

Hadoop Online Training Course Content

Faculty: Real time and certified

(Includes theoretical as well as practical sessions)

1.Introduction

What is Hadoop?

History of Hadoop

Building Blocks – Hadoop Eco-System

Hadoop Fundamentals

2. HDFS

Configuring HDFS

Interacting With HDFS

HDFS Permissions and Security

Additional HDFS Tasks

HDFS Overview and Architecture

HDFS Installation

Hadoop File System Shell

File System Java API

3. MAP REDUCE

Map/Reduce Overview and Architecture

Installation

Developing Map/Red Jobs

Input and Output Formats

Job Configuration

Job Submission

Practicing Map Reduce Programs (atleast 10 Map Reduce Algorithms)

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4. Getting Started With Eclipse IDE
Configuring Hadoop API on Eclipse IDE
Connecting Eclipse IDE to HDFS

5. Hadoop Streaming

6. Advanced MapReduce Features

Custom Data Types
Input Formats
Output Formats
Partitioning Data
Reporting Custom Metrics
Distributing Auxiliary Job Data

7. Distributing Debug Scripts

8. Using Yahoo Web Services

9. Pig
Pig Overview
Installation
Pig Latin
Pig with HDFS

10. Hive
Hive Overview
Installation
Hive QL
Hive Unstructured Data Analyzation
Hive Semistructured Data Analyzation

11. HBase
HBase Overview and Architecture
HBase Installation
HBase Shell

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CRUD operations
Scanning and Batching
Filters
HBase Key Design

12.ZooKeeper
Zoo Keeper Overview
Installation
Server Maintenance

13.Sqoop
Sqoop Overview
Installation
Imports and Exports

14.CONFIGURATION
Basic Setup
Important Directories
Selecting Machines
Cluster Configurations
Small Clusters: 2-10 Nodes
Medium Clusters: 10-40 Nodes
Large Clusters: Multiple Racks

15.Integrations

16.Mini Project/ POC (Proof of concept)