

Kubernetes Cluster Operations

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.

Course Objectives

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

- 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

Target Audience

- Anyone responsible for maintaining a Kubernetes Cluster

Prerequisites

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

Course Delivery Options

- Classroom
- Live Online
- [Onsite](#)

Product Alignment

- Any Kubernetes Cluster

Course Modules

1 Cluster Architecture

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

2 Logging

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

3 Monitoring

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

4 Cluster Troubleshooting

- General guidance
- Determining impact

5 Onboarding Application and Teams

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

6 Cluster Maintenance

- Backup options
- Upgrades
- Node Maintenance

Contact

If you have questions or need help registering for this course, click [here](#).



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