

Microservices with Kubernetes

Day 1

Kubernetes Overview

Tools & Resources

Configuring a Kubernetes Cluster

Configure Cloud Servers

Docker Installation and Overview

Installing Kubeadm, Kubelet, and Kubectl

Pods Overview

Writing a Pod

Running a Pod

Bootstrap the Kubernetes Cluster

Configure Cluster Network with Flannel

Lab: Install and Configure a Kubernetes Cluster using aws / minikube

Day 2

Working with Microservices

What are Microservices?

NodePort & ClusterIP

Pod Selection with Labels

Installing a Single Application to the Cluster

Installing a Microservice Application to the Cluster

Kubernetes API

Service Discovery

ReplicaSets

Writing a ReplicaSet

Applying a ReplicaSet

Ingress

Scaling Microservices

Deployments rundown

Managing Rollouts

Self-Healing

Lab: Deploy ActiveMQ as a Pod and Service

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