Updated 03/17/2025

Sign up

Talend Cloud Data Integration training
3 days (21 hours)

Presentation

Talend is the leading commercial provider of open source data integration software.

Talend is open data integration platform. It provides a variety of software and services for data integration, data management, enterprise application integration, data quality, cloud storage and Big Data.

Our Talend Cloud Data Integration training course will enable you not only to master the Talend tool and ETL concepts, but also to create data flows and manage errors. By the end of this course, you will have acquired Talend's best development practices.

Like all our training courses, this one will introduce you to the latest stable release and its new features: Talend 8.

Objectives

- Understand the principles of ETL and how Talend works
- Be able to create ETL data flows, from the simplest to the most advanced
- Automate processing and manage errors effectively
- Manage errors effectively
- Learn Talend development best practices

Target audience

- Beginners in data analysis
- Data analysts
- ETL developers

Prerequisites

- Basic knowledge of SQL
- Basic knowledge of data manipulation

Talend Cloud Data Integration training program

Introduction to data integration and ETL concepts

- Definition of data integration
- Typical ETL use cases
- Key benefits of data integration

Getting started with Talend Studio

- Project and Job creation
- Adding, linking and configuring components
- Job execution and results display
- Recommendations and best practices
- Generating and consulting documentation

File management

- Importing data from a delimited file
- Creating and configuring schematics
- Reading and parsing XML (XPath) and JSON files (JSONPath)

Database connection

- Connecting to a database from Talend
- Reading and writing to a table in Base
- Customizing queries with SQL Builder
- Sharing and closing connections in Jobs

Using Repository metadata

- Differentiation between Built-in and Repository properties
- Metadata management: files, databases, generic schemas
- Update and propagate changes

Data processing and transformation

- Data mapping with the tMap component

- Joints and reject management
- Data filtering and sorting
- Expressions and variables in the mapping editor
- Aggregation and other advanced treatments

Context and variable management

- Creating and using context variables
- Running jobs with context variables
- Connection to databases via context variables
- Built-in and Repository context variable management

Execution control and optimization

- Manage files in a directory (list, archive, delete)
- Iterations and variable reuse
- Using Triggers to link sub-Jobs
- Creating and exporting a master job

Building and deploying Talend Jobs

- Generating a standalone Job
- Running a Job outside Talend Studio
- Job version management

Error management and logs

- Automatic shutdown in case of error
- Log configuration and warning management
- Conditional execution on error

Using Web services

- Accessing an API via a Talend component
- Extraction and processing of Web service responses

Case study - Implementing an ETL project

- Apply the concepts learned through a complete project

Further information

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.