Training: The Linux Foundation
LFD259 Kubernetes for Developers

THE LINUX FOUNDATION AUTHORIZED TRAINING PARTNER

TRAINING GOALS:

This course will teach you how to containerize, host, deploy, and configure an application in a multi-node cluster. Starting with a simple Python script, you will define application resources and use core primitives to build, monitor and troubleshoot scalable applications in Kubernetes. Working with network plugins, security and cloud storage, you will be exposed to many of the features needed to deploy an application in a production environment.

In this course you'll learn how to:

- Containerize and deploy a new Python script
- Configure the deployment with ConfigMaps, Secrets and SecurityContexts
- Understand multi-container pod design
- Configure probes for pod health
- Update and roll back an applicatio
- Implement services and NetworkPolicie
- Use PersistentVolumeClaims for state persistence
- And more

This course is designed to be vendor- and distribution-neutral, so you will be able to apply these concepts universally.

CONSPECT:

- Course Introduction
- Kubernetes Architecture
- Build
- Design
- Deployment Configuration
- Security
- Exposing Applications
- Troubleshooting

Compendium Education Center Ltd.
ul. Tatarska 5, 30-103 Kraków, tel.: (12) 298 47 77
ul. Bielska 17, 02-394 Warszawa, tel.: (22) 417 41 70

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REQUIREMENTS:

To get the most out of this course, you should have basic Linux command line and file editing skills and be familiar with using a programming language (such as Python, Node.js, Go). A knowledge of Cloud Native application concepts and architectures (such as is taught in our free Introduction to Kubernetes edX MOOC) is helpful for this course.

Difficulty level

CERTIFICATE:

The participants will obtain certificates signed by The Linux Foundation.

TRAINER:

Certified The Linux Foundation Trainer.

ADDITIONAL INFORMATION:

35 hours of self-course material.

Video Content.

12 Months of Access to Online Course.

Discussion Forums.

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