KubeCon
CloudNativeCon
North America 2023

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Learning Kubernetes by Chaos

Breaking a Kubernetes Cluster to Understand the Components

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VMware

Anderson Duboc

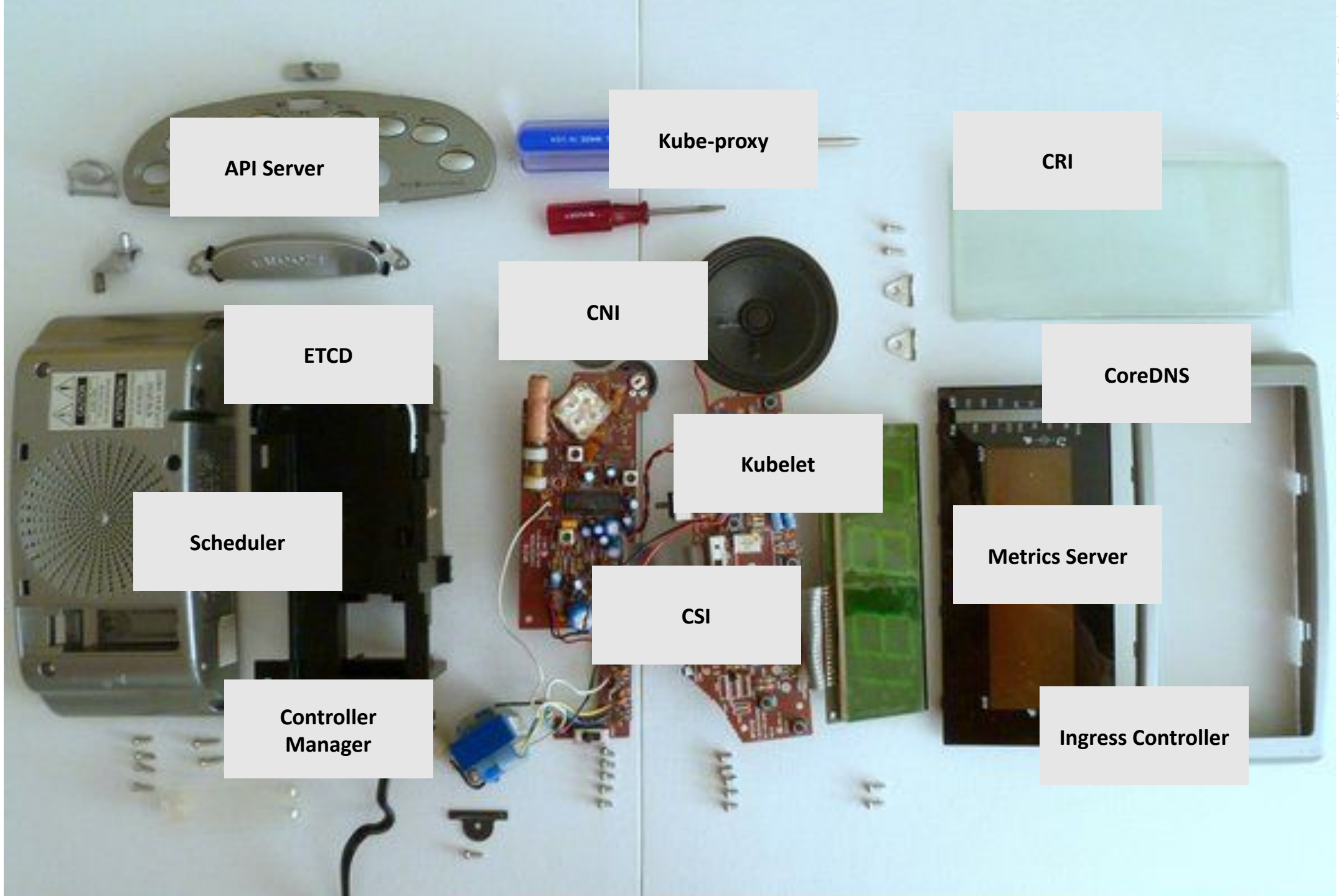
Google Cloud

Learning Kubernetes by Chaos

Breaking a Kubernetes Cluster to Understand the Components

What is Kubernetes?

