Kubernetes Architecture

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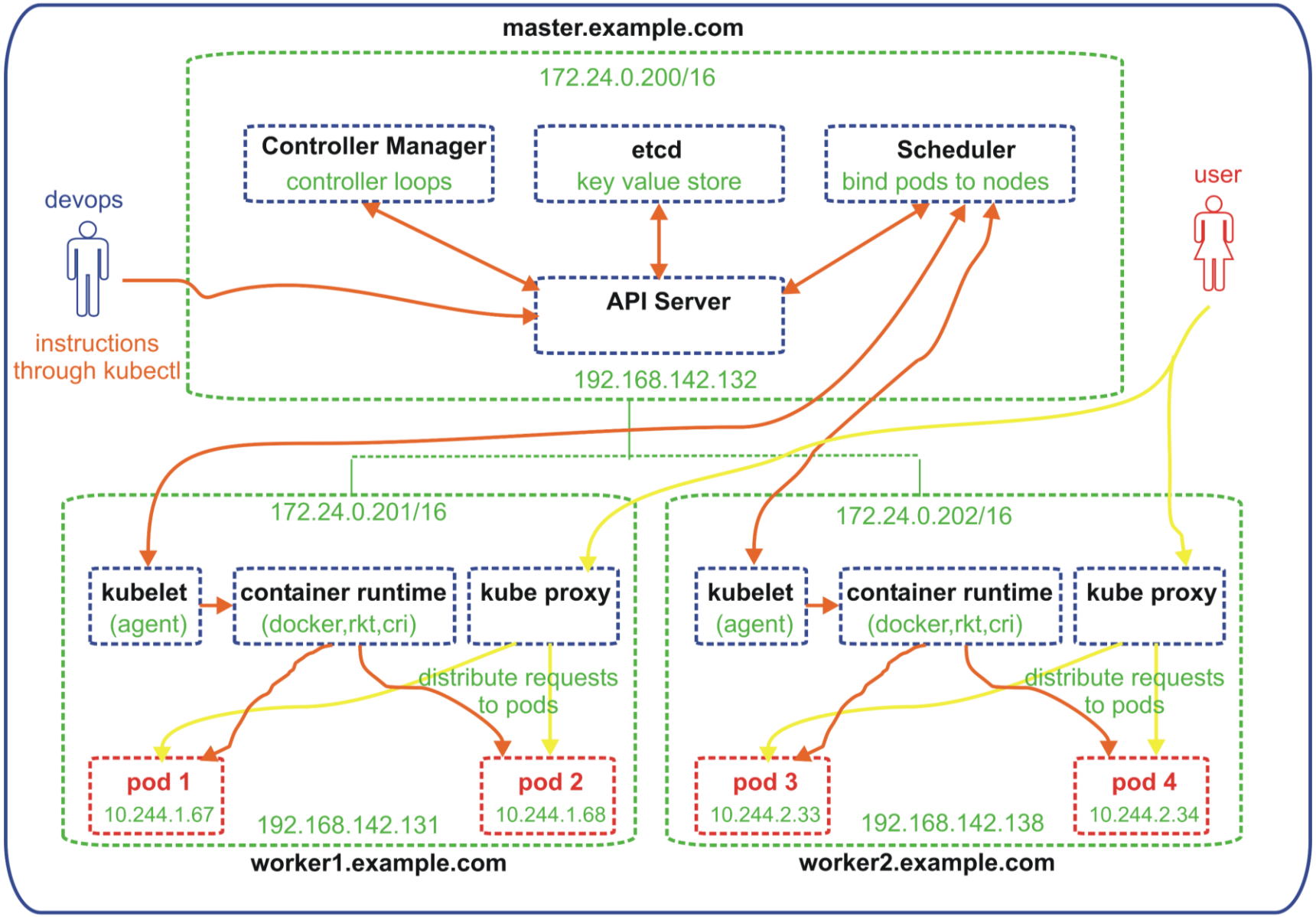

Kubernetes Architecture

All the components works in unison to provide us robust cluster orchestration engine that can handle production level loads at vary large scales. The different components of Kubernetes are

API Server: we interact with Kubernetes cluster using API. In our case, we are using “kubectl” to pass instructions to API Server. API server determines the validity of requests.

Scheduler: schedules pods on nodes.

Controller Manager: makes sure that desired number of pods are running.

etcd: key value data store for keeping cluster configuration information and cluster state.

kubelet: it runs on worker nodes. Scheduler uses kubelet to make sure desired number of pods are running.

kube-proxy: user is able to reach pods using kube-proxy. It distributes user requests to pods.

container runtime: container engine is used to launch containers.