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Course Content of Big Data Hadoop Administration:

Introduction to Big Data

- What is Big Data?
- Big Data Facts
- The Three V's of Big Data Understanding Hadoop
- What is Hadoop ?
- Why learn Hadoop ?
- Relational Databases Vs. Hadoop
- Motivation for Hadoop
- 6 Key Hadoop Data Types
 The Hadoop Distributed File system (HDFS)
- What is HDFS ?
- HDFS components
- Understanding Block storage
- The Name Node
- The Data Nodes
- Data Node Failures
- HDFS Commands
- HDFS File Permissions
 The MapReduce Framework
- Overview of MapReduce
- Understanding MapReduce
- The Map Phase
- The Reduce Phase
- WordCount in MapReduce
- Running MapReduce Job Planning Your Hadoop Cluster
- Single Node Cluster Configuration
- Multi-Node Cluster Configuration Cluster Maintenance
- Checking HDFS Status

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•	Breaking	j the	cluster
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- Copying Data Between Clusters
- Adding and Removing Cluster Nodes
- Rebalancing the cluster
- Name Node Metadata Backup
- Cluster Upgrading Installing and Managing Hadoop Ecosystem Projects
- Sqoop
- Flume
- Hive
- Pig
- HBase
- Oozie
 Managing and Scheduling Jobs
- Managing Jobs
- The FIFO Scheduler
- The Fair Schedule
- How to stop and start jobs running on the cluster Cluster Monitoring, Troubleshooting, and Optimizing
- General System conditions to Monitor
- Name Node and Job Tracker Web Uis
- View and Manage Hadoop's Log files
- Ganglia Monitoring Tool
- Common cluster issues and their resolutions
- Benchmark your cluster's performance Populating HDFS from External Sources
- How to use Sqoop to import data from RDBMSs to HDFS
- How to gather logs from multiple systems using Flume
- Features of Hive, Hbase and Pig
- How to populate HDFS from external Sources