

# **Hadoop Intermediate**

**Modality: On Demand**

**Duration: 5 Hours**

## ***About this course:***

The course teaches on the topic of Hadoop framework. This Hadoop Intermediate course aims to convey to you a deeper understanding of the Hadoop framework, as discussed in the Hadoop and MapReduce Fundamentals course. The course will teach about the different concepts to process and analyze large amounts of data kept in HDFS. The course will teach you Sqoop and Flume for data ingestion.

## ***Learning Objectives:***

The course has the following learning objectives:

- Gaining a fundamental comprehension of the various components of Hadoop ecosystem
- Gaining understanding and attaining the skills to operate Hadoop Distributed File System (HDFS)
- Ingesting data through the usage of Sqoop and Flume
- Using HBase, and gaining understanding of its structure and data storage
- Gaining important knowledge of Pig and its features
- Gaining expertise in resilient distribution datasets (RDD) in detail
- Gaining understanding of the general use of cases of Spark and several other interactive algorithms

## ***Audience:***

The Hadoop program is gaining large amount of importance as a tool within the growth of Big-Data structure. This training has been designed for many groups that include:

- Software developers and architects working in Big-Data organizations
- Business and technical analytics professionals
- Senior IT professionals
- Data management professionals
- Project managers
- Data scientists

## ***Requirements:***

Although there are no mandatory requirements for this course, but it will be helpful if the learners have completed the Hadoop: Fundamentals course before opting for this course. Furthermore, sufficient amount of knowledge of Core Java and SQL we be highly beneficial as well.

## 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