

Kubernetes 101

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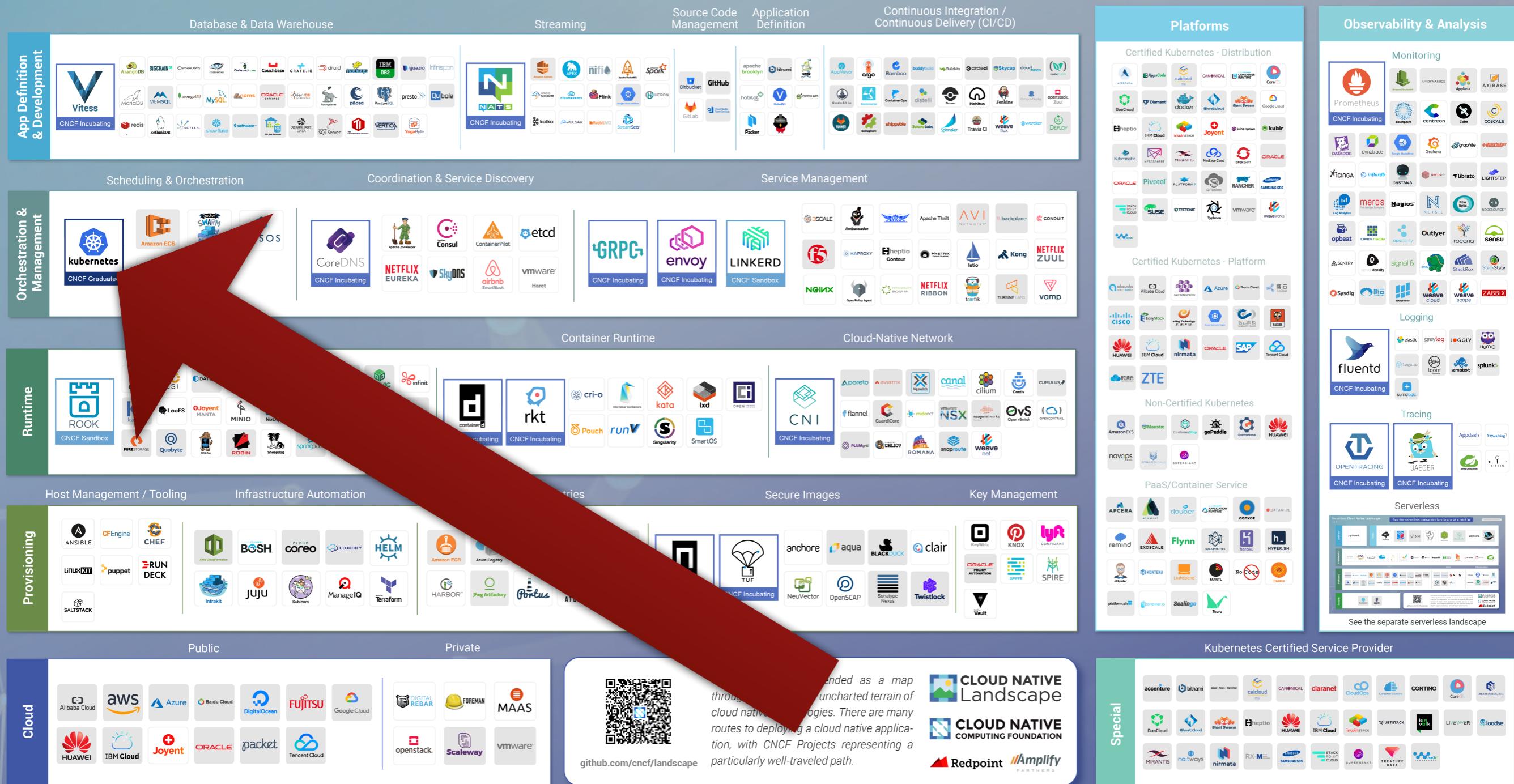
\$ whoami

- Golang, Python engineer
- working on oVirt and KubeVirt
- node/host management level virtualization tech
 - device assignment w/ VFIO, (v)GPU, SR-IOV
 - NUMA, hugepages, CPU architectures

