kubernetes

High Availability Intro

➤ **High Availability in K8s -**

➤ What High-Availability Mean

➤ HA Control Plane

➤ Etcd Management
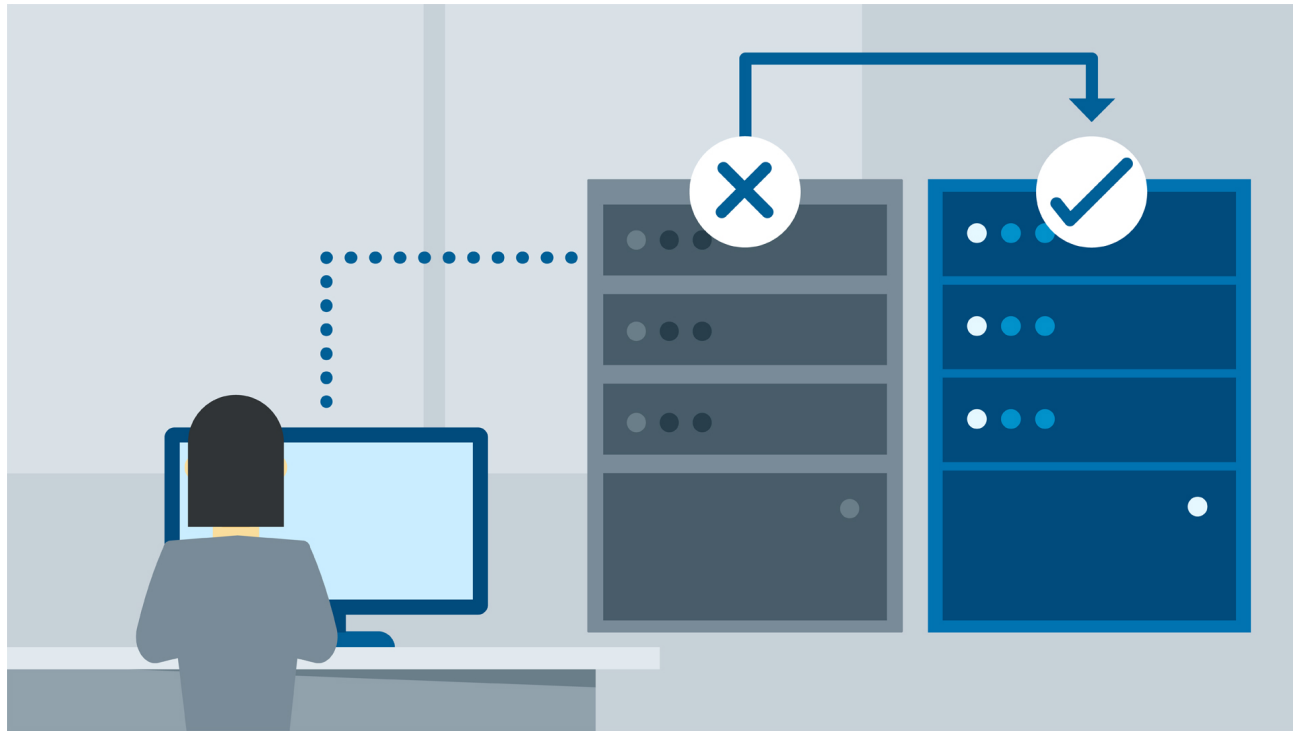
➤ **<u>High Availability in K8s -</u>**

➤ K8s facilitate HA Applications.

➤ Infra HA is necessary.

