

Big Data Training

Powered By Hadoop

Course Overview

Master all aspects of Big Data & Analytics with our Big Data Training powered by Hadoop. Learn the skills you need to gain an in-depth understanding of Big Data & Analytics with our hands-on training & expert trainers.

Why WINPROTECH

- Talented Educators, with years of experience in specific domains
- Small classes of no more than 6 students per class create an optimal learning environment
- Balanced holistic curriculum which includes best techniques, Real Time case studies and Tools Exposure
- Winprotech is known for best post training support such as project support and placement assistance

Course Objectives

After the completion of the Big Data and Hadoop Course, you should be able to:

- Master the concepts of Hadoop Distributed File System and MapReduce framework
- Setup a Hadoop Cluster
- Perform Data Analytics using Pig and Hive
- Implement HBase, MapReduce Integration, Advanced Usage and Advanced Indexing
- Have a good understanding of ZooKeeper service
- Implement best Practices for Hadoop
- Implement a Hadoop Project

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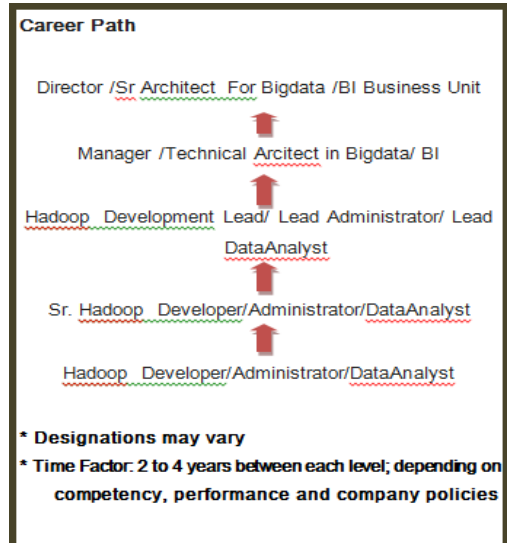
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Course Pre-requisite

- The participants should have the basic knowledge of Linux/Windows system as the training may require them to do some basic operations.
- Understanding of any of the Relational Databases and java will be an added advantage.
- Windows/Linux Laptop, minimum with the following configuration: 8GB RAM 200GB Space and 1.4 GHz CPU.

1) Overview

- Overview and Goals of the Course
- Goals of the Course
- Your instructor
- Class Logistics
- Discussions and Exercises

2) Introduction to Big Data and Hadoop

- Objectives
- Data Explosion and Types of Data
- Need for Big Data
- Big Data and its sources
- Characteristics of Big Data
- Introduction to Hadoop and Organizations using Hadoop

3) Getting Started with Hadoop

- Objectives
- VMWare Player – Introduction
- VMWare Player – Hardware requirements
- Virtual Box

4) Hadoop Architecture

- Hadoop Configuration
- Hadoop Core services
- Hadoop Core Components – HDFS
- Hadoop Core Components – Map Reduce
- HDFS – Characteristics
- HDFS – Key Features

5) Hadoop Deployment

- Ubuntu Server – Introduction
- Installation of Ubuntu Server
- Business Scenario
- Hadoop Installation – Prerequisites

6) Advanced HDFS and MapReduce

- Advanced HDFS – Introduction
- HDFS Benchmarking
- Settings up HDFS Block Size
- Business Scenario – Demo

7) Pig

- Objectives
- Challenges of Map reduce development Using Java
- Introduction and Components of Pig
- Pig Vs SQL and Installing Pig Engine
- Pig Commands – Demo

8) Hive

- Objectives
- Hive – Introduction and Characteristics
- Metastore
- Hive query language
- Demo

9) Hbase

- Objectives
- HBase – Introduction and
- Hbase Characteristics
- Metastore
- Demo

10) Zookeeper , Sqoop and Flume

- Introduction to ZooKeeper
- Goals of ZooKeeper
- Challenges faced in distributed applications
- Why Sqoop
- Benefits of Sqoop
- Importing Data using Sqoop
- Apache Flume – Introduction
- Flume Goals and Scalability in Flume
- Flume – Sample Use case

11) Ecosystem and its components

- Apache Oozie and Workflow
- Introduction to Mahout
- Why Mahout , Features of Mahout
- Apache Cassandra
- Apache Spark

**Make the right move!
Join today!**

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