

TRAINING COURSE

Confluent Advanced Skills for Optimizing Apache Kafka®

Course Objectives

During this instructor-led, hands-on course, you will learn how to monitor, troubleshoot and tune a real-time, event-streaming platform built with Apache Kafka. You will use industry best-practices to monitor, troubleshoot, and tune the components of Kafka and Confluent Platform to support your event-streaming applications. You will learn 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 KSQL applications, Kafka Streams applications and the Schema Registry, Tuning brokers, Producers, Consumers, Kafka Connect, KSQL and Kafka Streams, applications discussing production-down troubleshooting strategies
- Calculating replication throttling rates
- Evaluating partition strategies

Course Duration

This is a three-day training course.

Course 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, KSQL and Kafka Streams applications is also required. It is recommended that students attend the Apache Kafka Administration by Confluent course prior to taking Confluent Advanced Skills for Optimizing Apache Kafka.

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

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 an on-demand (recorded) format. Please visit <http://confluent.io/training> for more information.