➤ Cluster also needs to be highly available to support Application HA.
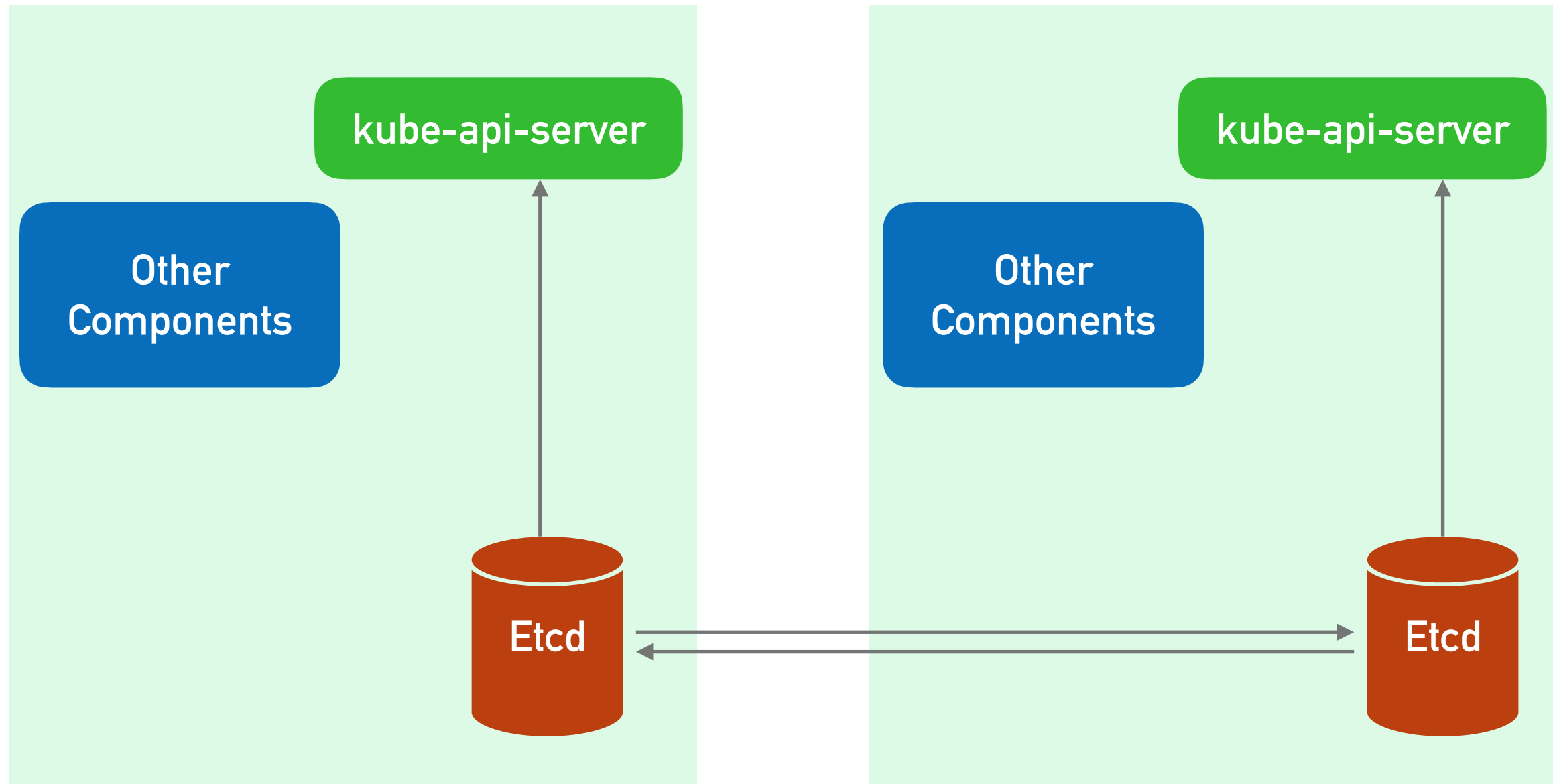
Learn Kubernetes by Doing : K8s Hard Way

