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# Kafka CCAC® Training: Associate Certification

2 days (14 hours)

## Overview

Confluent Cloud is an Apache Kafka-based data streaming platform that enables the management of real-time streams in modern cloud environments.

Our Confluent Cloud Certified Operator (CCAC) training will enable you to master the operation of managed Kafka clusters in a cloud environment.

You will learn how to configure, secure, monitor, and optimize your streaming infrastructure.

Upon completion of the training, you will be able to administer a Confluent Cloud platform and effectively prepare for the CCAC certification.

Like all our courses, this one is based on the [latest](#) exam [syllabus](#) published by Confluent.

## Objectives

- Master Kafka and Confluent Cloud
- Administer clusters
- Secure access
- Monitor performance
- Prepare for certification

## Target Audience

- Data Engineers
- DevOps / SRE
- Kafka Administrators

# Prerequisites

- Basic understanding of cloud computing
- Knowledge of distributed systems
- Databases or DevOps

## Our Confluent Cloud Certified Operator (CCAC) Training Program

[Day 1 - Morning]

### Confluent Cloud Architecture and Fundamentals

- Understanding Apache Kafka and the principles of data streaming
- Introduction to Confluent Cloud and its managed architecture
- Key concepts: topics, partitions, brokers, offsets
- Event-driven model and real-time data use cases
- Differences between on-premises Kafka and cloud Kafka
- Hands-on workshop: Creating a Confluent Cloud cluster and first topics.

[Day 1 - Afternoon]

### Cluster and resource management

- Creating and configuring Kafka clusters
- Managing topics and partitions
- Configuring retention and storage
- Introduction to Connectors (Kafka Connect)
- Quota and Limit Management
- Hands-on workshop: Advanced topic configuration and data ingestion.

### Security and access control

- Authentication via API Keys and Service Accounts
- Rights Management with RBAC
- Securing data streams with TLS/SSL
- Best practices for access governance
- Environment management (dev / prod)
- Hands-on workshop: Setting up secure access and testing permissions.

[Day 2 - Morning]

### Monitoring and observability

- Introduction to Kafka monitoring
- Using Confluent Cloud metrics
- Analysis of consumer lags
- Setting up alerts
- Integration with external tools (Datadog, Prometheus)
- Hands-on workshop: Analyzing an incident using metrics and logs.

## [Day 2 - Afternoon] Operations

### and Optimization

- Performance and throughput management
- Optimizing partitions and scaling
- Best practices for cost management
- Resilience and high availability strategies
- Error handling and retries
- Hands-on workshop: Optimizing a live cluster.

## Integration and preparation for CCAC certification

- Integration with applications (producers/consumers)
- Using Confluent CLIs and APIs
- Real-world production use cases
- Review of key certification concepts
- Tips and strategies for passing the CCAC
- Hands-on workshop: Mock exam + review.

## Target Audience

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

## Entry-level assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

## Teaching Methods

Practical Training: 60% Practical, 40% Theoretical. Training materials will be distributed in digital format to all participants.

## Organization

The course alternates between theoretical input from the instructor, supported by examples and reflection sessions, and group work.

## Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

## Certification

A certificate will be issued to each trainee who has completed the entire training program.