

## Nodes

"Worker nodes" - Does the actual work



- each node has multiple pods on it

- 3 processes always required

1. Container runtime  
Docker

2. Kubelet

Interacts with nodes and pods

takes config and starts pod. Assigns resources to pods.

3. Kube Proxy

intelligent forwarding

## Master nodes

4 processes:

1. API Server UI / Dashboard / Kubectl  
authentication for cluster

authentication for cluster  
validating requests.

Endpoint to cluster kubectl

2. Scheduler Intelligent pod allocation  
on nodes. Looking for  
available resources on nodes for new  
pods. Controls Kubelet on pods

3. Controller manager

- Detects node state (pod crashes etc)
- makes request to scheduler to  
restart the pod

4. etcd "cluster brain"

key value store of cluster state