Control Plane 1   *Control Plane 2*

kube-api-server   kube-api-server

Load Balancer

Worker Node

Kubelet
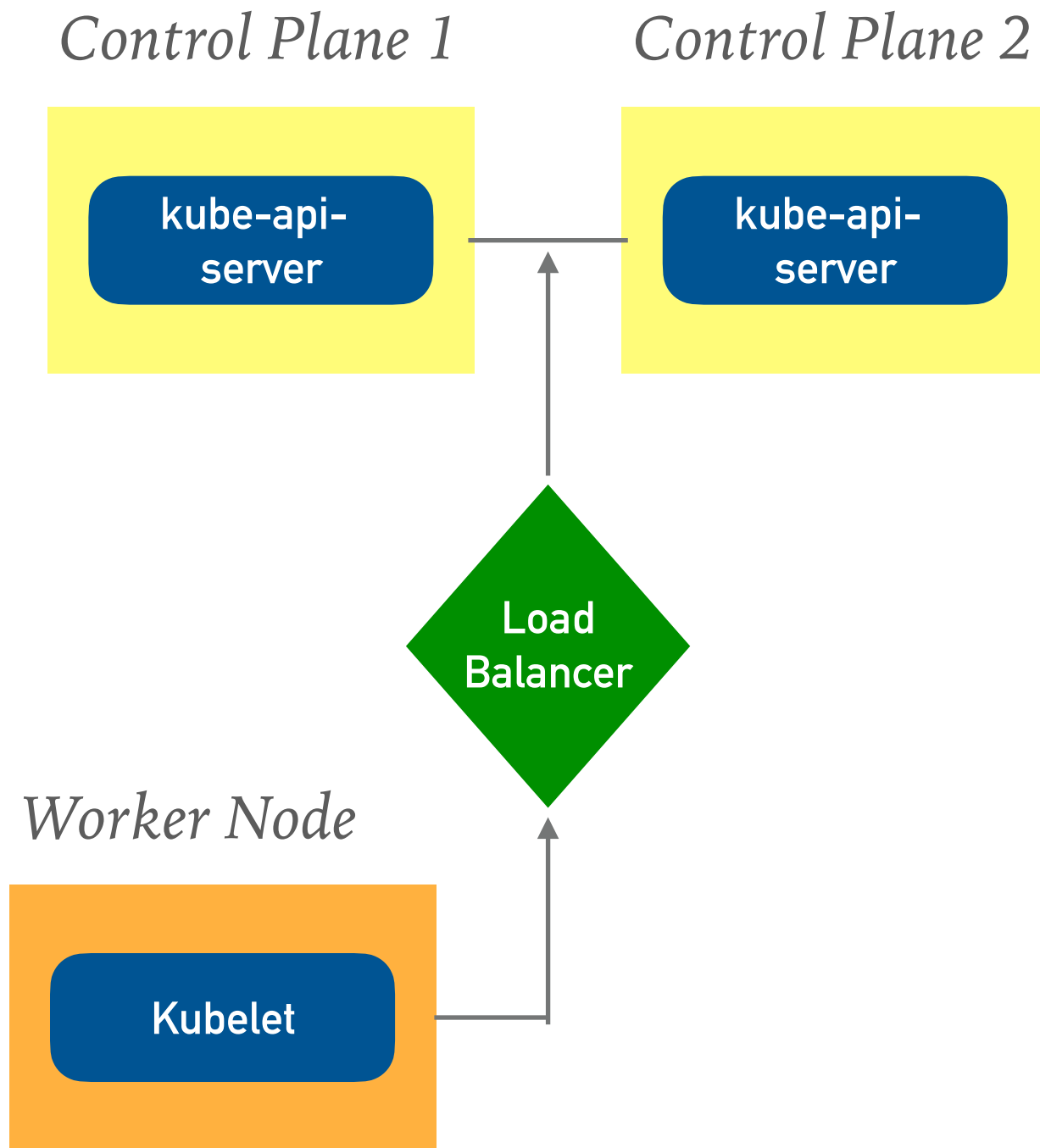
➤ **High Availability in K8s -**

➤ To Facilitate Cluster HA, we need multiple Control Planes.

➤ User needs Load Balancer to Comm. with multiple Control Planes.

