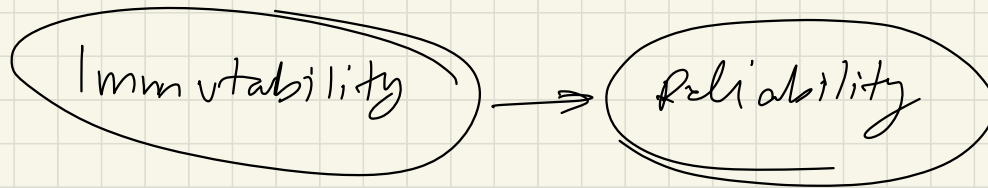


★ Configuration management - Chg, Report



package managers

Managing Containers.

Monolithic
Applications

Frontend
Backend
chat messages
Database
Networking

micro services.

- Containers

- fault isolation

How to manage?

How to communicate?

Service mesh

Frontend → S1

Backend → S3

Database → S2

Messages → S2

Networking → S1

One app on one VM.

This is not cool for scaling. Hence Docker.

Orchestrators → Helps us in deploying

& managing containers dynamically.

- Deploy
- Zero-downtime updates
- Scale
- Self-Heal containers.

→ Cloud-Native

AWS offered Cloud

Openstack → X

Borg, Omega

Google made K8s

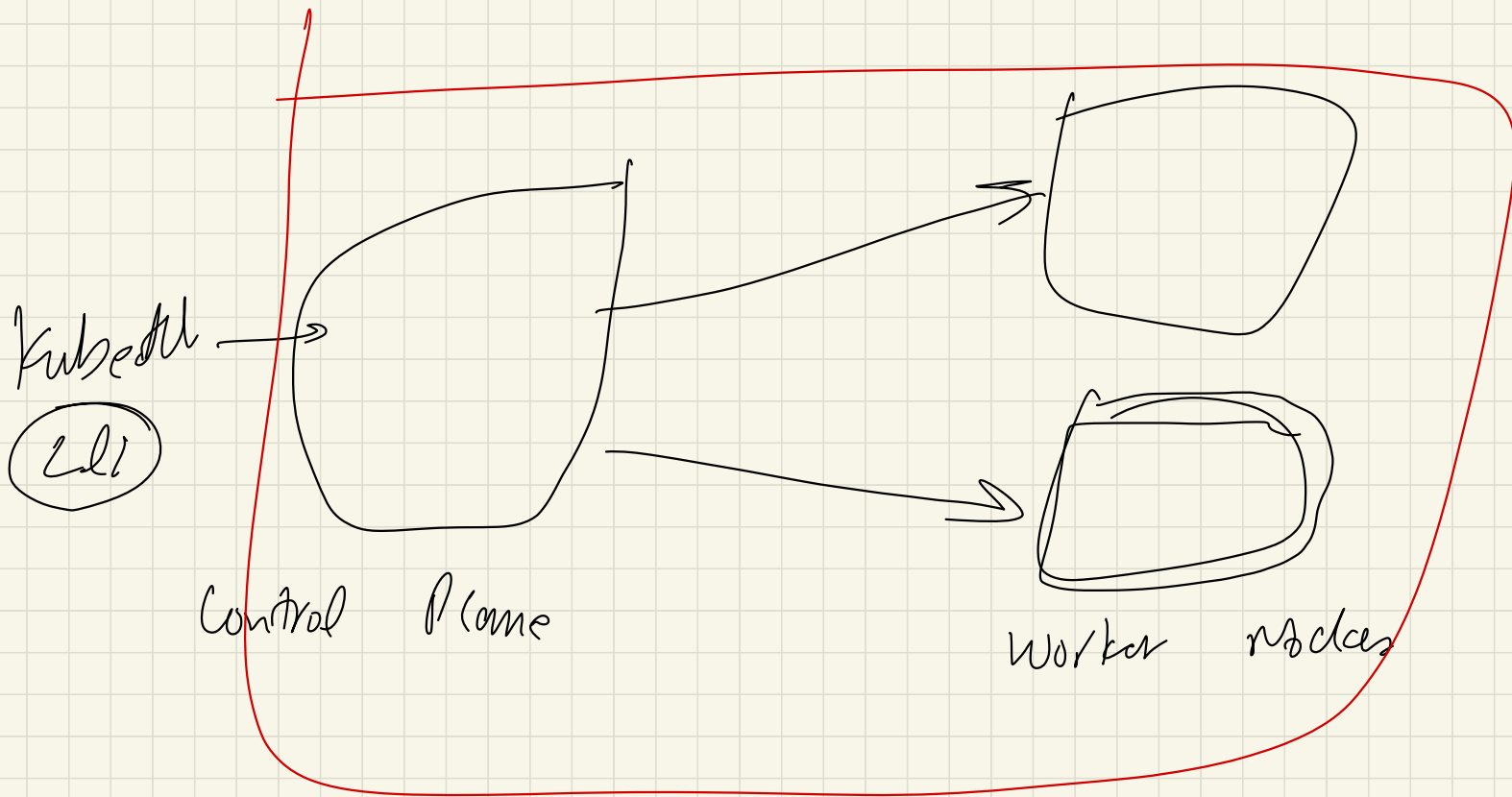
Kubernetes

8

OS in 2014
& donated it to
CNCF.

