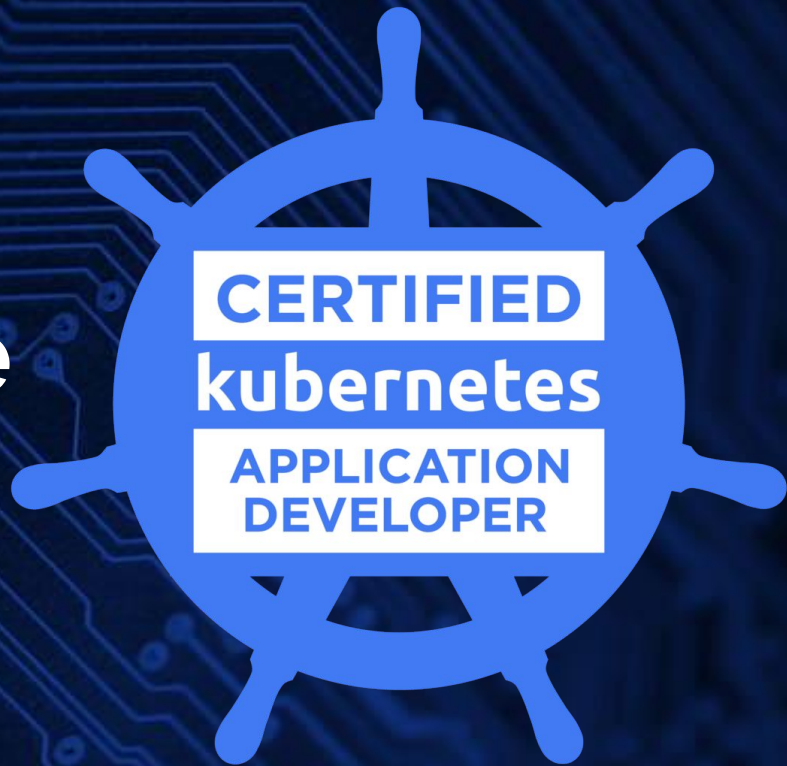


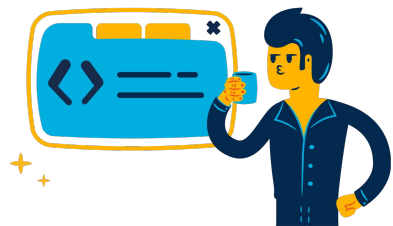
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# CKAD : Complete Certification Guide

