

Big Data Hadoop Administration

Course Duration: 2 Months

1. Big Data Overview

- **What is big data**
- **Discussion over Databases**
- **Databases v/s Hadoop**
- **Problems with Large scale data**

2. Overview of Apache Hadoop

- **Why Hadoop**
- **Apache Hadoop Architecture**
- **Apache Hadoop workflow**
- **Apache hadoop Component**

3. Installation of Apache Hadoop

- **Basic Prerequisites for Hadoop**
- **Apache Hadoop Standalone Installation**
- **Apache Hadoop Management**

4. Hadoop Distributed File System (HDFS)

- **Understanding HDFS Architecture**
- **Understanding HDFS Management and Core Component**
- **HDFS Snapshot and Management**
- **Understanding FSImage and edit logs management**

5. Hadoop Component Management and Understanding

- **Understanding Apache Hadoop Namenode**
- **Understanding Apache Hadoop Datanode**
- **Understanding Apache Secondary NameNode**
- **Apache Hadoop Backup & Management**

6. Hadoop Cluster Installation and Management

- **Hadoop multi Node Cluster setup**
- **Hadoop Cluster Management**
- **Include and Exclude Data node in cluster**

7. Hadoop Yarn Architecture & Management

- **Yarn service Introduction & Architecture**
- **Yarn Resource manager & Node Manager**
- **Yarn Scheduling and Management**

8. Apache Hadoop Administration

- **Managing Hadoop Cli**
- **Managing Hadoop Web**
- **Managing Failover & Nodes**

9. Apache Hive Management

- **Hive Architecture and Hadoop**
- **Hive Installation and management**
- **Data manipulation with Hive**

10. Apache Pig Management

- **Pig Architecture**
- **Pig Installation and management**

- **Pig Latin script for Data Manipulation**

11. Eco system process over Hadoop

- **Configure and Management of Sqoop**
- **Application Management using Flume**
- **Configure Management of HBASE**

12. High Availability over Hadoop

- **Deployment Namenode on HA using Zookeeper**
- **Namenode as a standby and active**

13. Overview of other tools and Related System

- **Cloudera manager**
- **Apache Strom**
- **Ambari**



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