

## Introduction to Service Mesh with Linkerd (LFS143x)

Learn the basics of service mesh and get hands-on practical experience with Linkerd, the open source, open governance, ultralight service mesh for Kubernetes hosted by CNCF, including transparent mTLS, golden metrics, traffic shifting, and multi-cluster communication.

**Duration:** 3 Days

### Prerequisites for this course

Before taking this course, you should be familiar with:

- Kubernetes resource types - Service, Deployment, Pod, DaemonSet, etc.
- Kubernetes - Running cluster on the computer and in the cloud, building container images and running them using kubectl
- YAML - Reading and writing YAML
- Linux terminal environment

### Outline for this course

Chapter 1 – What Is a Service Mesh?

Chapter 2 – Linkerd and the Service Mesh Ecosystem

Chapter 3 – Linkerd Architecture

Chapter 4 – The Data Plane Starring Linkerd2-proxy

Chapter 5 – The Linkerd Control Plane

Chapter 6 – Linkerd Extensions

Chapter 7 – Deploying Linkerd to a Kubernetes Cluster

Chapter 8 – Getting “Golden Metrics” for Your Applications

Chapter 9 – Using Service Profiles for Per-Route Metrics

Chapter 10 – Retries and Timeouts

Chapter 11 – Securing Your Application Communication with mTLS

Chapter 12 – Canary and Blue-Green Deployments

Chapter 13 – Using Linkerd in Production

## Chapter 14 – Course Summary and Next Steps?