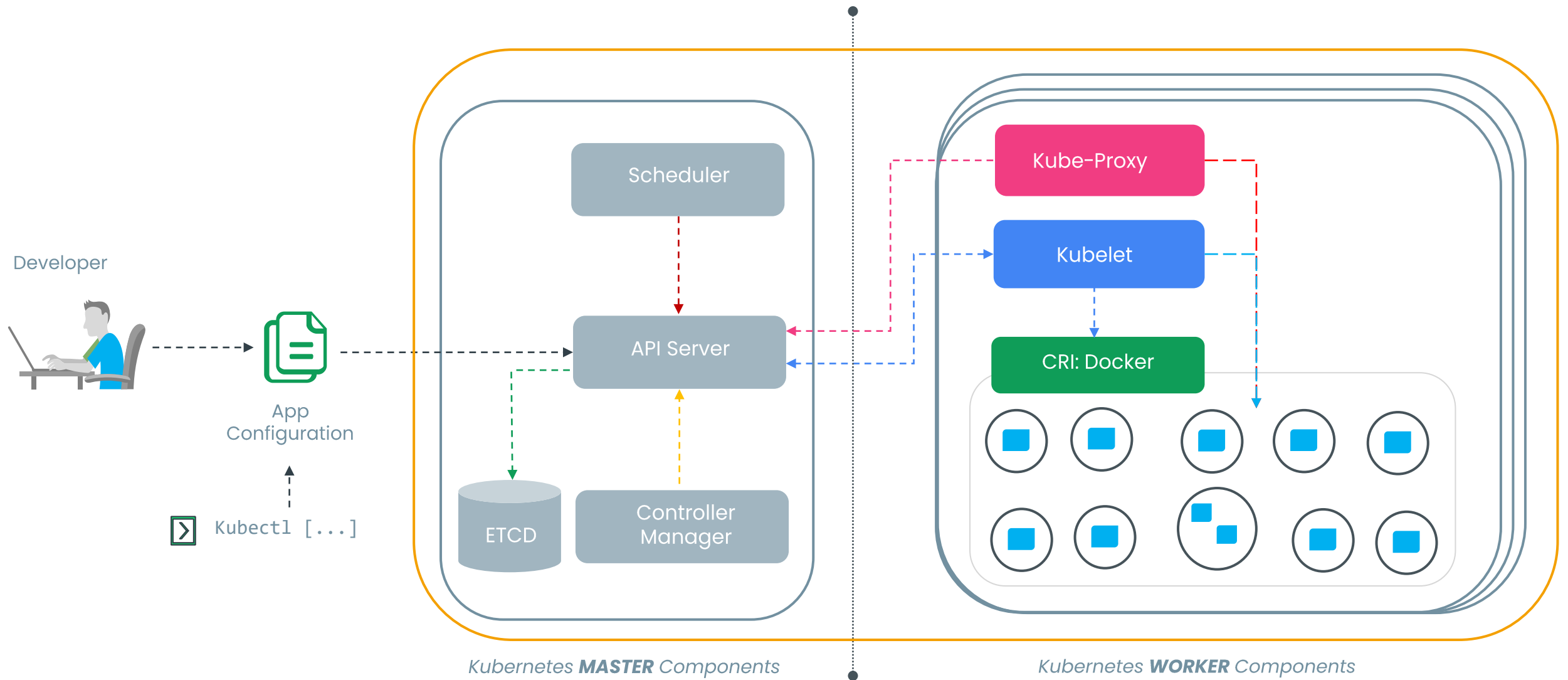




Troubleshooting Worker Nodes



KUBERNETES ARCHITECTURE



TROUBLESHOOTING WORKER NODES

```
# kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION	INTERNAL-IP	EXTERNAL-IP	OS-IMAGE	KERNEL-VERSION	CONTAINER-RUNTIME
master	Ready	master	31d	v1.16.1	10.128.0.6	<none>	CentOS**	3.10.**	docker://1.13.1
worker-1	Ready	<none>	31d	v1.16.1	10.128.0.7	<none>	CentOS**	3.10.**	docker://1.13.1
worker-2	Ready	<none>	31d	v1.16.1	10.128.0.8	<none>	CentOS**	3.10.**	docker://1.13.1

```
# kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION	INTERNAL-IP	EXTERNAL-IP	OS-IMAGE	KERNEL-VERSION	CONTAINER-RUNTIME
master	Ready	master	31d	v1.16.1	10.128.0.6	<none>	CentOS**	3.10.**	docker://1.13.1
worker-1	Ready	<none>	31d	v1.16.1	10.128.0.7	<none>	CentOS**	3.10.**	docker://1.13.1
worker-2	Unknown	<none>	31d	v1.16.1	10.128.0.8	<none>	CentOS**	3.10.**	docker://1.13.1

OutOfDisk

DiskPressure

MemoryPressure

Network
Unavailable

PIDPressure

Kubelet

TROUBLESHOOTING WORKER NODES

```
# kubectl describe node worker-1
```

```
Name: worker-1
```

```
Roles: <none>
```

```
...
```

```
Taints: <none>
```

```
Unschedulable: false
```

Conditions

Type	Status	LastHeartbeatTime	LastTransitionTime	Reason	Message
MemoryPressure	False	Mon, 04 Nov 2019**	Thu, 03 Oct 2019**	KubeletHasSufficientMemory	kubelet has sufficient memory available
DiskPressure	False	Mon, 04 Nov 2019***	Thu, 03 Oct 2019**	KubeletHasNoDiskPressure	kubelet has no disk pressure
PIDPressure	False	Mon, 04 Nov 2019 **	Thu, 03 Oct 2019**	KubeletHasSufficientPID	kubelet has sufficient PID available
Ready	True	Mon, 04 Nov 2019***	Sat, 05 Oct 2019***	KubeletReady	kubelet is posting ready status

```
...
```

Events:

Type	Reason	Age	From	Message
Normal	Starting	16m	kubelet, worker-1	Starting kubelet.
Normal	NodeAllocatableEnforced	16m	kubelet, worker-1	Updated Node Allocatable limit across pods
Normal	NodeHasSufficientMemory	16m (x8 over 16m)	kubelet, worker-1	Node worker-1 status is now: NodeHasSufficientMemory
Normal	NodeHasNoDiskPressure	16m (x8 over 16m)	kubelet, worker-1	Node worker-1 status is now: NodeHasNoDiskPressure
Normal	NodeHasSufficientPID	16m (x7 over 16m)	kubelet, worker-1	Node worker-1 status is now: NodeHasSufficientPID
Normal	Starting			

TROUBLESHOOTING WORKER NODES

RESOURCES

CPU

```
top
```

(or)

```
kubectl top node --sort-by cpu
```

Memory

```
top
```

(or)

```
kubectl top node --sort-by memory
```

Disk

```
df
```

SERVICES

Kubelet

```
# systemctl status kubelet
```

```
# systemctl enable kubelet
```

```
# systemctl restart kubelet
```

Docker

```
# systemctl status docker
```

```
# systemctl enable docker
```

```
# systemctl restart docker
```