

Introduction to Kubernetes (LFS158)

Course Duration : 8 Hours

Course code : LFS158

1. Course Overview

The **Introduction to Kubernetes (LFS158)** course provides a beginner-friendly introduction to Kubernetes and container orchestration. This course explains how Kubernetes helps deploy, manage, and scale containerized applications in modern cloud environments.

2. What you'll learn?

- Basics of Kubernetes and containers
- Kubernetes architecture and components
- Deploying containerized applications
- Scaling and managing workloads
- Basic Kubernetes commands

3. Target Audience

- Beginners in Kubernetes
- IT professionals
- Developers and system administrators
- Cloud and DevOps beginners

4. Pre-Requisites

- Basic understanding of Linux
- Familiarity with containers is helpful
- Basic networking knowledge

5. Course Content (Modules)

Module 1: Kubernetes Basics

- Introduction to Kubernetes
- Containers and orchestration

Module 2: Kubernetes Architecture

- Control plane and worker nodes
- Core components

Module 3: Core Kubernetes Objects

- Pods and services
- Deployments and ReplicaSets

Module 4: Application Deployment and Scaling

- Deploying applications
- Scaling workloads

Module 5: Kubernetes CLI and Basic Operations

- kubectl basics
- Managing resources