

## VMware Kubernetes Cluster Operations for Heptio

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<b>Code:</b>	EDU-KCO
<b>Length:</b>	1 days
<b>URL:</b>	<a href="#">View Online</a>

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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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## Schedule (as of 3 )

**Date**

**Location**

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