

## Istio Service Mesh Essentials (LFS245)

Learn Istio essentials such as: explaining the basic building blocks of Envoy proxy and how it fits within Istio; using IstioOperator API to install, configure; and secure the mesh; manage traffic using Istio CRDs and Gateway API; and create policies to install Istio across multiple clusters.

**Duration:** 3 Days

### Prerequisites for this course

In order to complete this course, learners should be able to:

- Basic Linux concepts and using the command line – we recommend the free Introduction to Linux (LSF101) course
- Kubernetes fundamentals and Kubernetes CLI – we recommend the free Introduction to Kubernetes (LFS158) course
- A basic introduction to Istio – we recommend the free Introduction to Istio (LFS144) course.

### Outline for this course

Chapter 1 - Course Introduction

Chapter 2 - Introduction to Istio Service Mesh

Chapter 3 - Installing and Configuring Istio Service Mesh

Chapter 4 - Managing Ingress and Egress Traffic

Chapter 5 - Managing Traffic with Istio

Chapter 6 - Resiliency and Fault Injection

Chapter 7 - Observability in Istio

Chapter 8 - Security

Chapter 9 - Ambient Mesh

Chapter 10 - Advanced Topics

Chapter 11 - Troubleshooting Istio