

Document Generated: 10/27/2024

Learning Style: On Demand

Provider:

Difficulty: Intermediate

Course Duration: 35 Hours

LFD259 - Kubernetes for Developers



About this course:

The course will teach you on the methods of containerizing, hosting, configuring, and deploying applications on a multi-node cluster. You will start off with a simple Python script in which you will have to define application resources and then use the basic techniques of deploying, scaling, and managing the applications through the usage of Kubernetes. You will be trained in and introduced to different features used to deploy an application in a production environment by using network plugins, security and cloud storage.

The learning specifics of this course are vendor-agnostic and distribution-agnostic. Hence, this will give you the margin as well as the opportunity for universal application of the learned skills.

The course will be available to you for an entire year, from the day of purchase, or in the case of preorders, availability, and will be accessible even if you finish the course early. The course hours are approximately 30-35 hours in total. The course has the feature of self-paced so you will be able to complete it at your own ease.

On average, a Kubernetes developer earns \$143,493 per annum.

Learning Objectives:

The course has the following learning objectives:

- Containerizing or encapsulating, and deploying a new Python script
- Configuring the deployment of the application through the usage of ConfigMaps, Secrets and SecurityContexts
- Gaining comprehension of multi-container pod design
- Setting and managing of probes for measuring pod health
- Making updates and rolling back an application
- Incorporating services and NetworkPolicies
- Making use of PersistentVolumeClaims for state persistence
- And many other skills

Audience:

This course is suitable for and designed for Kubernetes developers and app developers.

Requirements:

The requirements of this course have been set in such a way that you get to fully reap the benefits of this course. Having prior knowledge of basic Linux command line and file editing skills will be beneficial for your future learning in this course. Additionally, you must be familiar with using a programming language like Python, Node.js, and Go. It will be helpful to have knowledge of the concepts of Cloud Native application and architectures (similar to which is taught in our free introduction of Kubernetes edX MOOC).

Course Outline:

- Chapter 1. Course Introduction
- Chapter 2. Kubernetes Architecture
- Chapter 3. Build
- Chapter 4. Design
- Chapter 5. Deployment Configuration
- Chapter 6. Security
- Chapter 7. Exposing Applications
- Chapter 8. Troubleshooting

Credly Badge:



Display your Completion Badge And Get The Recognition You Deserve.

Add a completion and readiness badge to your LinkedIn profile, Facebook page, or Twitter account to validate your professional and technical expertise. With badges issued and validated by Credly, you can:

- Let anyone verify your completion and achievement by clicking on the badge
- Display your hard work and validate your expertise
- Display each badge's details about specific skills you developed.

Badges are issued by QuickStart and verified through Credly.

[Find Out More](#) or [See List Of Badges](#)