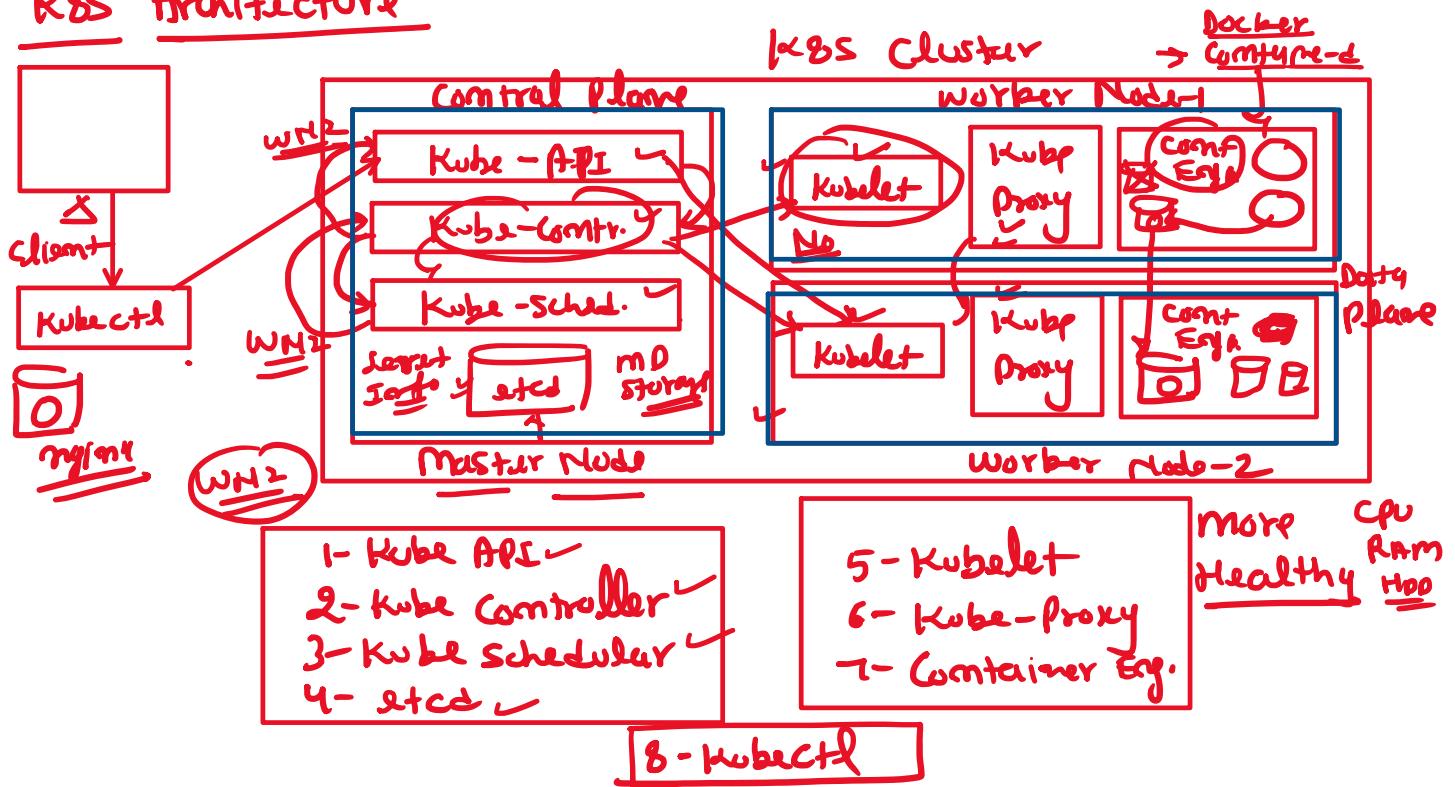


Day-1 Recap

- Container Orchestration Tool
- Pod
- Service (30000 - 32767)
- Replicaset (Replica = 3)
- Deployment (version rollout) roll back

