Advanced Kubernetes Operations

Duration: 2 Days   Course Code: CN320

Overview:

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 toolchains.

Target Audience:

This course is targeted at students with the following:
Motivations: Deploy & manage a production grade kubernetes cluster
Roles: Infrastructure/Deployment Engineers, Cloud Architects

Objectives:

- 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

Prerequisites:

- 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, services and persistent storage
- CN220 - Kubernetes Operations

Content:

Lab requirements:

- Laptop with WiFi connectivity

Attendees should have the latest Chrome or Firefox installed, and a free account at strigo.io.

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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