K8s Architecture Deep-Dive



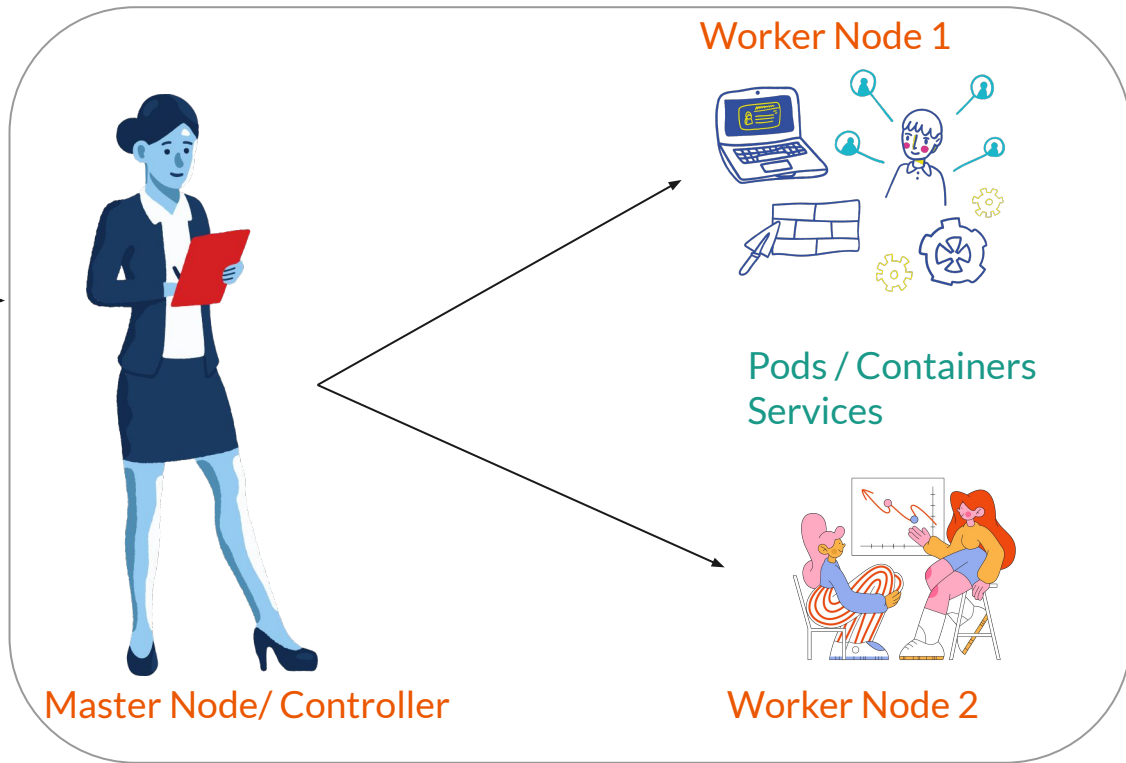
# CKAD : Certification



Admin/Developer



API  
CLI  
GUI

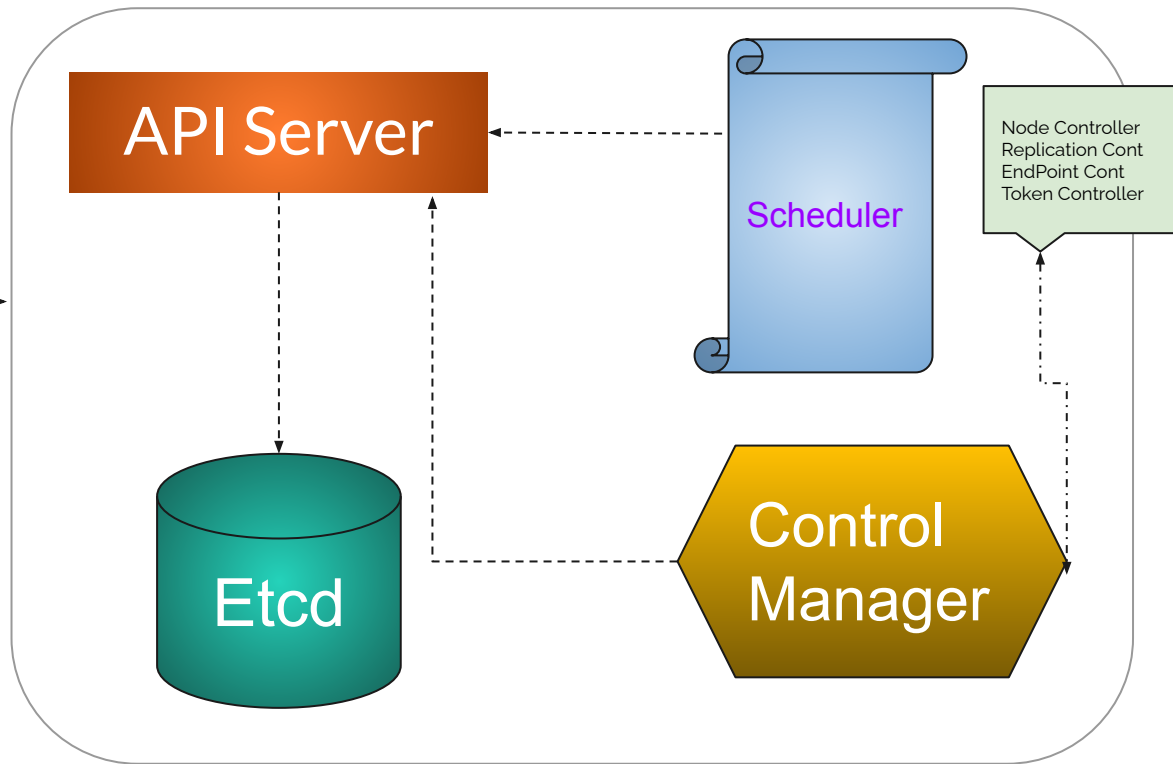


# CKAD : Certification

Master Node/ Controller



Admin/Developer



# CKAD : Certification

## ➤ Kube ApiServer -

- Only Interaction point to interact with K8s Cluster.
- Accept Rest Commands to Interact with Cluster Resources.