HA
FT

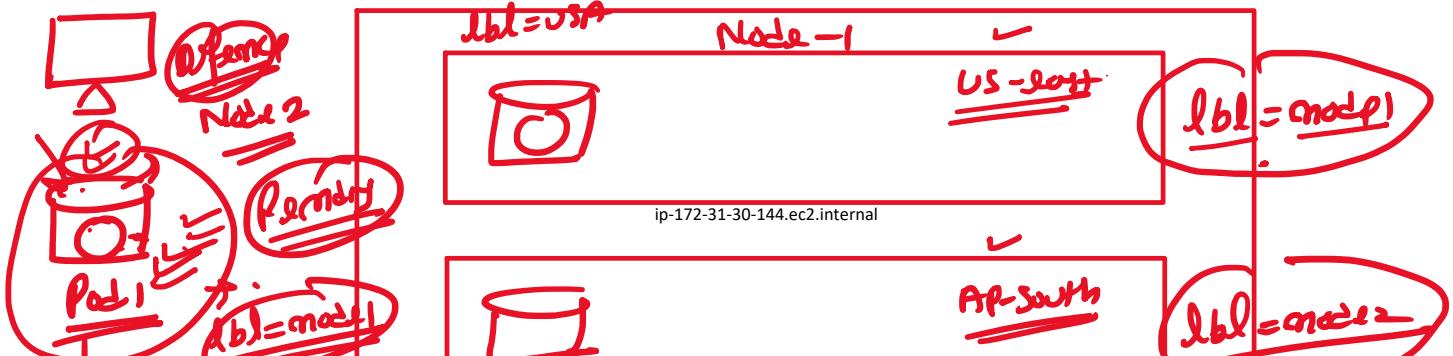
K8S Architecture

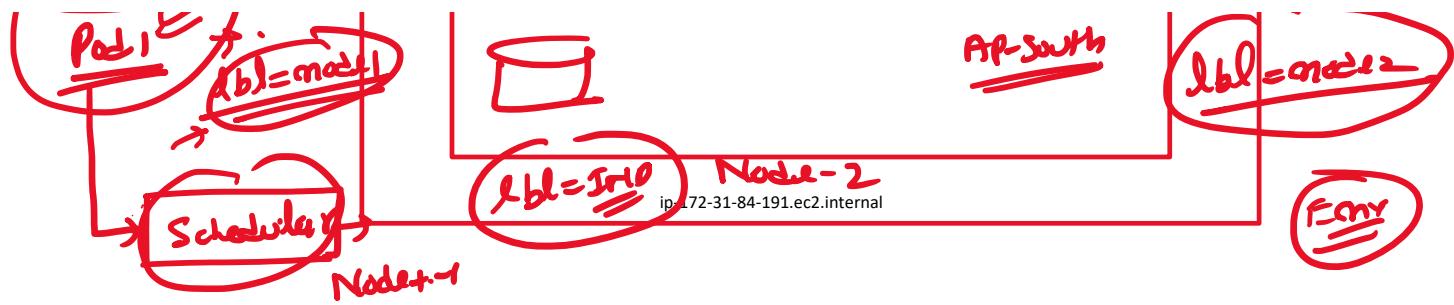


