INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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HBase Course

Introduction to Hadoop and HBase

- Introducing Hadoop
- Core Hadoop Components
- What Is HBase?
- Why Use HBase?
- Strengths of HBase
- HBase in Production
- Weaknesses of HBase

HBase Tables

- HBase Concepts
- HBase Table Fundamentals
- Thinking About Table Design

HBase Shell

- Creating Tables with the HBase Shell
- Working with Tables
- Working with Table Data

HBase Architecture Fundamentals

- HBase Regions
- HBase Cluster Architecture
- HBase and HDFS Data Locality

HBase Schema Design

- General Design Considerations
- Application-Centric Design
- Designing HBase Row Keys
- Other HBase Table Features

Basic Data Access with the HBase API

- Options to Access HBase Data
- Creating and Deleting HBase Tables
- Retrieving Data with Get
- Retrieving Data with Scan
- Inserting and Updating Data
- Deleting Data

More Advanced HBase API Features

- Filtering Scans
- Best Practices
- HBase Coprocessors

HBase Write Path

- HBase Write Path
- Compaction
- Splits

HBase Read Path

- How HBase Reads Data
- Block Caches for Reading

HBase Performance Tuning

- Column Family Considerations
- Schema Design Considerations
- Configuring for Caching

- Memory Considerations
- Dealing with Time Series and Sequential Data
- Pre-Splitting Regions

HBase Administration and Cluster Management

- HBase Daemons
- ZooKeeper Considerations
- HBase High Availability
- Using the HBase Balancer
- Fixing Tables with hbck
- HBase Security

HBase Replication and Backup

- HBase Replication
- HBase Backup
- MapReduce and HBase Clusters

Using Hive and Impala with HBase

- How to Use Hive and Impala to Access HBase