Working with Pods



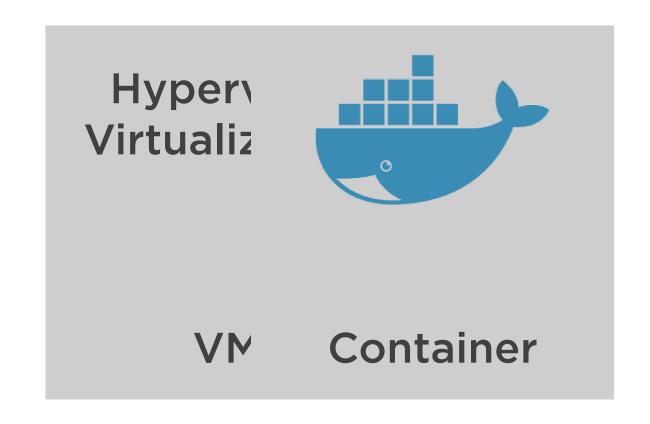
Nigel Poulton

@nigelpoulton www.nigelpoulton.com





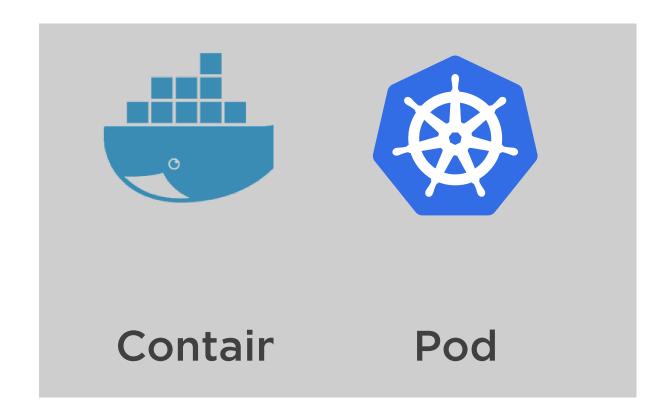
Hands-on





Hypervisor Virtualization

VM

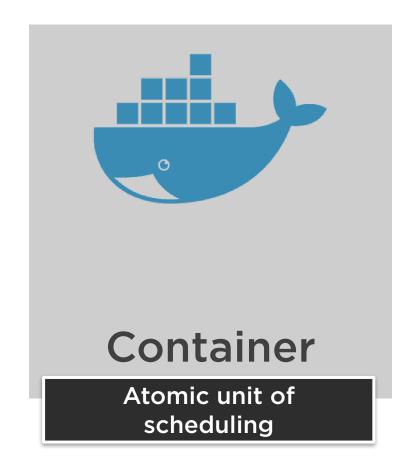




Hypervisor Virtualization

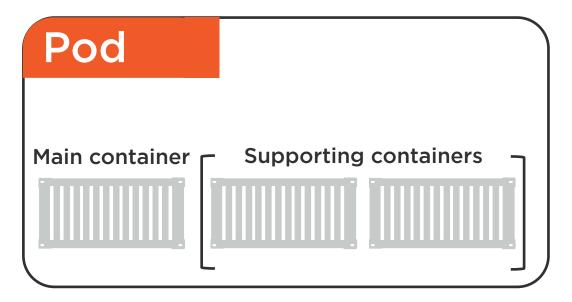
VM

Atomic unit of scheduling





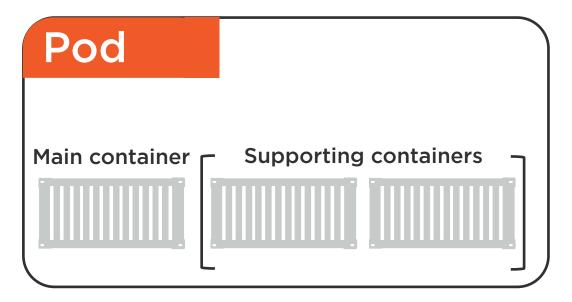




apiVersion: v1
kind: Pod
metadata:
 name: hello-pod
spec:
 containers:
 - name: hello-ctr
 image:...
 ports:
 - containerPort: 8080