Node Selector

Label Key: value

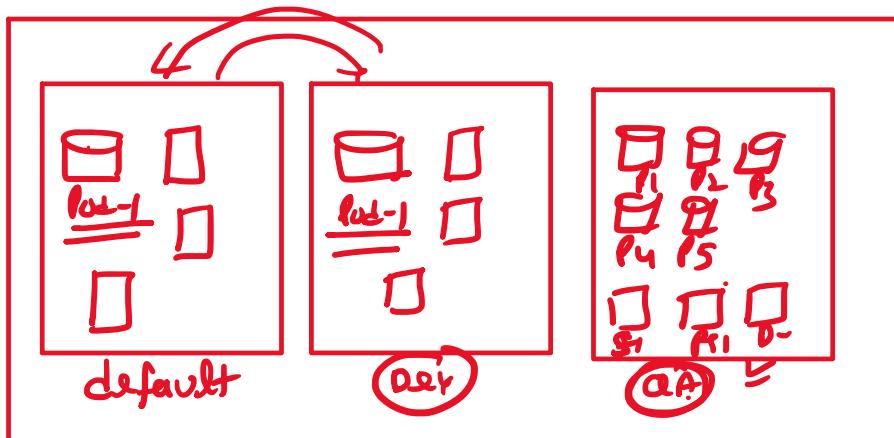
Geo



