

# Volumes in Kubernetes

--> Directory with data

Ephemeral

emptyDir

- Cache
- Scratch space

Persistent

hostPath

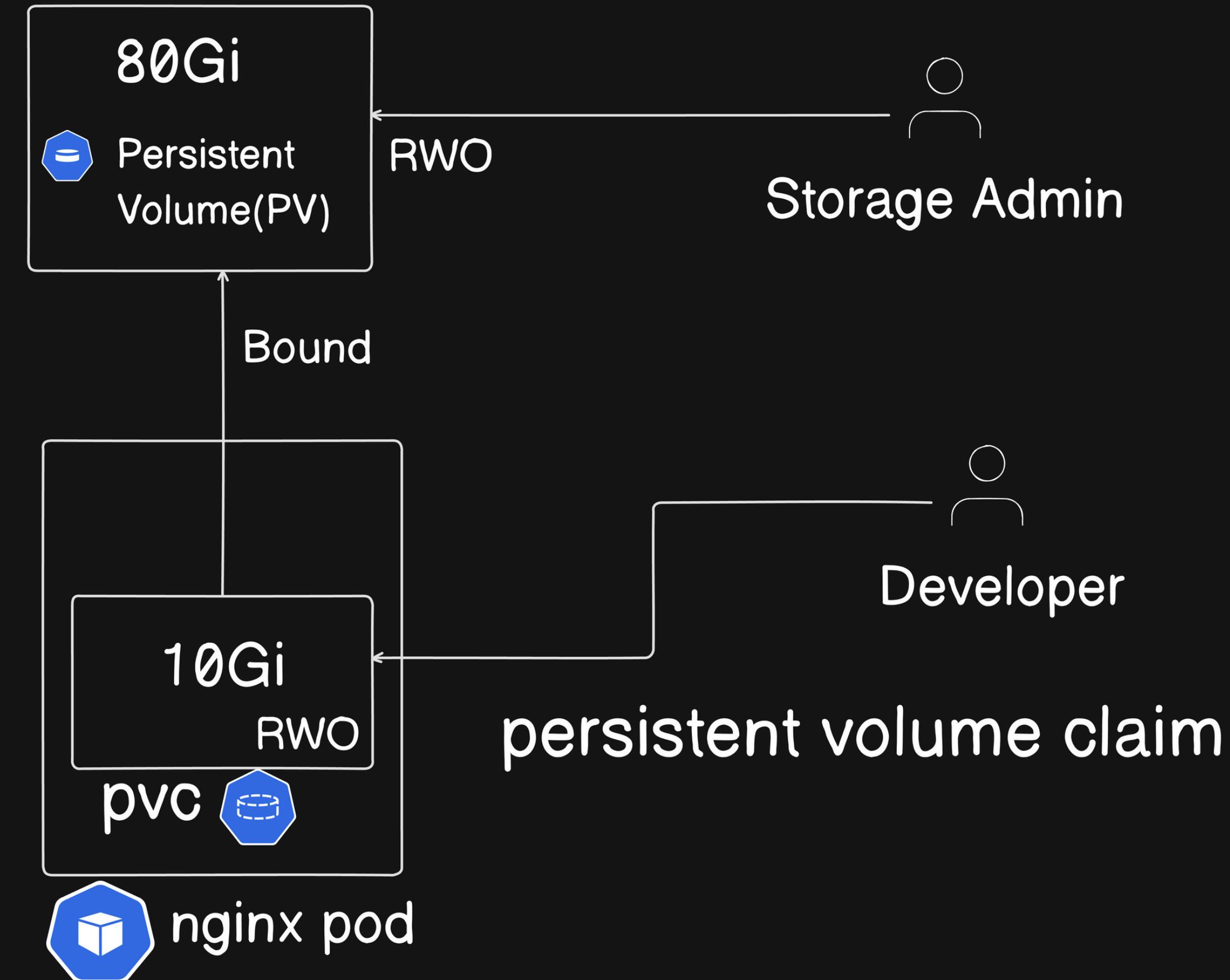
Persistent Volume and Persistent Volume claims

