

TRAINING COURSE

Confluent Advanced Skills for Optimizing Apache Kafka®

Course Objectives

During this hands-on course, you will learn:

- Industry best practices to monitor, troubleshoot and tune a real-time event streaming platform built with Apache Kafka®, to support your event-streaming applications
- To utilize native tools, including Confluent Control Center as well as third-party software tools

Hands-on Training

Hands-on exercises are included throughout the training to help reinforce the concepts being discussed.

Exercises include:

- Monitoring Kafka brokers, ZooKeeper and Kafka clients via JMX and Confluent Control Center, as well as Prometheus and Grafana
- Troubleshooting brokers, ZooKeeper, Producers, Consumers, Confluent ksqlDB applications, Kafka Streams applications and the Schema Registry, Tuning brokers, Producers, Consumers, Kafka Connect, ksqlDB and Kafka Streams, applications discussing production-down troubleshooting strategies
- Calculating replication throttling rates
- Evaluating partition strategies

Prerequisites

Attendees should have deep knowledge of and hands-on experience with Kafka. An understanding of additional components that contribute to a real-time event-streaming platform such as Kafka Connect, ksqlDB and Kafka Streams applications is also required.

Additionally it is suggested that students attend the recommended prerequisites:

- Confluent Fundamentals for Apache Kafka®
- Apache Kafka® Administration by Confluent™

Participants are required to provide a laptop computer with unobstructed internet access to fully participate in the class.

To sign-up for one of our courses, visit us [here](#)

Who Should Attend?

This course is designed for engineers, system administrators, and operations staff responsible for in-depth monitoring, tuning and troubleshooting an event-streaming platform powered by Kafka.

Content

MODULE	DESCRIPTION
<p>Major Components</p>	<p>This intensive hands-on course will cover the monitoring, troubleshooting, and tuning of the major components of Apache Kafka® and Confluent Platform environments including:</p> <ul style="list-style-type: none"> • Brokers • Producers • Consumers • Apache ZooKeeper • Kafka Streams • Kafka Connect • Confluent KSQL • Confluent Schema Registry
<p>Additional Discussions</p>	<p>Will include:</p> <ul style="list-style-type: none"> • Determining Business Needs and SLAs • Monitoring using JMX Metrics • Monitoring with Confluent Control Center and third-party tools • Recommending Troubleshooting Strategies • Using Kafka Troubleshooting tools • Analyzing Kafka Log Files • Performing a Troubleshooting Post-mortem Analysis

Confluent offers instructor-led courses in both traditional and virtual classroom formats, as well as in a self-paced format available through the Confluent Self-Paced Subscription. Visit confluent.io/training for more information.

Disclaimer: Subscriptions purchased with Training Credits will have an end date matching the Training Credits order.