

# ADVANCED KUBERNETES OPERATIONS (CN320)

Course Code: 100821

Master advanced techniques for deploying and maintaining production-grade Kubernetes clusters.

In the Advanced Kubernetes Operations class, operations staff will learn many of the tools and patterns needed to run a Kubernetes cluster in production. This course is targeted at advanced Kubernetes users tasked with operational responsibilities such as logging, monitoring, alerting, continuous and progressive continuous deployments, as well as cluster bootstrapping, maintenance, backups and disaster recovery. Advanced Kubernetes Operations is a pattern driven course, exploring the powerful patterns of Kubernetes Operators and gitops which can be used across a wide variety of tool chains.

## What You'll Learn

- Setting up HA Kubernetes with Kubespray
- Securing the software supply chain with an image registry
- Deploying and managing Kubernetes apps with Helm
- Instrumenting Kubernetes apps and clusters with Prometheus, Kibana, Alertmanager, Grafana and Fluentd
- Continuous Deployment with Istio and Flux
- Cluster backup and disaster recovery with Velero

## Who Needs to Attend

This course is targeted at students with the following:

- **Motivations:** Deploy & manage a production grade kubernetes cluster
- **Roles:** Infrastructure/Deployment Engineers, Cloud Architects

## Prerequisites

- 100818 Kubernetes Operations (CN 220) course and prerequisites therein, or equivalent experience
- Familiarity with the Bash shell
- Filesystem navigation and manipulation
- Command line text editors like vim or nano
- Common tooling like curl, wget and ping
- Familiarity with YAML and JSON notation
- Mastery of basic to intermediate Kubernetes tools, like pods, controllers, servi

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