Hadoop Developer



Introduction to Hadoop

- 1. RDBMS Vs Hadoop
- 2. Difference in between Mysql and Hadoop
- 3. Why Hadoop is better that Mysal??
- 4. 5 V's of big data

Introduction to Java

- 1. Basics of Java required for Hadoop
- 2. OOPS Class, Object and Interface
- 3. Inheritance and types of inheritance
- 4. Method overriding and overloading
- 5. Exception Handling

Introduction to SQL

- 1. Basics of Sql required for Hadoop
- 2. DML, DDL statements

Introduction to HDFS (Storage) & Understanding cluster environment

- 1. NameNode and DataNodes
- 2. HDFS has a master/slave architecture
- 3. Overview of Hadoop Daemons
- 4. Hadoop FS and Processing Environment's UIs
- 5. Block Replication
- 6. How to read and write files
- 7. Hadoop FS shell commands
- 8. MR1.x vs 2.x



Understanding Map-Reduce Basics

- 1. The introduction of MapReduce.
- 2. MapReduce Architecture
- 3. Data flow in MapReduce
- 4. How MapReduce Works
- 5. Writing and Executing the Basic MapReduce Program using Java

TOOLS

A. SQOOP:

Sqoop architecture
Sqoop commands
Sqoop practical implementation
Importing data to HDFS
Importing data to Hive
Exporting data to RDBMS
Sqoop show tables, databases, eval
Sqoop jobs

B. HIVE:

Hive Architecture
Hive Query Language (HQL)
Managed and External Tables
Partitioning & Bucketing
UDF in hive
Working with different file formats
JDBC, ODBC connection to Hive
Hands on Multiple Real Time datasets.



C. PIG:

Pig Latin (Scripting language for Pig) Schema and Schema-less data in Pig Structured, Semi-Structure data processing in Pig **Built-in functions UDF** in pig

D. HBASE:

Introduction to HBASE **Basic Configurations of HBASE Fundamentals of HBase** What is NoSQL? **HBase Data Model** Table and Row Column Family and Column Qualifier Cell and its Versioning Get commands Scan -Put commands Namespace and drop tables Hive table with hbase data

E. Oozie

Introduction to Oozie Designing workflow jobs Job scheduling using Oozie Time based job scheduling **Oozie Conf files**

F. Apache Flume:

Introduction to flume Source, Sink and Channel Fetching twitter data

G. Introduction to Spark: Overview of Spark, Scala and its features

