



Kubernetes

In Practice














Somkiat

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Somkiat Puisungnoen

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Intro

Software Craftsmanship



Software Practitioner at สยามชำนาญกิจ พ.ศ. 2556



Agile Practitioner and Technical at SPRINT3r


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Somkiat Puisungnoen

15 mins · Bangkok ·

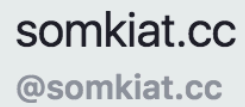

Java and Bigdata



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Kubernetes in practice

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Manage Stateful Workload

1. Cloud Native Application
2. Kubernetes architecture
3. Key-features
4. Pods and Containers
5. Service
6. Replication Controller (RC)
7. Deployment and ReplicaSet (RS)
8. Volume



<https://github.com/up1/course-kubernetes-in-practice>



Kubernetes Volume Management

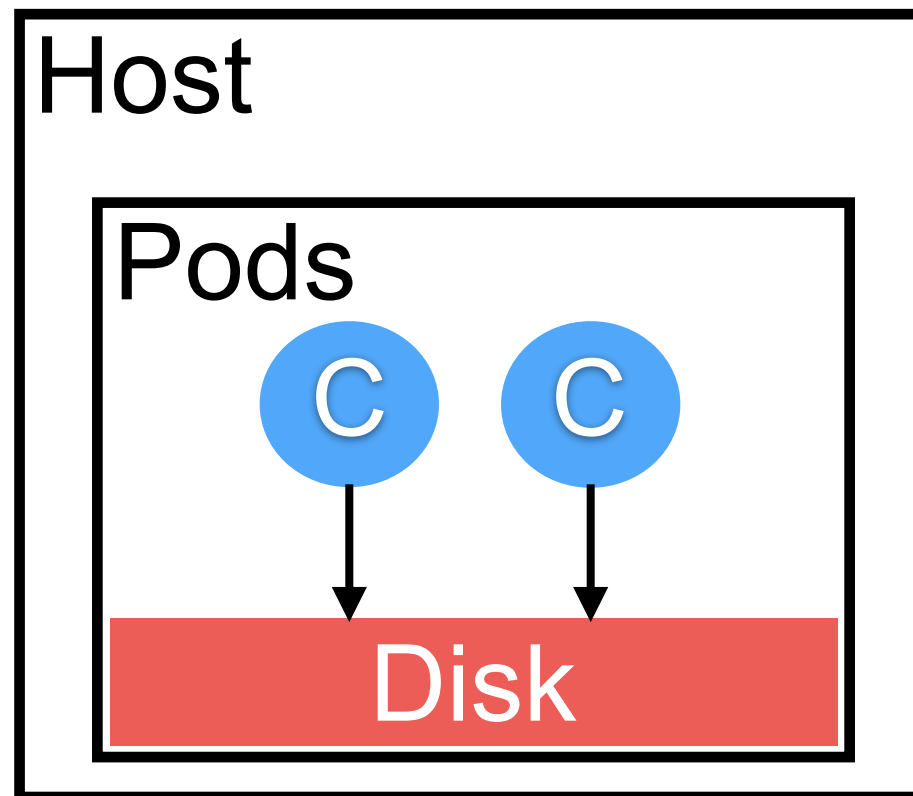


Default

Use a **local disk** by default

Log data, temporary file, app data

When container terminate/exit/crash the data will be lost

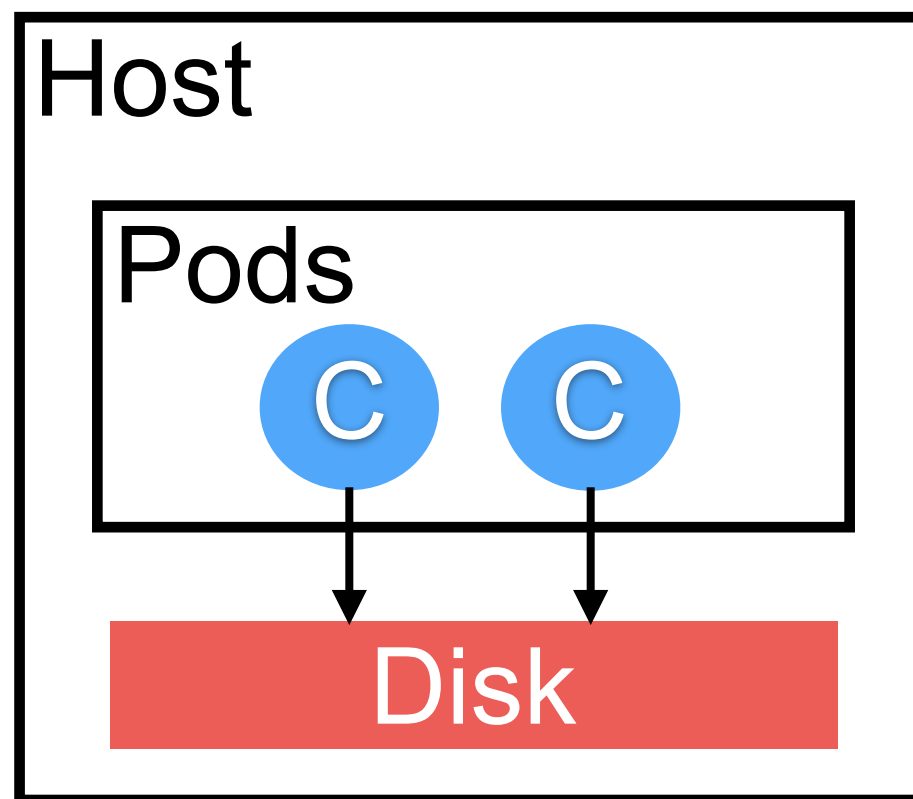


Share volume between containers

Use a **local disk** by default

Log data, temporary file, app data

When container terminate/exit/crash the data will be lost



Using Persistence volume

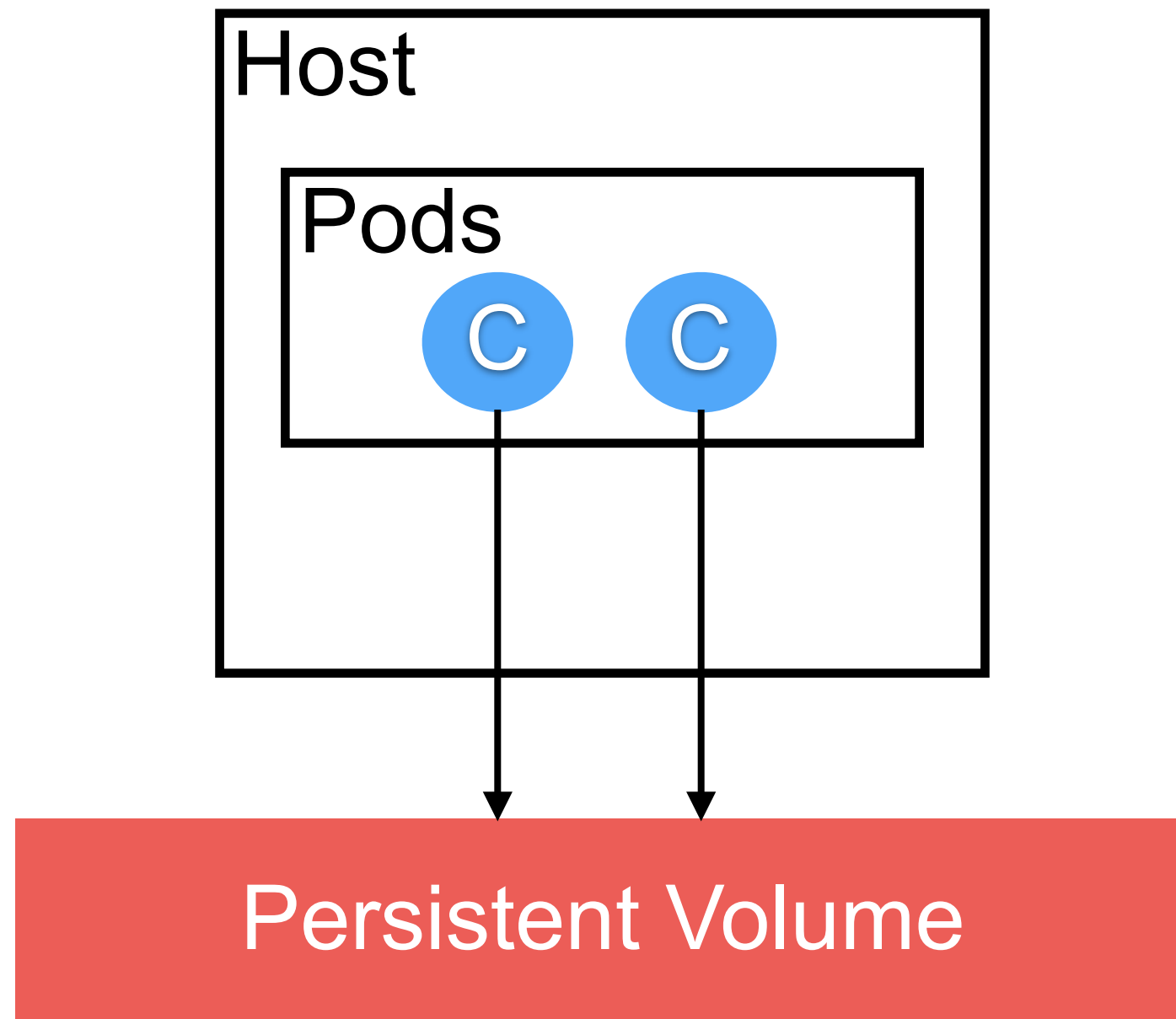
Public cloud storage (AWS EBS, google persistent disk)