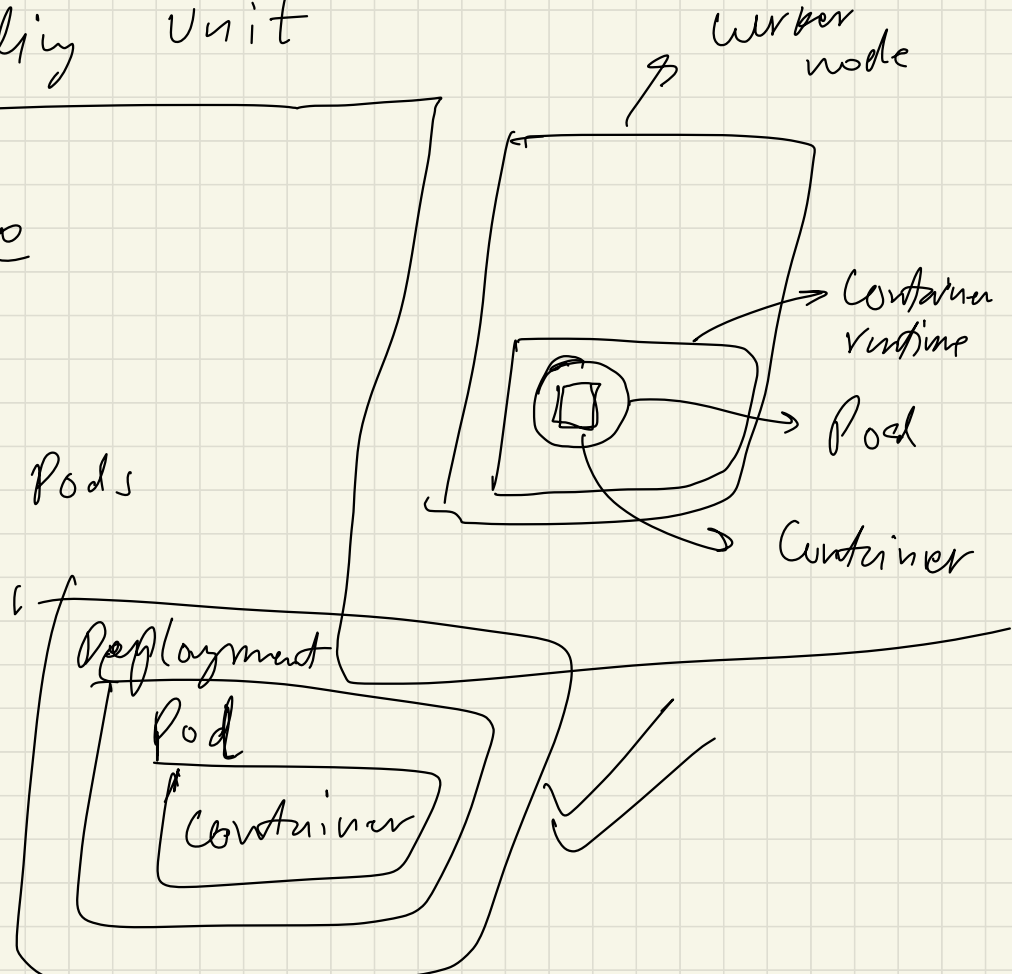
★ CRI → containerd

✓ Cluster → Control Plane + Nodes

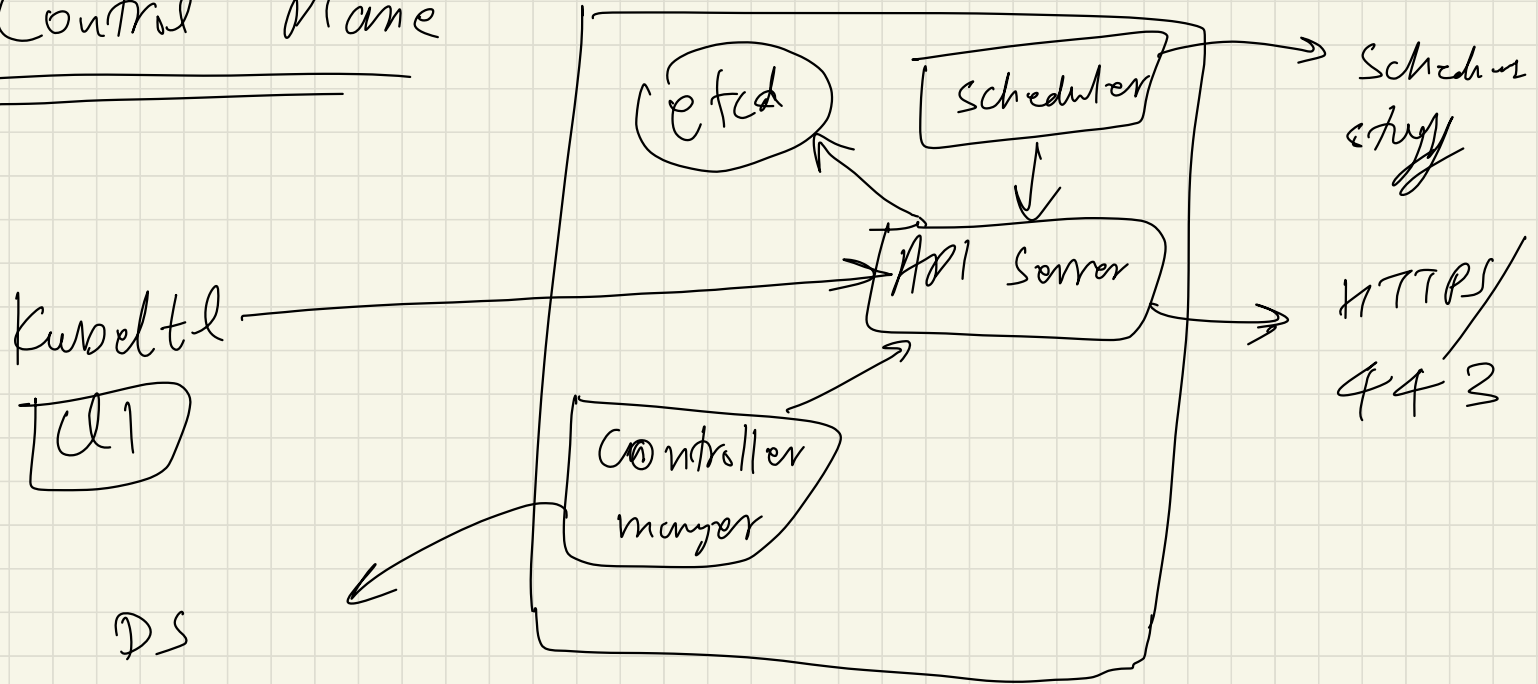


Pod \rightarrow Scheduling unit

- ① Create microservice
- ② Containerise it
- ③ Put container in Pods
- ④ Deploy these Pods to controllers.

