

HDP Operations: Apache HBase Advanced Management HOMB9X

HPE course number	HOMB9X
Course length	4 days
Delivery mode	ILT
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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.

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Audience

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

Prerequisites

Students must have basic familiarity with data management systems. Familiarity with Hadoop or databases is helpful but not required. Students new to Hadoop are encouraged to take the HDP overview: Apache Hadoop Essentials course.

Course objectives

- Hadoop primer
 - Hadoop, Hortonworks, and Big Data
 - 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

* Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Hands-on labs

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

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