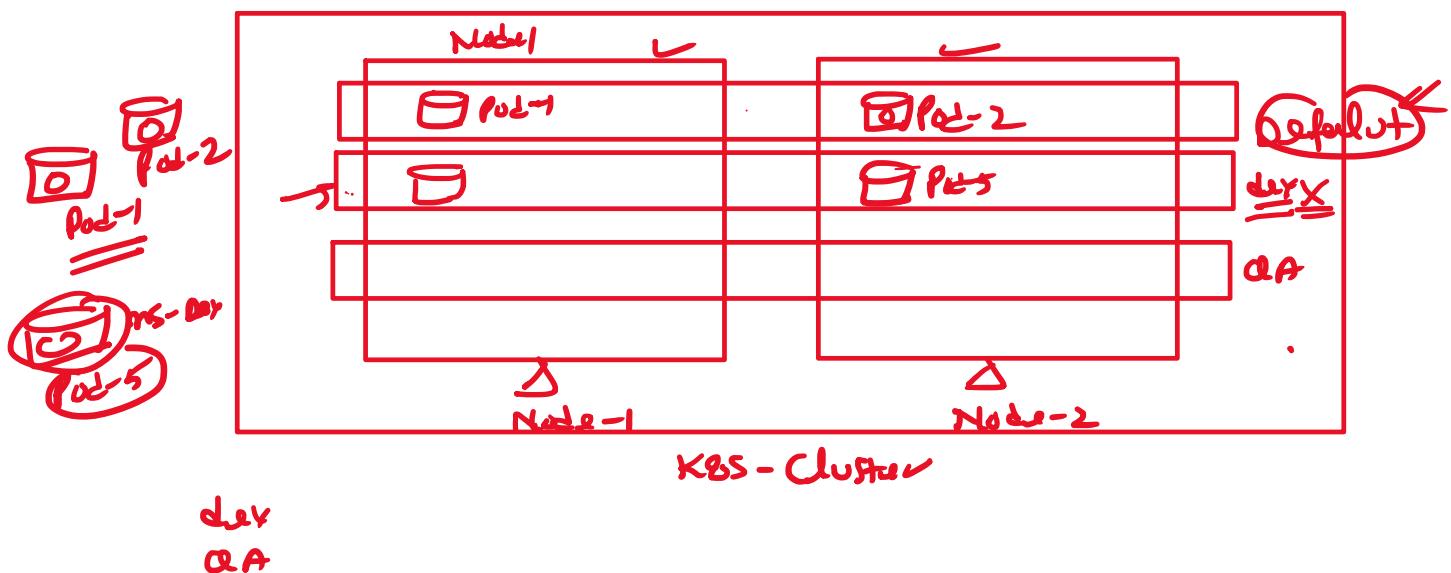


NameSpace

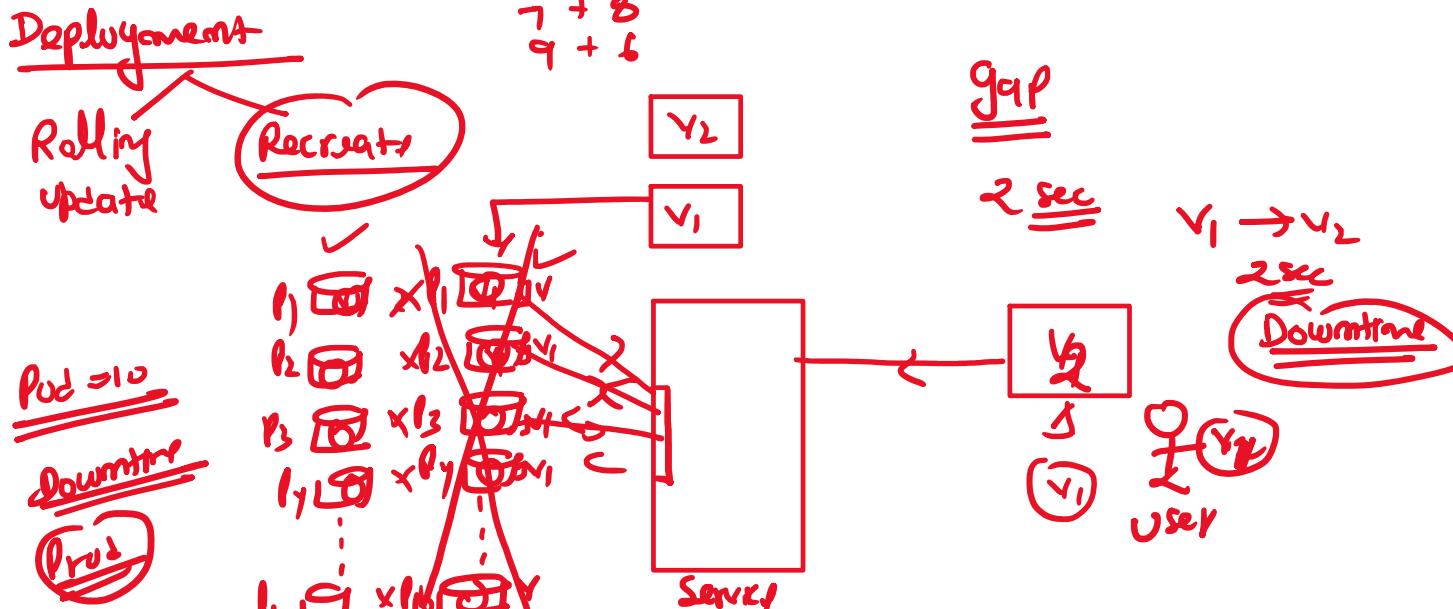
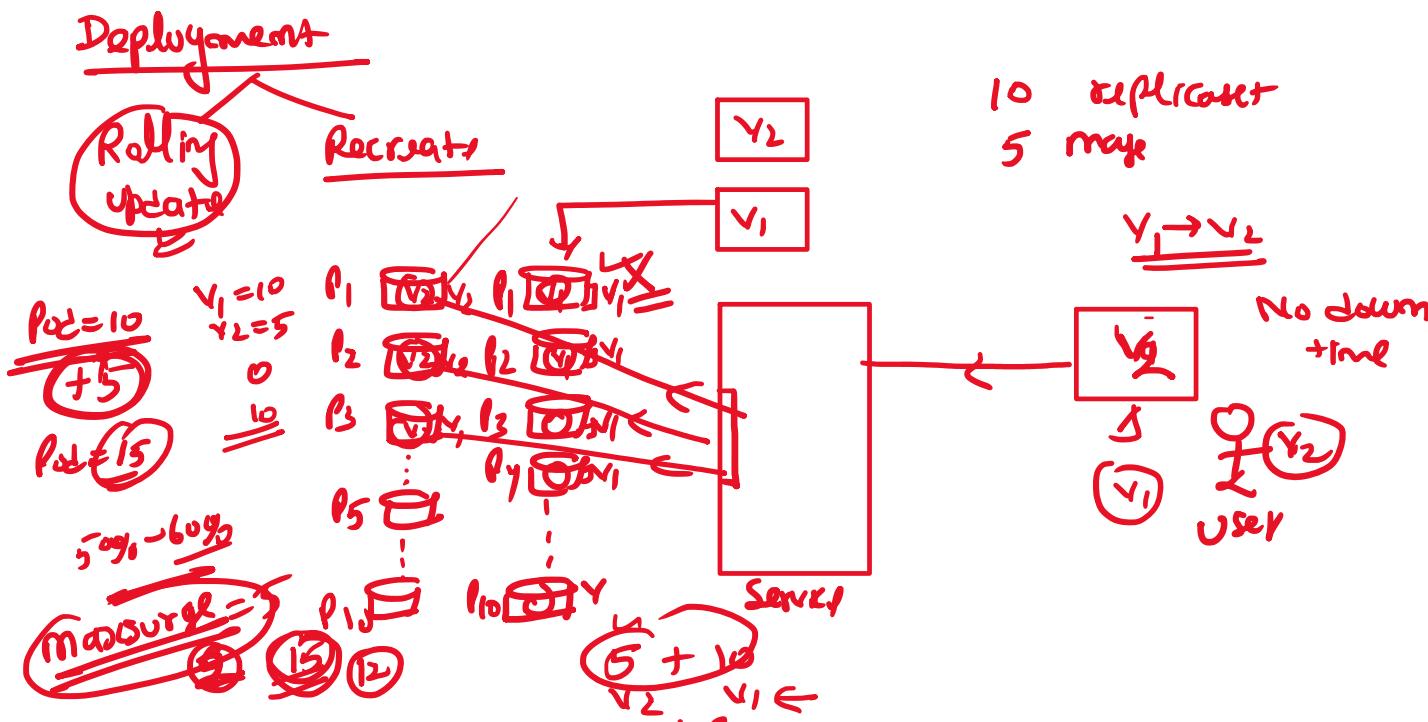
