



Getting Started with OpenTelemetry (LFS148)

Learn how to deploy serverless applications using Knative on Kubernetes, manage event-driven workloads, and implement autoscaling strategies. You'll also configure Knative Serving and Eventing, handle traffic management, and set up monitoring and observability with tools like Prometheus and Grafana.

Duration: 1 Day

Prerequisites for this course

To make the best of this course, you will need to have the following:

- Programming Knowledge: A basic understanding in programming, preferably with Python and Java
- Basic Understanding of Distributed Systems: Knowledge of how distributed systems communicate and basic concepts of APIs
- Experience with Observability Tools: While not strictly required, having some familiarity with existing observability tools like Prometheus, Grafana, or Jaeger can help understand the context and benefits of OpenTelemetry.
- Command Line Interface (CLI) Skills: Ability to navigate and execute commands in a terminal or command prompt, as many setup and configuration tasks will involve CLI usage.
- Environment Configuration: Experience with setting up and configuring development environments, including virtual environments and containerization technologies like Docker.
- Version Control System (VCS) Usage: Familiarity with version control systems like Git, which is essential for managing code and collaborating on projects.

Outline for this course

- Chapter 1 Course Introduction
- Chapter 2 Why Do We Need OpenTelemetry?
- Chapter 3 Overview of the OpenTelemetry Framework
- Chapter 4 Hands-on Lab: OpenTelemetry in Action
- Chapter 5 Instrumentation
- Chapter 6 Hands-on Lab: Automatic Instrumentation and Instrumentation Libraries
- Chapter 7 Hands-on Lab: Manual Instrumentation: Traces
- Chapter 8 Hands-on Lab: Manual Instrumentation: Metrics
- Chapter 9. Hands-on Lab: Manual Instrumentation: Logs





Chapter 10. OpenTelemetry Collector

Chapter 11. Hands-on Lab: Telemetry Pipelines with the OpenTelemetry Collector