

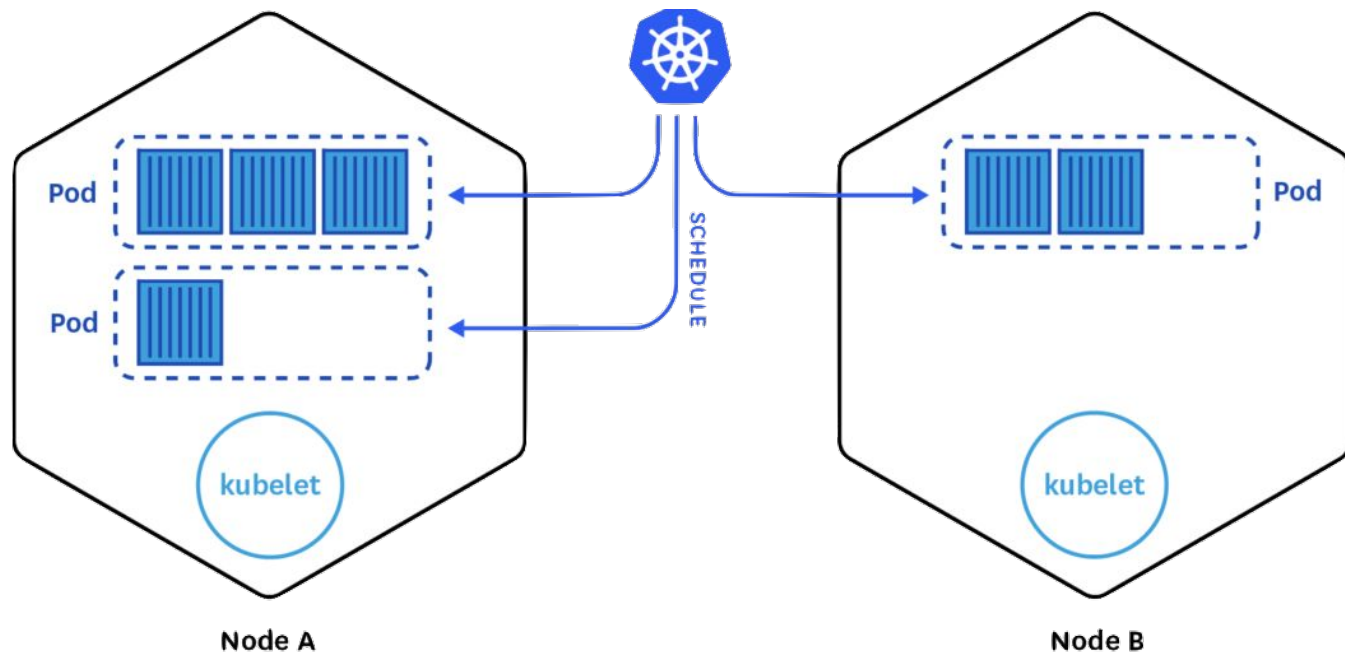
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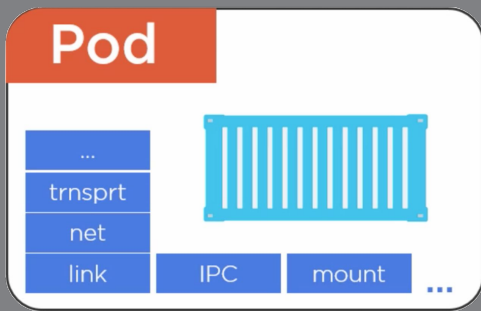
PODS

Rise of the Containers Workshop



Pods runs inside Node





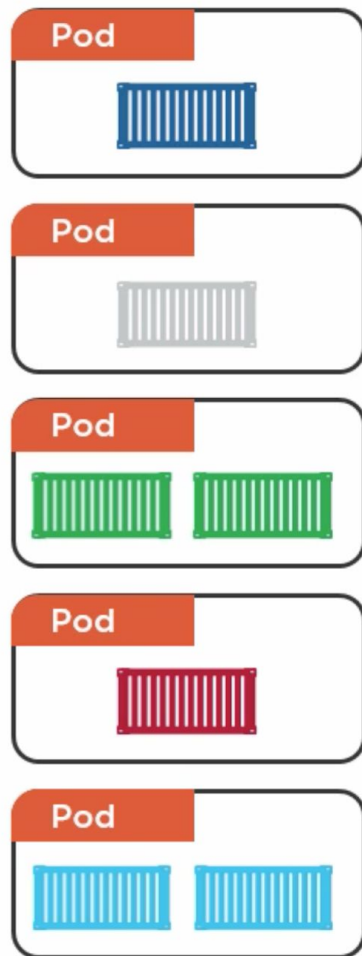
Pod

Pods are the smallest deployable units of computing that can be created and managed in Kubernetes.



