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Sign up

Informatica training

2 days (14 hours)

Presentation

Combine your source and target data with our Informatica training, which links multiple connectors that recognize metadata, making complex integrations easier execute.

Informatica offers a [complete suite of tools](#) for data management, including data integration, data quality, metadata management and data control.

The platform is scalable and flexible, adapted to the needs of small and large companies alike, making it easy to adapt to technological and business changes.

You can use this tool for a wide range of sectors, including healthcare, finance, retail and , as well as for projects such as data migration, integration of data from multiple applications, and customer data quality management.

As with all our training courses, we'll be using the latest stable version of the program and the latest resources: [Informatica 10.5](#).

Objectives

- Understanding basic concepts and ETL/ELT models
- Manage and feed data warehouses and data lakes
- Integrate multi-cloud data and manage APIs in workflows
- Configure and use cloud connectors for various data sources

Target audience

- IT professionals

- Data engineers
- Data analysts
- Architects

Prerequisites

- Fundamentals of databases
- Basic knowledge of SQL
- Understanding ETL/ELT concepts

INFORMATICA TRAINING PROGRAM

Introduction to cloud data integration with Informatica

- Introducing the Informatica Intelligent Cloud Services (IICS) platform
- Understanding ETL vs ELT models: definitions, differences, uses
- Why choose Informatica Cloud? Advantages, market positioning
- Typical use cases (SaaS integration, data migration, synchronization, etc.)
- Overview of the IICS interface and main modules :
 - Data Integration
 - Monitor
 - Administrator
- Reduce costs and operating expenses with the cloud

Informatica Cloud architecture and components

- IICS architecture: cloud, agents, services
- Main components :
 - Secure Agent: role, installation, configuration
 - Mapping Designer
 - Services: Data Integration Service, Administrator, Monitor
- Common terminology (mappings, tasks, connections, transformations, etc.)

Connector configuration and data source integration

- Catalog of available connectors (SaaS, databases, files, APIs, etc.)
- Creating reusable connections :
 - Flat File
 - Relational source (e.g. Oracle, SQL Server)
- Best practices in data extraction
- Handling connection errors and synchronization problems
- Execute simple flows for validation

Mapping and integration tasks

- Mapping structure in IICS
- Creating Mapping Tasks and Synchronization Tasks
- Reuse of connections in different workflows
- Processing options :
- Aggregator, Filter, Router, Lookup, Union, Sorter, etc.
- Loading data into different targets (Data Warehouse, files, etc.)

Optimizing performance and reducing costs

- Use of the optimization engine (pushdown, partitioning, etc.)
- Reducing total cost of ownership (TCO) through automation
- Real-time task monitoring (success/failures, logs, performance)
- Best practices in designing high-performance workflows

Managing large volumes of data & target architecture

- Integration of massive data into Data Lakes / Data Warehouses
- Data replication techniques
- Data change capture (CDC) and incremental synchronization
- Pipeline design for a cloud warehouse
- Treatment monitoring, planning and supervision

Process analysis, visualization and monitoring

- Introduction to integrated data visualization tools
- Create reports to monitor data flows
- Monitor module for performance, errors and logs
- Monitoring the quality of processed data
- Updating, versioning and maintenance of mappings and workflows

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 with regard to 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.