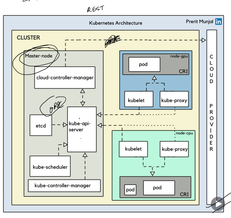
1.1 — 1992
2 2015
3 2022

Monolith vs Microservice

API

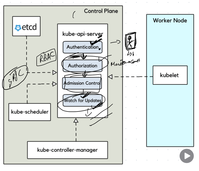
gRPC vs REST
↳ Encryption
↳ Extensibility
↳ Key metrics to track

HTTP/1.1 (1997) vs HTTP/2 (2015)
JSON/XML
NO
Text based
Protobuf (Google)
Multiplex - binary
Binary format



API Server
↳ Security
↳ Throughput / Throttle / Bottlenecks

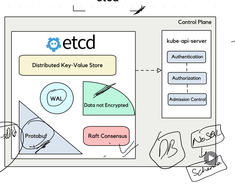
Ep. 1 kube-api-server — Prerit Munjal



etcd
→ Why?
→ Alternatives
→ Bottleneck
→ Throughput

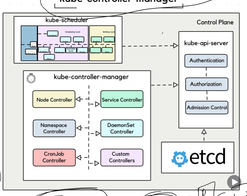
Ep. 2 Admission Controllers — Prerit Munjal

Ep. 3 etcd — Prerit Munjal



Ep. 4 kube-scheduler — Prerit Munjal

Ep. 5 kube-controller-manager — Prerit Munjal

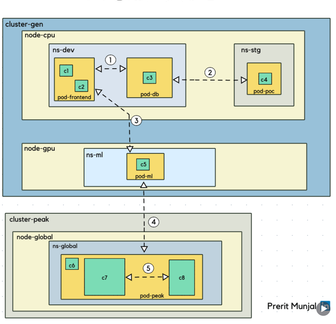
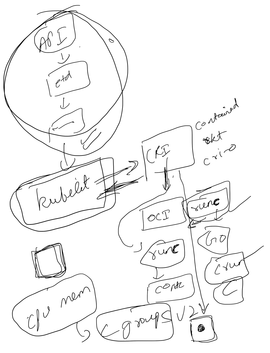


Kube-proxy & Kubelet → Captain Daemons
↳ Functions
↳ All the tasks
↳ Service discovery

CNI | CRI vs CSI

Functions, the entire flow

Kubelet
↳ Talk CRI to take care of the Containers
↳ Configure cGroups
↳ Configure Pod's network using CNI
↳ Pull Images
↳ Start the Container
↳ run the application

Extras?
↳ cGroup V2
↳ cAdvisor
↳ crun & runc

CRI → runc → cont
OCI runtime