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# Cloudera Platform Training

3 days (21 hours)

## Overview

Cloudera Platform is a data and AI platform designed to unify data, governance, and processing in hybrid environments. With SDX, Apache Iceberg, cloud-native data services, and centralized security mechanisms, Cloudera enables you to build reliable, scalable architectures ready for mission-critical business use cases. Our Cloudera Platform training goes beyond a basic introduction to the platform, helping you understand its core components, use cases, and operational principles in an enterprise environment. You'll learn how to deploy key services, structure a hybrid approach, and apply concepts of governance, data catalogs, traceability, and security, while identifying use cases tailored to analytical and data engineering needs. The course also covers components related to data lakehouses, cloud-native services, lineage, and observability, to help you better design, administer, and scale consistent Cloudera environments. By the end of this course, you'll have a clear understanding of the Cloudera architecture, best practices for implementation, and key considerations for scaling your data projects with greater confidence.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

## Objectives

- Understand the role of the Cloudera Platform within a modern data architecture.
- Identify the key governance, catalog, and traceability services.
- Master the principles of a hybrid and cloud-native platform.
- Be able to interpret an architecture centered on data lakehouses and data services.
- Apply best practices for security, operations, and industrialization.

## Target Audience

- Cloud Architect
- Data Architect
- Data Engineer
- Platform Administrator
- Data Governance Manager

## Requirements

- Basic knowledge of cloud architecture and hybrid environments.
- Understanding of data platform, ETL, and data storage concepts.
- General understanding of security, access management, and governance.
- Previous experience with a data platform or a technical operations environment.

## Technical Requirements

- A recent computer with at least 8 GB of RAM; 16 GB is ideal for a smoother experience.
- Stable Internet connection via Wi-Fi or Ethernet.
- An up-to-date web browser to access the training interfaces and materials.
- Microphone and headset recommended for remote sessions.
- Access to a demo environment or platform account may be required, depending on the training program.

## Cloudera Platform Training Program

[Day 1 - Morning]

### Platform Fundamentals

- Understand the Cloudera Platform's role in a modern data landscape.
- Identify the key principles of the hybrid platform and seamless continuity of use across environments.
- Explore the service families: data engineering, data warehouse, AI, and governance.
- Analyze a target architecture and identify the essential functional building blocks.
- Understand the expected benefits in terms of scalability, security, and consistency.
- Hands-on workshop: Map out a typical Cloudera architecture based on a given business requirement.

[Day 1 - Afternoon]

### Hybrid Architecture and Deployment

- Analyze on-premises, cloud, and hybrid deployment models.
- Understand the logic behind workload portability and minimizing application rewrites.
- Explore the concepts of workload separation, isolation, and multi-tenancy.
- Understand the impact of architecture on costs, performance, and operations.
- Position governance constraints within a multi-environment context.
- Hands-on workshop: Choose a deployment model suited to various business use cases.

## [Day 2 - Morning]

### Governance and Security

- Explore the role of SDX in ensuring consistency in security and compliance policies.
- Understand centralized management of access, rules, and controls.
- Discover the principles of data lineage, metadata management, and auditing.
- Link compliance challenges to the need to control sensitive data.
- Establish a governance framework that is clear to both technical and business teams.
- Hands-on workshop: Define governance and security rules for a sensitive dataset.

## [Day 2 - Afternoon]

### Catalog, Traceability, and Discovery

- Understand how a data catalog works within the platform.
- Apply the concepts of data search, classification, and profiling.
- Interpret metadata useful for discovering and building trust in datasets.
- Track data flows using lineage and audit mechanisms.
- Coordinate the catalog, compliance, and collaboration among teams.
- Hands-on workshop: Analyze a data discovery and classification scenario in the catalog.

## [Day 3 - Morning]

### Data Services and Use Cases

- Explore data engineering services and their role in the processing chain.
- Understand the benefits of a data lakehouse and open table formats such as Apache Iceberg.
- Integrate analytics, BI, streaming, and AI use cases into a single platform.
- Identify the points of convergence between ingestion, transformation, and consumption.
- Match business needs with the most suitable components.
- Hands-on workshop: Build an end-to-end data processing scenario on the Cloudera Platform.

## [Day 3 - Afternoon]

## Operations and Best Practices

- Explore the principles of observability and service monitoring.
- Understand long-term performance, cost, and capacity challenges.
- Identify operational best practices to ensure platform reliability.
- Prepare for collaboration between architects, administrators, and data teams.
- Establish a phased and controlled deployment strategy.
- Hands-on workshop: Develop an operations and governance roadmap for a Cloudera project.

## Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in a new advanced IT technology or to acquire specific business knowledge or modern methodologies.

## Assessment upon enrollment

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 level across 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

Hands-On Training: 60% Practical, 40% Theoretical. Training materials 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 quiz is administered to verify that participants have successfully acquired the skills.

## Certification

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