

VMware Kubernetes Cluster Operations for Heptio

Code:	EDU-KCO
Length:	1 days
URL:	View Online

This one-day course continues the journey of learning Kubernetes. Through a series of lecture and lab exercises, the operational and internal workings of Kubernetes are explored. System administrators and Cluster Operators will learn the skills of operating an existing built cluster.

Skills Gained

By the end of the course, you should be able to meet the following objectives:

- Understand cluster logging architectures and implement a reference solution
- Know the steps and process for doing in-place cluster upgrades
- Optimize cluster scheduling through the use of Resource requests/limits and affinities
- Become confident in managing a Kubernetes Cluster

Who Can Benefit

Anyone responsible for maintaining a Kubernetes Cluster

Prerequisites

- Linux concepts and command line proficiency
- General networking proficiency
- Completion of Kubernetes: Hands-on Workshop

Course Details

Product Alignment

- Any Kubernetes Cluster

Outline

Course Introduction

- Introductions and course logistics
- Course objectives
- Access the lab environment

Kubectl

- kubectl configuration files
- kubectl container interaction

Logging

- Logging in containers and Kubernetes
- Logging architectures
- Backend considerations

Monitoring

- Monitoring data vs Log data
- Tools
- Baseline and trend analysis

Storage & Stateful Applications

- Stateful Applications
- Persistent Volumes
- Persistent Volume Claims
- Stateful Sets
- Local Storage

Resource Management

- Workload organization and isolation
- Resource specifications
- Resource request / limits
- Node and Pod affinity

Cluster Maintenance

- Backup options
 - In place upgrades
 - Node Maintenance
 - Jobs and Cron Jobs
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