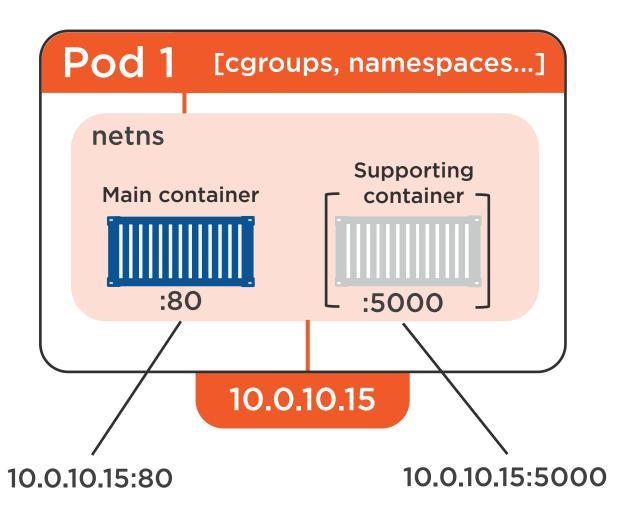


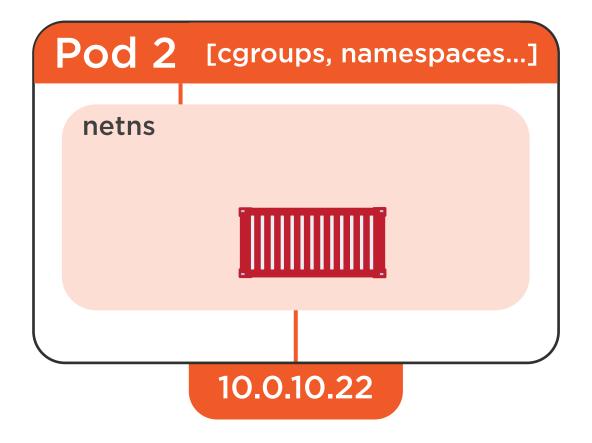


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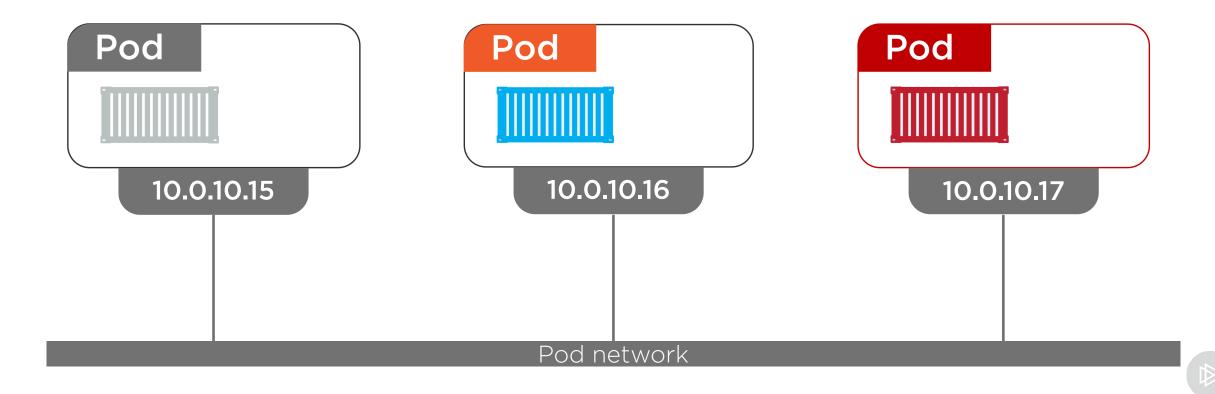