## ➤ Etcd -

- Distributed key-value store for cluster state.
- Used as Back-end Service.

# CKAD : Certification

- **Kube Scheduler -**
  - Regulate tasks on slave nodes.
- **Controller -**
  - Manage Kubernetes Jobs.
  - Manage all Probes and Auto Jobs.

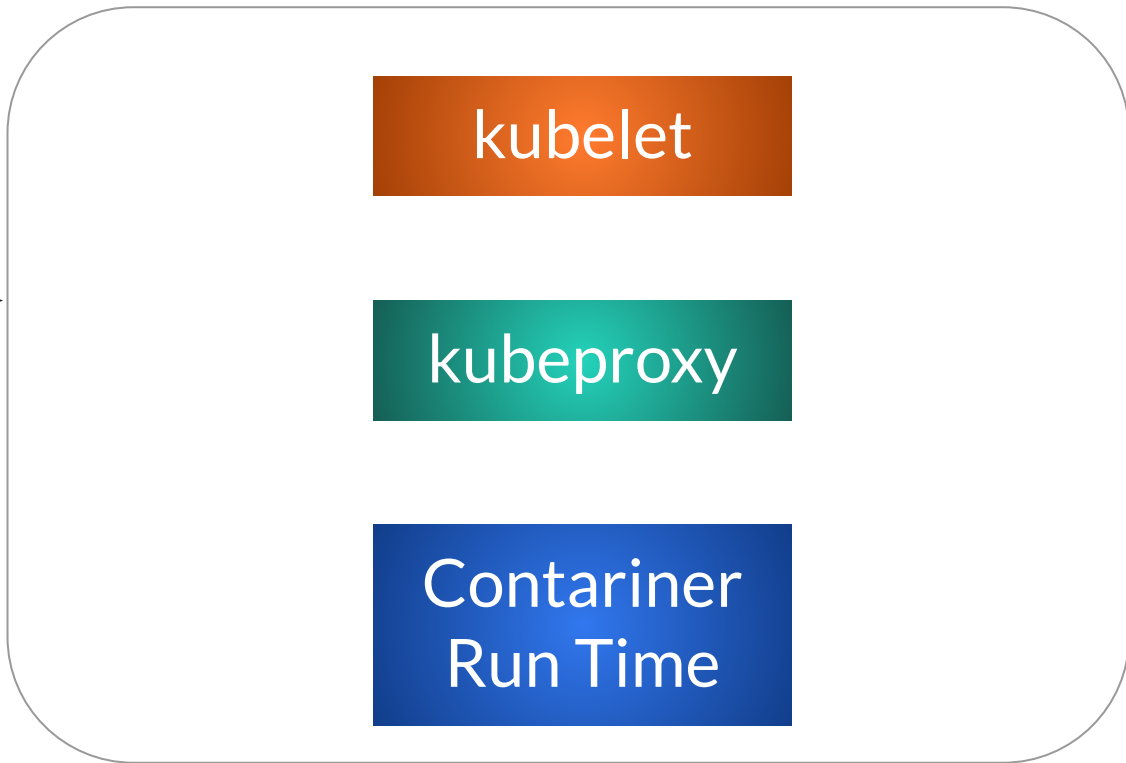
# CKAD : Certification

Worker Node/Nodes



Master Node

1... N Worker Nodes



# CKAD : Certification

## ➤ Kubelet -

- K8s Agent Execute on Worker Node.
- Get the Pod Config from APIServer, Ensure Pods and Container State.

## ➤ Pods -

- Group of single/multiple containers with shared storage/network.
- Container in single Pod can communicate over local host.

# CKAD : Certification

## ➤ KubeProxy -

- KubeProxy is used to manage the Service in K8s.
- KubeProxy ensure, Application is accessible over the Service to outer parties.



# Thank You...

Don't be the Same! Be Better!!!

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