HELM

// Package manager for kubernetes #
To package YAML files and distribute them
into private and public repository

Helm charts :-
- Bundle of YAML files
- create your own HELM chart with Helm
- push them to Helm repo.
- download and use existing ones

Directory structure:

mychart /   Top level mychart folder → name of chart
  chart.yaml   meta info about chart
  values.yaml   value for template
  charts /   chart dependencies
  templates /   the actual template file or valued
  ...

↓ helm install <chartname>
  Template files will be filled with the values from
  values.yaml

✗ Value injection ie value override hoti

✗ Release management
   Tiller is server, it keeps track of all chart
   executions
   helm install, upgrade, rollback.
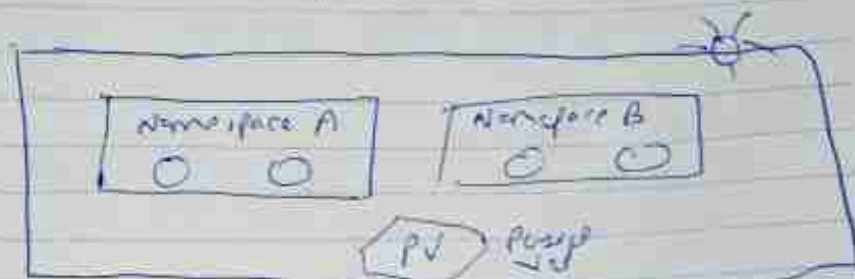
K8S Volume

1) Persistent Volume   2) Persistent Vol Claim
                                 (PVC)
3) Storage class

Storage in K8s is external plugin to cluster

Local vs Remote,

- Admin provision storage resource
- User ~~create~~ ~~claim~~ create claim to PV

→ Storage class provisions PV dynamically when PVC claims it
   provision – attribute.

Stateful set for stateful applications :-
   deployment vs stateful set

when pod restarts,
                     IP address changes
                     name and ~~end~~ end point stays same

1) What is K8s ~~scale~~ service
      Persistent stable IP in service
      it also provides load balancing.
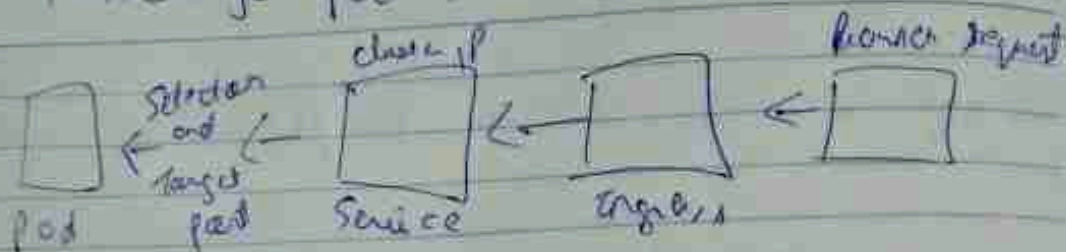   loose coupling
      within and outside cluster

* cluster IP Service - when cluster is default.

To check IP address

Kubectl get pod -0 wide

Pod | Target port | Service | Ingress | Inhound request

n) Headless Service
pod want to talk directly with specific pod using DNS lookup

n) Node port

n) ClusterIP