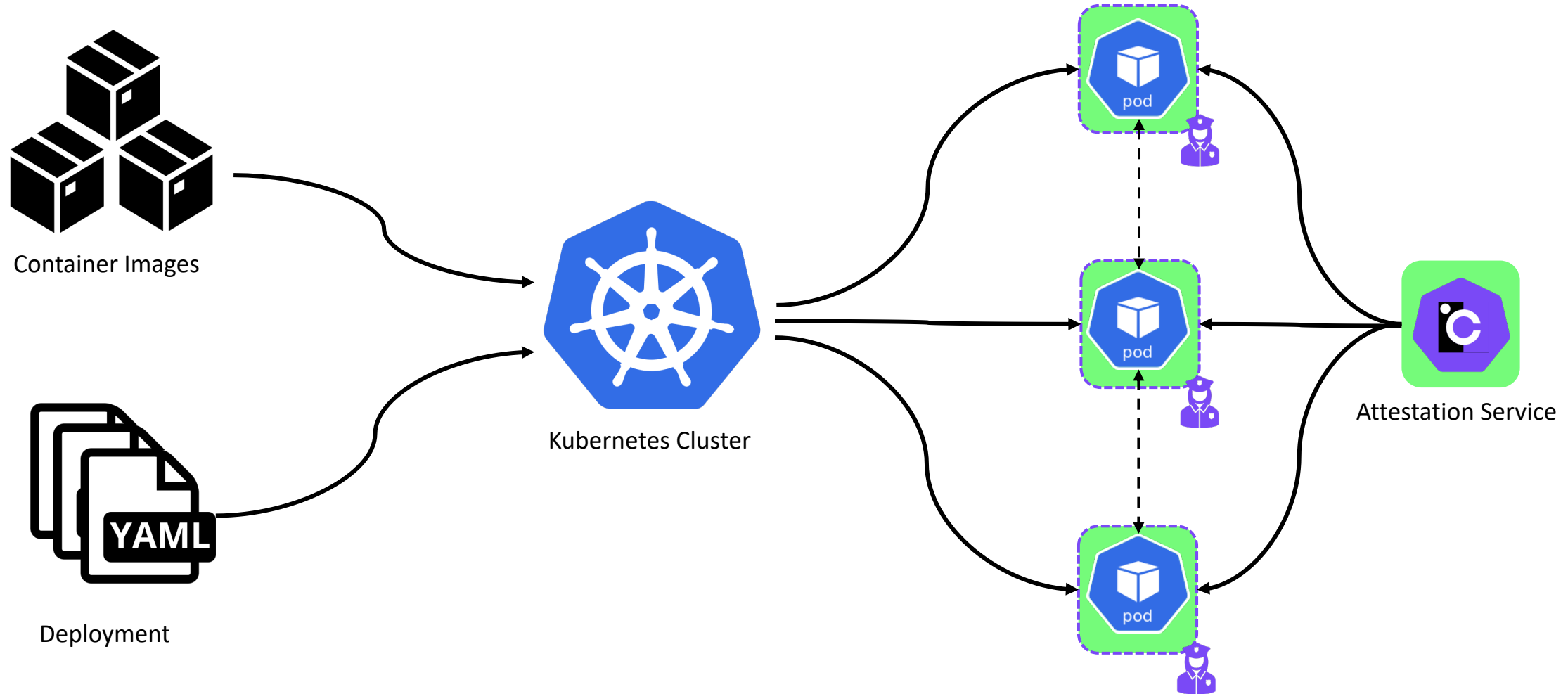
Confidential K8s deployment



04

Contrast

Contrast



Contrast details

