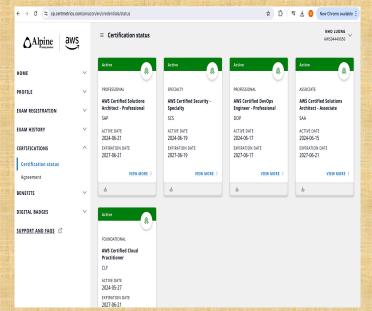
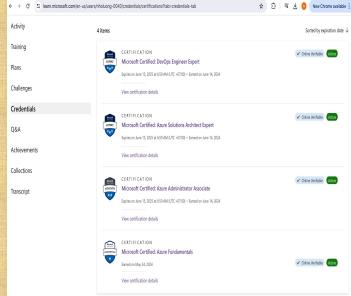
Kubernetes Ochestration

Author: Nho Luong
Skill: DevOps Engineer Lead











Kubernetes-Volume Types

- Local node types –emptyDir,hostPath,local File Sharing types –nfs Storage
- types-fc,iscsi Special purpose types –secrets, git,repo Cloud provider types
- –Vsphere, Cinder, awsEBS, azureDisk, gcepresisentDisk Distributed
- fileSystemTypes-glusterfs, cephfs Special Types –persistent volume,
- persistent volume claims.

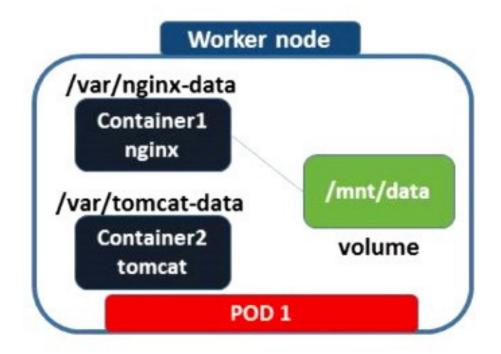
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1. How to assign a single volume to specific container in a pod?



spec:

volumes:

- name: volume

hostPath:

path:/mnt/data

containers:

name: container1-nginx

image: nginx

volumeMounts:

- name: volume

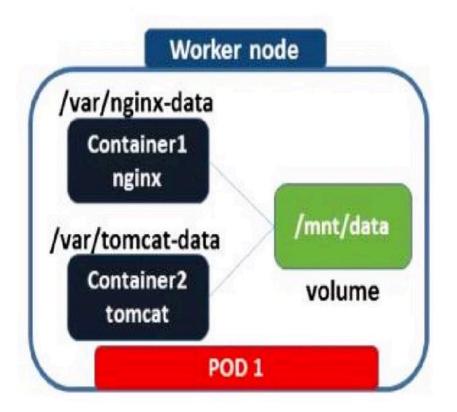
mountPath: "/var/nginx-data"

name: container2-tomcat

image: tomcat

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2. How to share a same volume to all containers within a pod?



spec:

volumes:

name: volume

hostPath:

path:/mnt/data

containers:

name: container1-nginx

image: nginx

volumeMounts:

- name: volume

mountPath: "/var/nginx-data"

name: container2-tomcat

image: tomcat

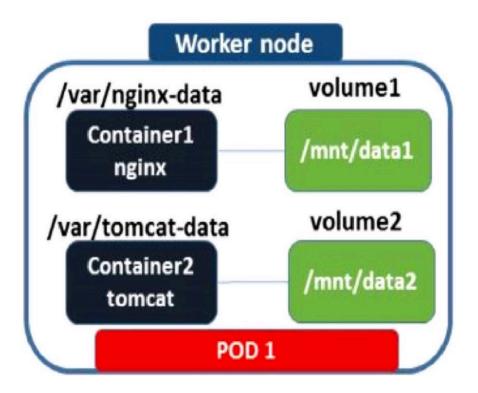
volumeMounts:

- name: volume

mountPath: "/var/tomcat-data"

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3. How to assign a dedicated volumes to each container in a pod?



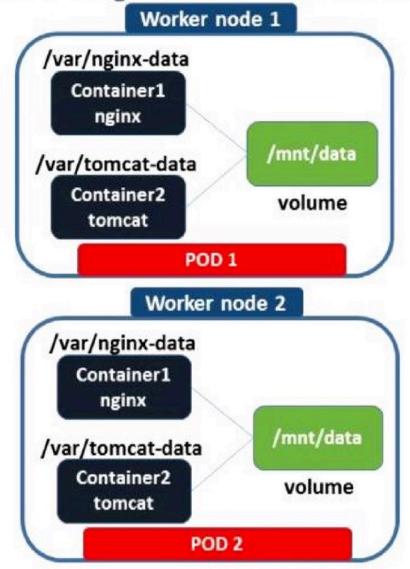
spec: volumes: - name: volume1 hostPath: path:/mnt/data1 name: volume2 hostPath: path:/mnt/data2 containers: name: container1-nginx image: nginx volumeMounts: name: volume1

mountPath: "/var/nginx-data"

 name: container2-tomcat image: tomcat volumeMounts:

name: volume2 mountPath: "/var/tomcat-data"

pods running on different worker nodes?



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replicas: 2

spec:

volumes:

 name: volume hostPath:

path:/mnt/data

containers:

 name: container1-nginx image: nginx volumeMounts:

 name: volume mountPath: "/var/nginx-data"

 name: container2-tomcat image: tomcat

volumeMounts:

name: volume
 mountPath: "/var/tomcat-data"



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