etcd

Scheduler

API Server

Kubelet

Controller Manager

Kubernetes Master

Kubelet

User Pod

User Pod

Kubernetes workloads

Worker Nodes

User Pod

User Pod

Kubernetes workloads

Master Node

API Server: management hub for Kubernetes
Scheduler: places a workload on the appropriate Node
Controller Manager: scales workloads up/down
etcd: stores configuration data which can be accessed by API Server

Kubelet: Receives pod specifications from API Server, updates Nodes
Master Node: places workloads on Nodes
Worker Nodes: receives requests from Master Nodes and dispatches them
User Pod: a group of containers with shared resources