

ADMIN-236



Administering Apache Ozone

Course Overview

Course Type
Instructor-led training

Level
Intermediate

Duration
2 days

Platform
Cloudera on Premises

Topics Covered

- Ozone Concepts
- Installation and Configuration
- Security
- Maintenance
- Monitoring
- Performance Tuning

About This Training

This 2-day instructor-led course provides a comprehensive, hands-on introduction to Apache Ozone, the next-generation hybrid storage service offering versatility and out-of-the-box compatibility.

Participants will learn the architecture and internal operations of Ozone, gaining the practical skills to safely install and configure secure clusters. They will understand how to manage files and objects, control replication, and successfully handle failover and recovery scenarios.

The course blends foundational object storage concepts with day-to-day administration, guiding teams through the best practices required to maintain and secure modern data environments. Participants will learn to perform essential maintenance tasks to keep their storage infrastructure running smoothly.

Finally, participants will learn about monitoring the environment using the Recon service. They will also gain hands-on experience in executing baseline tests and performance tuning to maximize cluster efficiency and safely exceed the limitations of traditional HDFS.

What Skills You Will Gain

Participants will develop the following skills:

- Understanding the Benefits of Using Ozone
- Installing and Configuring Secure Ozone
- Managing Files and Objects in Ozone
- Performance Tuning and Doing Baseline Tests
- Controlling Replication and Understanding Failover and Recovery
- Performing Maintenance Tasks
- Monitoring Ozone Using the Recon Service

Who Should Take This Course?

This advanced course is for data engineers and applications developers who are migrating data and applications to Apache Ozone. DevOps engineers who want to ensure optimal performance would also find this course useful. Prior experience with the Cloudera platform, including HDFS, YARN, and Hive, is expected. Students must have access to the Internet to reach the classroom environments, which are located on Amazon Web Services.

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Ozone Introduction, Concepts, and Installation

- Introduction
- Why Ozone?
- Ozone Concepts
- Installation and Configuration
- Ozone Client Configuration

Security

- Security Overview
- Security Installation with Kerberos
- Securing Data using Apache Ranger
- Verifying Data Nodes are Secure

Working with Ozone

- File System and Admin Commands
- Transferring Data between Ozone and HDFS
- Setting Quotas and ACLs
- Controlling Replication
- DataNode Layout and Failover

Ozone Administration

- Maintenance Procedures
- Monitoring Ozone with Recon
- Integrating Ozone with Prometheus and Grafana

Performance Tuning

- Ozone Pipelines
- Baseline Load Testing with Freon
- Upgrading Ozone