

Dear Student,

Based upon your enquiry we are pleased to send you the course curriculum for Hadoop Development and Admin

Hadoop Prerequisites

- Core Java
- SQL Knowledge
- Basic Unix Command

Note: - If you don't have knowledge of above topics then we provide complementary training for these topics.

Hadoop Development and Admin Course Content

Big Data and Hadoop

- Introduction of Big Data
- Example of Big Data
- Introduction of Hadoop
- Advantage and Disadvantage of Hadoop

Hadoop Component

- Hadoop Architecture
- Hadoop 2.X Component
- HDFS
- MapReduce
- Concept of NameNode(Master Node), Data Node(Slave Node) and Secondary Node
- Single Node Cluster and Multi Node Cluster
- Concept of Task Tracker and Job Tracker
- Read and Write data on HDFS
- Hadoop Shell Commands

Installation of Hadoop and Cluster Configuration

- Linux installation
- Linux Commands

- Hadoop Installation
- Hadoop Cluster Configuration File

Data Loading using Commands, SQOOP and Flume

- Hadoop Commands to Load Data
- Installation of SQOOP
- Sqoop Architecture
- Data Loading in Hadoop using SQOOP
- Import and Export using SQOOP
- What is Flume
- Flume Installation
- Data Loading using Flume

MapReduce & Yarn

- Introduction of MapReduce
- MapReduce Data types and their use
- MapReduce Program writing and execution using Java
- Mapper class, Reducer class and Driver code
- Input Format and Output format
- Distributed Cache in MapReduce
- Splits and blocks
- Combiner and Practitioner
- Counters
- Junit and MRUnit Testing Tools
- Yarn Component
- Yarn Architecture
- Why we use Yarn

Hive and HiveQL

- Introduction of Hive and HiveQL
- Hive Architecture & Components
- Difference between Hive and RDBMS
- Hive Installation
- Commands creation and execution using HiveQL
- Joins
- Hive DDL, DML and SQL
- UDF and UDAF

Hbase and NoSQL

- Hbase introduction and Architecture
- Hbase Installation
- Hbase DataModel and Master
- Introduction of NoSQL Database
- Difference between NoSQL and RDBMS
- Commands using NoSQL
- Key Values Concept in NoSQL

Pig & PigLatin

- Introduction of Pig and PigLatin
- Pig Installation
- Pig Latin scripts writing and Execution
- Pig Latin Data Types
- UDF

Apache Spark

- Introduction of Spark
- Spark component and Ecosystem
- Spark Context and RDD
- SparkSQL

Hadoop Admin Task

- How to upgrade Hadoop
- Dfsadmin and Mradmin
- Block Scanner
- Back and Recovery of Name Node and Data Node
- Monitoring of Cluster

Zookeeper and Yarn

- Introduction of Zookeeper
- Installation of Zookeeper
- Zookeeper use cases
- Hadoop 1.0 and Map Reduce Limitations
- Introduction of Yarn and its Architecture
- Difference between classic and yarn
- Capacity scheduler

Trainer Profile (Ratnesh Gupta)

- MCA Qualified and 10+ Years' Experience as Oracle DBA and Developer
- Expertise in Unix/Linux and Shell Scripting
- Working in MNC
- Expertise in Programming Language
- Involved in Corporate Training from last 6 Years.

Course Duration	40 Hours
Fees	Call 9015041412

Available Discounts

(Any two discounts are applicable for single student)

- Flat 10% Discount if joining on the same day of demo or enquiry.
- Flat 10% Discount for onetime payment
- Special discount for group joining (minimum 5 students)
- Got someone's reference??, get flat ₹ 500 Discount. .
- Flat 1000/- Discount for our old students.

Counselling