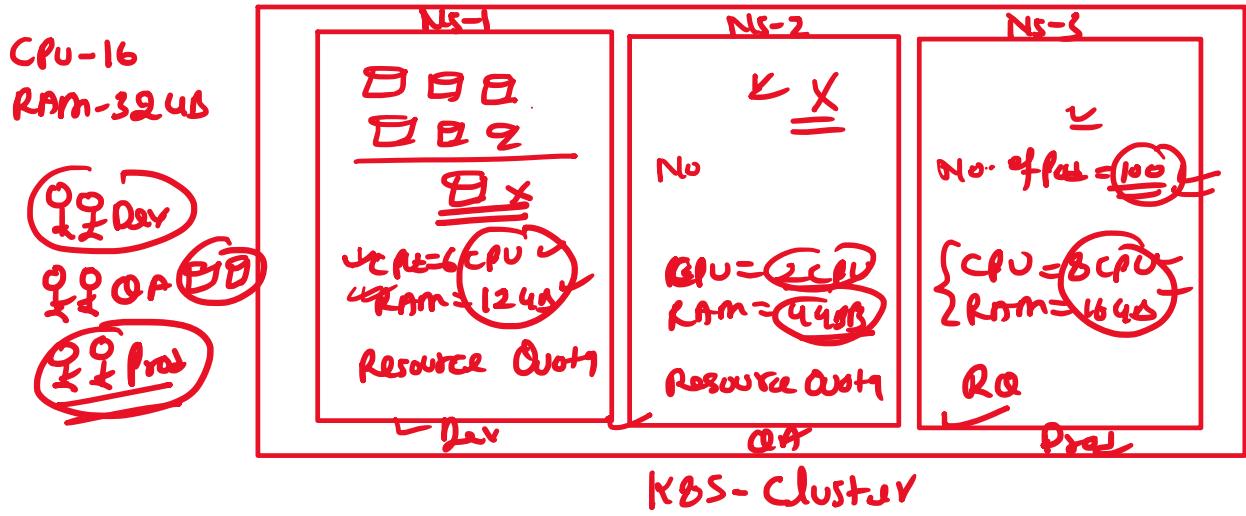
→ default
 Pod
 dev Sync
 PS Deploy
 dev

