

Storage Classes
NFS (FileSystem[DEFAULT] XFS EXT4), GlusterFS, Ceph, Azure,
Block(raw Disk) Storage, Local Volume LVM, iSCSI, AWS, Fibre Channel

Cluster Administrator

RWX
RWO
RM

PV is not specific to Namespace/Project

Persistent Volume
PV
10Gi
BOUND
Persistent Volume
Claim
PVC
9Gi

Persistent Volume
PV
25Gi
Available

Persistent Volume
PV
15Gi
Available

Cluster Administrator

Persistent Volume
PV
30Gi
Persistent Volume Claim
PVC
30Gi
Pending

Application Request/
Developer

PVC is specific to Namespace/Project

Application
Storage PVC
PersistentVolumeClaim

When PVC requires a PV,
1. Static/Manual create PV
2. Dynamic Creation PV
(Storage Classes) Automatically

PV once used/bounded by one PVC , can not be used/bounded by another PVC