



Introduction Kata containers



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Agenda

- 
- ❖ Virtualization
 - ❖ Kata containers
 - ❖ Demo
 - ❖ Diskusi



Virtualization

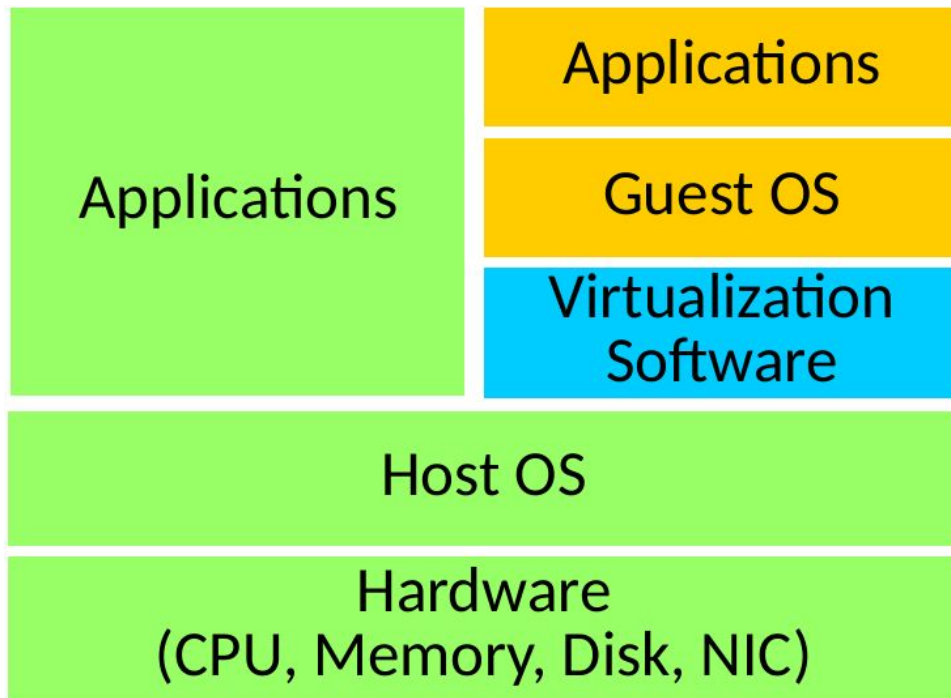
Sebelum Ada virtualisasi langsung pada baremetal

Tipe Virtualisasi :

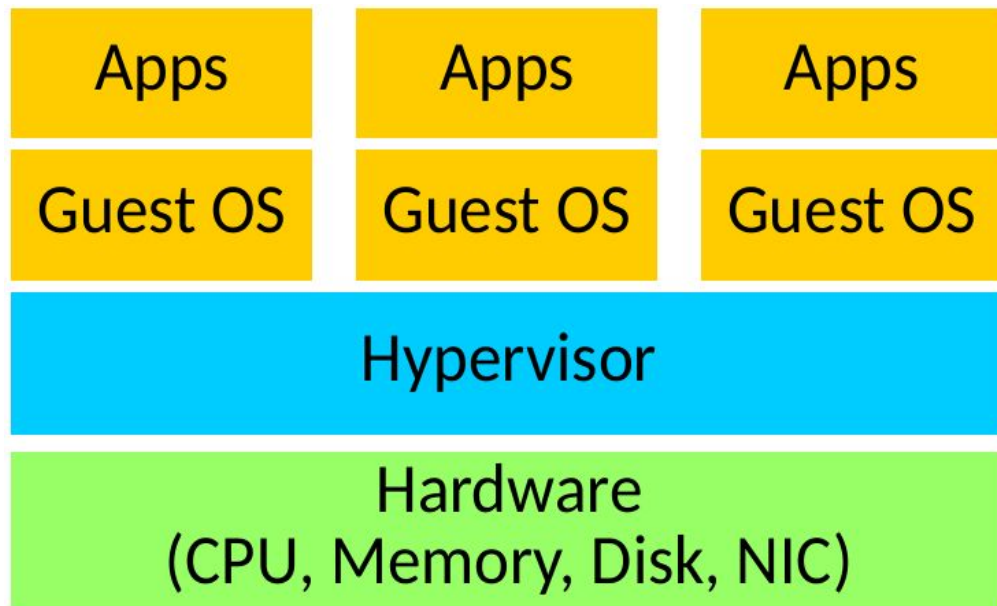
- Hardware level :
 - Full Virtualization: Oracle VirtualBox, VMWare Workstation, Qemu
 - Bare Metal Virtualization: RedHat KVM, Citrix Xen, VMWare Vsphere, Microsoft HyperV
- Operating system level : OpenVZ, LXC, Solaris Containers
- Application Level : Docker, rkt



