

Storage Requirements :-

- 1) Storage that does not depend on the Pod life-cycle
- 2) Must be available to all nodes
- 3) Storage needs to survive even if cluster crashes.

Persistent Volume :-

Representing external storage in kubernetes.
(local Disk
cloud
on
NFS)

PV → not namespaced
→ available to all namespaces in the cluster.

Application has to claim the PV,

through PVC (Persistent Volume Claim).

PVC → NameSpaced



PV

Storage Class :-

SC provisions/creates PVs dynamically whenever PVC claims are made.

ConfigMaps & Secrets


Most business applications comprise of

- * Application
- * Configuration.

De-couple these two for some benefits

→ Build & store them differently. Bring together at runtime.

- * ConfigMap is a place to store configuration that could be seamlessly injected into containers during runtime.

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1. Envi Variables
 2. Argument to Containers startup Command
 3. Files in a volume.

Secrets --> Identical to ConfigMaps designed for sensitive data such as passwords, certificates & OAuth tokens.