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Learning Style: On Demand

Technology:

Difficulty: Intermediate

Course Duration: 5 Hours

Hadoop Intermediate

About this course:

Hadoop Intermediate training course is designed to give you in-depth knowledge about the Hadoop framework discussed in our Hadoop and MapReduce Fundamentals course. The course covers the concepts to process and analyze large sets of data stored in HDFS. It teaches Sqoop and Flume for data

ingestion.

Course Objective:

- Get a basic understanding of the different components of Hadoop ecosystem
- Understand and work with Hadoop Distributed File System (HDFS)
- Ingest data using Sqoop and Flume
- Use HBase, understand its architecture and data storage
- Get essential knowledge of Pig and its components
- Master resilient distribution datasets (RDD) in detail
- Understand the common use cases of Spark and various interactive algorithms

Audience:

- Hadoop is becoming an essential tool in the ever-growing Big-Data architecture. This training is designed to benefit:
- Software developers and architects working in Big-Data organizations
- Business and technical analytics professionals
- Senior IT professionals
- Data management professionals
- Project managers
- Data scientists

Prerequisite:

- There are no formal prerequisites for learning this course.
- However, the candidates are strongly advised to opt for Hadoop: Fundamentals course before undertaking this course.
- In addition to this, functional knowledge of Core Java and SQL will be beneficial.

Course Outline:

Chapter 01 - YARN

- **Topic A: YARN Basics** - Part 1
- YARN Basics - Part 2
- YARN Basics - Part 3
- **Topic B: YARN Services** - Part 1
- YARN Services - Part 2
- YARN Services - Part 3
- **Topic C: Tez and Spark** - Part 1
- Tez and Spark - Part 2
- Tez and Spark - Part 3
- **Topic D: The Spark Shell** - Part 1
- The Spark Shell - Part 2
- The Spark Shell - Part 3

- **Topic E: Flume, Linux, and Nifi** - Part 1
- Flume, Linux, and Nifi - Part 2
- Flume, Linux, and Nifi - Part 3

Chapter 02 - Nifi

- **Topic A: Installing Nifi** - Part 1
- Installing Nifi - Part 2
- Installing Nifi - Part 3
- **Topic B: Nifi Components** - Part 1
- Nifi Components - Part 2
- Nifi Components - Part 3
- **Topic C: Nifi Workflow** - Part 1
- Nifi Workflow - Part 2
- Nifi Workflow - Part 3
- **Topic D: Configuring Nifi Workflow** - Part 1
- Configuring Nifi Workflow - Part 2
- Configuring Nifi Workflow - Part 3

Chapter 03 - MapReduce and Hbase

- **Topic A: MapReduce Combiner** - Part 1
- MapReduce Combiner - Part 2
- MapReduce Combiner - Part 3
- **Topic B: MapReduce Combiner Demo** - Part 1
- MapReduce Combiner Demo - Part 2
- MapReduce Combiner Demo - Part 3
- **Topic C: HBase Basics** - Part 1
- HBase Basics - Part 2
- HBase Basics - Part 3
- **Topic D: HBase Shell Intro** - Part 1
- HBase Shell Intro - Part 2
- HBase Shell Intro - Part 3
- **Topic E: HBase Lifecycle Architecture** - Part 1
- HBase Lifecycle Architecture - Part 2
- HBase Lifecycle Architecture - Part 3
- **Topic F: HBase Lifecycle Services** - Part 1
- Hbase Lifecycle Services - Part 2
- Hbase Lifecycle Services - Part 3

Chapter 04 - Creating an HBase App

- **Topic A: Creating an HBase App** - Part 1
- Creating an HBase App - Part 2
- Creating an HBase App - Part 3
- **Topic B: Creating an HBase App Demo** - Part 1
- Creating an HBase App Demo - Part 2
- Creating an HBase App Demo - Part 3

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