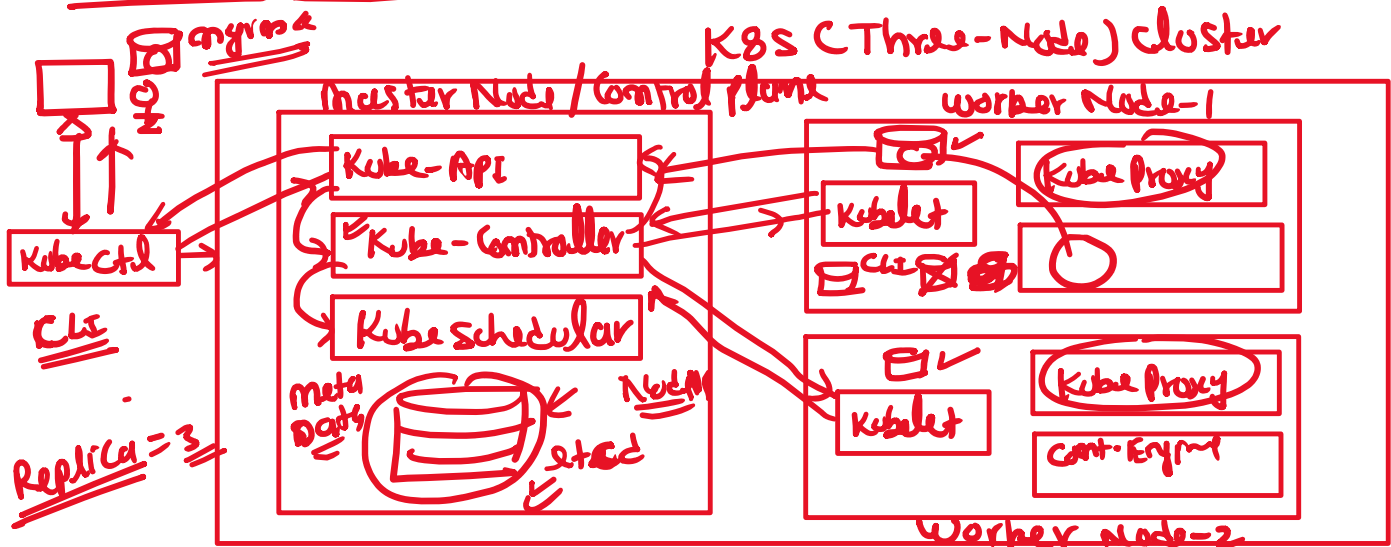# KBS (Day-14)

