

ADMIN-236 Managing Apache Ozone

CDP Private Cloud Base and Apache Ozone

Course Overview

Course Type

Instructor-led training course

Level 300

Enterprise Administrator

Duration

4 days

Platform

CDP Private Cloud Base

Topics Covered

- Ozone Concepts
- Installation and Configuration
- Security
- File System Best Practices
- Maintenance
- Monitoring
- Performance Tuning
- Application Integration
- Data Migration from HDFS

About This Training

Apache Ozone is the next-generation hybrid storage service offering versatility and out-of-the-box compatibility. Ozone is an object storage format exceeding the limitations of HDFS. This course teaches architecture, internal operations, installation, file system usage, best practices, security, maintenance, monitoring, tuning and testing.

What Skills You Will Gain

Participants will gain 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 Recon Service
- Integrating Hive, Impala, Spark, Nifi, and Flink with Ozone
- Migrating Data from HDFS to Ozone

Who Should Take This Course?

This advanced course is for administrators who are currently using CDP Private Cloud Base. The course will appeal to technicians, such as data engineers and applications developers, who are migrating data and applications to Apache Ozone. Prior experience of Cloudera Data Platform, to include 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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Training Outline (Page 2 of 2)

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

Ozone File System - Best Practices and Operations

- Best Practices
- Working with Ozone
- Ozone Internals and Data Checksums
- Datanode Failover

Ozone Administration

- Ozone Administration: Maintenance
- Ozone Monitoring
- Ozone Testing
- Performance Tuning

Application Integration and Data Migration

- Application Integration
- Migration from HDFS