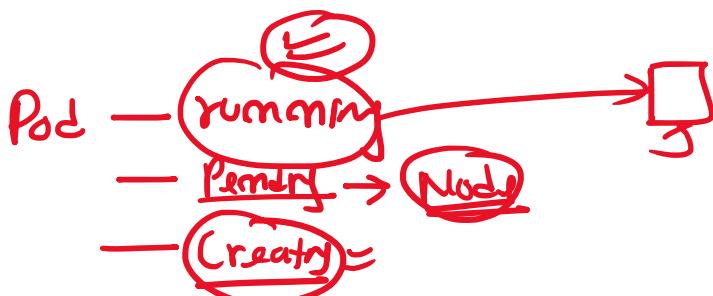
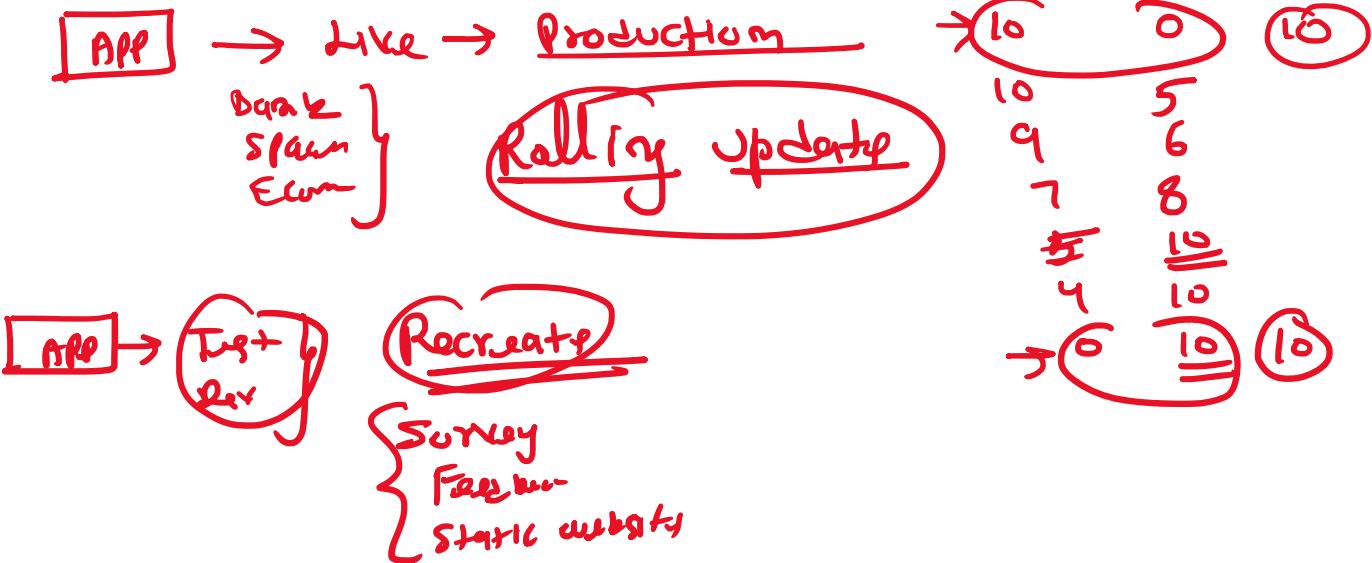


