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Learning Style: On Demand

Technology:

Difficulty: Beginner

Course Duration: 3 Hours

## Hadoop Fundamentals



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

This course teaches about the Hadoop basic concepts. This Hadoop Fundamentals course is a perfect choice for those who want to gain the understanding of concepts like Big Data and Hadoop from the scratch. The course does not cover advanced level concepts though. However, by the end of this course, students will have an

understanding of what goes behind the processing of huge volumes of data as the industry shifts from the excel-based analytics to real-time analytics.

Along with covering the basics of the program, the course will also give a general understanding of the commercial distributions of Hadoop alongside the features of the Hadoop ecosystem.

### ***Learning objectives:***

The course has the following learning objectives:

- Gaining understanding of the features and components of Big Data
- Explaining the fundamental concepts of Hadoop and HDFS structure
- Enlisting the components and working of MapReduce
- Getting knowledge of the fundamental concepts of Pig, Hive and HBase
- Gaining a general insight on the commercial distributions of Hadoop
- Gaining comprehension of the important features of the Hadoop ecosystem
- Getting introduction of Sqoop & ZooKeeper

### ***Audience:***

This course, Hadoop Fundamentals is intended for those experienced professionals who want to know the basics of Big Data and Hadoop. The course is extremely useful for those professionals who are on senior position in management and want to gain a theoretical comprehension of the way in which Hadoop can resolve their Big Data problem.

### ***Requirements:***

None.

## **Course Outline:**

### **Chapter 01 - Hadoop Architecture**

#### **Topic A: Prerequisites - Part 1**

- Prerequisites - Part 2
- Prerequisites - Part 3

#### **Topic B: Introduction - Part 1**

- Introduction - Part 2
- Introduction - Part 3

#### **Topic C: History - Part 1**

- History - Part 2
- History - Part 3

## **Topic D: Architecture - Part 1**

- Architecture - Part 2
- Architecture - Part 3

## **Topic E: Ecosystems - Part 1**

- Ecosystems - Part 2
- Ecosystems - Part 3

## **Topic F: Data Delivery in Hadoop - Part 1**

- Data Delivery in Hadoop - Part 2
- Data Delivery in Hadoop - Part 3

## **Topic G: HDFS Basics - Part 1**

- HDFS Basics - Part 2
- HDFS Basics - Part 3

## **Chapter 2 - ETL and MapReduce**

### **Topic A: Big Data Sources And ETL - Part 1**

- Big Data Sources And ETL - Part 2
- Big Data Sources And ETL - Part 3

### **Topic B: ETL Demonstration - Part 1**

- ETL Demonstration - Part 2
- ETL Demonstration - Part 3

### **Topic C: Understanding MapReduce - Part 1**

- Understanding MapReduce - Part 2
- Understanding MapReduce - Part 3

### **Topic D: MapReduce Demonstration - Part 1**

- MapReduce Demonstration - Part 2
- MapReduce Demonstration - Part 3

### **Topic E: Developing MapReduce - Part 1**

- Developing MapReduce - Part 2
- Developing MapReduce - Part 3

### **Topic F: Schedule MapReduce - Part 1**

- Schedule MapReduce - Part 2

- Schedule MapReduce - Part 3