

BIG DATA HADOOP Syllabus (Associate)

Duration: 40 Hours

CONTENT

INTRODUCTION OF BIG DATA:-

- Basics of Big data
- Big Data generation
- Big Data Introduction
- Big Data Architecture
- Understand Bigdata Problem
- Big data Management Approach
- Traditional and Current Data storing approach
- Understand various data formats and data units
- Big data With Industry Requirements
- Big Data Challenges
- Big Data Complexity
- Big Data Storage
- Big Data performance optimization

HADOOP ENVIRONMENT:-

- Understand Hadoop Environment
- Requirement of Hadoop
- Importance of Data Analytics
- Setting up HadoopEnvironment
- Hadoop advantages over RDMS
- Understanding RDBMS Approach

HADOOP CLUSTER & FILE SYSTEM:-

- Explaining Various file systems
- Hdfs GFS, POSIX, GPFS
- explain clusteringmethodology
- Advantages of IBM BIGINSIGHTS over other tools
- IBM BIGINSIGHTS Approach
- RACK Awareness

- Understanding Name Node System
- Working Methodology of Data Node
- Understand Demon process
- Master Nodes and slave nodes

HADOOP FILE SYSTEM(HDFS) & HADOOP ARCHITECTURE

- Working on hdfs File System
- Accessing Hadoop File System
- Hadoop file system Architecture
- Creating lib and accessing lib from HDFS
- hadoop commands make dir,deletediretc
- working with web console

HADOOP MAPREDUCE:-

- Introduction of Map Reduce
- mapreduce programming and word count
- mapreduce nodes job tracker and task tracker
- running Mapreduce program through web console
- Mapreduce Programing approach

HADOOP FLUME :-

- Introduction of FLUME Approach
- Understand information stream
- Understand Information ocean
- Working with FLUME Language

HADOOP HIVE:-

- Understand Data Ware Housing
- Requirement of Data Ware housing
- Data Ware housing with Hive
- Understand Hive environment
- working with Hive Query Language
- Perform DDL approach Through Hive
- Perform DML approach through Hive

HADOOP PIG:-

- Introduction of PIG
- Requirement of Pig
- Working with pig Script
- Running and managing Pig Script
- Perform Streaming Data Analytics through PIG
- Pig Advantages and Disadvantages