

13-persistentvolume

PersistentVolume (PV) What it is PersistentVolume is a cluster-level storage resource provisioned manually or dynamically. When to use Durable data beyond Pod lifecycle Shared storage policy management Key fields spec.capacity.storage spec.accessModes: ReadWriteOnce, ReadOnlyMany, ReadWriteMany spec.persistentVolumeReclaimPolicy: Retain, Delete, Recycle (legacy) spec.storageClassName Common commands bash kubectl get pv kubectl describe pv pv-manual-1 kubectl delete pv pv-manual-1 YAML example yaml apiVersion: v1 kind: PersistentVolume metadata: name: pv-manual-1 spec: capacity: storage: 10Gi volumeMode: Filesystem accessModes: - ReadWriteOnce persistentVolumeReclaimPolicy: Retain storageClassName: manual hostPath: path: /data/pv-manual-1 Practical notes PV is cluster-scoped; PVC is namespaced. Prefer dynamic provisioning with StorageClass for production.