

HDP Operations: Apache HBase Advanced Management

Learn via: **Classroom**

Duration: **4 Day**

Overview

This course is designed for administrators who will be installing, configuring and managing HBase clusters. It covers installation with Ambari, configuration, security and troubleshooting HBase implementations. The course includes an end-of-course project in which students work together to design and implement an HBase schema.

Prerequisites

HDP Operations: Apache HBase Advanced Management

Who Should Attend

Architects, software developers, and analysts responsible for implementing non-SQL databases in order to handle sparse datasets commonly found in big data use cases.

What You Will Learn

At the completion of the course students will be able to:

- A Hadoop Primer
- Describe Hadoop, Hortonworks, and Big Data
- Describe HDFS and YARN
- Discussion: Running Applications in the Cloud
- Apache HBase Overview
- Provisioning the Cluster
- Using the HBase Shell
- Ingesting Data
- Operational Management
- Backup and Recovery
- Security
- Monitoring HBase and Diagnosing Problems
- Maintenance
- Troubleshooting

Training Outline

- Installing and Configuring HBase with Ambari
- Manually Installing HBase (Optional)
- Using Shell Commands
- Ingesting Data using ImportTSV
- Enabling HBase High Availability
- Viewing Log Files
- Configuring and Enabling Snapshots
- Configuring Cluster Replication
- Enabling Authentication and Authorization
- Diagnosing and Resolving Hot Spotting
- Region Splitting
- Monitoring JVM Garbage Collection
- End-of-Course Project: Designing an HBase Schema