Training: The Linux Foundation
LFS258 Kubernetes Fundamentals + CKA Exam Bundle

THE LINUX FOUNDATION AUTHORIZED TRAINING PARTNER

TRAINING GOALS:

This certification is for Kubernetes administrators, cloud administrators and other IT professionals who manage Kubernetes instances.

This course will teach you how to use the container management platform used by companies like Google to manage their application infrastructure. You will learn how to install and configure a production-grade Kubernetes cluster, from network configuration to upgrades to making deployments available via services. The course also distills key principles, such as pods, deployments, replicasets, and services, and will give you enough information so that you can start using Kubernetes on your own.

A certified K8s administrator has demonstrated the ability to do basic installation as well as configuring and managing production-grade Kubernetes clusters. They will have an understanding of key concepts such as Kubernetes networking, storage, security, maintenance, logging and monitoring, application lifecycle, troubleshooting, API object primitives and the ability to establish basic use-cases for end users.

CONSPECT:

- **Chapter 1. Course Introduction**
- **Chapter 2. Basics of Kubernetes**
- **Chapter 3. Installation and Configuration**
- **Chapter 4. Kubernetes Architecture**
- **Chapter 5. APIs and Access**
- **Chapter 6. OPI Objects**
- **Chapter 7. Managing State with Deployment**
- **Chapter 8. Volumes and Data**
- **Chapter 9. Services**
- **Chapter 10. Helm**
- **Chapter 11. Ingress**
- **Chapter 12. Scheduling**
- **Chapter 13. Logging and Troubleshooting**
- **Chapter 14. Custom Resource Definitions**

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- **Chapter 15. Security**
- **Chapter 16. High Availability**
- **Chapter 17. Exam Domain Review**

REQUIREMENTS:

Before starting this course, you should be familiar with:

- Linux concepts and command line – We recommend Introduction to Linux, a free edX course
- Package managers
- Git and GitHub
- We recommend Introduction to Kubernetes, a free edX course, as a good start for your Kubernetes journey

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by The Linux Foundation

TRAINER:

The Linux Foundation Certified Trainer

ADDITIONAL INFORMATION:

Online Self-Paced

35 hours of Course Material

Hands-on Labs & Assignments1

Video Content

12 Months of Access to Online Course

Digital Badge

Discussion forums

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