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A desktop GUI for your first Kubernetes deployment

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I’m new to Kuberenets: where do I start?

Dev

Dockerfile, manifests, Helm charts (Draft for scaffholding)

Op

Minikube, and then how do I deploy a cluster?

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Too many options!

github.com/kubernetes projects:

Kubeadm, Kops, Kubernetes-Anywhere

Cloud specific:

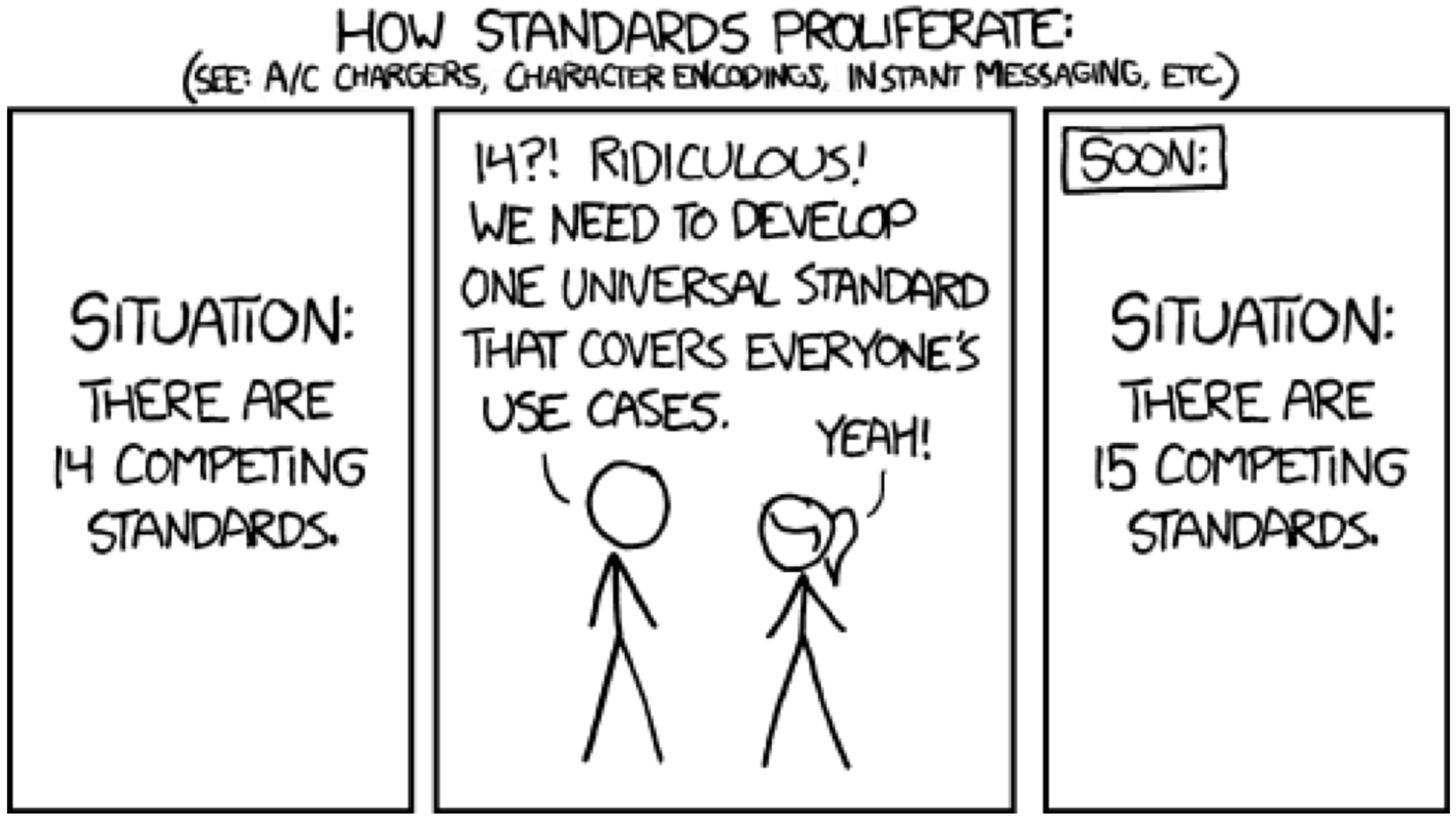
Amazon: EKS, **Azure**: acs-engine, ACS, AKS, **Google**: GKE,