Cloud Native Landscape

See the interactive landscape at landscape.cncf.io

Greyed logos are not open source

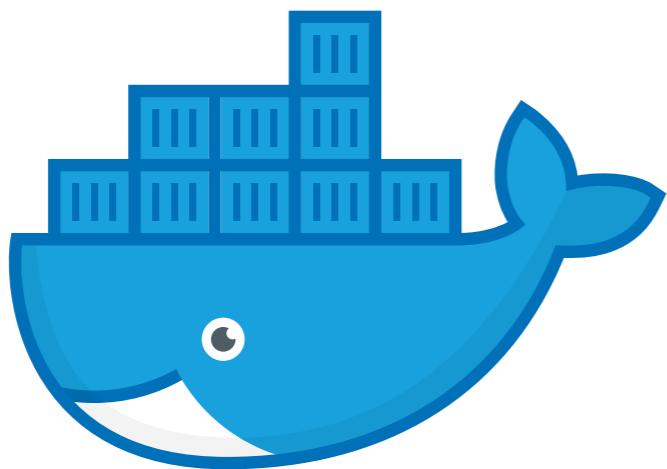


"Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications."

Kubernetes = k8s



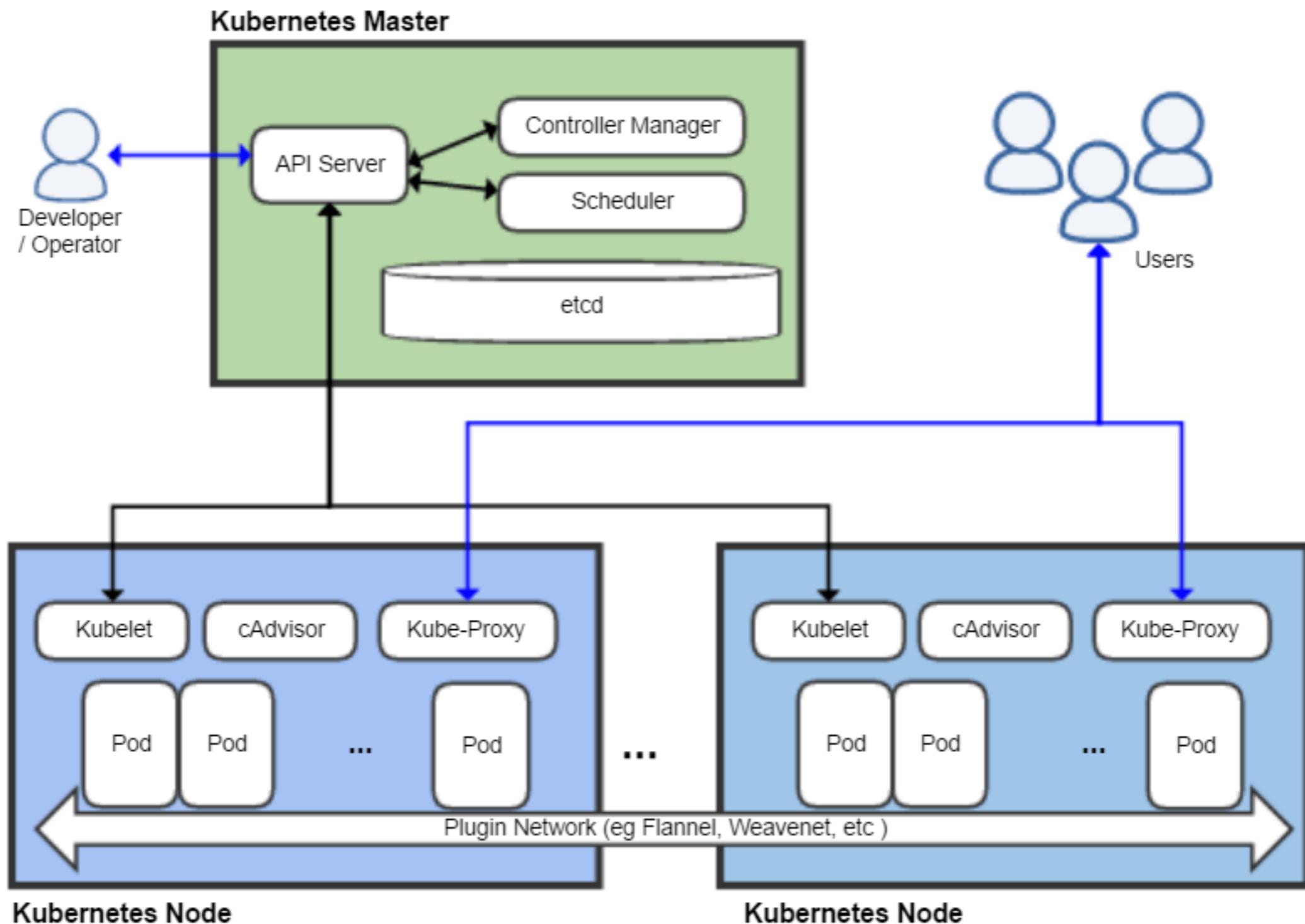
OPEN CONTAINER
INITIATIVE



docker®



cri-o



kubectl

DEMO TIME

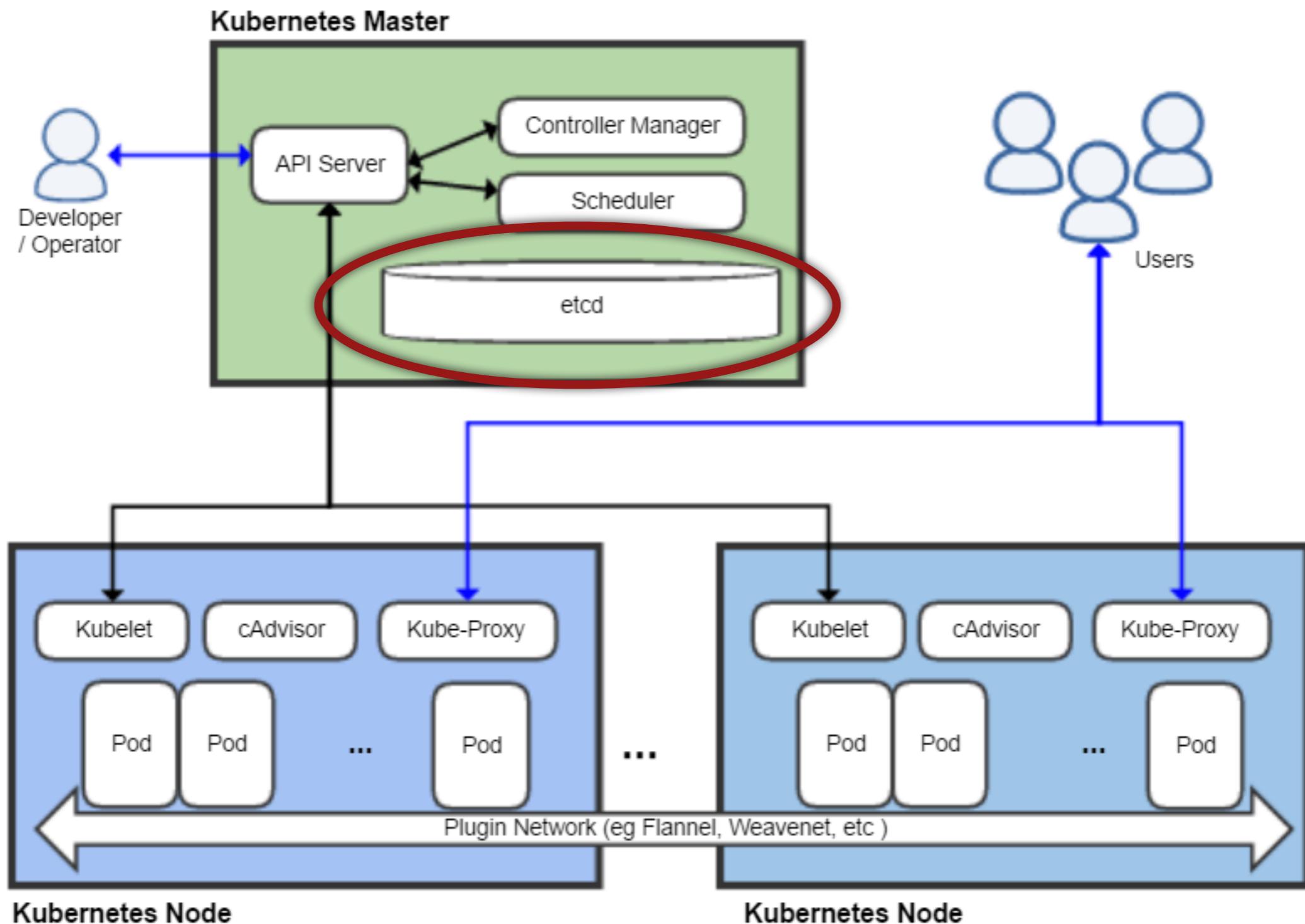
<https://github.com/mpolednik/cloud-native-brno>