- ① Put Similar Object/Resource Together
- ② Name Collision Avoidance
- ③ Single Point Control !



Resource Quota im Namespace





```

NAME          READY   STATUS    RESTARTS   AGE
pod/deployment-rolling-57794c794f-bh75r  1/1     Running   0          39m  v1
pod/deployment-rolling-57794c794f-jhzbg  1/1     Running   0          39m  v2
pod/deployment-rolling-57794c794f-r9xsp  1/1     Running   0          39m  v3
pod/deployment-rolling-57794c794f-sdxnq  1/1     Running   0          39m  v4
pod/deployment-rolling-57794c794f-t6f2l  1/1     Running   0          39m  v5
pod/deployment-rolling-57794c794f-xs9fh  1/1     Running   0          39m  v6
pod/deployment-rolling-57794c794f-zx4xr  1/1     Running   0          39m  v7
pod/deployment-rolling-7fc657966-6lwm4   1/1     Running   0          5s   v8
pod/deployment-rolling-7fc657966-8fnrnh  1/1     Running   0          5s   v9
pod/deployment-rolling-7fc657966-d5mcpc  1/1     Running   0          5s   v10
pod/deployment-rolling-7fc657966-fwtwd   1/1     Running   0          5s   v11
pod/deployment-rolling-7fc657966-gklcj   1/1     Running   0          5s   v12
pod/deployment-rolling-7fc657966-npv8w   1/1     Running   0          5s   v13
pod/deployment-rolling-7fc657966-v48b9   1/1     Running   0          5s   v14
pod/deployment-rolling-7fc657966-z2x9d   1/1     Running   0          5s   v15

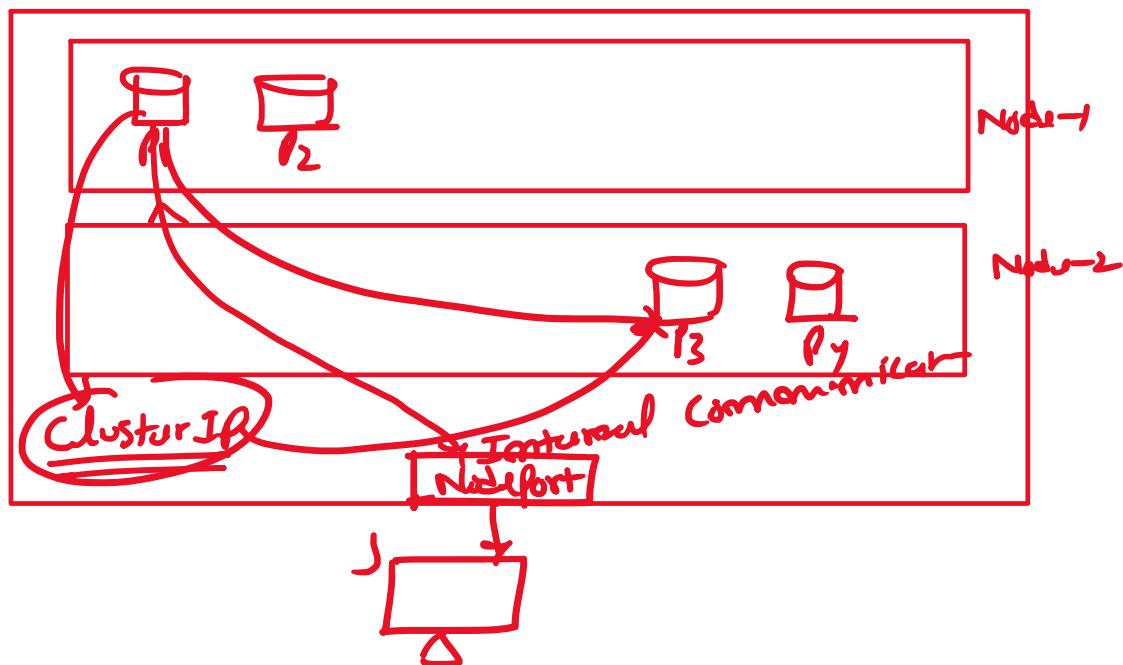
NAME           TYPE        CLUSTER-IP      EXTERNAL-IP    PORT(S)      AGE
service/kubernetes  ClusterIP  10.100.0.1    <none>       443/TCP     18h
service/nodeport-service  NodePort  10.100.221.158  <none>       80:30001/TCP 30m

NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/deployment-rolling  15/10   8           7          39m

NAME          DESIRED   CURRENT   READY   AGE
replicaset.apps/deployment-rolling-57794c794f  7  7  7  39m  v1
replicaset.apps/deployment-rolling-7fc657966  8  8  8  5s   v2

```

PS C:\Users\Administrator\day-2>



```

PS C:\Users\Administrator\day-2> kubectl get all
NAME          READY   STATUS    RESTARTS   AGE
pod/deployment-recreate-6b57d7c75c-s9mgn  1/1     Terminating   0          79s  v1
NAME           TYPE        CLUSTER-IP      EXTERNAL-IP    PORT(S)      AGE
service/kubernetes  ClusterIP  10.100.0.1    <none>       443/TCP     18h
service/nodeport-service  NodePort  10.100.221.158  <none>       80:30001/TCP 55m

NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/deployment-recreate  0/10   0           0          4m17s

NAME          DESIRED   CURRENT   READY   AGE
replicaset.apps/deployment-recreate-58b6d7f86  0  0  0  4m17s  v1
replicaset.apps/deployment-recreate-6b57d7c75c  0  0  0  80s   v2

```

PS C:\Users\Administrator\day-2>