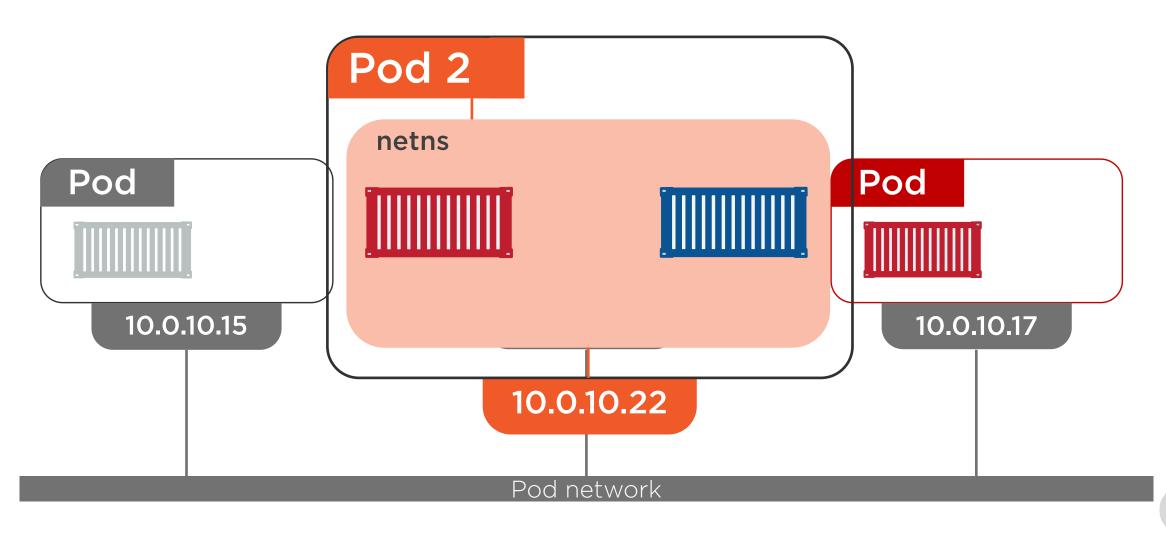




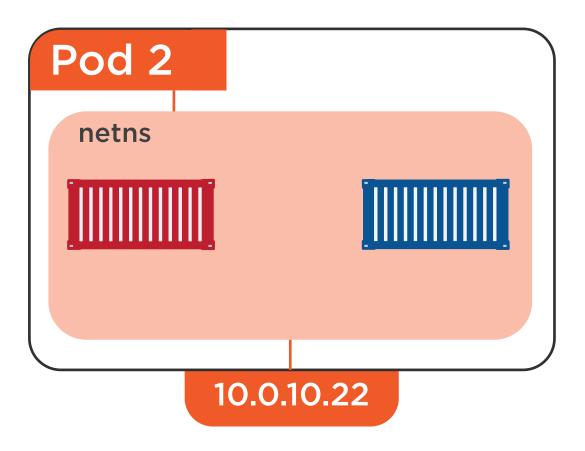
Inter-pod Communication



Inter-pod Communication

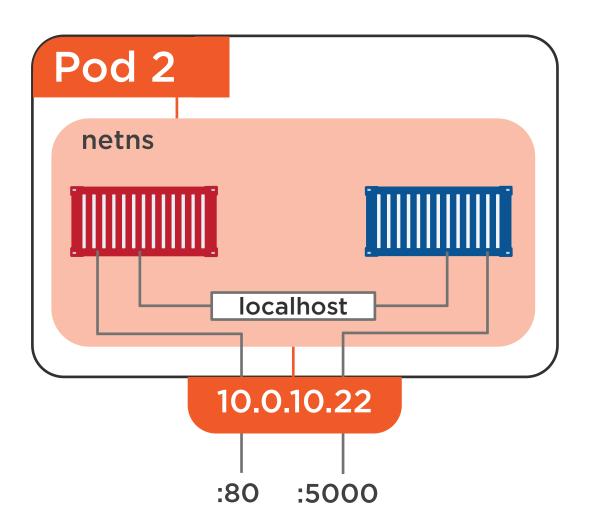


Intra-pod Communication





Intra-pod Communication

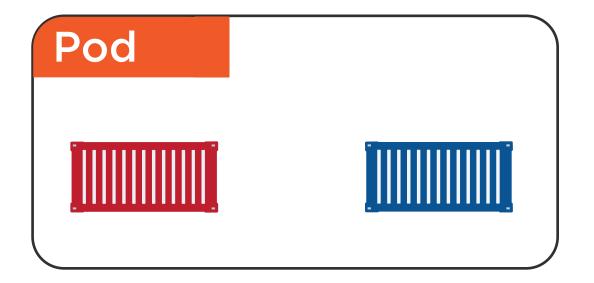


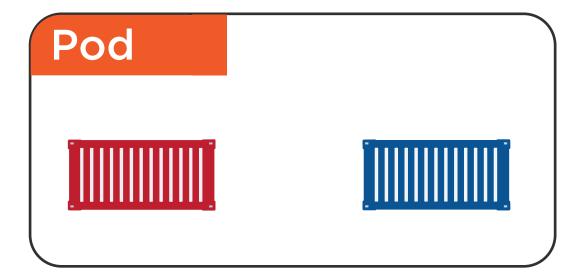






