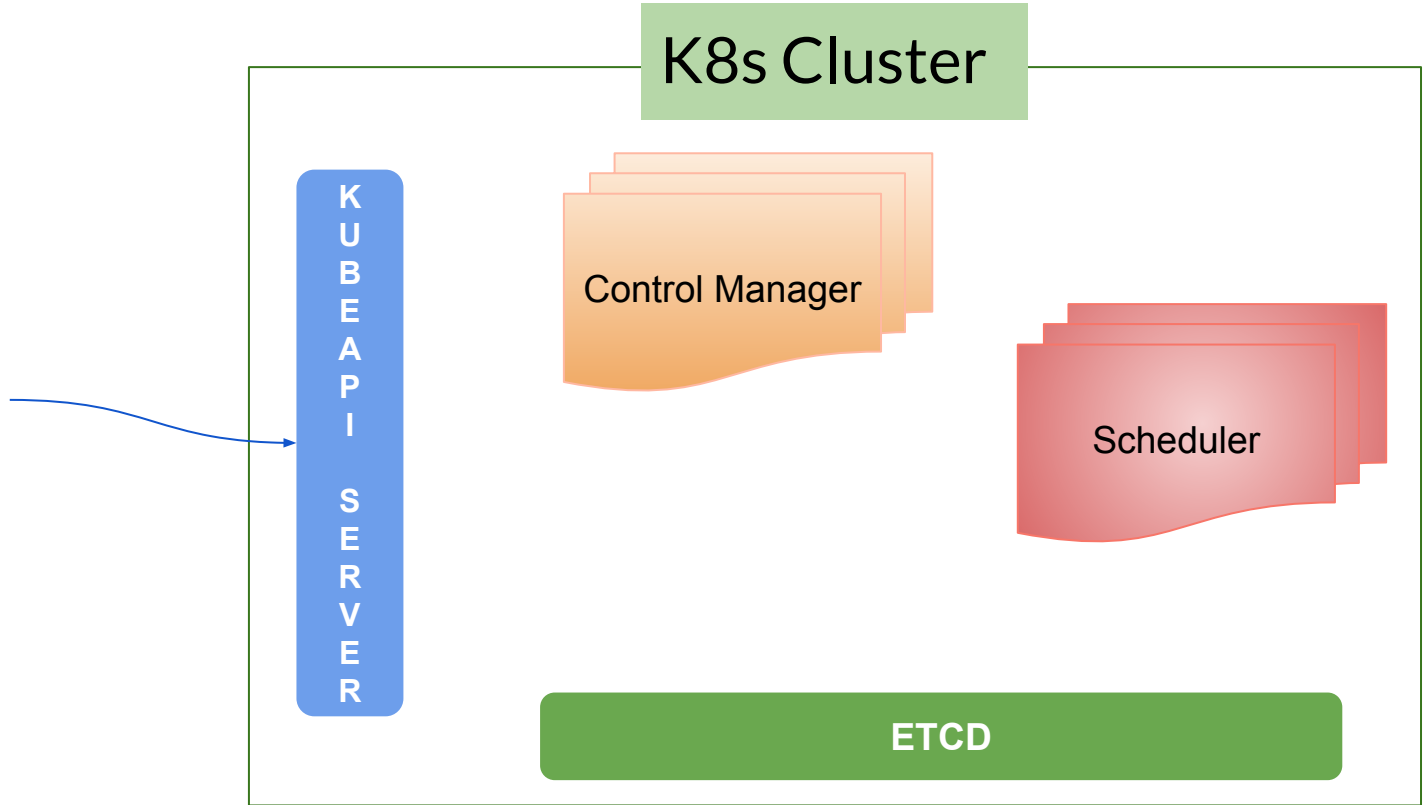


CKA/CKAD : Complete Certification Guide

Troubleshooting Kubernetes
Cluster Failures



CKA/CKAD Certification



TroubleShooting Cluster

```
kubectl get nodes
```

```
kubectl describe node <node-name>
```

```
kubectl cluster-info
```

```
kubectl get component-status
```

TroubleShooting - Logs

Kubeadm

```
kubectl logs kube-apiserver-master -n kube-system
```

```
kubectl logs kube-scheduler-master -n kube-system
```

```
kubectl logs kube-controller-manager-master -n kube-system
```

```
kubectl logs etcd-master -n kube-system
```

Manual

```
cat /var/log/kube-apiserver.log  
cat /var/log/containers/kube-apiserver-master*.log
```

```
cat /var/log/kube-scheduler.log  
cat /var/log/containers/kube-scheduler-master*.log
```

```
cat /var/log/kube-controller-manager.log  
cat /var/log/containers/kube-controller*.log
```

```
cat /var/log/etcd*.log  
cat /var/log/containers/etcd*.log
```

TroubleShooting - Services

Kubeadm

```
kubectl get pods -n kube-system
```

```
systemctl start kubelet
```

```
systemctl enable kubelet
```

```
systemctl start docker
```

```
systemctl enable docker
```

Manual

```
systemctl daemon-reload
```

```
systemctl start kubelet
```

```
systemctl enable kubelet
```

```
systemctl start docker
```

```
systemctl enable docker
```

TroubleShooting Cluster - Worker Node

```
kubectl get nodes
```

- Possible Reason of Failure
 - Memory Issue
 - Network Unavailability
 - Kubelet failure
 - CPU Outage
 - Process Failures

```
kubectl describe node <node-name>
```

Thank You...

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