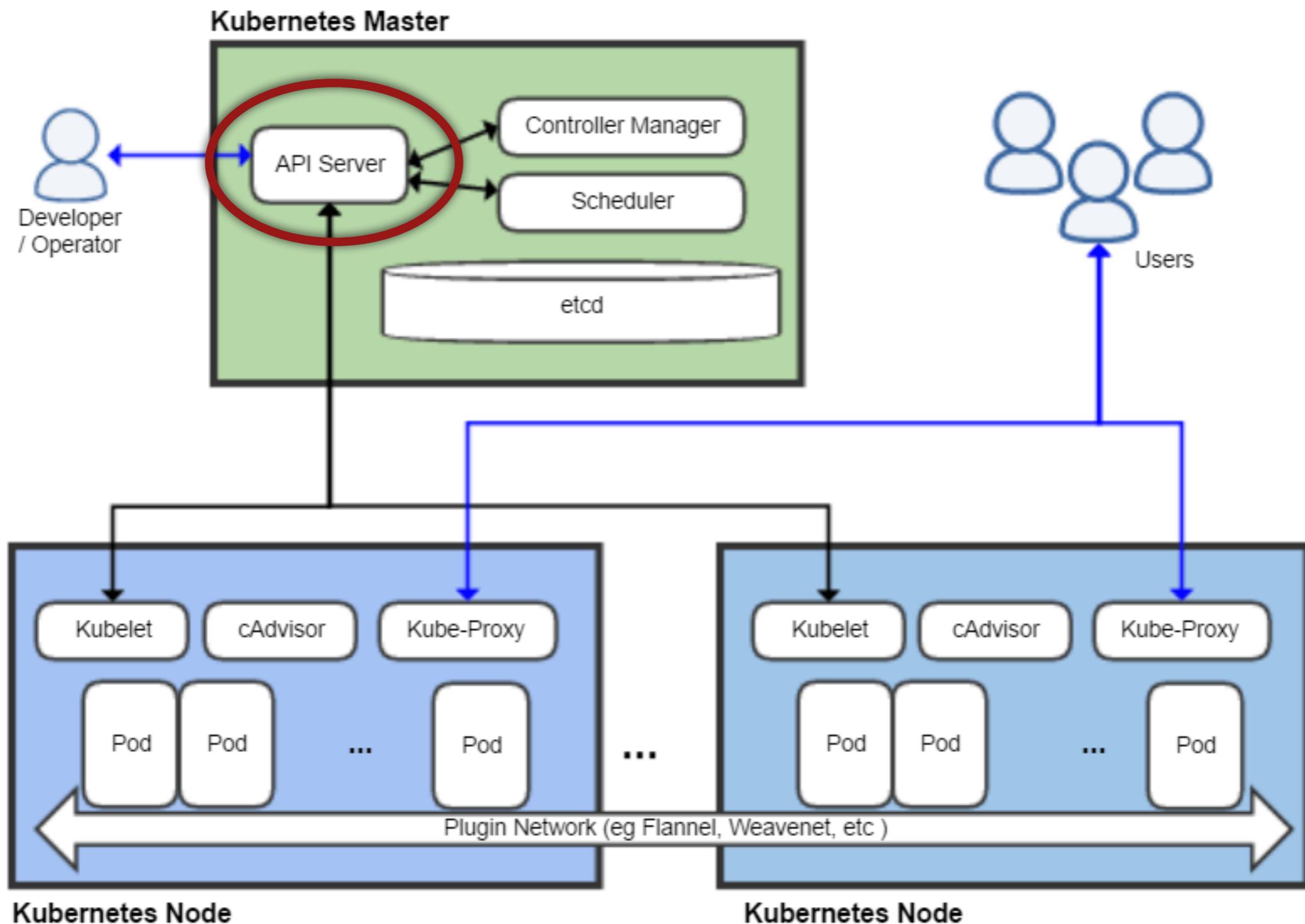
k8s resource

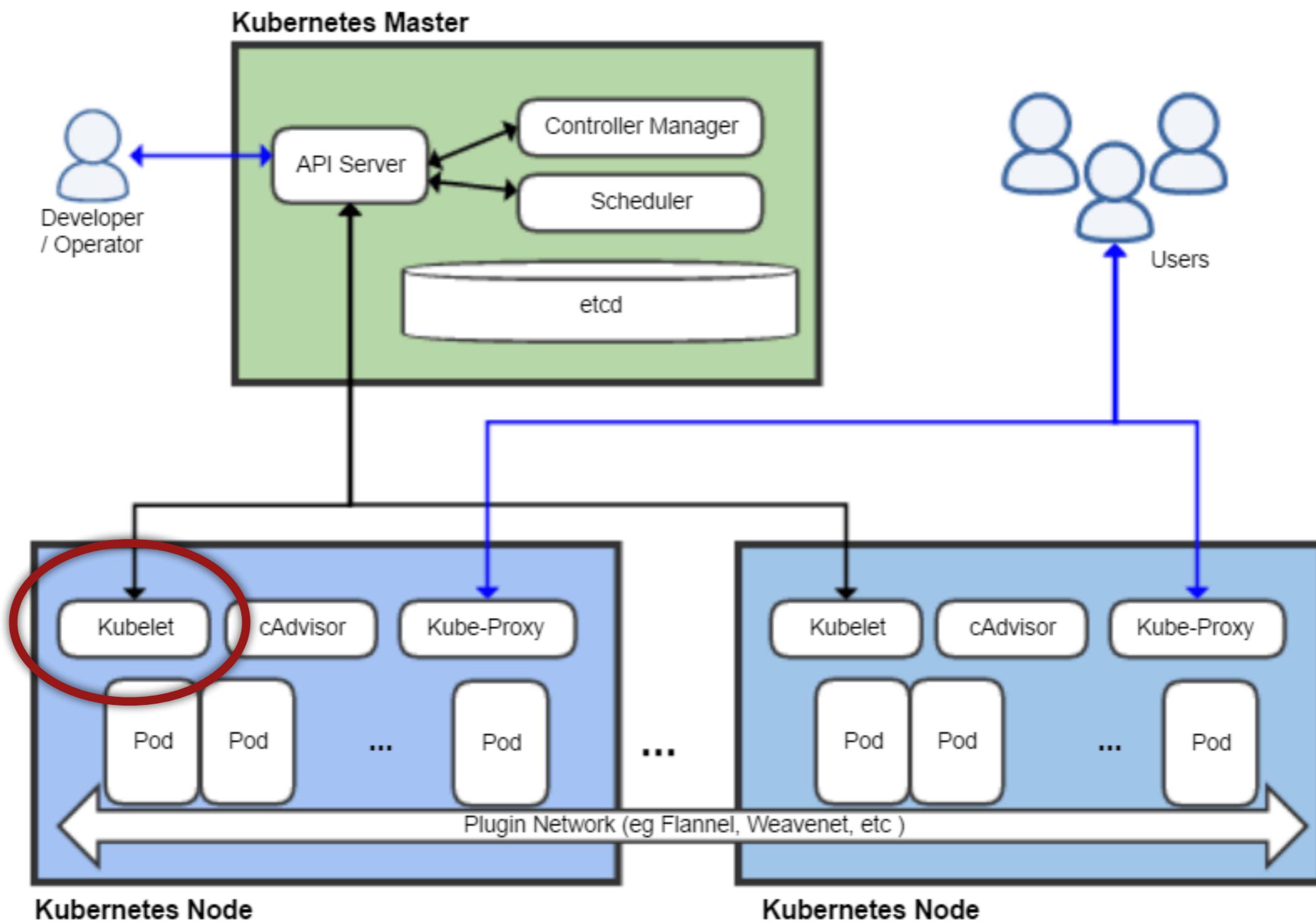
