

# Kubernetes Workshop

## Introduction

Talk by Kris Nova, Kubernetes Maintainer, Golang contributor,  
Notable contributions: Kubicorn, Terraform, Kubeadm,  
Organizer of sig-aws, sig-cluster-lifecycle  
Works at Heptio

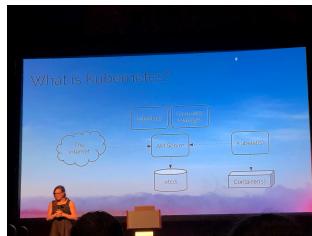
Author of Cloud Native Infrastructure book.

Goal of this workshop: Be the Kubernetes guy at your company.

## Agenda

- Getting started
- Building the first pod
  - Deployments, pods, services, kubectl
- Public web service
- Everything else

What is Kubernetes?



- Kubelets - means governer/captain/ in Greek
- Container orchestration platform
- etcd - key:value datastore.
- Kubelet - linux service runs on a separate virtual machine

## Value add with Kubernetes

- Complexity
- Scalability
  - S/10/1000/g

- Technical investment
- Repeatability - computer science, ease of delivery
- Resilience
  - self-healing controllers

## Installing a cluster

- GKE - Google Kubernetes Engine
- EKS on AWS
  - Elastic Kubernetes Service on AWS
  - Works well with CNI, what is CNI? Cloud Native Infrastructure
- Azure
- Kops on AWS
- Kubecon

## References:

- <https://blog.heptio.com/aws-quickstart-for-kubernetes-26ccaf7e1c8f>
- <https://docs.google.com/presentation/d/1-RUWXTWfQ6ixYljQd4sZQrvmT6U5s3qs-nzE3r8JLZ0/edit#slide=id.p>
- <https://github.com/kubicorn/kubicorn>
-