



Serverless on Kubernetes with Knative

All Abilities - 1 day

Overview

This course introduces you to serverless deployment with Knative on GKE.

Learn how to deploy Istio and Knative to a Google Kubernetes Engine cluster, then deploy an application to the cluster using Knative services. This application is iterated and improved upon throughout the day; first, the service is modified so that the application autoscales based on request demand, then service logs and metrics are accessed to allow attendees to learn how to perform simple diagnostics and debugging. Advanced deployment patterns using Knative and Istio traffic shaping are later covered.



This course includes:

- Learn how to deploy Istio and Knative to a GKE Kubernetes cluster
- Deploy an application using Knative services
- Auto-scale the service based on request demand
- Understand how to access service logs and metrics and perform simple diagnostics and debugging
- Deploy a canary service and configure traffic routing
- Understand some of the inner-workings of Knative and Istio

Participant Level:

Participants should have used Kubernetes and deployed some simple applications, rolling Dockerfiles manually or with some kind of service. To get the most out of the day participants must bring their own laptop, with a development environment ready to use.