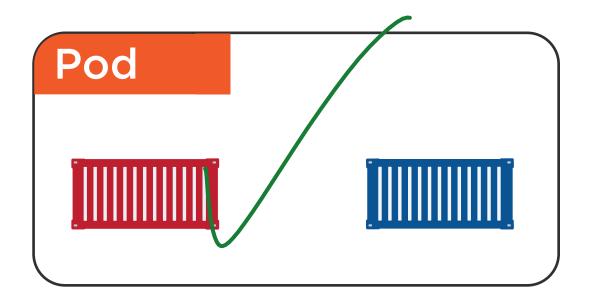
Pods: Atomic Deployments

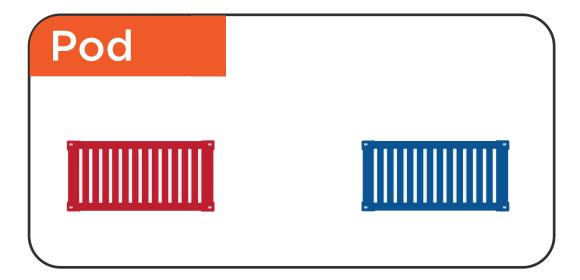






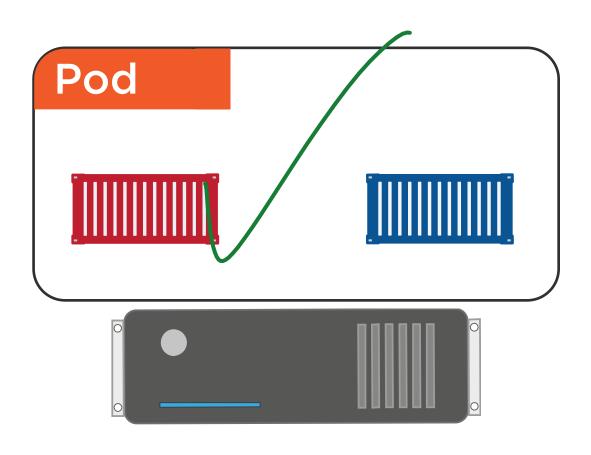
Pods: Atomic Deployments

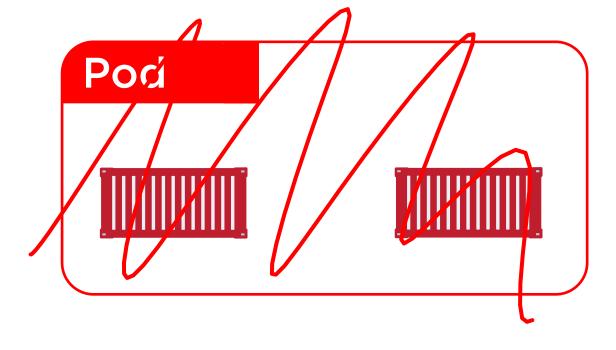




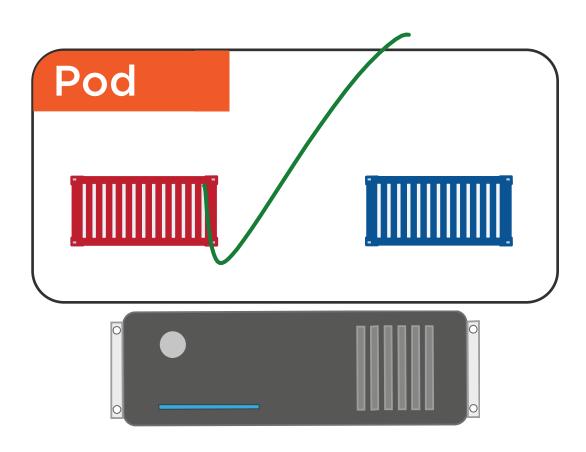


