PERSISTENT VOLUMES



Persistent Volume









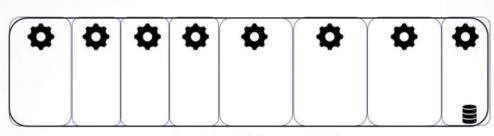




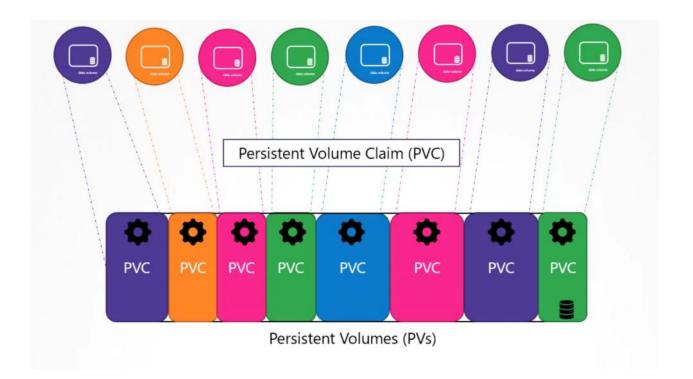




Persistent Volume Claim (PVC)



Persistent Volumes (PVs)



Persistent Volume



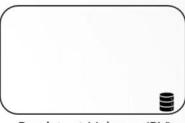
ReadOnlyMany
ReadWriteOnce
ReadWriteMany



Persistent Volume (PV)

Persistent Volume

```
pv-definition.yaml
apiVersion: v1
spec:
accessModes:
      - ReadWriteOnce
  capacity:
      storage: 1Gi
 hostPath:
     path: /tmp/data
 kubectl create -f pv-definition.yaml
```



Persistent Volume (PV)

kubectl get persistentvolume ACCESS MODES RECLAIM POLICY CAPACITY 1Gi RWO

Retain

STORAGECLASS REASON CLAIM AGE 3m

STATUS

Available

```
pv-definition.yaml
apiVersion: v1
metadata:
  accessModes:
  capacity:
      storage: 1Gi
 awsElasticBlockStore:
```

Using PVCs in PODs

pv-vol1

Once you create a PVC use it in a POD definition file by specifying the PVC Claim name under persistentVolumeClaim section in the volumes section like this:

```
kind: Pod
metadata:
   name: mypod
  containers:
    - name: myfrontend
image: nginx
         name: mypd
    olumes:
- name: mypd
- persistentVolumeClaim;
         claimName: myclaim
```

The same is true for ReplicaSets or Deployments. Add this to the pod template section of a Deployment on ReplicaSet.

Reference

URL: https://kubernetes.io/docs/concepts/storage/persistentvolumes/#claims-as-volumes