K8s Component

Logging

KUBERNETES **ARCHITECTURE**

Kubernetes *MASTER* Components

Kubernetes *WORKER* Components
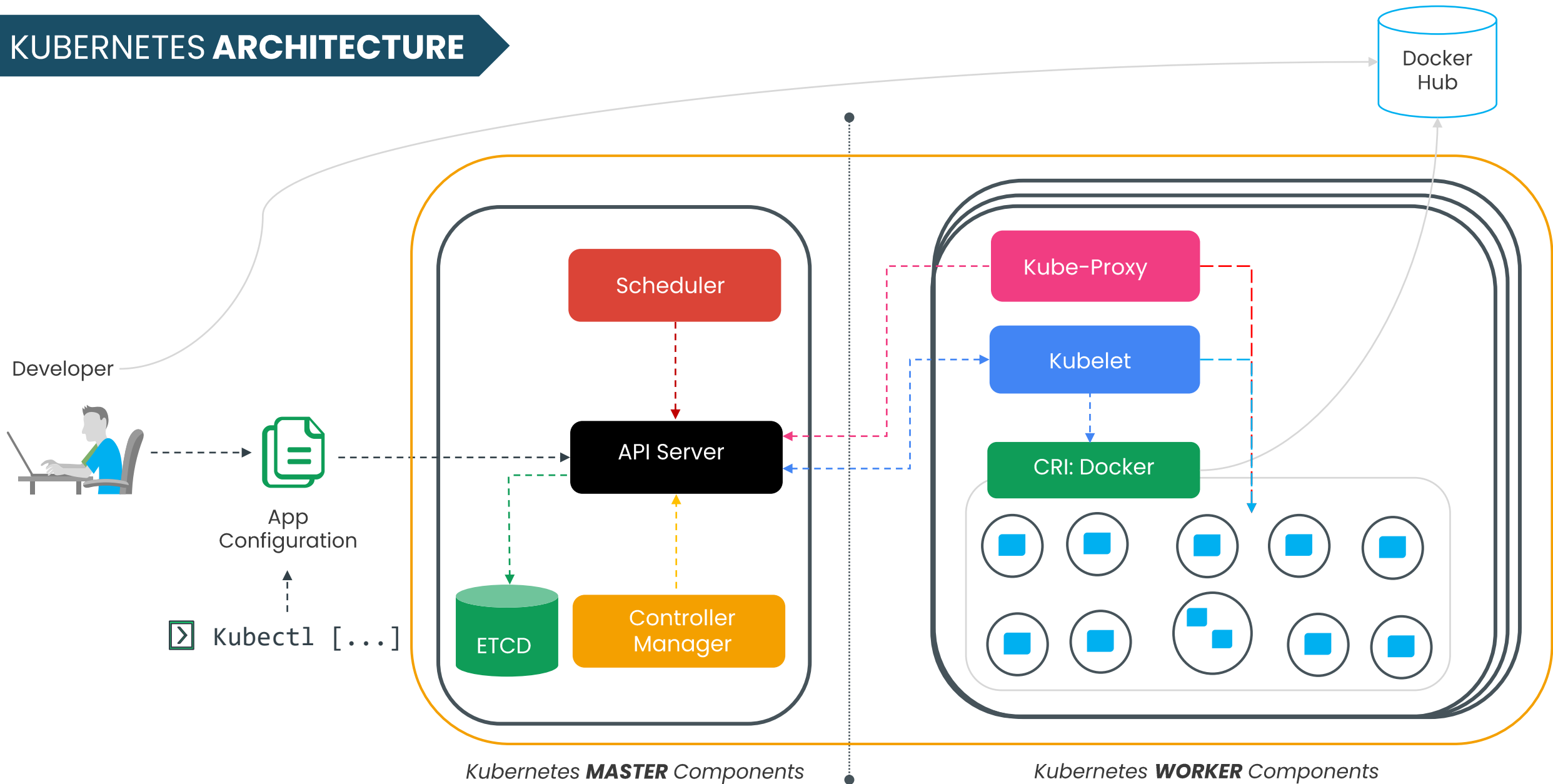
DISPLAYING LOGS - kubeadm

⚠️ IF Cluster Configured using **KUBEADM**

Kubernetes COMPONENT Logging

CONTAINER (POD)

- API-Server
- Scheduler
- ETCD
- Controller-Manager
- Kube-Proxy

KUBECTL LOGS

```
Kubectl get pods –n kube-system
```

```
Kubectl logs [POD-NAME] –n kube-system
```

DOCKER LOGS

```
docker ps | grep apiserver
```

```
docker logs [CONTAINER-ID]
```

