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The Hadoop Administration course equips the delegates with proficiency in all the steps required to manage a Hadoop cluster and successfully work as a Hadoop Administrator. In the entire Hadoop ecosystem, hadoop clusters are administered and managed by a Hadoop Administrator. For safely as well as securely running the hadoop clusters of the company, a hadoop admin is responsible. During the course, the delegates will learn how to operate and sustain a Hadoop Cluster, how to manage Hadoop Cluster, how to load data and run applications and how to maintain, monitor and troubleshoot a Hadoop Cluster. The course enables the delegates to install, configure and monitor large complex Hadoop clusters and implement security using Kerberos and Hadoop yarn features. Become a Big Data Administrator by mastering the fundamentals of Hadoop, Hadoop Clusters, HDFS, MapReduce and HBase. The course is aimed at professionals who are accountable for maintaining and managing Hadoop clusters. The professionals include Software engineers, System Administrators and Linux admins.

The Hadoop Administration course provides the essential knowledge and skills required to plan and deploy a Hadoop Cluster which includes Planning, Administration and Configuration. The Silicon Beach Training's Hadoop Administration certification prepares the delegates for the real-world challenges faced by Hadoop Administrators and also provide the guidance from an industry level expert. The job responsibilities of Hadoop Administrator include:

- Keep track of Hadoop clusters' day-to-day running
- Administer, plan and manage the overall infrastructure of hadoop
- Deploy new software and hardware environments required for Hadoop
- Ensure that the hadoop cluster is working all the time
- Backup and recovery tasks
- Troubleshooting application errors
- Review and manage Hadoop log files
- File system management and monitoring
- Monitor the cluster connectivity and performance

Prerequisites

The prerequisites of course includes:

- Basic Understanding of fundamentals of Java programming
- Knowledge on Linux Administration
- Knowledge on Hadoop
- Some Knowledge about Big Data Field

Course Objectives

- Understand Hadoop Architecture and its main components

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- Learn Hadoop installation and configuration
- Thorough understanding of Hadoop Distributed File System (HDFS)
- Understand MapReduce abstraction and its working
- Troubleshoot cluster issues and recover from Node failures
- Learn about Hive, Pig, Ooozie, Sqoop and Flume
- Optimise Hadoop cluster for high performance

- Basics of Hadoop
- Introduction to the Hadoop Ecosystem
- Startup and Admin Commands
- Commissioning Nodes
- Decommissioning Nodes
- Configuring a Hadoop Cluster
- Maintaining Cluster
- Monitoring Cluster
- Troubleshooting Clusters
- Handling Corrupt and Missing Blocks

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