AUX
RCA
AM
12:05
$4.99
2 BAND AM FM CLOCK RADIO


API Server
Kube-proxy
CRI
CNI
ETCD
CoreDNS
Kubelet
Scheduler
Metrics Server
CSI
Controller Manager
Ingress Controller

Ooops, we forgot something…and the cluster is broken now

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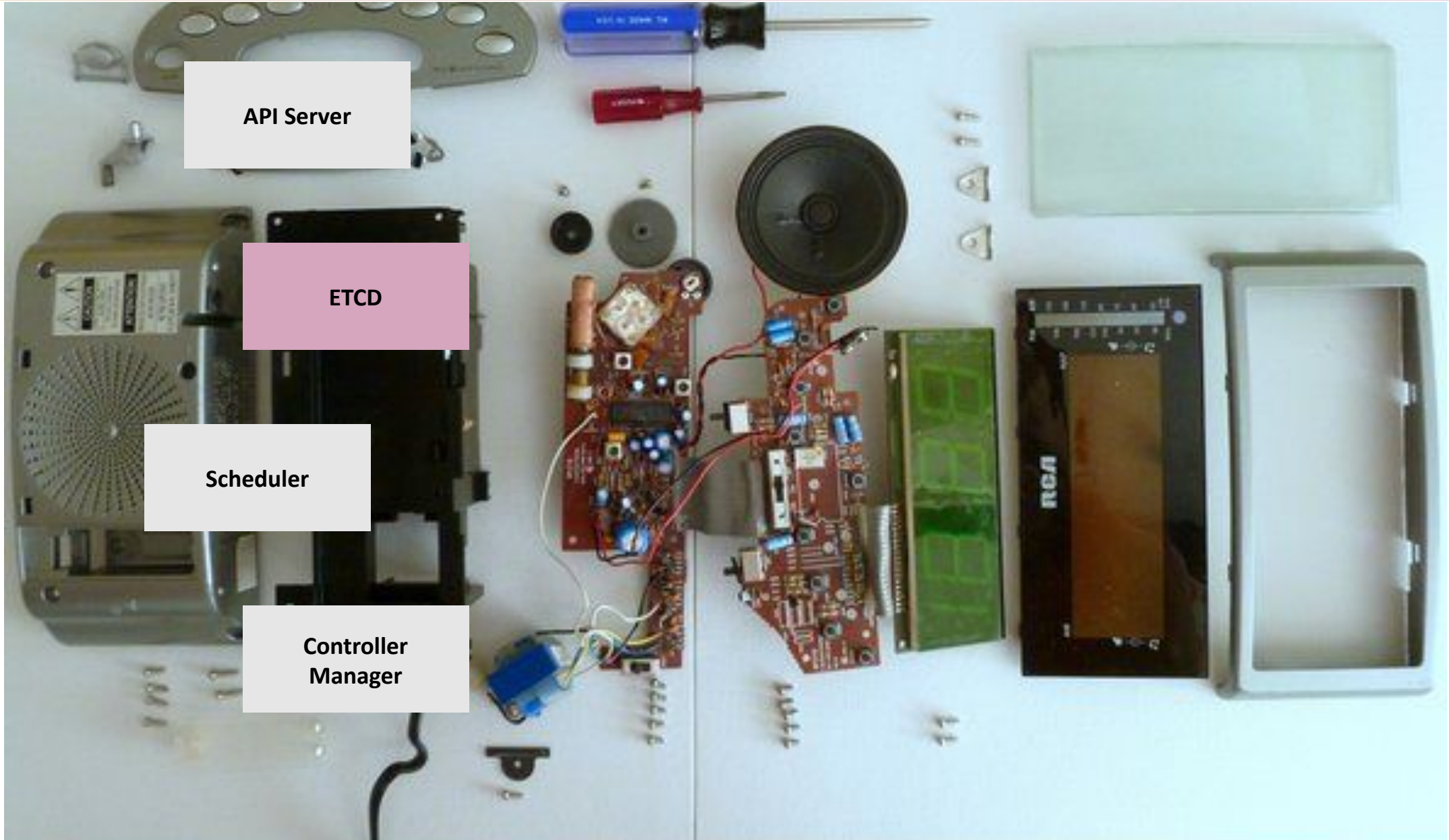
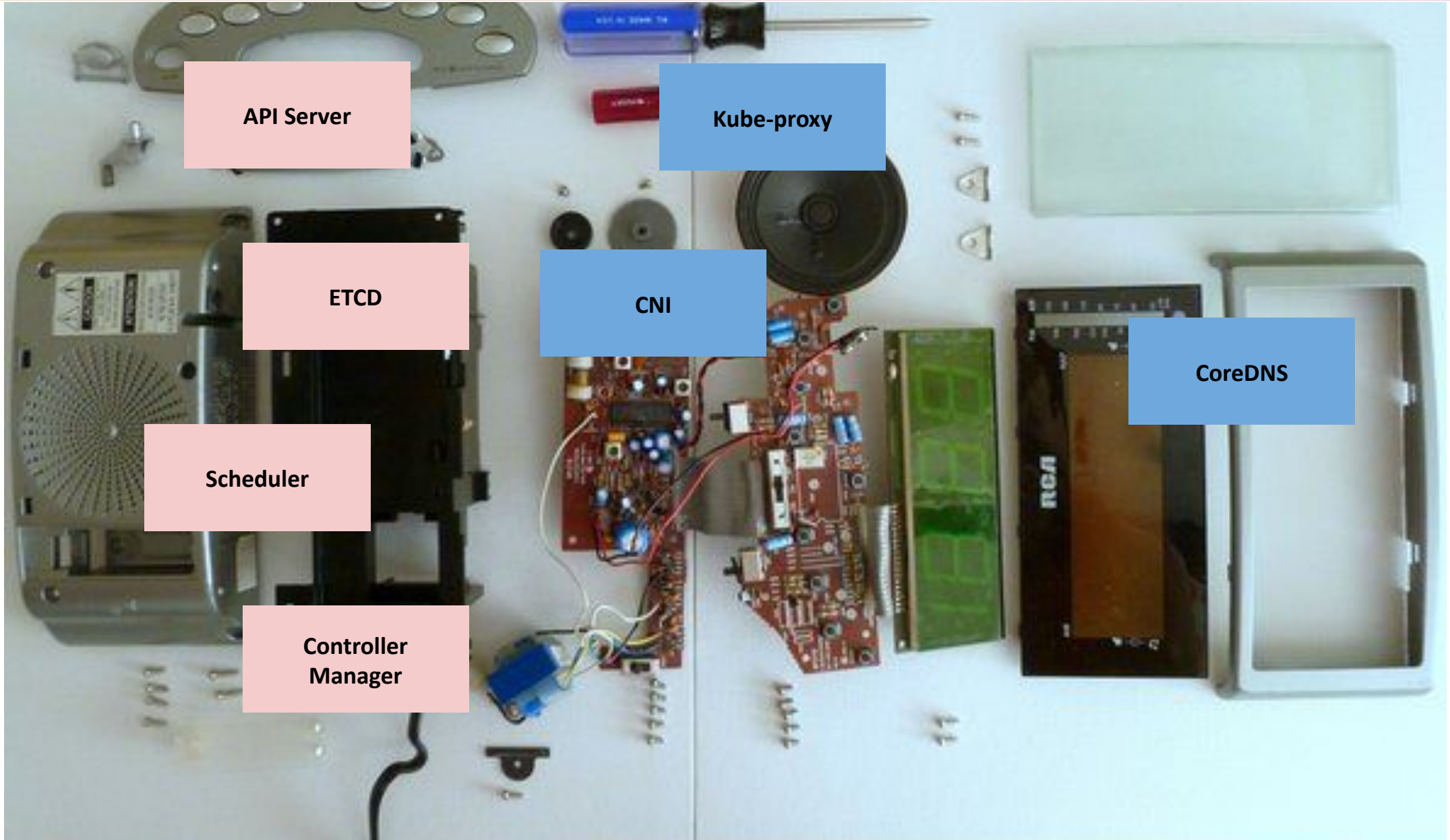
Let’s see under the hood