Full Virtualization

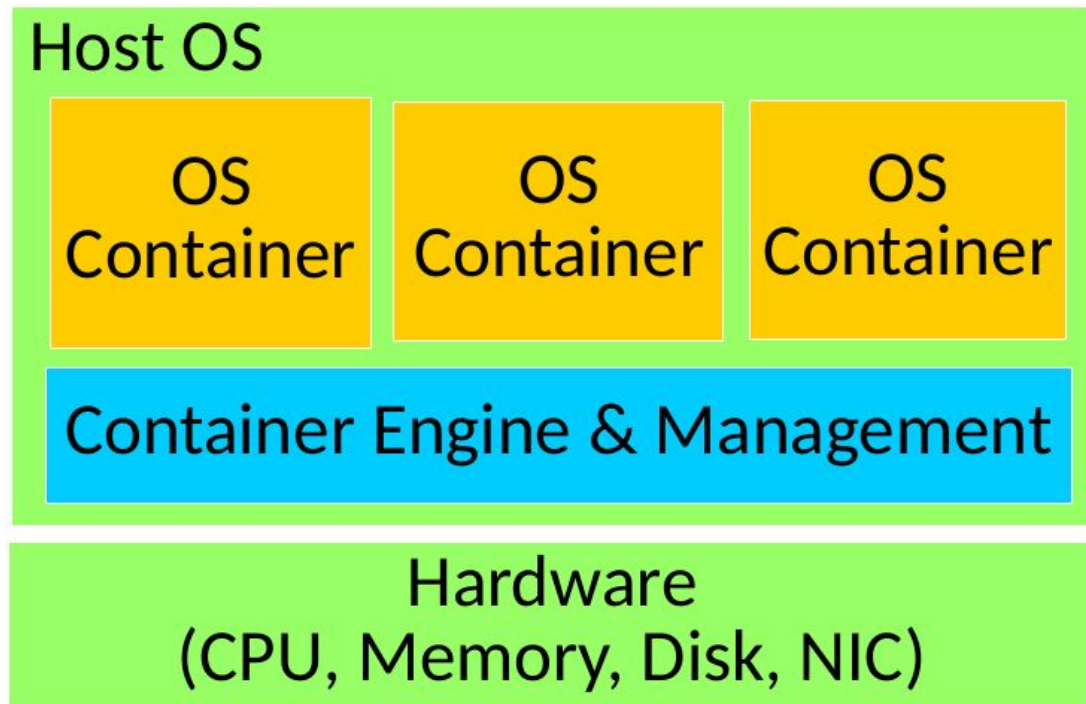


Bare metal Virtualization

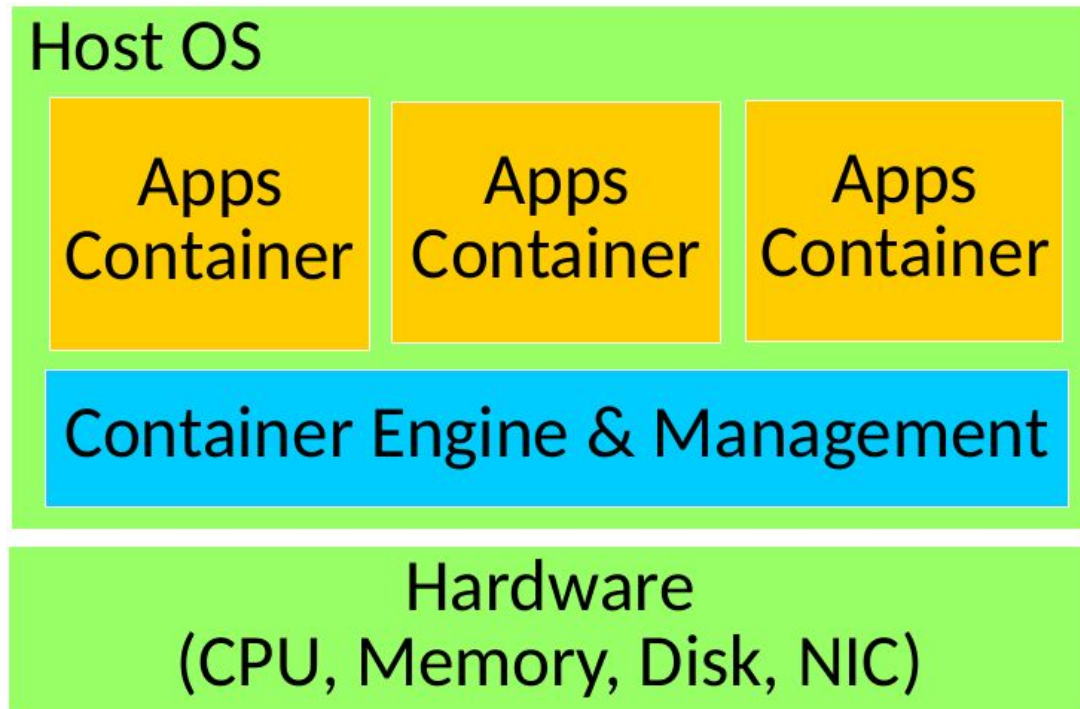




OS Container




Application Container

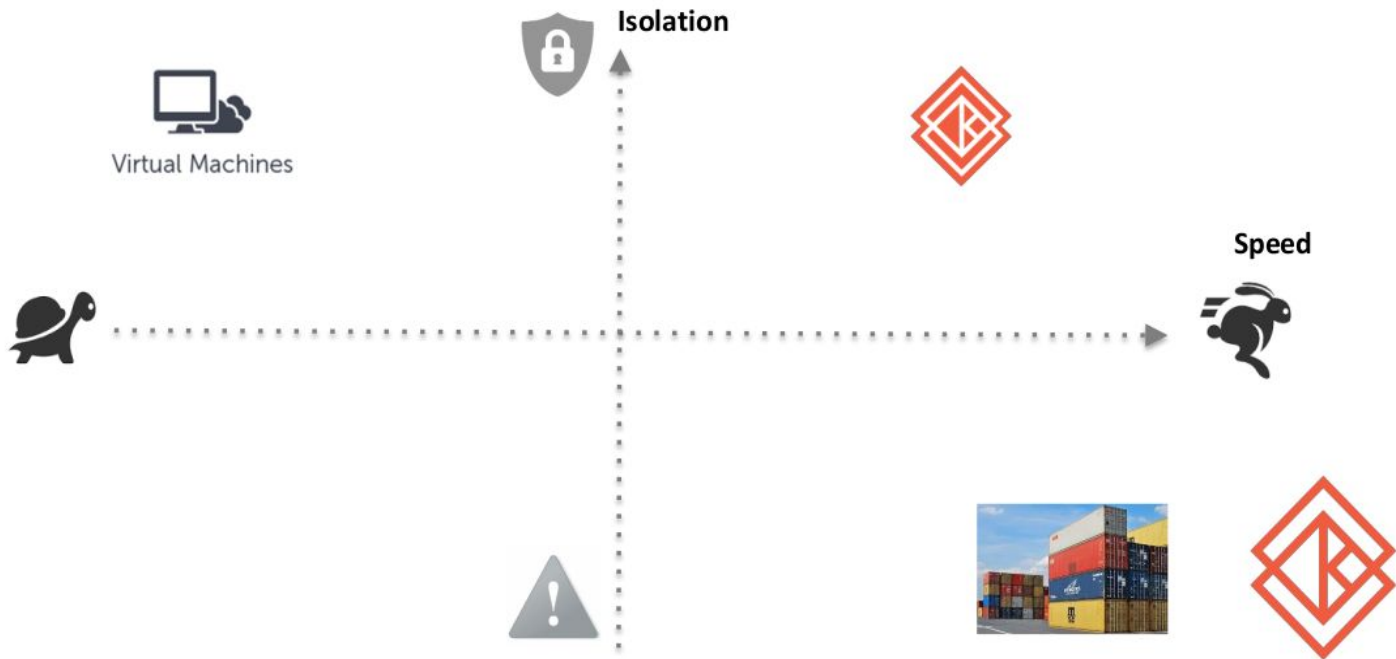




