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The Talend for Data Integration and Big data training helps the delegates to understand how to use Talend Open Studio to simplify Big Data Integration. With the help of the Talend training, the delegates will understand how to use the Talend Open Studio. Talend Open Studio is a open source ETL tool using which the delegates can easily integrate all data with their Applications and Data Warehouse or synchronise data between systems. Throughout the Talend training, the delegates also understand how to use Talend ETL tool on the real-life case studies with Pig, Hive and HDFS.

Talend integration tool helps the delegates to connect Hadoop with data systems without the need to write code. The delegates will also learn about the advanced concepts such as Data Integration, Data Modeling and concept of propagation. At the end of the Talend for Data Integration and Big data training, the delegates will be able to work with Apache Spark, Apache Hadoop, Apache Hive, NoSQL Databases and Apache Pig by using Talend.

Prerequisites

There are no prerequisites for attending the Talend for Data Integration and Big data, training. However, having knowledge of Data Warehousing will be beneficial for the delegates.

Course Objectives

After the completion of Talend for Data Integration and Big data training at Silicon Beach Training, the delegates will be able:

- To understand the concepts of ETL
- To solve the real-time business issues with the help of Talend
- Understand Talend Architecture and its various Components
- Interact with several types of the source or target platform such as Flat Files (CSV, Fixed width), XML, Excel and work with Databases
- Understand the implementation of the real-time scenarios for File & Error Handling, Data Transformation, Automation/Parameterization and Scheduling Talend jobs
- Understand about the Big Data and Hadoop concepts
- Know the benefits of integrating Talend with Hadoop

Introduction to Data Integration

Introduction to Talend Big Data Solutions

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- Creating a Project
- Importing a Project
- Opening a Project
- Deleting a Project
- Exporting a Project

Designing a Business Model

- Introduction to Business Model
- Creating a Business Model
- Modeling a Business Model
- Editing and Saving a Business Model

Hive in Talend

Designing a Job

Managing Jobs

- Activating/Deactivating a Subjob
- Importing/Exporting Items and Building Jobs
- Managing Repository Items
- Documenting a Job
- Handling Job Execution

Handling Jobs

Mapping Data Flows

- Map Editor Interfaces
- tMap Operation
- tXMLMap Operation

Mapping Big Data Flows

- tPigMap Interface
- tPigMap Operation

Managing Metadata for Data Integration

Managing Metadata for Talend Big Data

- Managing NoSQL Metadata
- Managing Hadoop Metadata

Managing Routines

Using SQL Templates

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- Introduction to ELT
- Overview of Talend SQL Templates
- Managing Talend SQL Templates

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