

KubeCon CloudNativeCon

North America 2019







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Deep Dive into Cloud Provider Azure

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Past, present and future of Kubernetes on public clouds

Progress moving out of kubernetes/kubernetes

Demo of out-of-tree provider with aks-engine

How you can get involved

Q&A

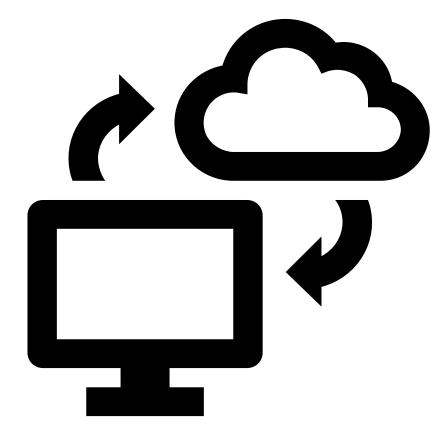
A brief history of time... ... and cloud providers.



Kubernetes was built for the cloud

Kubernetes was built in the cloud

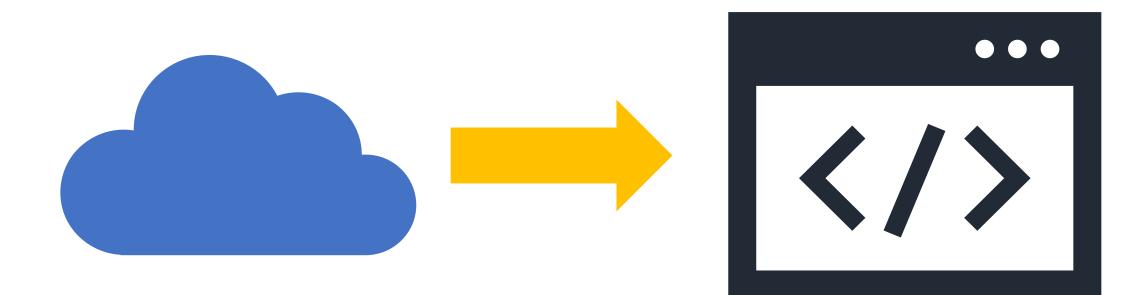




AddRoute(...)

Kubernetes was built by the cloud

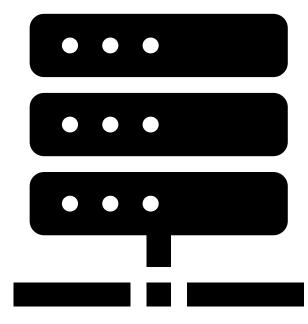




But the cloud wasn't built for Kubernetes







And more problems





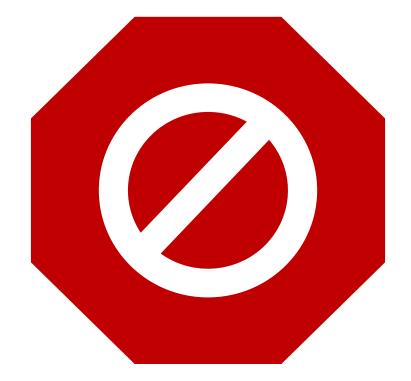






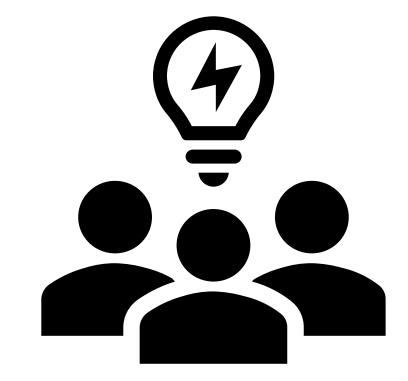
And even more problems

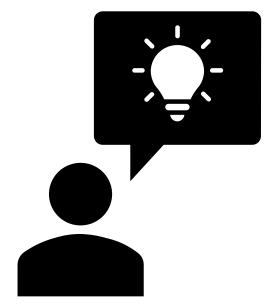




And even more problems







Now the cloud is built for Kubernetes



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Now the cloud is built on Kubernetes

On CloudNa



& Kubernetes is built for the cloud(s)

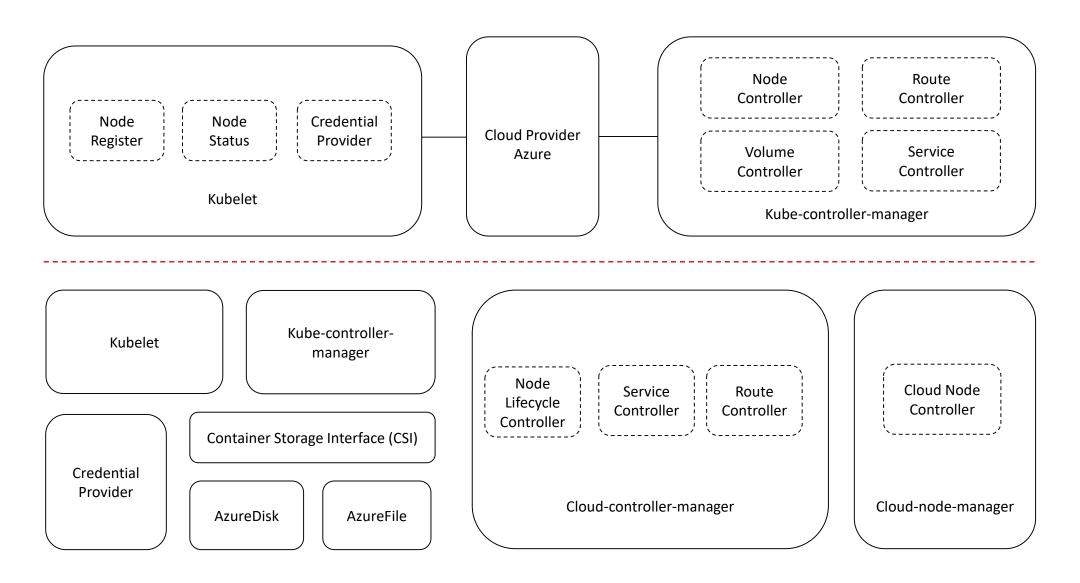






Out-of-tree cloud provider Azure





Progress moving out of tree

Supporting Instance Metadata Service with cloud-controller-manager

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- KEP: <u>kubernetes/enhancements#1158</u>
- POC in cloud-provider-azure
- aks-engine integrated

CSI drivers for AzureDisk/AzureFile

- Beta on Linux nodes
- aks-engine integrated
- WIP on Windows nodes

External credential provider

- KEP drafting

Demo of out-of-tree provider



Provisioning

Node Initialization

CSI drivers

How you can get involved



Community Meetings Mondays 1st @ 6:30 am and 3rd @ 5:00 pm PT https://zoom.us/j/586836662

https://github.com/kubernetes/community/tree/master/sig-cloudprovider#provider-azure

Join the conversation on K8s Slack in #provider-azure

Grab an issue from the project board https://github.com/orgs/kubernetes/projects/12





Questions?