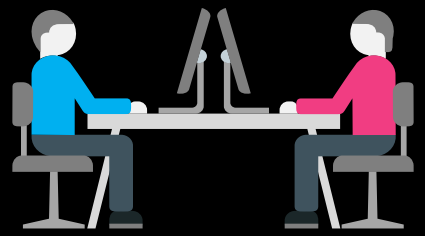
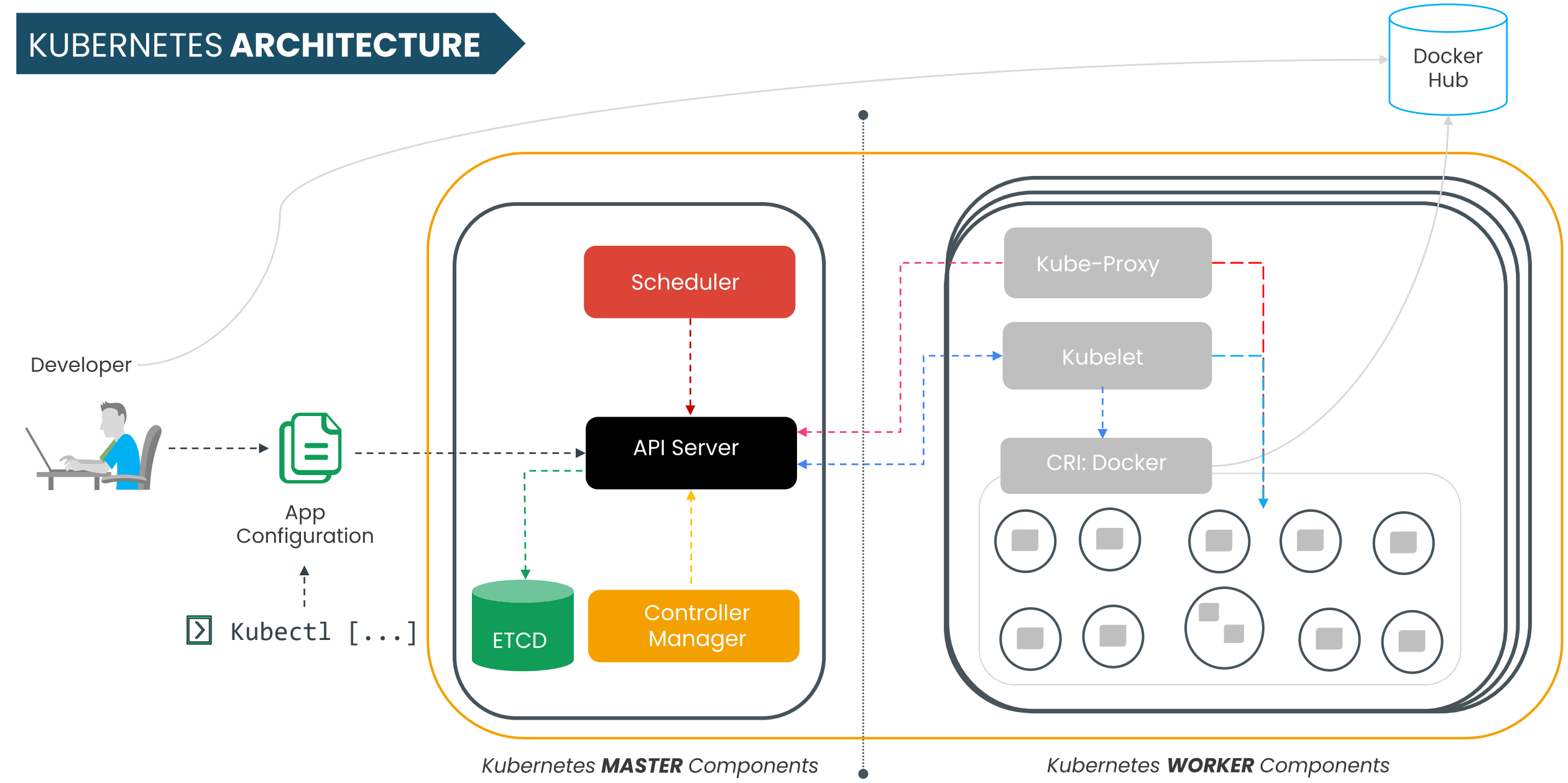
Troubleshooting Kubernetes Cluster



KUBERNETES **ARCHITECTURE**



KubeEd.com

TROUBLESHOOTING CLUSTER – **LISTING YOUR CLUSTER**

```
Kubectl get nodes
```

```
Kubectl describe node [NODE_NAME]
```

```
kubectl cluster-info
```

```
kubectl get componentstatus
```

TROUBLESHOOTING CLUSTER - **LOGS**

KUBEADM

1. API Server

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

2. Scheduler

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

3. Controller-Manager

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

4. ETCD

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

MANUAL

1. API Server

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

2. Scheduler

```
# cat /var/log/kube-scheduler.log (or)
# cat /var/log/containers/kube-scheduler-master*.log
```

3. Controller-Manager

```
# cat /var/log/kube-controller-manager.log (or)
# cat /var/log/containers/kube-controller*.log
```

4. ETCD

```
# cat /var/log/etcd*.log (or)
# cat /var/log/containers/etcd-master*.log
```

TROUBLESHOOTING CLUSTER - **SERVICES**

KUBEADM - SERVICES

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

```
# systemctl enable kubelet
# systemctl start kubelet
```

```
# systemctl enable docker
# systemctl start docker
```

MANUAL - SERVICES

```
# systemctl daemon-reload
```

```
# systemctl enable kube-apiserver kube-controller-manager kube-scheduler etcd
```

```
# systemctl start kube-apiserver kube-controller-manager kube-scheduler etcd
```

```
# systemctl status kube-apiserver
# systemctl status kube-controller-manager
```

```
# systemctl status kube-scheduler
# systemctl status etcd
```

https://kubernetes.io/docs/tasks/debug-application-cluster/debug-cluster/