Containers always run
inside of pods

Pods can have multiple
containers
(advanced use-case)



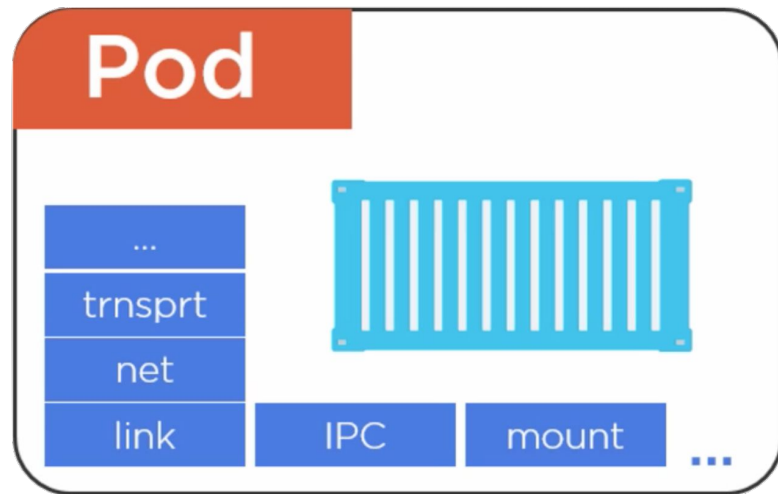
Pod

Ring-fenced Environments

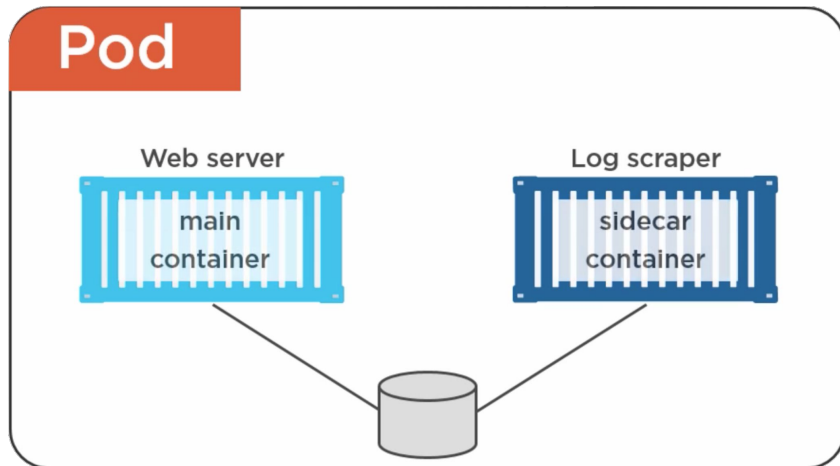
- Network stack
- Volume Mounts
- Kernel namespace
- ...

N containers inside a Pod

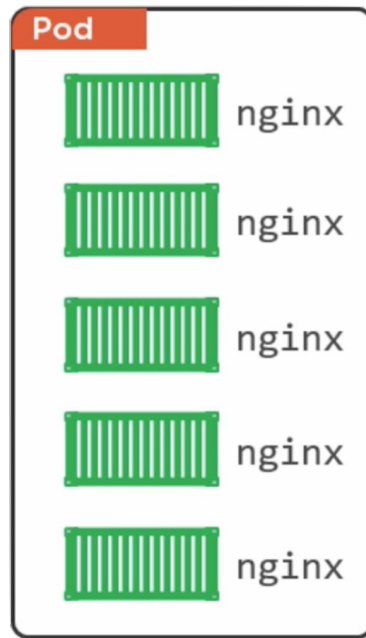
All containers in pod share the pod environment