SERVICE UNIT

- Docker
- Kubelet

```
Journalctl –u docker
```

```
Journalctl –u kubelet
```

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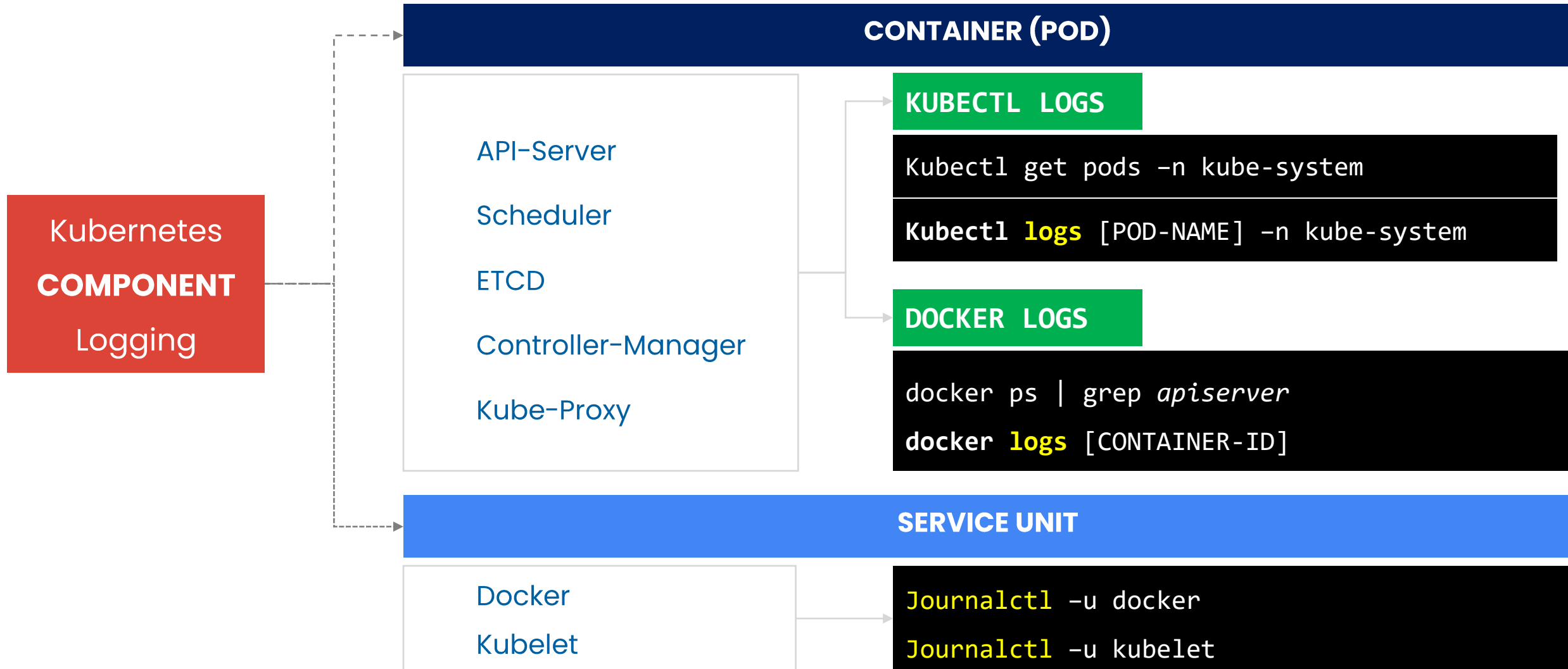
DISPLAYING LOGS – MANUALLY

⚠️ Above Cluster Configured using **MANUALLY**

SERVICE UNIT

Kubernetes COMPONENT Logging

- API-Server
- Scheduler
- ETCD
- Controller-Manager
- Kube-Proxy
- Docker
- Kubelet

```
journalctl -u kube-apiserver

journalctl -u kube-scheduler

journalctl -u etcd

journalctl -u kube-controller-manager

journalctl -u kube-proxy

journalctl -u docker

journalctl -u kubelet
```

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journalctl

```
# Display all messages
journalctl
```

```
# Enable follow mode & display new messages as they come in
journalctl -f
```

```
# Display newest log entries first
journalctl -r
```

```
# Display specific number of RECENT log entries
journalctl –n 3
```

MONITOR **APP** LOGS USING

" **KUBECTL LOGS**"

```
# Display specific priority – "info", "warning", "err", "crit", "alert", "emerg"
Journalctl –p crit
```

```
# Display log entries of only specific systemd unit
Journalctl –u kube-apiserver
```

```
# Format output in "verbose", "short", "json" and more
Journalctl –o verbose
```

```
# Combining options
Journalctl –n 3 –p crit
```

```
# Display all messages between specific duration
journalctl --since "2019-02-02 20:30:00" --until "2019-03-31 12:00:00"
```