



# Zero to hero with Kubernetes on Azure

Jason Hansen



# AKS Lab and Azure Pass

Access this lab on GitHub at

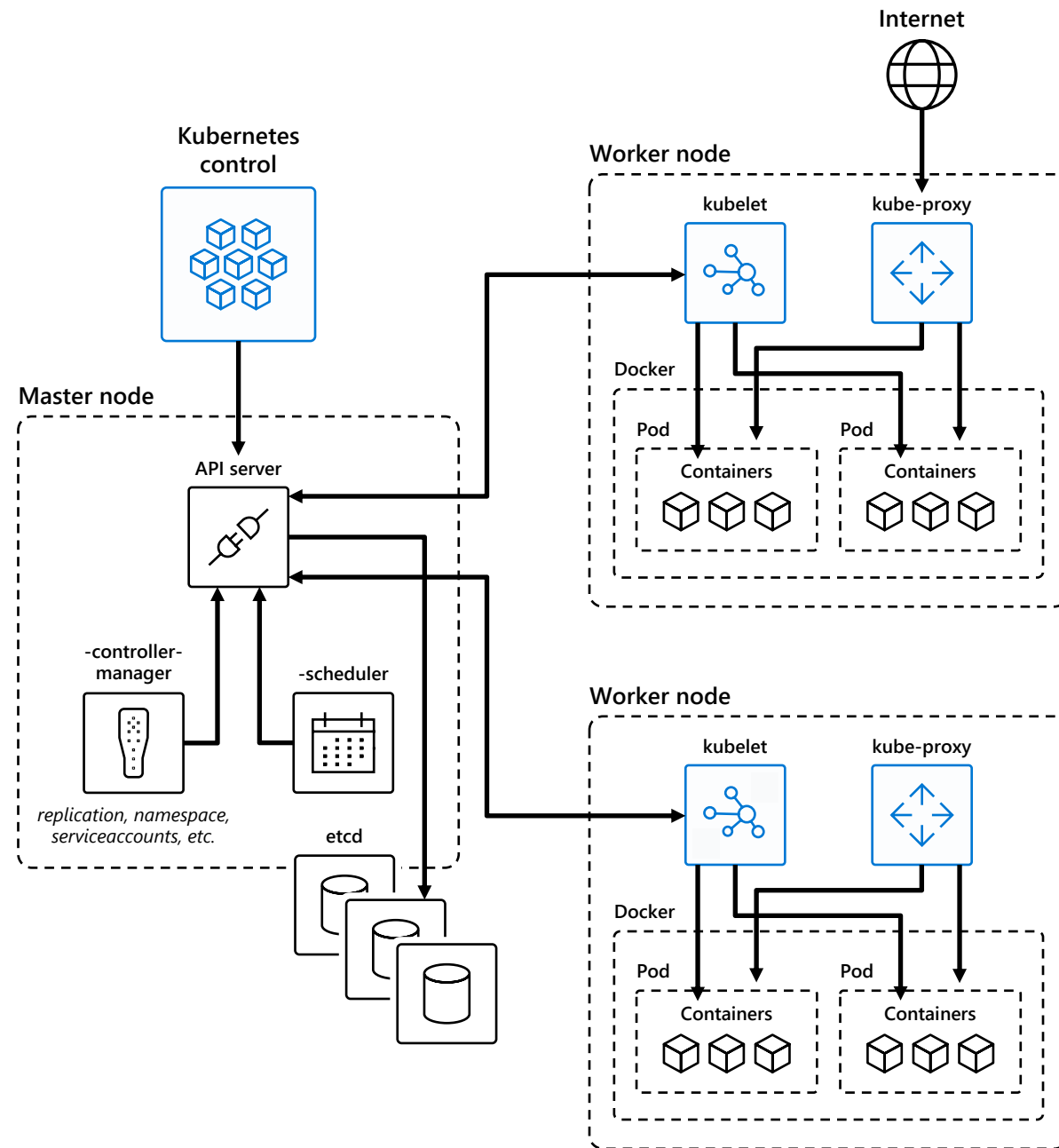
**<https://aka.ms/containerfest/aks-lab>**

If you do not have access to an Azure subscription grab an Azure Pass here:

**<https://aka.ms/ignitePreDayPasses>**

# Kubernetes 101



















1. Kubernetes users communicate with API server and apply desired state
2. Master nodes actively enforce desired state on worker nodes
3. Worker nodes support communication between containers
4. Worker nodes support communication from the Internet

































# From infrastructure to **innovation**

## Managed Kubernetes empowers you to do more

Focus on your containers  
and code, not the plumbing  
of them.

Responsibilities	DIY with Kubernetes	Managed Kubernetes on Azure	
Containerization			
Application iteration, debugging			
CI/CD			
Cluster hosting			
Cluster upgrade			
Patching			
Scaling			 Customer
Monitoring and logging			 Microsoft

# Work how you want with opensource tools and APIs

	Development	DevOps	Monitoring	Networking	Storage	Security
Take advantage of services and tools in the Kubernetes ecosystem	 	 <b>Jenkins</b>  <b>Terraform</b>    <b>CODESHIP</b>	 <b>Prometheus</b>  <b>fluentd</b>  <b>Grafana</b>    <b>JAEGER</b>	 <b>CNI</b> Networking  <b>TIGERA</b>	  <b>portworx</b>	 <b>Twistlock</b>  <b>aqua</b>  <b>heptio</b>  <b>HASHICORP</b>  RBAC
OR, Leverage growing Azure support	 VS Code	 VSTS  ARM	 Azure Monitor	 Azure VNET	 Azure Storage	 Azure Container Registry  AAD  Key Vault

# Lab

**Visit <https://aka.ms/containerfest/aks-lab>**

# Panel discussion and Q&A

We want to answer your questions!

Submit your questions or topics for our  
afternoon panel at

**<https://aka.ms/containerfest/panel>**

