

# CONTAINERS SPEC

(Written as Part of Pod Spec)



Essentials

name



image

must \*\*\*



volumeMounts

which vol?  
where to mount?

maps to  
volumes  
in Pod spec



resources

limits:

cpu: "500m"  
memory: "256Mi"

requests:

cpu: "200m"  
memory: "64Mi"

max

min

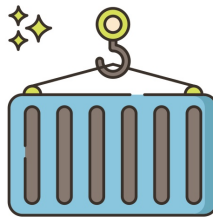
1 core = 1000m  
(milli core)

MiB / GiB



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```
apiVersion: v1
kind: Pod
metadata:
  name: vote
spec:
  containers:
    - image: schoolofdevops/vote
      name: vote
      ports:
        - containerPort: 80
          hostPort: 80
```



Containers



readinessProbe

livenessProbe

remove from  
service

if fails?  
restart  
container

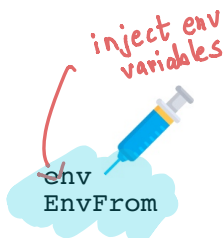


imagePullPolicy



ports

informational



env  
EnvFrom

inject env  
variables

cmd  
args

command

ENTRYPOINT

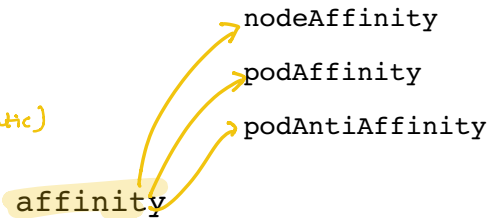
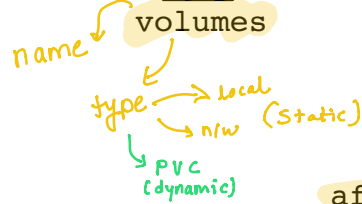
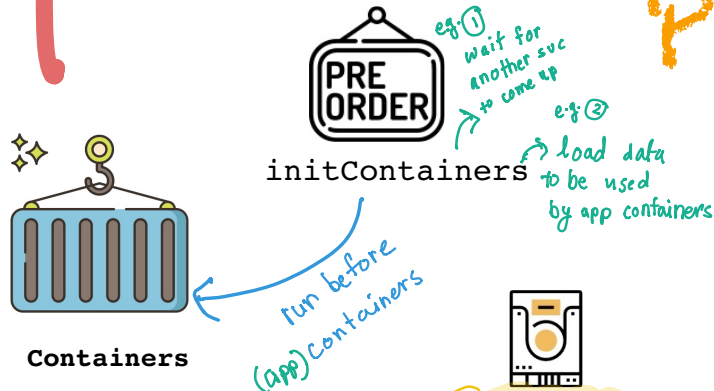
Always  
Never  
If Not Present

default  
tag = latest

# POD SPEC (v1)

(Essential)

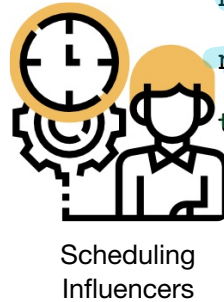
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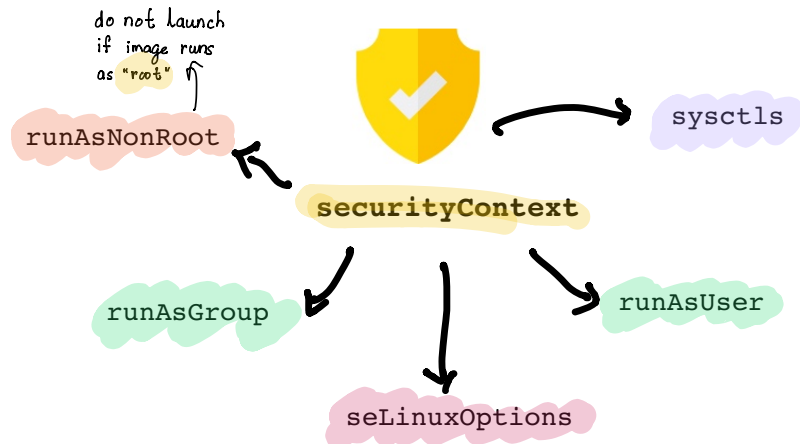
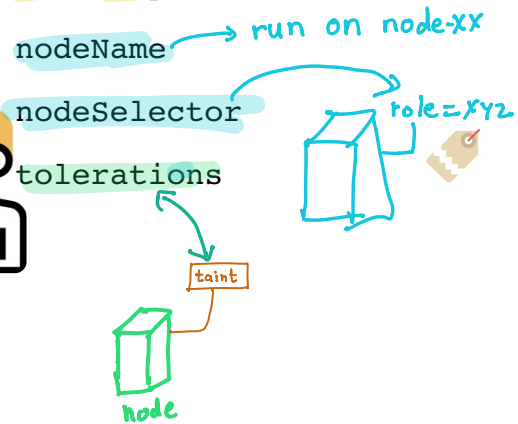
connect to  
pvt repo/registry



imagePullSecrets



Scheduling  
Influencers



# POD SPEC

(Extras)



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hostAliases

↳ /etc/hosts

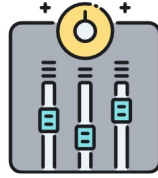
restartPolicy

Always | onFailure | Never  
↳ default

schedulerName

Custom

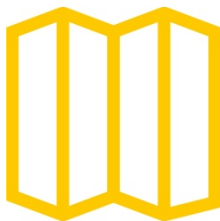
automountServiceAccountToken



Configs

dnsConfig

dnsPolicy



Namespaces

hostIPC

↳ share with host IPC

hostPID

↳ share PIDs with host

hostNetwork

↳ attach to host network



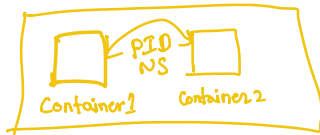
Pod is marked ready only after all gates pass

readinessGates

priority



priorityClassName



shareProcessNamespace

↳ share Process NS between all containers

hostname.subdomain.ns.svc.cluster.io

hostname



subdomain



activeDeadlineSeconds

SIGTERM (sig 15)

SIGKILL (sig 9)

xx seconds → default = 30s



terminationGracePeriodSeconds

Use this to drain connections?

Pick Runtime  
→ cri-o  
→ docker  
→ rkt  
→ runc



runtimeClassName  
(alpha)