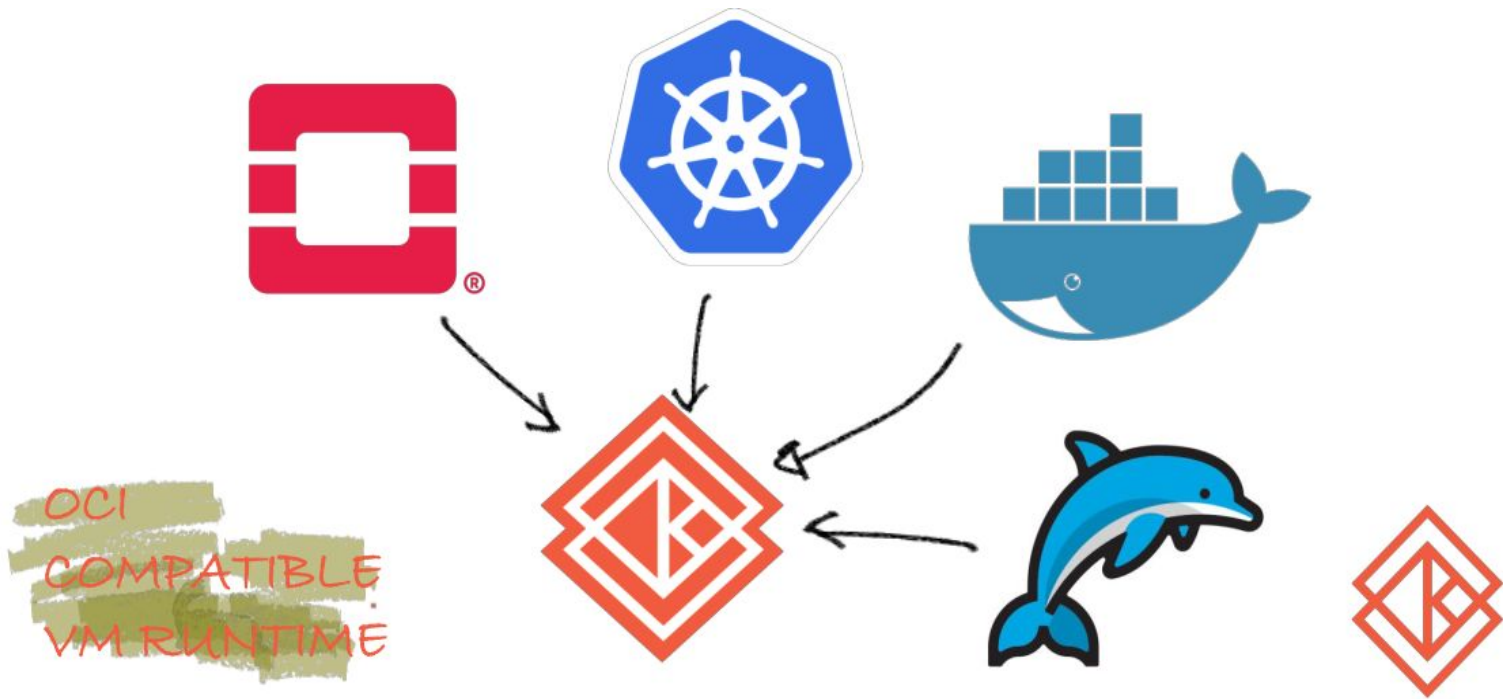
Kata Containers

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- Open source project hosted by the OpenStack Foundation
 - Merger of two established projects which both started in 2015
 - Hyper.SH runV and Intel® Clear Containers
 - Kata Containers was officially launched in December of 2017 at KubeCon Austin
 - V1.0 released May 22 nd 2018 (OpenStack Summit in Vancouver)
 - V.1.11.4 released October 23 2020