persistent storage

Spec.Volumes --> specify the volume

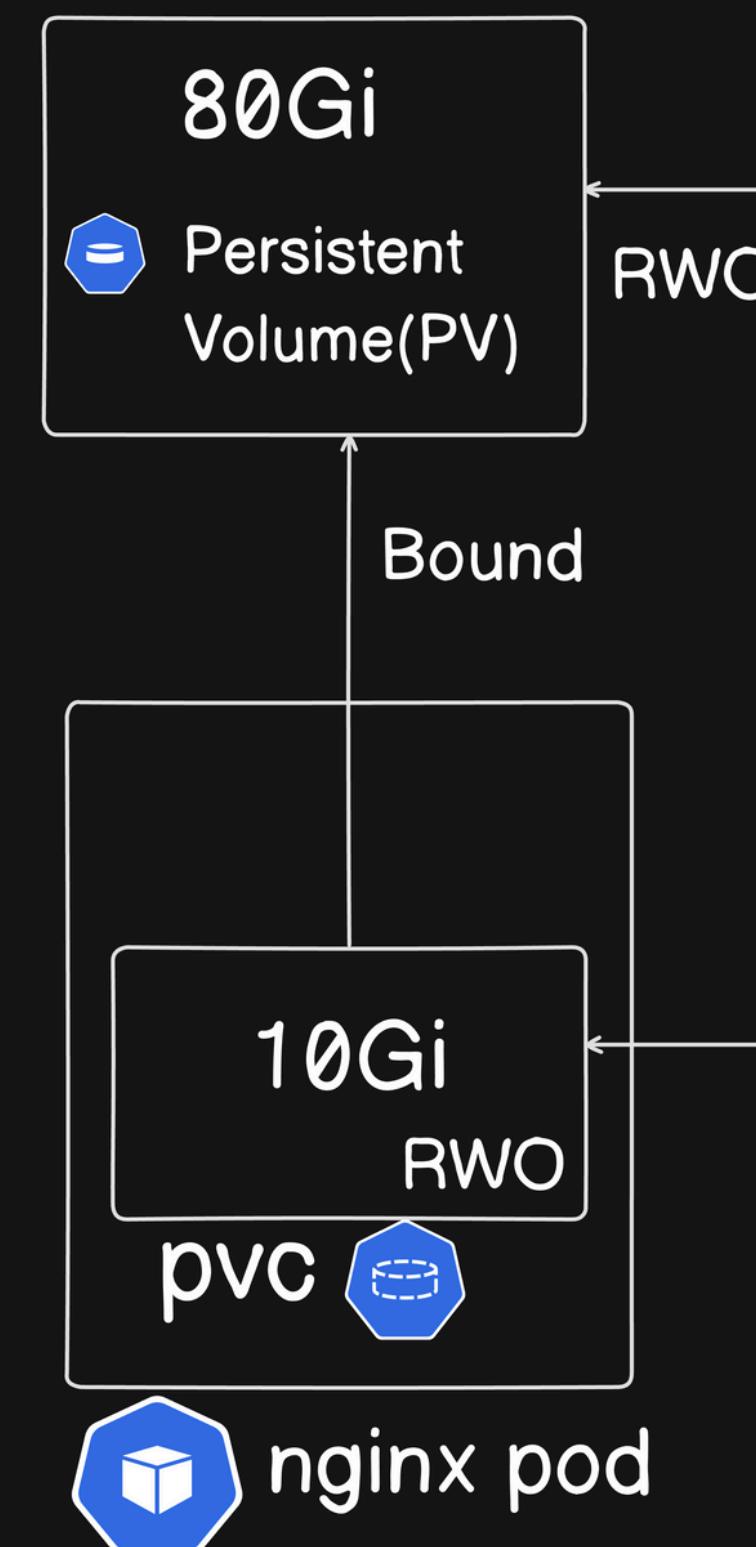
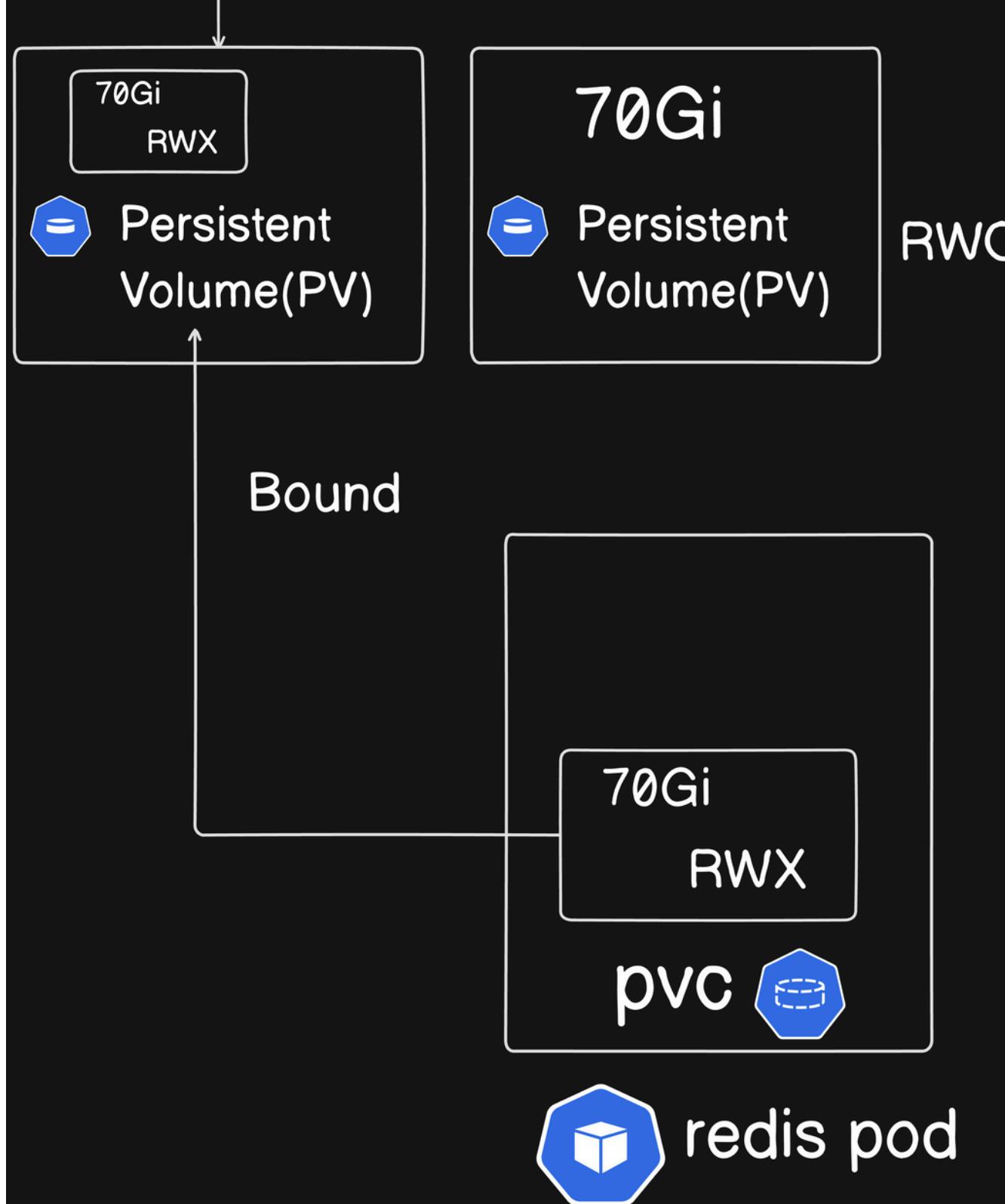
spec.containers.volumeMounts --> Where to mount the volume into container

# Persistent Volume and Persistent Volume claims



Dynamic ← Storage Class

Provisioning



Storage Admin

Developer

persistent volume claim

# Static Vs Dynamic Provisioning

# Access Modes

→ How a PersistentVolume (PV) can be mounted and accessed by containers

- `ReadWriteOnce(RWO)`
- `ReadOnlyMany(ROX)`
- `ReadWriteMany(RWX)`

# Reclaim Policy

→ What happens to the PV when its associated PVC is deleted?

- Retain
- Delete
- Recycled(Deprecated)

## Storage Class

- Defines which provisioner to be used (gce-pd, aws ebs etc)
- What parameters to be provided ( pd-standard, pd-ssd etc)
- Allows Dynamic provisioning
- If not specified, default sc will be used

