

[VMKCO]: Kubernetes Cluster Operations

Length : 1 Day
Delivery Method : Instructor-led (Classroom)

Course Overview

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.

Audience Profile

- Anyone responsible for maintaining a Kubernetes Cluster

At Course Completion

- Understand cluster logging architectures and implement a reference solution in lab
- Learn how to troubleshoot cluster problems
- Successfully onboard new Applications and Teams
- Become confident in managing a Kubernetes Cluster

Pre-Requisites

This course requires completion of the following courses:

- Linux concepts and command line proficiency
- General networking proficiency
- Completion of Kubernetes: Foundations

Course Outline

Module 1: Cluster Architecture

Lessons

- Kubernetes ecosystem
- Distributions and Service Offerings
- Storage
- Networking
- kubeadm

Module 2: Logging

Lessons

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

Module 3: Monitoring

Lessons

- Monitoring data vs Log data

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- Tools
- Baseline and trend analysis

Module 4: Cluster Troubleshooting**Lessons**

- General guidance
- Determining impact

Module 5: Onboarding Application and Teams**Lessons**

- Onboarding considerations
- Mapping concepts to Kubernetes
- Restrictions mechanisms and policies

Module 6: Cluster Maintenance**Lessons**

- Backup options
- Upgrades
- Node Maintenance

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