OpenStack: Magnum

Others (just naming a few!):

Kubespray, kube-aws, Juju, Kismatic, OVN-Kubernetes playbooks, etc

Ok, let's start a new project!



https://xkcd.com/927/

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Two different scenarios

Clusters on clouds / IaaS

Easy: compute, networking and storage is taken care of

Good for public cloud, or on prem with existing infra

Clusters on bare metal

Hard: OS provisioning, networking and storage!

VM isolation (e.g. Kata containers)

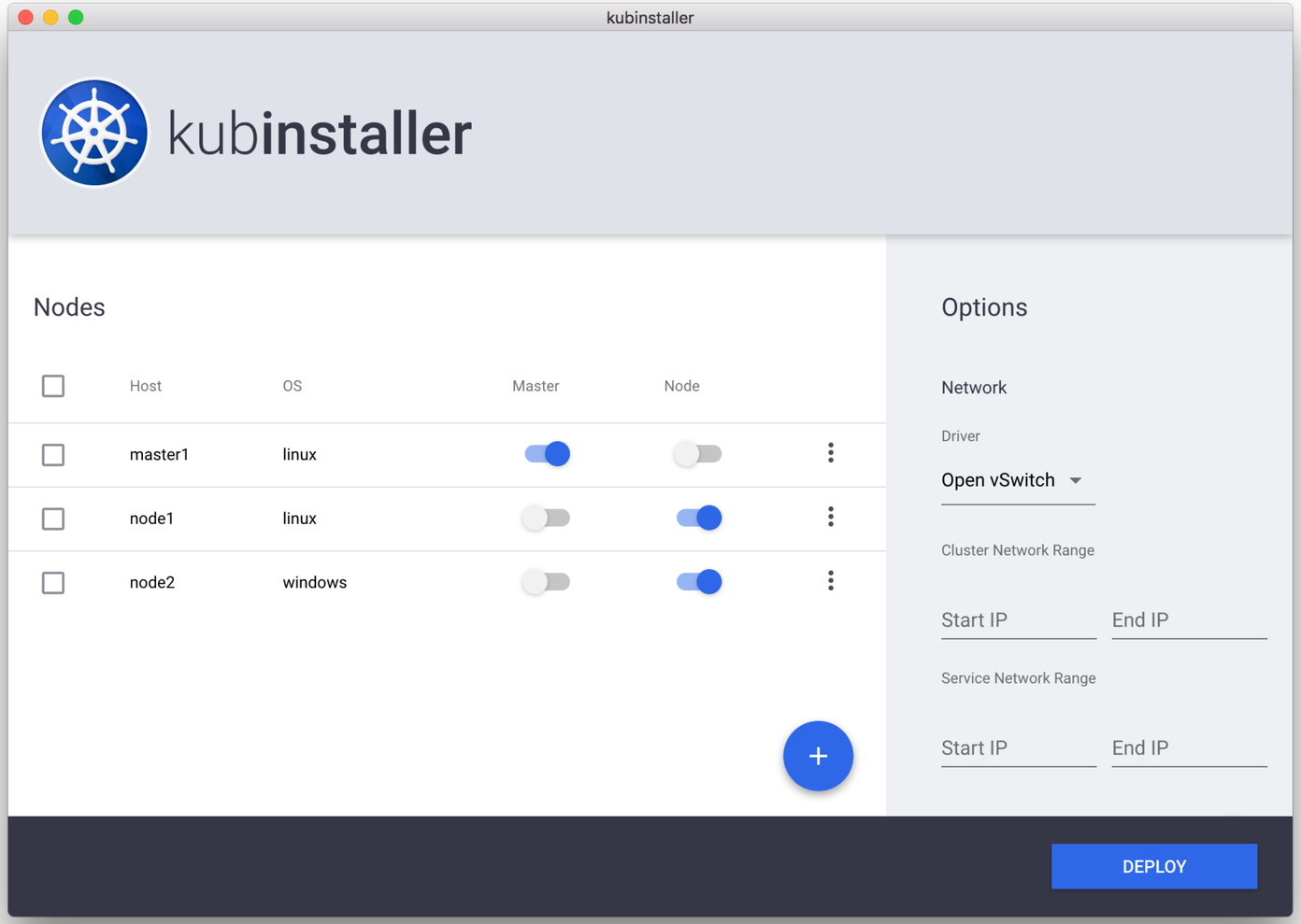
How to make the process easier?