Network File System (NFS, GlusterFS, Ceph)

Block device (iSCSI, Fibre Channel)



Using Persistence volume



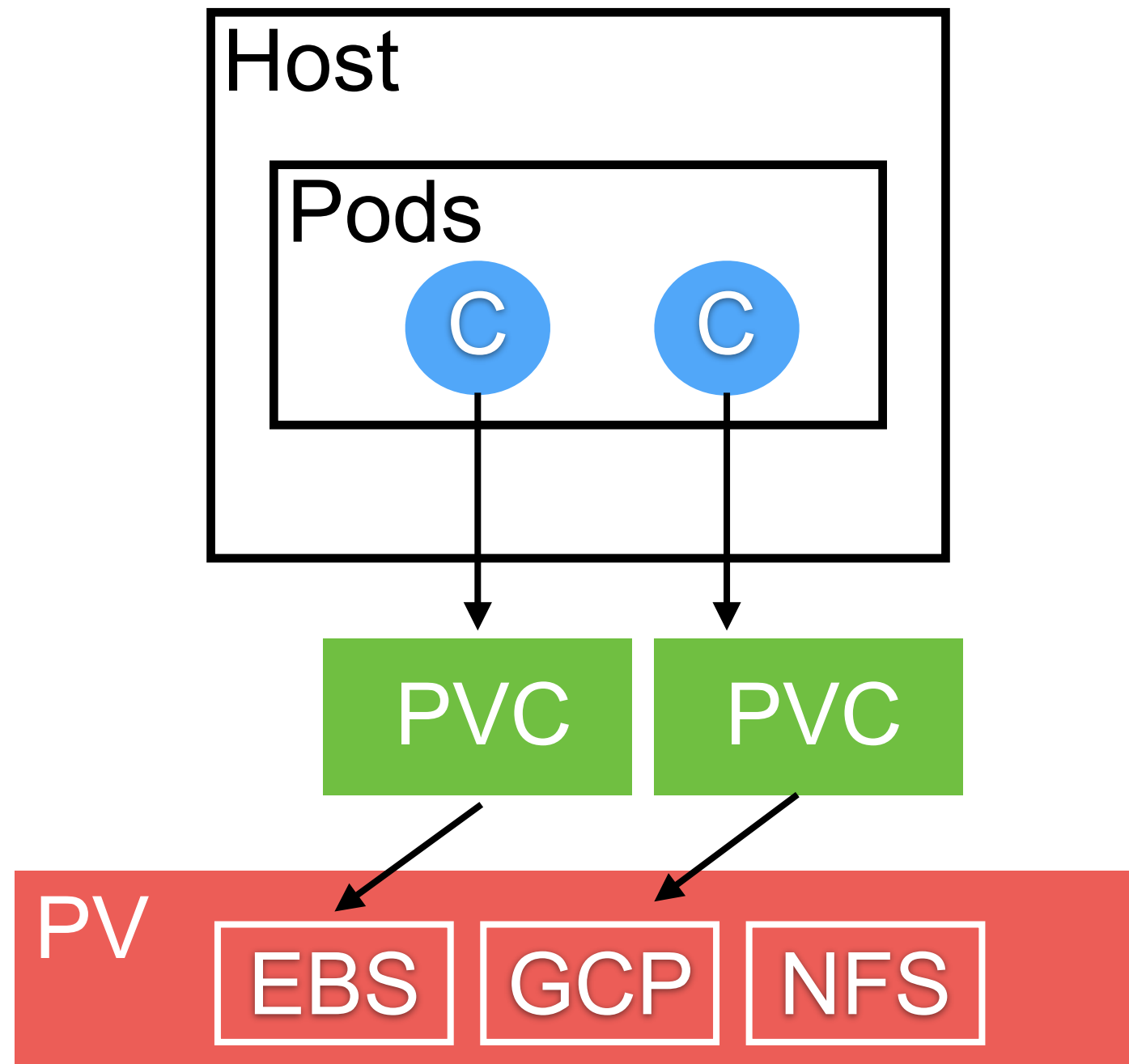
Using Persistence volume

Problem :: Tight coupling with infrastructure

Pods should not be locked into specific env.



Persistence Volume Claim (PVC)



Dynamic Provisioning with Storage class