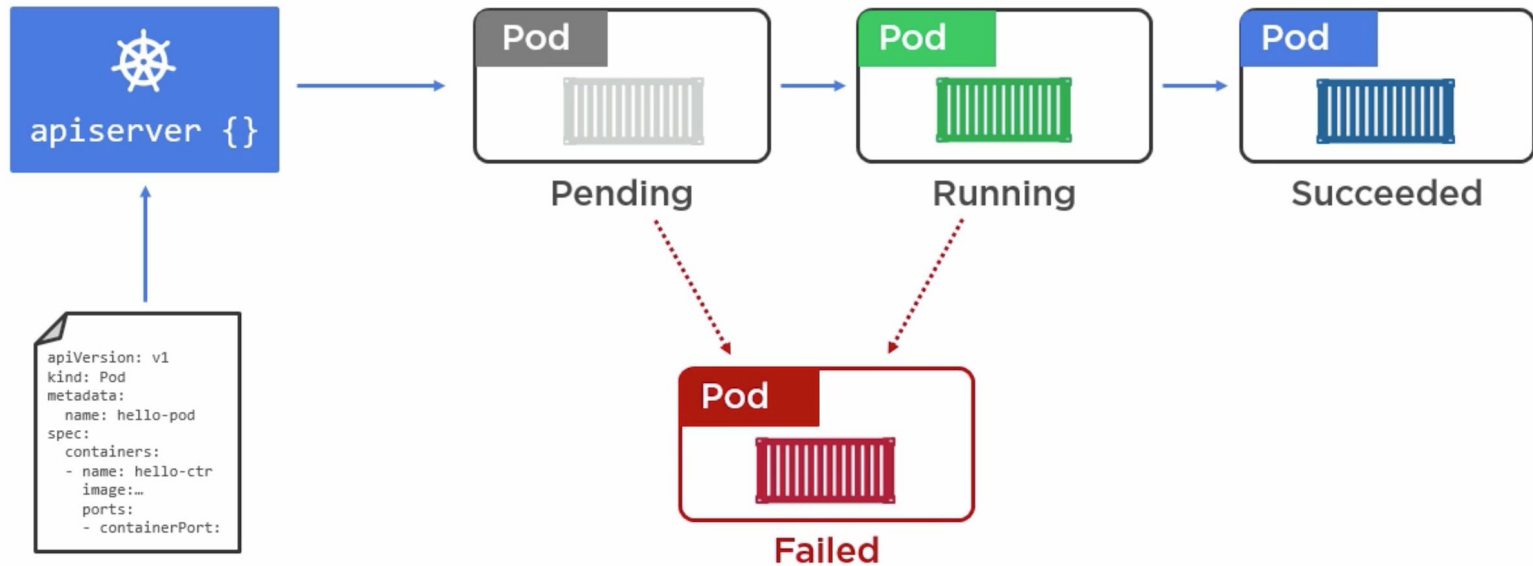
Multi-container Pod



Pods and Scaling



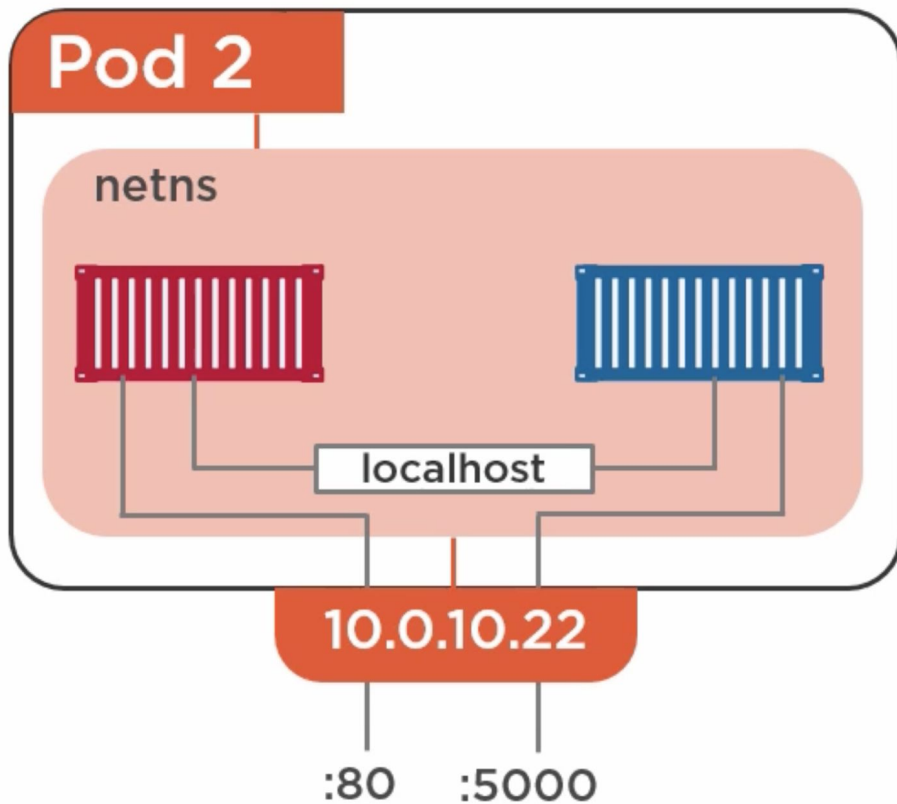
Pod Lifecycle



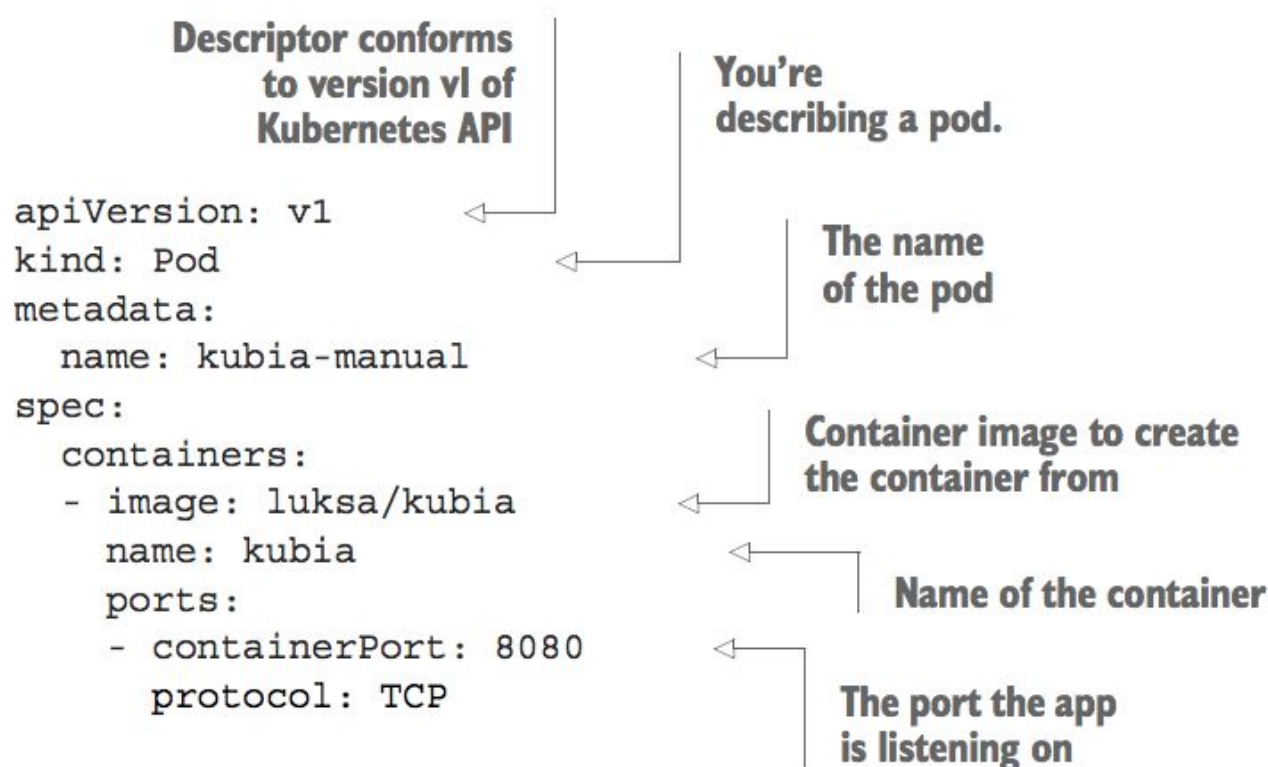
Pod Networking (Inter-Pod Communication)



Intra-Pod Communication



Pod Configuration



Important tag: containers

name

image

command

args

workingDir

ports

env

resources

volumeMounts

livenessProbe

readinessProbe

lifecycle

terminationMessagePath

imagePullPolicy

securityContext

stdin

stdinOnce

tty

Pod Demo

simple pod

HANDS-ON

A man in a light-colored button-down shirt is standing in a grocery store aisle. He is pointing his right index finger at a tablet computer that is part of a shelf display. The tablet shows four different bowls of food, likely salads or soups. The background shows shelves stocked with various products, including boxes of CSN brand items. The entire image has a magenta/pink color overlay.

1. Create a Pod configuration(yaml) for Metadata Service and create a Pod using kubectl create command.
2. Get inside the container and see if your application is working fine.

THANK YOU

For questions or suggestions:

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