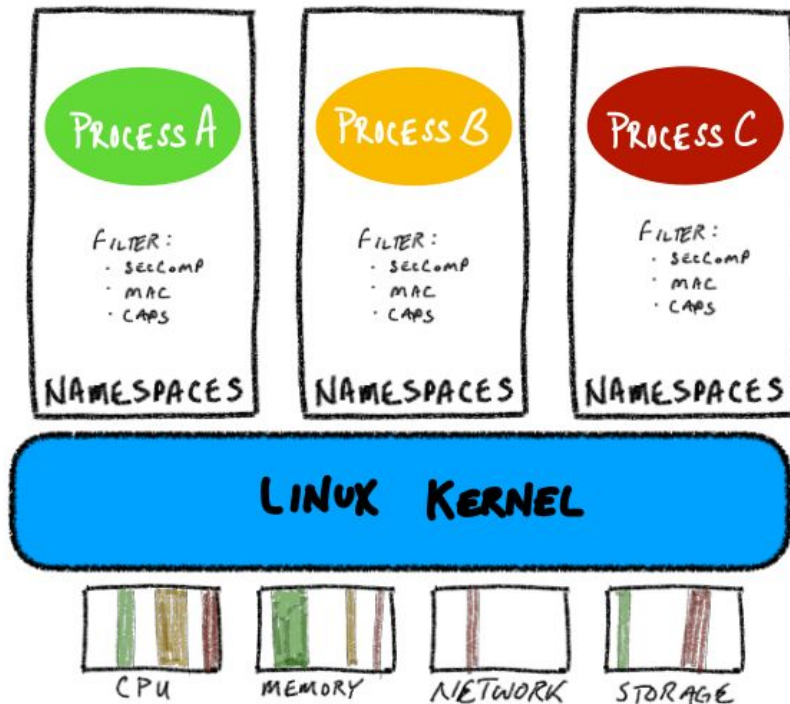
Kata Containers



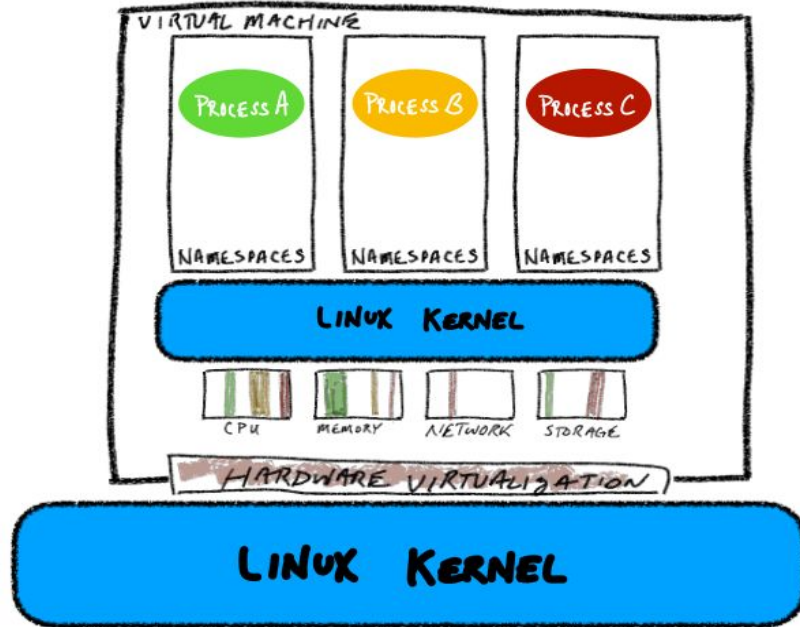
Kata Containers



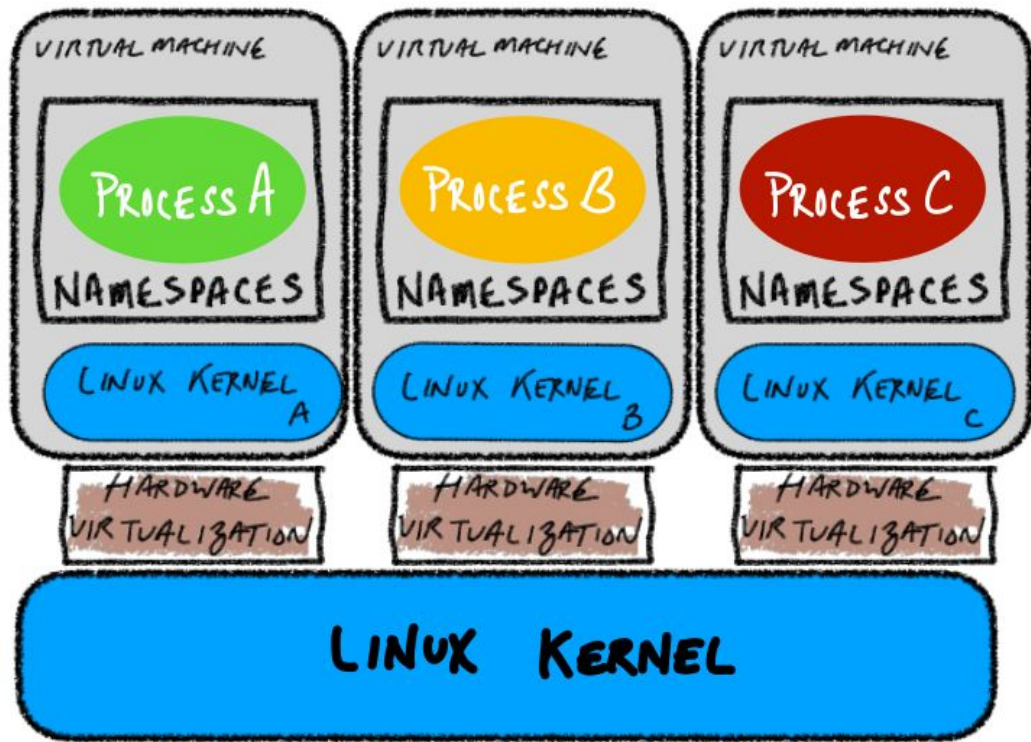
Kata Containers



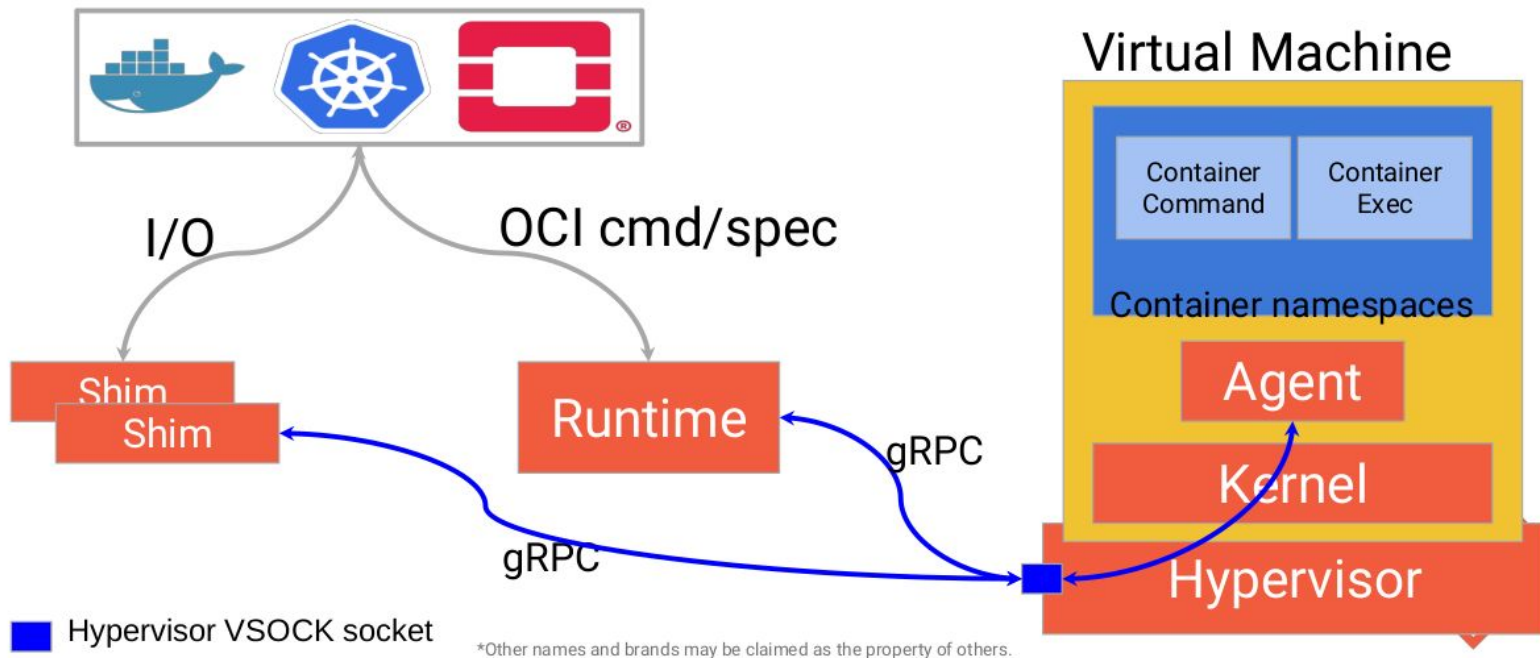
