<https://www.linuxtechi.com/configure-nfs-persistent-volume-kubernetes/> ## reference Site

NFS Server IP = 172.31.5.225

NFS Share = /opt/k8s-pods/data

K8s Cluster = One master one worker

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vi nfs-pv.yaml

apiVersion: v1

kind: PersistentVolume

metadata:

name: nfs-pv

spec:

storageClassName: nfs

capacity:

storage: 10Gi

accessModes:

- ReadWriteMany

nfs:

server: 172.31.5.225

path: /opt/k8s-pods/data

[kadmin@k8s-master ~]$ kubectl create -f nfs-pv.yaml

persistentvolume/nfs-pv created

[kadmin@k8s-master ~]$ kubectl get pv

NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM STORAGECLASS REASON AGE

nfs-pv 10Gi RWX Recycle Available nfs 20s

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vi nfs-pvc.yaml

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: nfs-pvc

spec:

storageClassName: nfs

accessModes:

- ReadWriteMany

resources:

requests:

storage: 5GI

[kadmin@k8s-master ~]$ kubectl create -f nfs-pvc.yaml

persistentvolumeclaim/nfs-pvc created

[kadmin@k8s-master ~]$ kubectl get pvc nfs-pvc

NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE

nfs-pvc Bound nfs-pv 10Gi RWX nfs 3m54s

[kadmin@k8s-master ~]$ kubectl get pv nfs-pv

NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM STORAGECLASS REASON AGE

nfs-pv 10Gi RWX Recycle Bound default/nfs-pvc nfs 18m

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vi nfs-deploy.yaml

apiVersion: v1

kind: Deployment

metadata:

name: nginx-deploy

spec:

replicas: 3

selector:

matchLables:

run: nginx

templete:

meatdata:

lables:

run: nginx

spec:

volumes:

- name: nginx-pv-storage

persistentVolumeClaim:

claimName: nfs-pvc

containers:

- name: nginx-container

image: nginx

ports:

- conatinerPOrt: 80

name: ngin-server

volumeMounts:

- name: nginx-pv-storage

mountPath: /usr/share/nginx/html

[kadmin@k8s-master ~]$ kubectl create -f nfs-deploy.yaml

pod/nginx-pv-pod created