Azure
Key Vault

| secret |
| certificate |
| keys |

Disk

StorageAccount
FileShare

S3 Bucket

GCP
Bucket

Persistant Volume is Cluster
Level Resource...

Kubernetes

secret

dhondhu-secret
storageAccountkey
storageAccountName

pv
Persistant
Volume

pv
Persistant
Volume

pod

docker
photos-app

volumeMounts:
- name: mango-volume
  mountPath: /app/photos
volumes:
- name: mango-volume
  persistantVolumeClaim:
    claimName: tondu-pvc

One to One Mapping

pv
Persistant
Volume
az-tinku-pv
1TB

pvc
Persistant
Volume Claim
tondu-pvc
100 GB

| PVC Stuck in pending |
| StorageClassName, AccessMode, volumeMode - sab kuch match nahi hoga toh pvc pending me chla jaega |
| PV available but not bound |
| StorageClassName, AccessMode, volumeMode - sab kuch match nahi hoga toh pvc pending me chla jaega |
| Pod me PVC integrate karna hai |
| PV Banaenge, fir PVC banaenge |
| fir podyaml me Volume dalenge, fir container me mount karenge |
| jab PVC delete ho toh PV bhi automatically delete ho jae? |
| Homework - ReclaimPolicy |
| MultiplePod, Same storage ko padna chahta hai.. AccessMode hoga |
| ReadWriteMany |

HomeWork -
Dynamic
Provisioning

Persistant Volume

Statically Provisioned

10-TB	StorageAccount-FileShare
	PV - FileShare Connection
	PVC request

Dynamically Provisioned

PVC request
2 Gi

storageClass - azure-portal-file-share

2Gi

| StorageClass |
| azure-portal-file-share |
| azure connect ka creds |

Vm1   vm2   vm3   vm4

Loadbalancer
Public IP

pod pod1   pod pod2   pod pod3   pod pod4   pod pod3   pod pod4

| app: todo | app: todo | app: todo | app: todo | app: ecom | app: ecom |

Service is a Loadbalancer

Services

| 1. Cluster IP |
| 2. LoadBalancer |
| 3. NodePort |

SVC
Service

Select All pod with label env:sbx = 4

Select All pod with label env:prod = 2

Users