

LFS253 - Containers Fundamentals

Modality: On Demand

Duration: 40 Hours

About this course:

In the modern times, we have been provided with various facilities that help us in completing our daily tasks, including stuff like, booking a taxi, ordering meals, scheduling an appointment, etc. These businesses and organizations that provide with these online facilities are always keeping track of their customers and update their apps with new features as much as possible. In such an app-centered world, containers and services have the best place. We can easily build applications using containers, and deploy it on any platform of our choice like, Bare-Metal, VM, Cloud, etc.

Containers provides benefits for every stage of application development and use. Hence, it is important to learn on containers, regardless of our job nature, whether it be Developers, Quality Assurance, or Operations. Containers have turned into a central point of DevOps.

This course will give you a strong base on container technology. After its completion, you will be able to operate container and image, using various container runtimes, regulate network and storage (volumes), design and operate multi-container applications with Docker, Docker APIs, and so on.

After learning these topics, you can move to advanced topics like Docker Swarm and Kubernetes.

On average, a DevOps engineer earns \$133,378 per annum.

Audience:

The course has been designed for Linux administrators and DevOps engineers.

Requirements:

You should have access to computer that has Linux, Mac or Windows in it. You should also have knowledge of command line, and foundational knowledge of Cloud. You should have access to Linux server or Linux desktop/laptop, if you cannot access DigitalOcean Cloud.

Course Outline:

- **Chapter 1. Course Introduction**
- **Chapter 2. The History of Containers**
- **Chapter 3. Building Blocks**
- **Chapter 4. Container Runtimes**
- **Chapter 5. Docker for Mac and Windows**
- **Chapter 6. Accessing a Remote Docker Daemon**
- **Chapter 7. Container Operations**
- **Chapter 8. Working with Images**

- **Chapter 9. Working with Dockerfiles**
- **Chapter 10. Container Networking**
- **Chapter 11. Container Storage**
- **Chapter 12. Building a Multi-Container Application with Docker Compose**
- **Chapter 13. Introducing Docker APIs**
- **Chapter 14. Docker Tips and Tricks**