- KBS Architecture ✓
- Namespace ✓
- Quota ✓
- Config-map ←

EKS
multi-grade Cluster
Node Selector

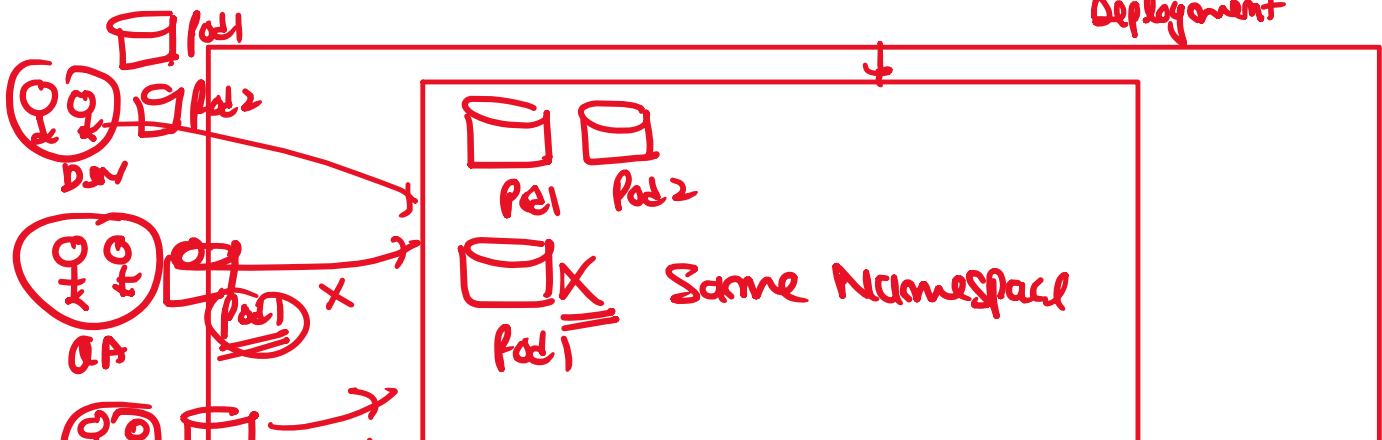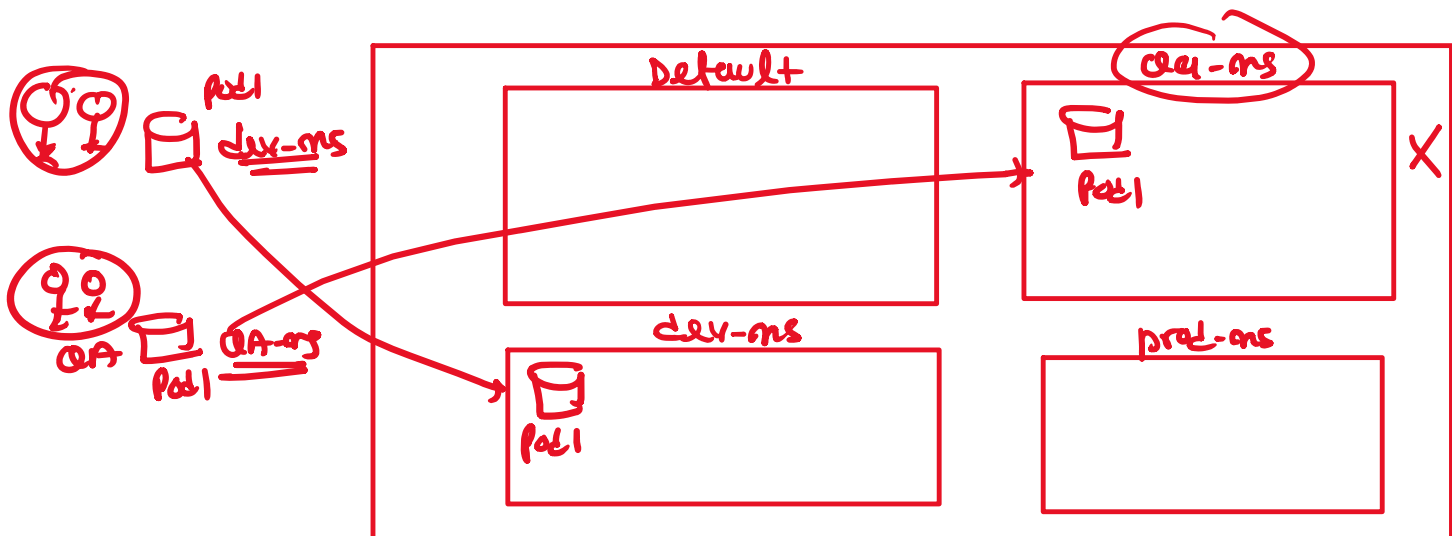## KBS- Architecture

ingress

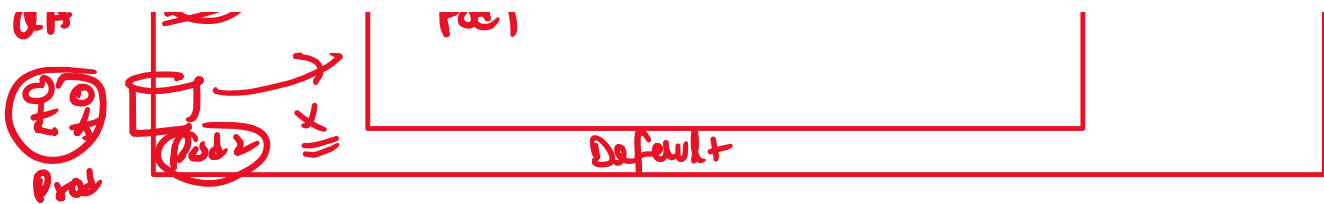K8S (Three-Node) cluster

Master Node / Control plane   Worker Node-1

Kube-API
Kube-Controller
Kube Scheduler
meta Data   etcd   Node

Kubectl
CLI
Replica = 3

Kube Proxy
Kubelet
Cont · Engine

Worker Node-2

① — Kube-API
② — Kube-Controller   M
③ Kube-Scheduler
④ Etcd

⑤ Kubelet
⑥ Kube-Proxy   W
⑦ Cont. Engine

Kubectl

Name space

32GB RAM
16 CPU

Service
RS
Deployment

Pod1
Pod2
DEV

Pod1   Pod2

Pod1   X   Same Namespace
QA   Pod1

Pod 1

Pod 2

Prod

Default

Pod 1

dev-ns

dev-ns

QA-ns

QA

Pod 1

Default

dev-ns

Pod 1

dev-ns

Pod 1

prod-ns

X

1- Name Collision Avoidance
2- Control
3- Isolation

---

200 MB

100 pods 20GB
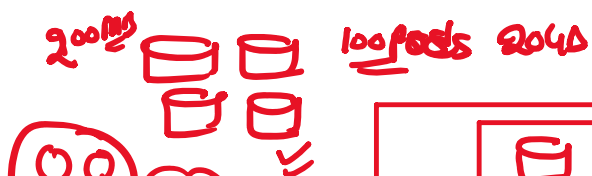
$RAM = 32GB - 20GB = 12GB - 12GB$
$= 0$
$CPU = 16 core$