extensibility

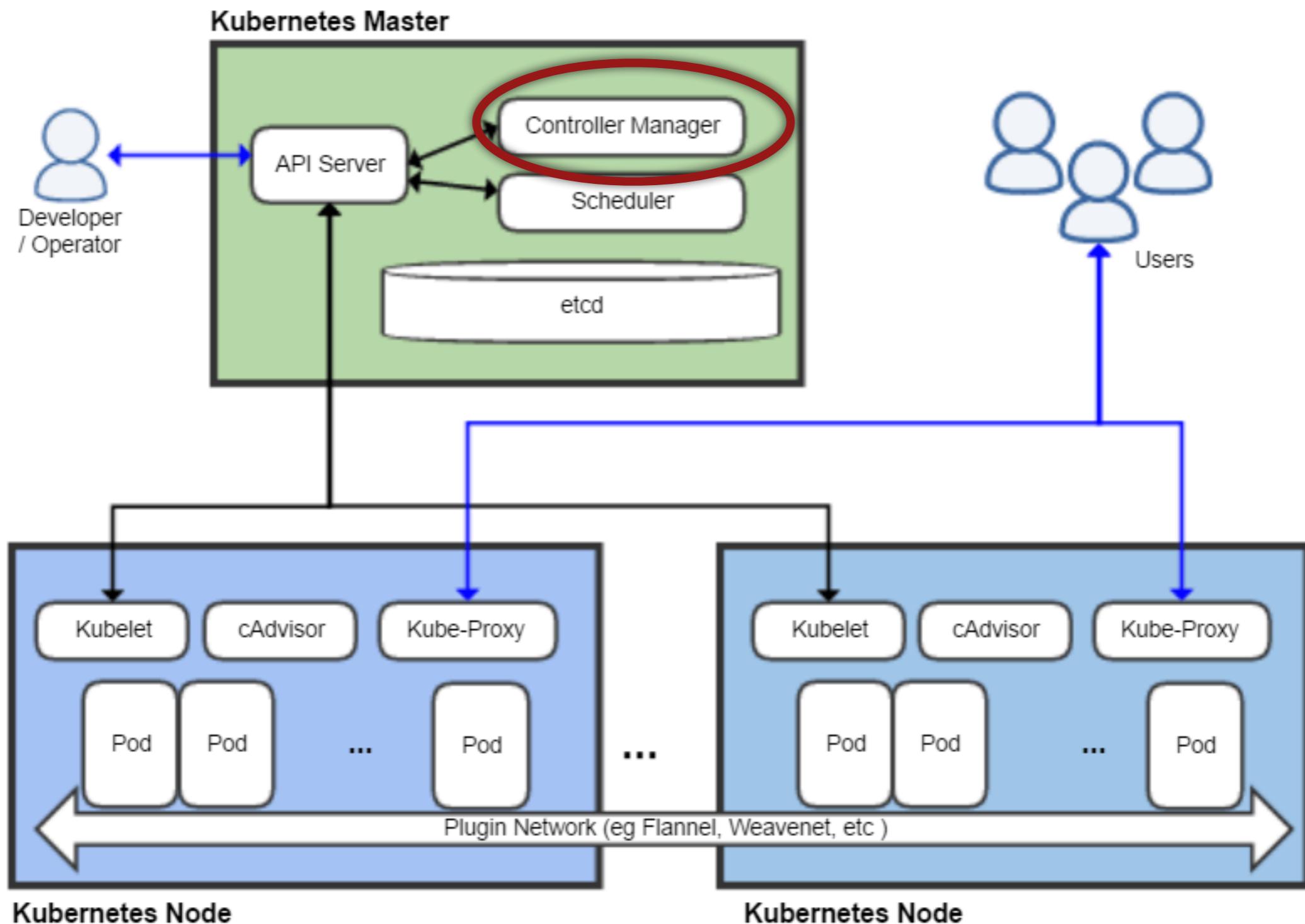
DEMO TIME

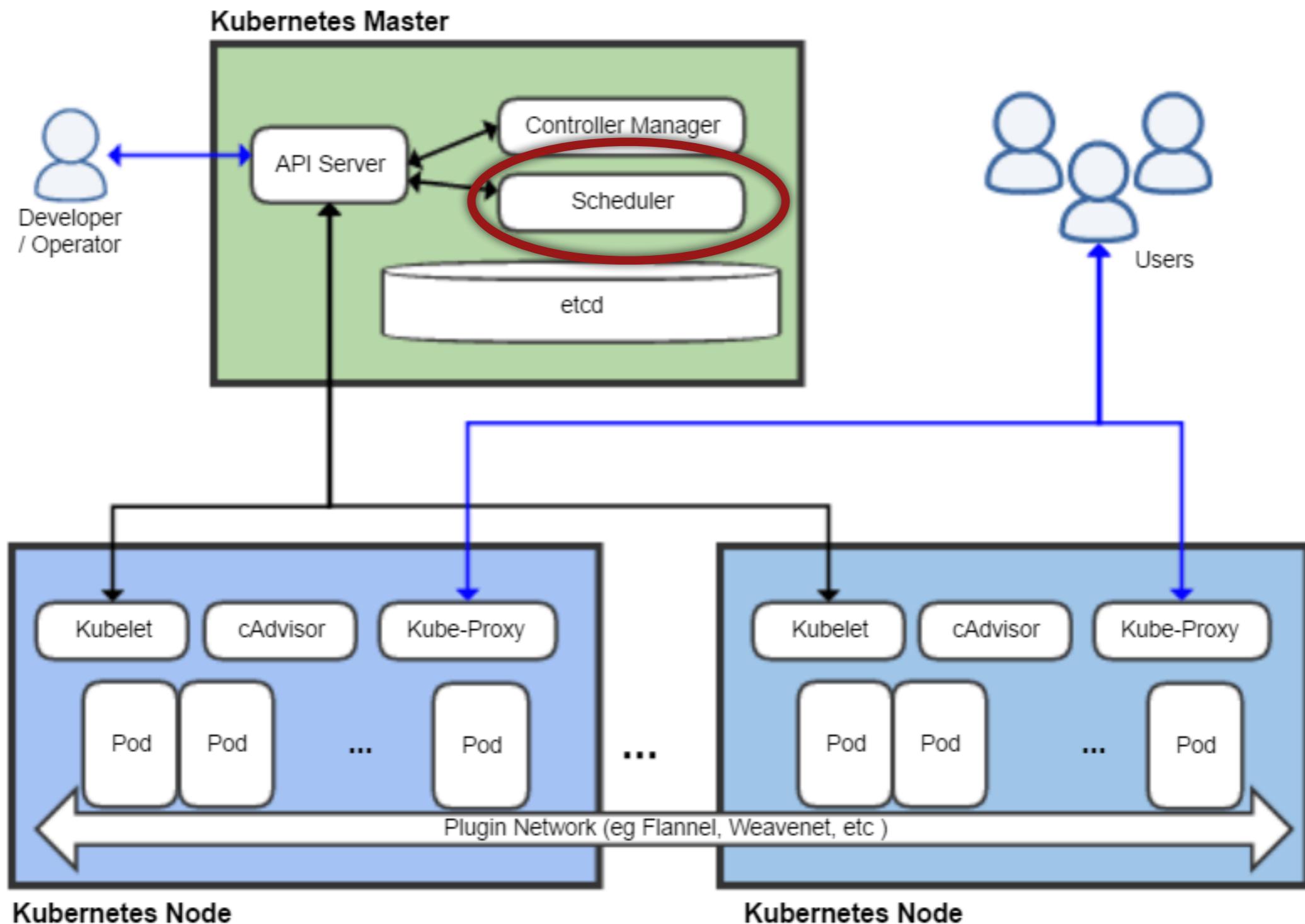
