

# Hadoop Administrator

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**Duration: 40 Hours**

## Prerequisites

- Candidate should have basic knowledge of Linux

## Course Content

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### 1. Hadoop Distributed File System & Installing Hadoop on Single Node

- Understanding Bigdata
- HDFS Architecture
- HDFS internals and use cases
- HDFS Daemons
- Files and Blocks
- Name Node Memory Concerns
- Secondary Name Node
- HDFS Access Options
- Installing and Configuring Hadoop 2.0
- Hadoop Daemons
- Basic Hadoop Commands

### 2. Hadoop Cluster Administrator: Roles and Responsibilities

- Hands-on Exercise
- Cloud Computing Overview and Installing Hadoop on Multiple Nodes
- Cloud Computing Overview
- SaaS/PaaS/IaaS
- Characteristics of Cloud Computing
- Cluster Configurations
- Configuring Masters and Slaves
- Introduction to HBase, Zookeeper & Sqoop
- Overview of Zookeeper
- Job Scheduling
- Sqoop Overview and Installation
- Importing and Exporting Data in Sqoop
- Hands-on Exercise

### 3. Advanced Administration Concepts

- Hadoop Hardware Monitoring and Failures
  - Software Monitoring and Failures
  - Hadoop Cluster Monitoring
  - Adding and Removing Servers and Upgrading Hadoop
  - Backup, Recovery, and Business Continuity Planning
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- Cluster Configuration Tweaks
  - Hardware Maintenance Schedule
  - Oozie Scheduling for Administrators
  - The Future of Hadoop
  - Cloudera Installation
  - Cloudera Administration
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