A **GUI** is a great way to provide a guided UX

Multiplatform: Linux, macOS, Windows

Atom + **React**: great portability and dev platform

Plugins: plugins for any cluster deployment project



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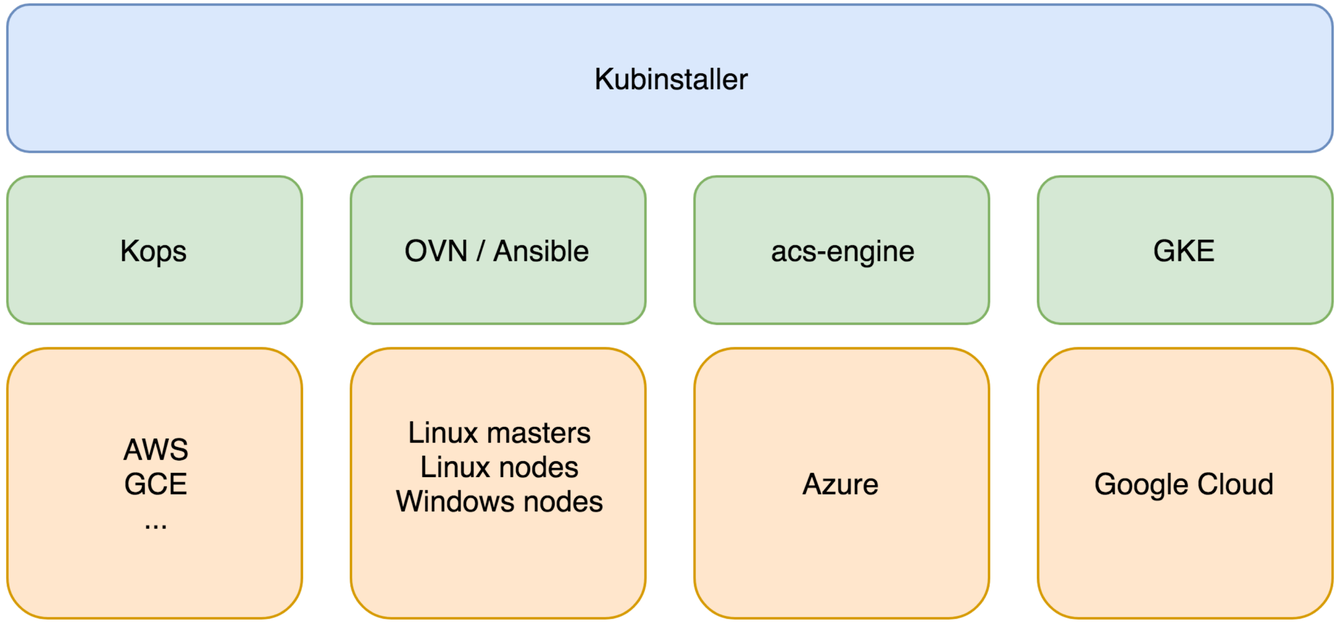
https://github.com/cloudbase/kubinstaller

Plugin based architecture



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Thanks for attending!