Kata Container



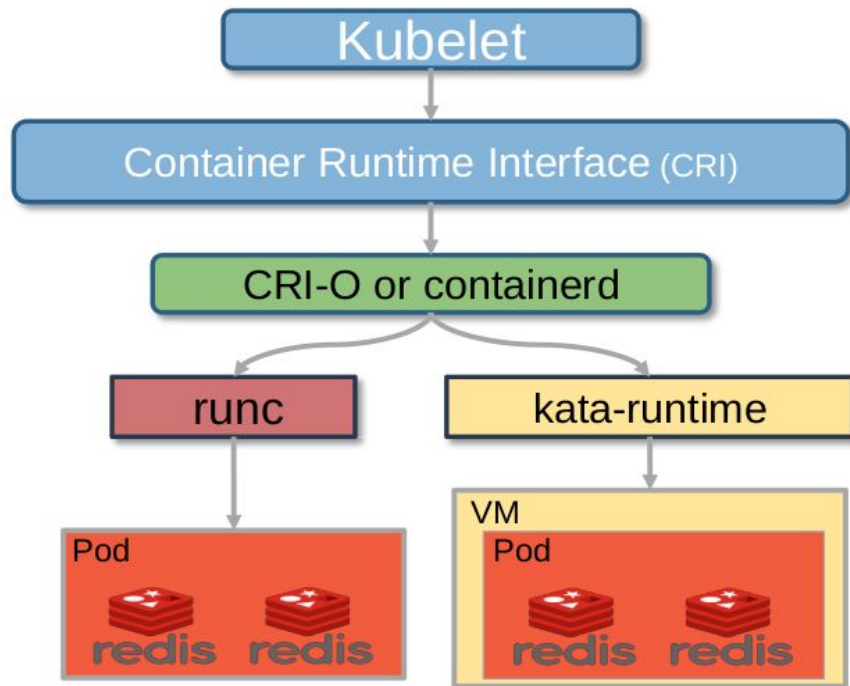
Kata Containers



Kata Containers



Kata Containers





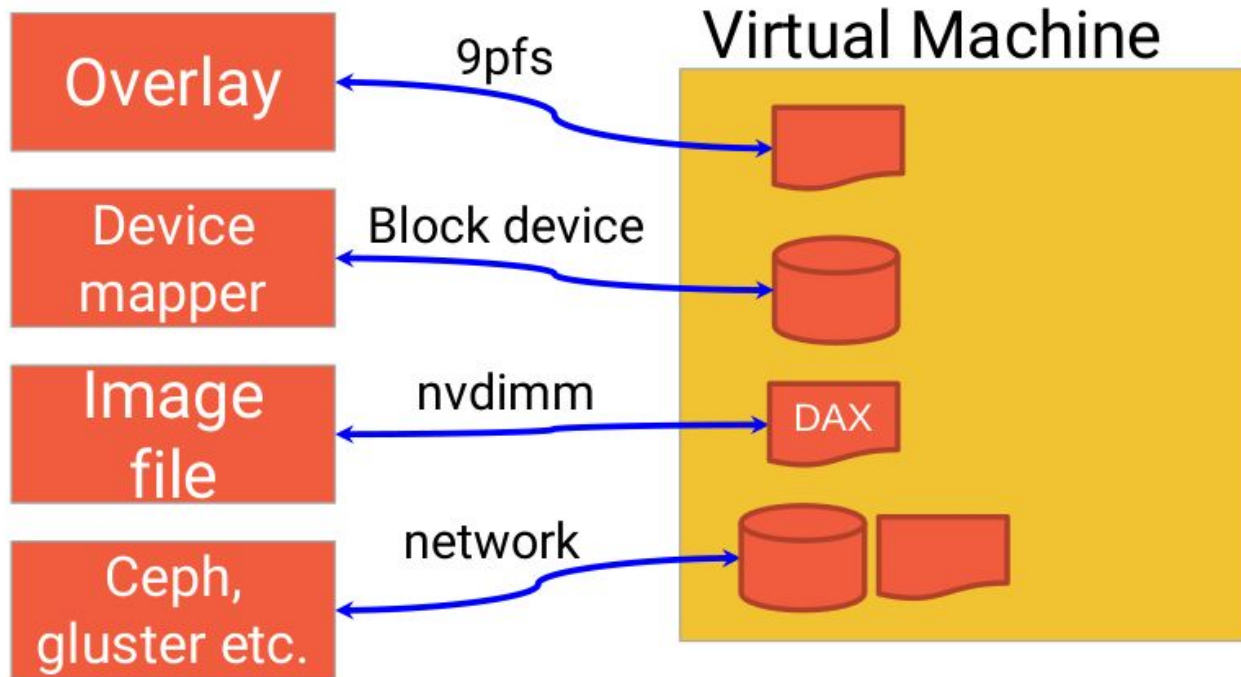
Kata Containers

Hypervisors Integration :

- Qemu
- Cloud-hypervisor
- Firecracker
- ACRN



Kata Containers



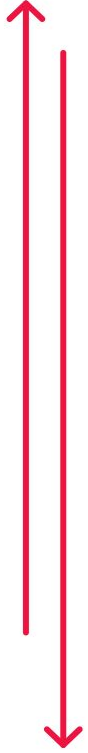


Kata Use case



- [GPU Passthrough with Kata](#)
- [OpenStack Zun with Kata Containers](#)
- [SR-IOV with Kata](#)
- [Intel QAT with Kata](#)
- [VPP with Kata](#)
- [SPDK vhost-user with Kata](#)

Demo



Diskusi



Reference

- [Repo kata containers](#)
- [Kata Learn](#)

