

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

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

- 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

Who Should Take This Course?

This advanced course is for administrators who are currently using Cloudera on premises. The course will also appeal to DevOps technicians who support Administrators in their work. 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 DataNodes 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