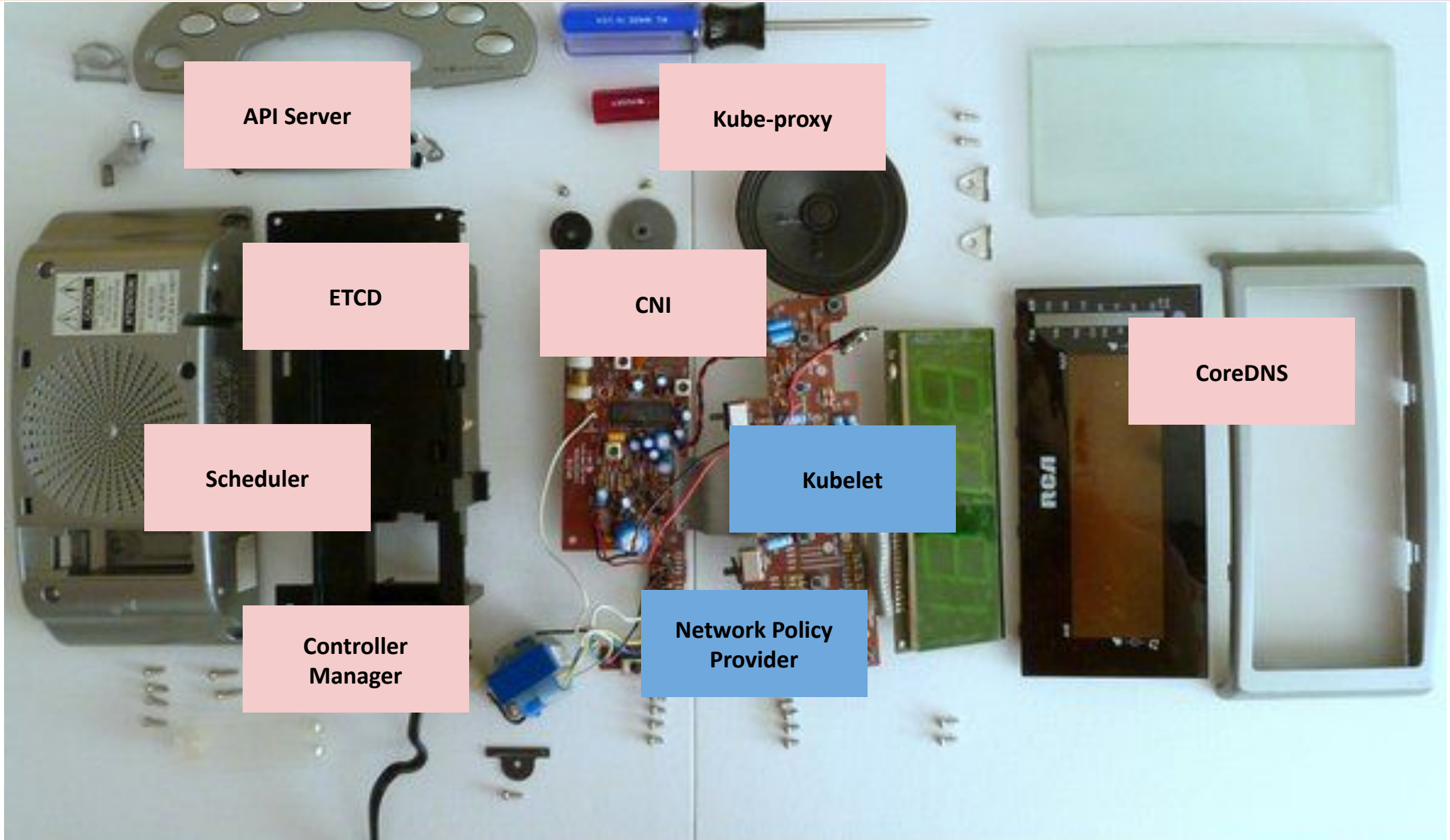
Part 1 - Control Plane



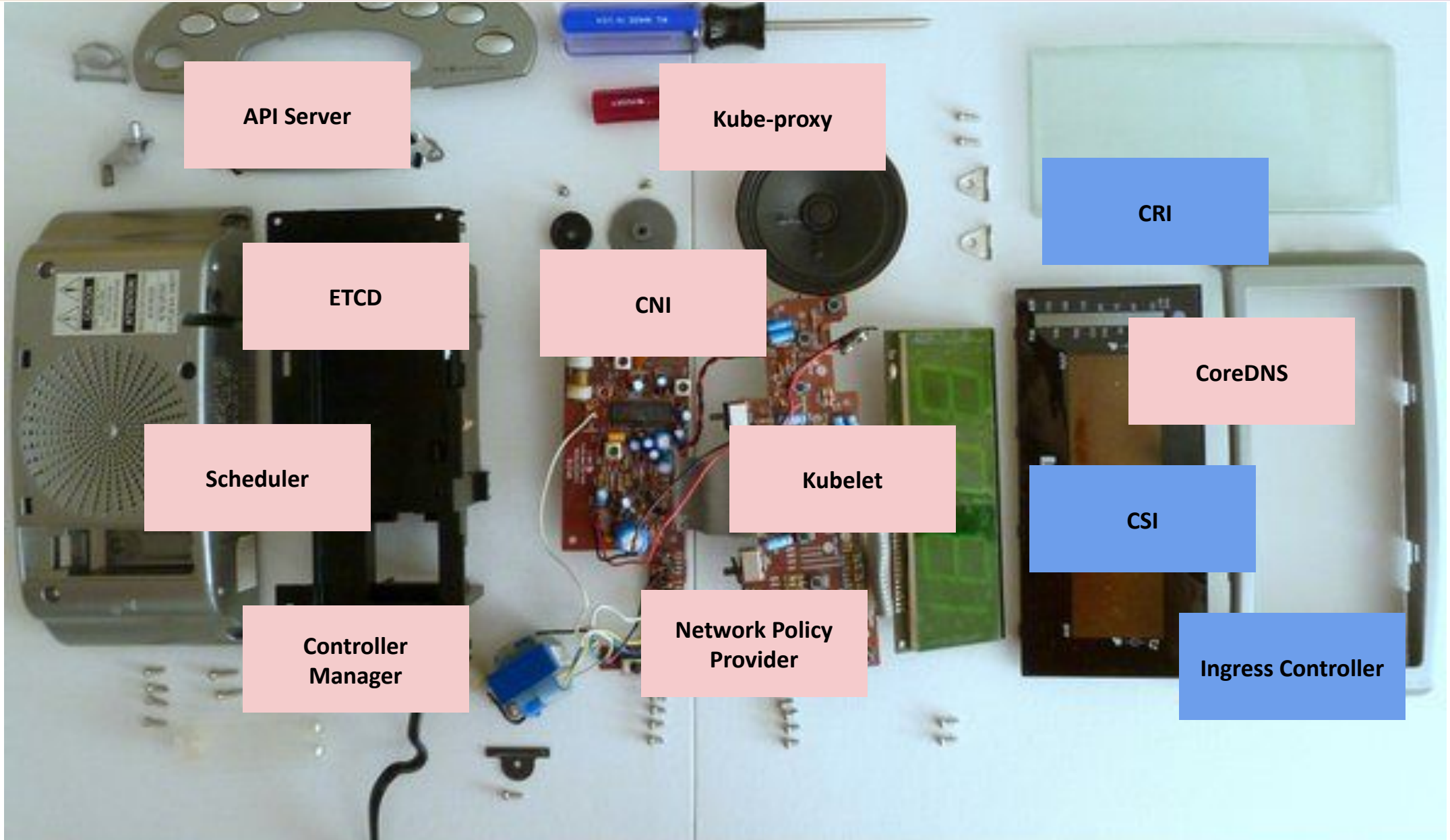
Part 2 - Networking



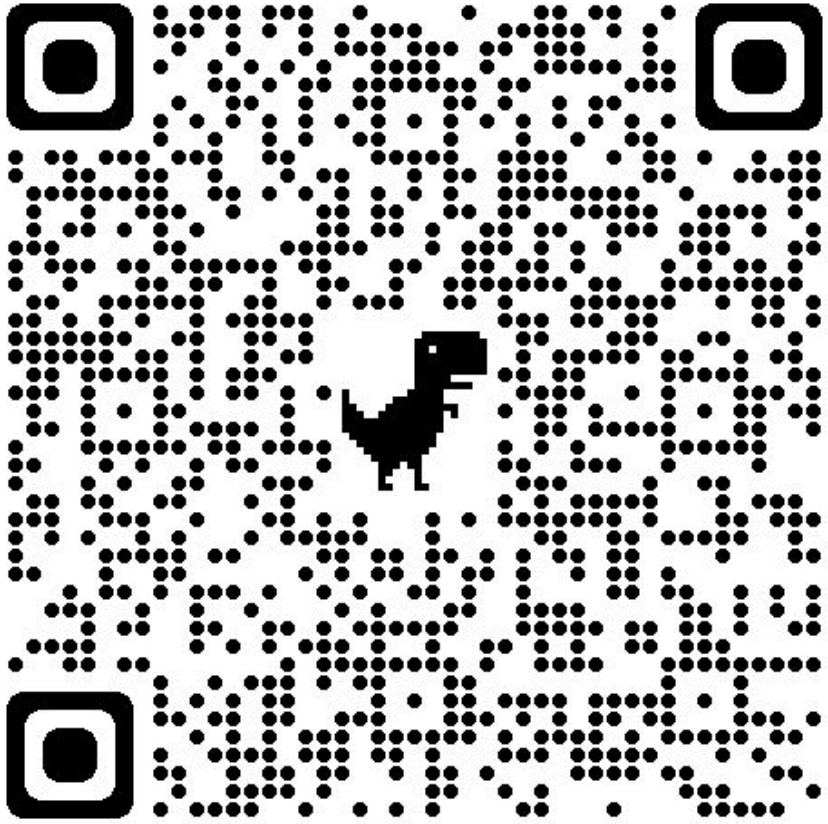
Part 3 - Extra


API Server
Kube-proxy
ETCD
CNI
CoreDNS
Scheduler
Kubelet
Controller Manager
Network Policy Provider

What we didn't covered



Kubernetes Networking Model



https://kubernetes.io/docs/concepts/services-networking/#the-kubernetes-network-model

Collateral

https://github.com/rikatz/kubeconna-2023

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