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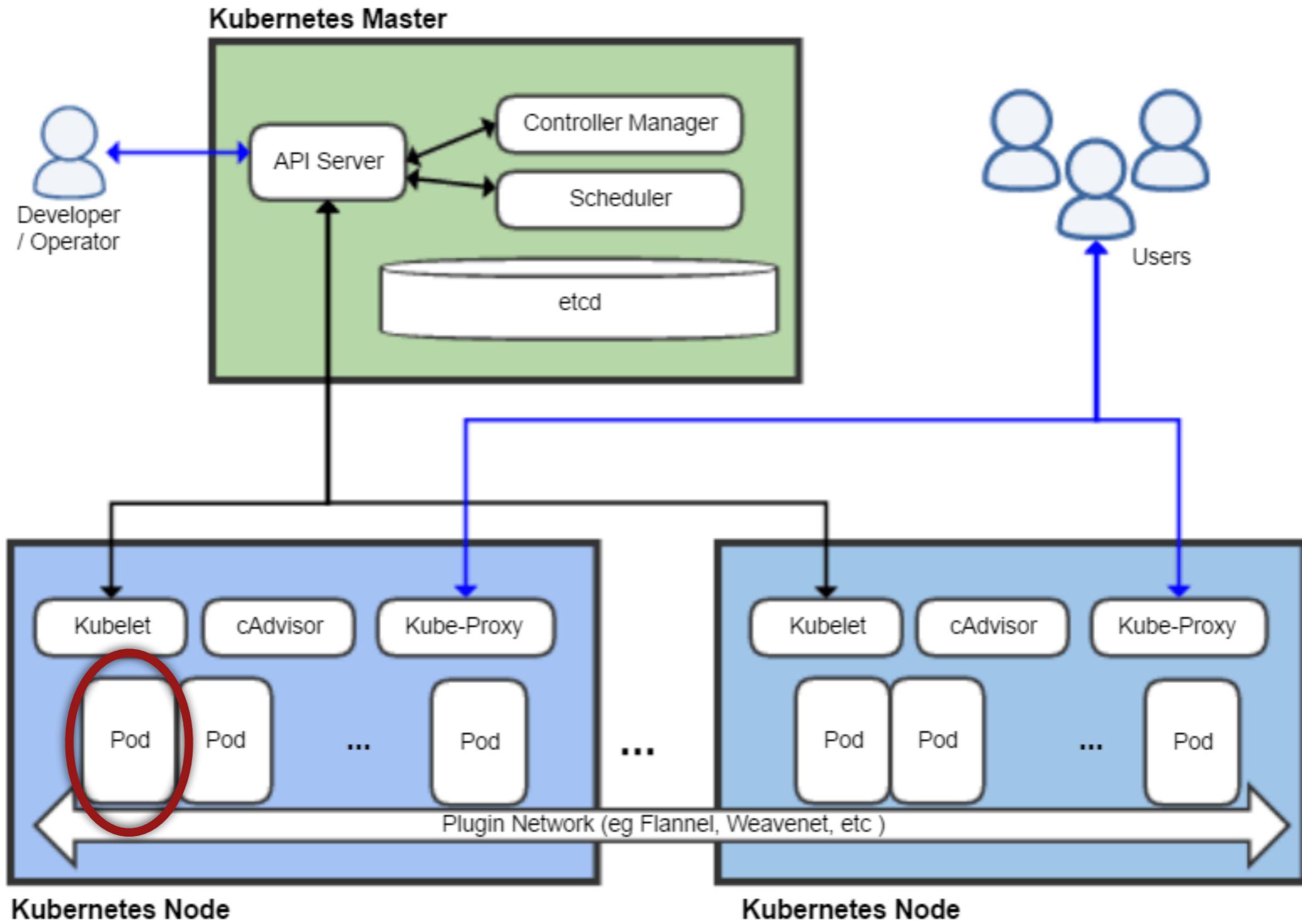












where can I get this?

- minikube
 - hyperkit, xhyve, VirtualBox, VMware fusion, KVM, Hyper-V
- kubeadm
 - proper bare-metal deployment
- Kops
- Terraform + Ansible
- GCE
- OpenShift, Tectonic (CoreOS)

Q/A