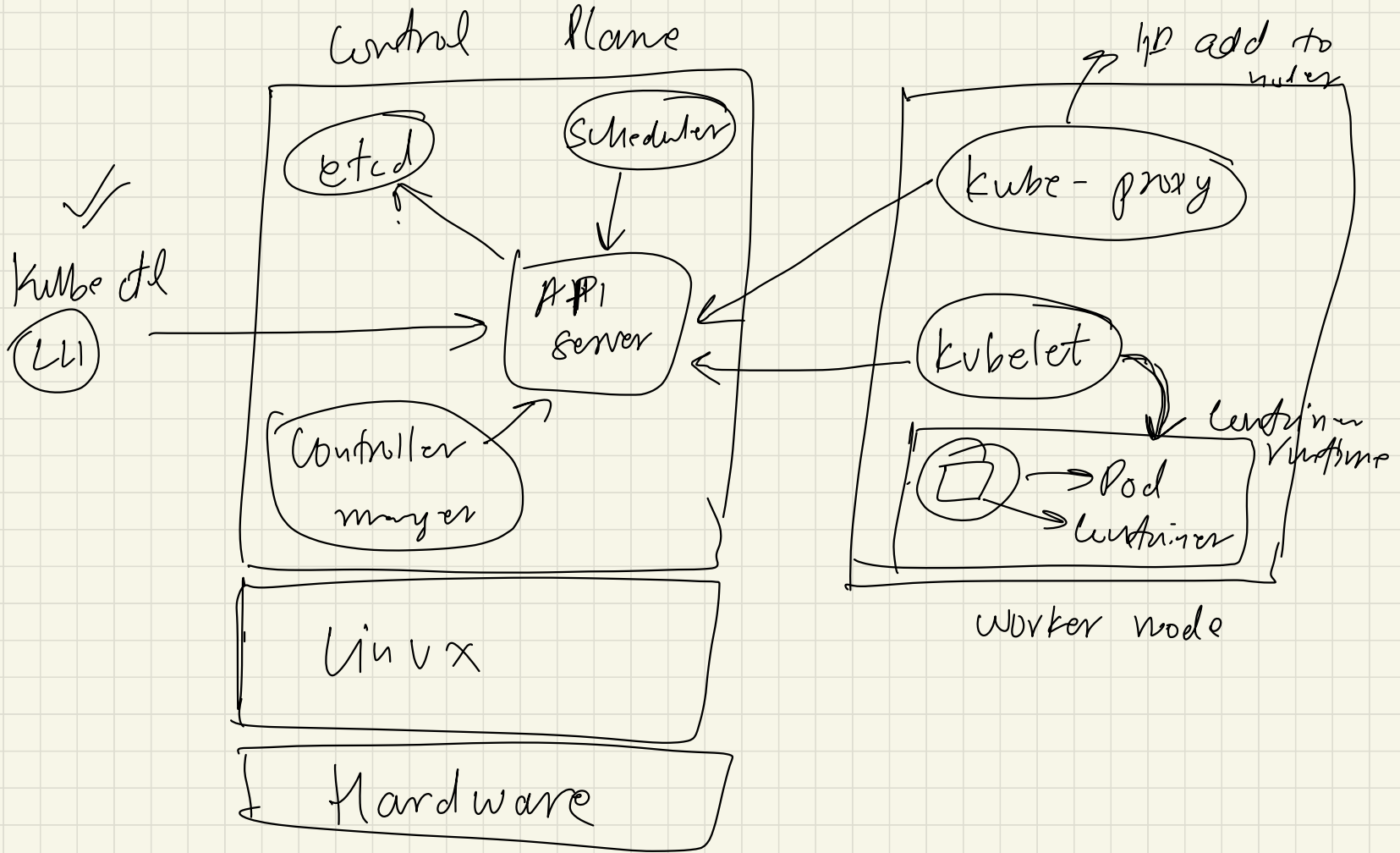


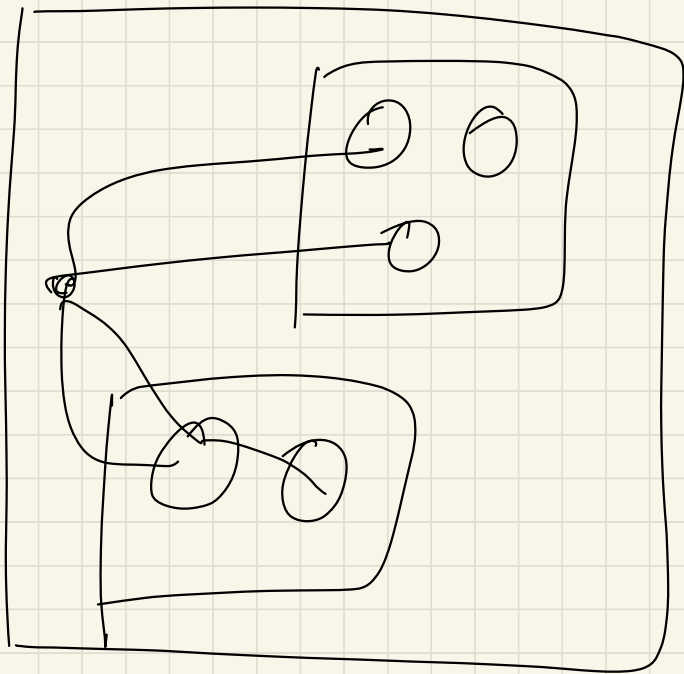
Control Plane



Architecture of control plane

Differences
make the changes





K8 & DNS

Core DNS

Installation:

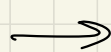
① kubectl

② minikube → Docker Desktop **FREE**

③ kubectl

④ Best option : Cloud Provider

Civo



low cost
very faster

civo.com/academy

\$250

