Jenkins Essentials (LFS267)

This course discusses various usability and administrative aspects of Jenkins. Upon course completion, you will have a solid understanding of containerized installation, distributed builds in Kubernetes clusters, advanced security features, multi-branch pipelines, and GitOps with Jenkins concepts.

Duration: 4 Days

Prerequisites for this course

- o Basic knowledge of Jenkins – We recommend the course "Introduction to Jenkins (LFS167)"
- o Basic knowledge of Kubernetes (pods, namespaces, volumes, Role Based Access Control (RBAC)) – We recommend the "Introduction to Kubernetes (LFS158)" course
- o Basic knowledge of concepts of building and using Docker images

Outline for this course

Chapter 1 – Course Introduction

Chapter 2 – Running Jenkins on Kubernetes

Chapter 3 – Jenkins High Availability on Traditional Platforms

Chapter 4 – Scaling Jenkins Infrastructure with Dynamic Build Agents

Chapter 5 – Jenkins CLI and Rest API

Chapter 6 – Implementing Feedback Loops

Chapter 7 – Securing Jenkins Projects

Chapter 8 – Jenkins Pipelines

Chapter 9 – Managing Artifacts

Chapter 10 – Taking It Further