Dev

dev-ns

20GB

15GB

QA

QA-ns

7GB

Prod

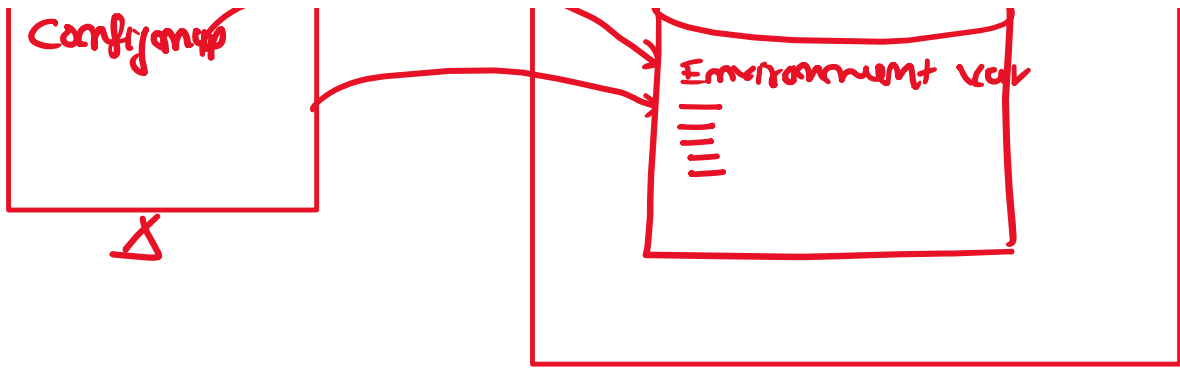Prod 200MB

prodns

12GB

10GB
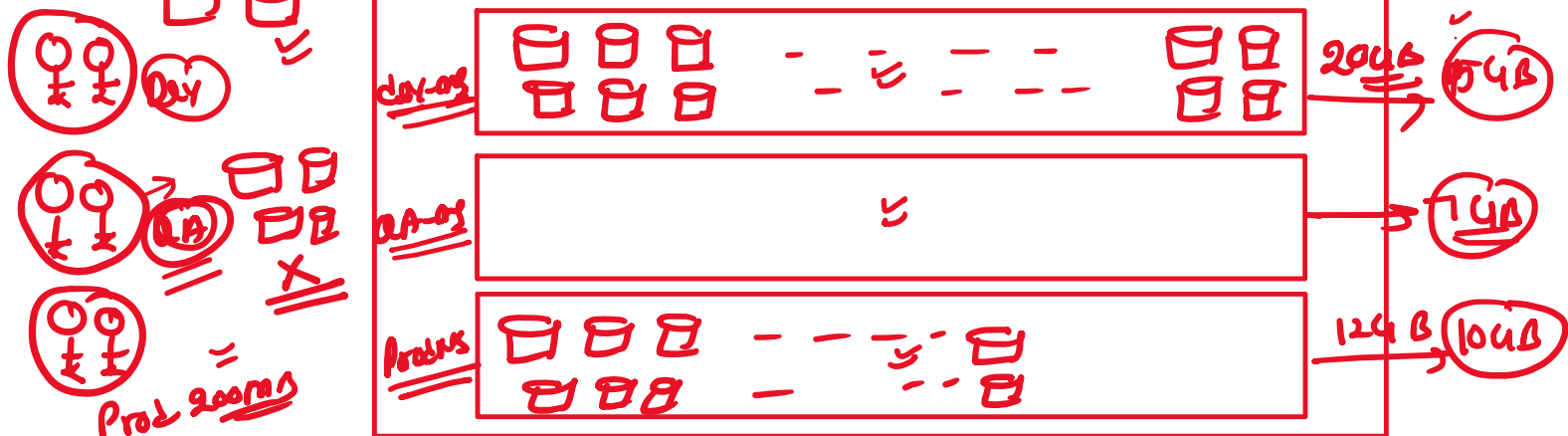
60 Pods

12GB

Quota Limit for Namespace

Configmap → Configuration Mapping

Configmap

Environment var

Configmap

Environment var

DOUBT