

## Description

This 4 day training course is designed for developers who need to create applications to analyze Big Data stored in Apache Hadoop using Pig and Hive. Topics include: Hadoop, YARN, HDFS, MapReduce, data ingestion, workflow definition, using Pig and Hive to perform data analytics on Big Data and an introduction to Spark Core and Spark SQL

### Delegates will learn

- Hadoop Distributed File System
- Apache Pig
- Apache Hive
- Spark Core, Spark SQL and Oozie

### Audience

Software developers who need to understand and develop applications for Hadoop.

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## Outline

### An Introduction to the Hadoop Distributed File System

- Understanding Hadoop
- The Hadoop Distributed File System
- Ingesting Data into HDFS
- The MapReduce Framework

# Apache Pig and Hive

## **An Introduction to Apache Pig**

- Introduction to Apache Pig
- Advanced Apache Pig Programming

## **An Introduction to Apache Hive**

- Apache Hive Programming
- Using HCatalog
- Advanced Apache Hive Programming

## **Working with Spark Core, Spark SQL and Oozie**

- Advanced Apache Hive Programming (Continued)
- Hadoop 2 and YARN
- Introduction to Spark Core and Spark SQL
- Defining Workflow with Oozie

## **Prerequisites**

Students should be familiar with programming principles and have experience in software development. SQL knowledge is also helpful. No prior Hadoop knowledge is required.