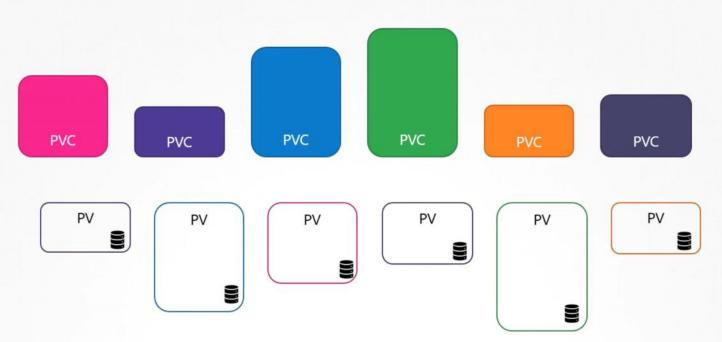
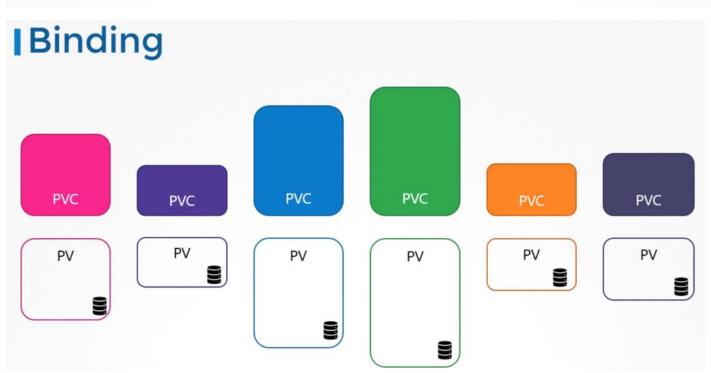
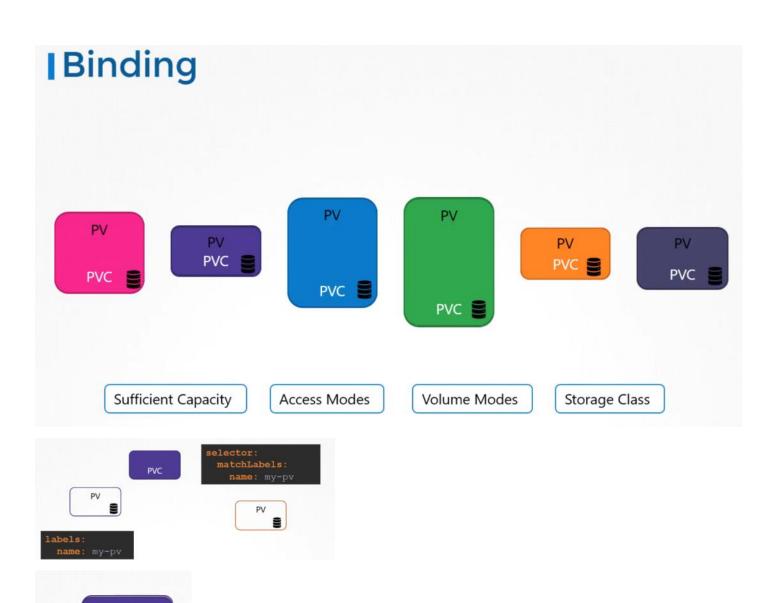
# PERSISTENT VOLUME CLAIMS

# **I Persistent Volume Claim**







PVC

### | Persistent Volume Claim

```
pvc-definition.yaml

apiVersion: v1
kind: PersistentVolumeClaim
metadata:
   name: myclaim
spec:
   accessModes:
    - ReadWriteOnce
   resources:
       requests:
       storage: 500Mi
```

```
NAME STATUS VOLUME CAPACITY ACCESS MODES myclaim Pending
```

## | Persistent Volume Claim

```
pvc-definition.yaml

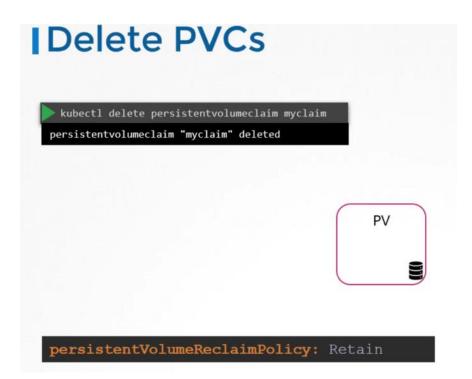
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
    name: myclaim
spec:
    accessModes:
    - ReadWriteOnce
    resources:
        requests:
        storage: 500Mi
```

```
pv-definition.yaml

apiVersion: v1
kind: PersistentVolume
metadata:
   name: pv-vol1
spec:
   accessModes:
    - ReadWriteOnce
capacity:
    storage: 1Gi
awsElasticBlockStore:
   volumeID: <volume-id>
   fsType: ext4
```

#### **| View PVCs**

```
NAME STATUS VOLUME CAPACITY ACCESS MODES STORAGECLASS AGE
myclaim Bound pv-vol1 1Gi RWO 43m
```



persistentVolumeReclaimPolicy: Delete

persistentVolumeReclaimPolicy: Recycle

#### **Using PVCs in PODs**

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:

```
apiVersion: v1
Mind: Pod
metadata:
name: mypod
spec:
containers:
- name: myfnontend
image: mginx
volume/bounts:
- name: mypd
volumes:
- name: mypd
persistentVolumeClaim:
claim/ame: mypd
clai
```

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

Reference URL: <a href="https://kubernetes.io/docs/concepts/storage/persistent-volumes/#claims-as-volumes">https://kubernetes.io/docs/concepts/storage/persistent-volumes/#claims-as-volumes</a>