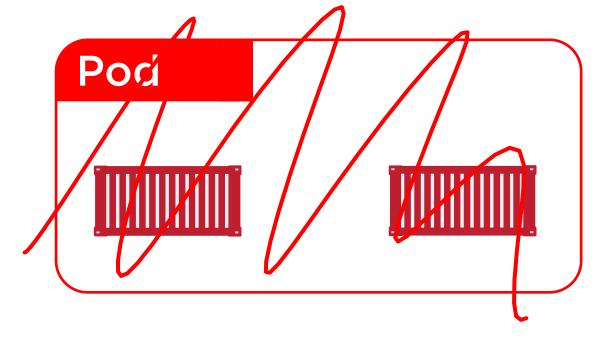
Pods: Atomic Deployments



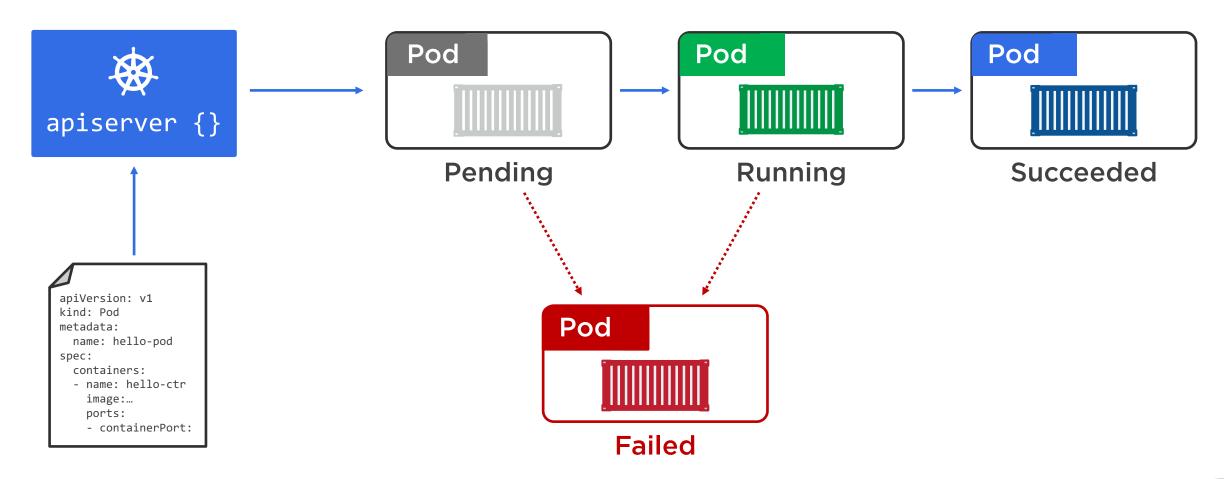


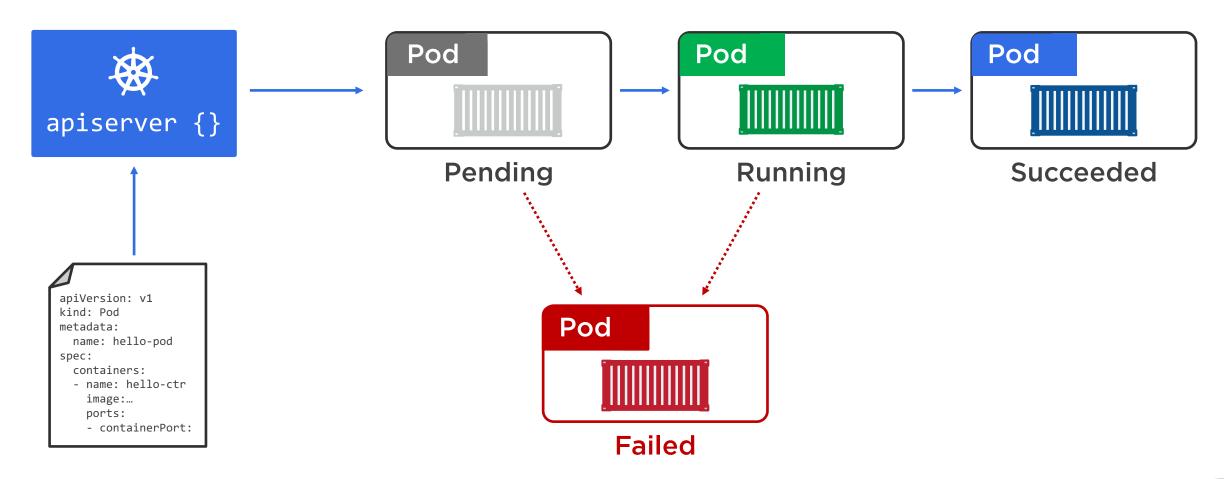












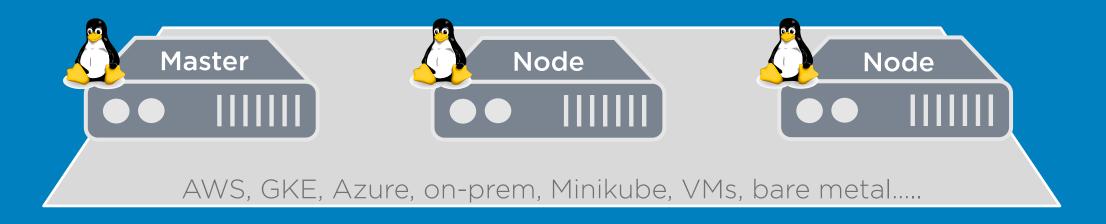
Smallest/atomic unit of scheduling

Have one or more containers

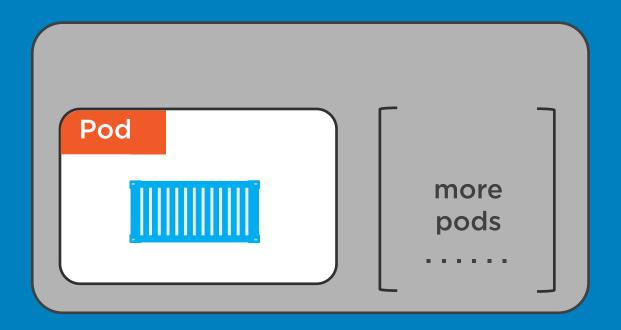
Scheduled on nodes (minions)

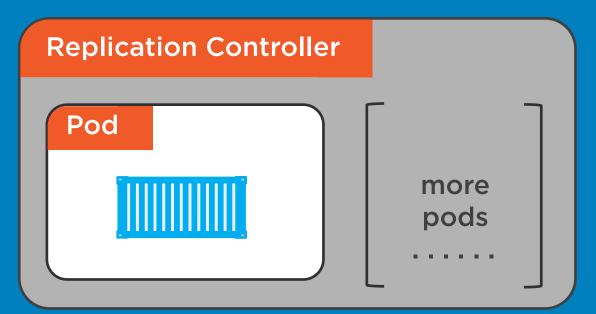
Declarative via manifest files

\$ kubectl











Summary

Smallest unit of scheduling (Atomic)

Pod manifests
(YAML or JSON)

Deployed via other objects

(Replication Controllers etc...)

Replication Controllers

(Implement desired state)