Learn Kubernetes by Doing : K8s Hard Way

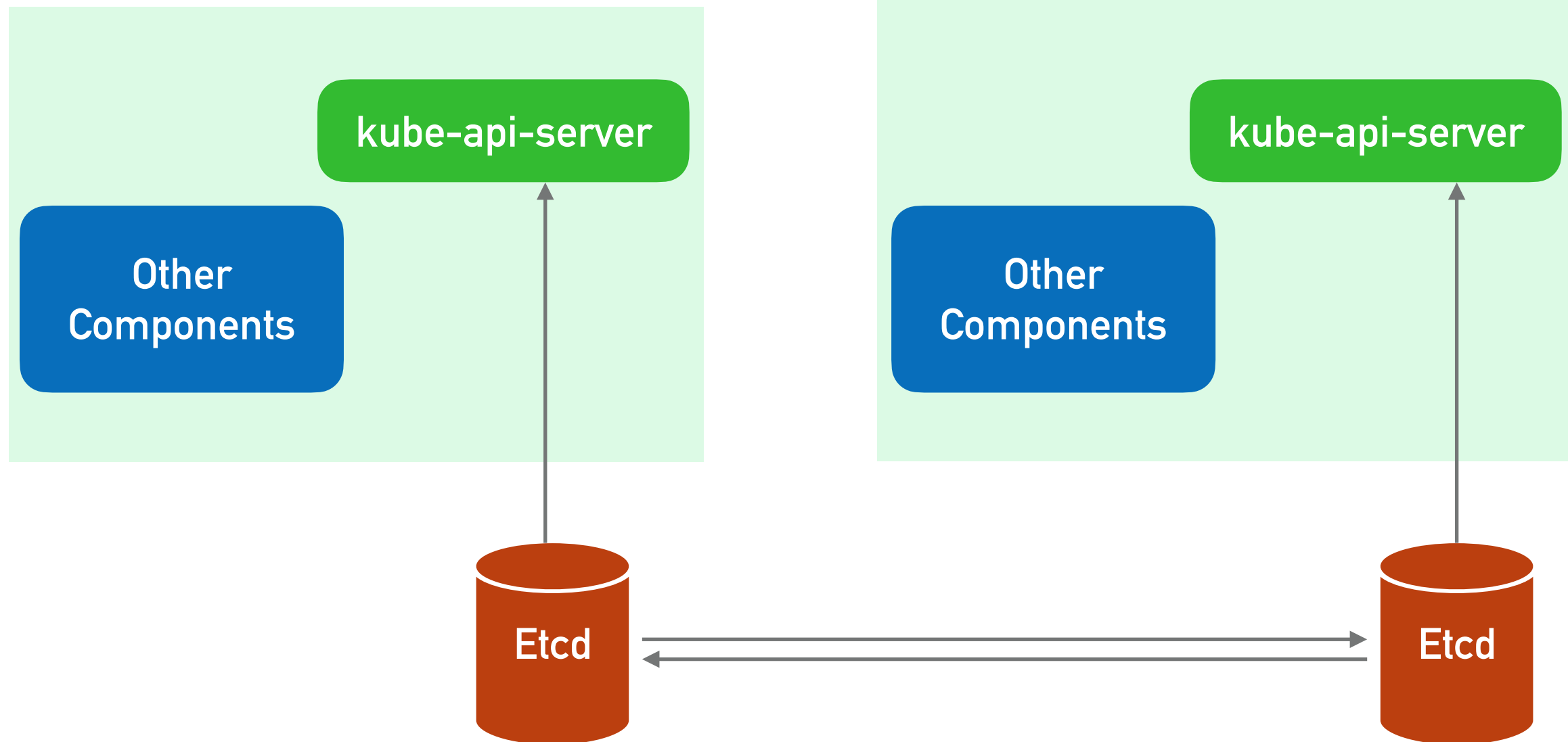## Stacked Etcd

Control Plane 1

Control Plane... n

kube-api-server

Other Components

Etcd

kube-api-server

Other Components

Etcd

Learn Kubernetes by Doing : K8s Hard Way

External Etcd

Control Plane 1

Control Plane... n

kube-api-server

kube-api-server

Other Components

Other Components

Etcd

Etcd

Running on Separate Nodes

See you in next lecture …