

Hadoop Technology

The Motivation & Limitation for Hadoop

1. Problems with Traditional Large-Scale Systems
2. Why Hadoop & Hadoop Fundamental Concepts
3. History of Hadoop with Hadoopable problems
4. Motivation & Limitation of Hadoop
5. Available version Hadoop 1.x & 2.x
6. Available Distributions of Hadoop (Cloudera, Hortonworks)
7. Hadoop Projects & Components
8. The Hadoop Distributed File System (HDFS)



Hadoop Ecosystem & Cluster

Hadoop Ecosystem projects & Components overview

- HDFS – File System
- HBase – The Hadoop Database
- Hive – SQL Engine

Hadoop Architecture overview

YARN Responsibilities

Cluster Daemons & Its Functions

- Name Node
- Secondary Node
- Data Nodes

MapReduce Architecture

- Core components of Hadoop
- Understanding Hadoop Master-Slave Architecture
- Learn about NameNode, DataNode, Secondary Node
- Understanding HDFS Architecture
- Anatomy of Read and Write data on HDFS
- MapReduce Architecture Flow
- JobTracker and TaskTracker



Apache Pig

- PIG vs MapReduce
- PIG Architecture & Data types
- PIG Latin Relational Operators
- PIG Latin Join and CoGroup
- PIG Latin Group and Union
- Describe, Explain, Illustrate
- PIG Latin: File Loaders & UDF

Apache Hive and HiveQL

- What is Hive
- Hive Architecture & Components
- Hive DDL - Create/Show Database
- Hive DDL - Create/Show/Drop Tables
- Hive DML - Load Files & Insert Data
- Hive SQL - Select, Filter, Join, Group By

Flume & Sqoop

- Installation of Flume & Sqoop
- Ingesting Data from External Sources with Flume
- Ingesting Data from Relational Databases with Sqoop
- Best Practices for Importing and Exporting Data from RDMS to HDFS.



Conclusion & FAQs

Note:

- Every Topic has practical session
- Hadoop uses different components which discussed in required sessions
 1. Hue
 2. Cloudera Manager

Project:

Demo of Sample project.



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