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Informatica IDMC Advanced Training

2 days (14 hours)

Overview

Informatica IDMC (Intelligent Data Management Cloud) is a cloud platform dedicated to data integration, API management and process orchestration in hybrid and multi-cloud environments. By combining Cloud Data Integration (CDI) and Cloud Application Integration (CAI), it enables you to build robust, automated workflows.

Our Informatica IDMC Advanced training covers advanced taskflows, parameterization & variables, API integration with CAI, CDI - CAI cross-calls, and external orchestration with Airflow.

You'll learn how to design hybrid scenarios combining data ingestion and service exposure, secure and govern your deployments, and optimize performance and costs.

At the end of this training course, you'll be able to industrialize your IDMC pipelines, expose CAI services integrated with your CDI processing, and orchestrate everything with Apache Airflow in a production context.

Like all our training courses, this one is based on the latest stable version of [Informatica IDMC](#), and takes a resolutely practical and operational approach.

Objectives

- Implement advanced taskflows.
- Master parameterization and variable management.
- Integrate and expose services with CAI.
- Make CDI - CAI cross-calls for hybrid scenarios.
- Consume sources via REST v2, JDBC and files.
- Orchestrate IDMC workflows with Airflow.
- Secure, supervise and optimize deployments.

Target audience

- Data Engineers
- Data Architects
- Data integration administrators / consultants

Prerequisites

- Basic knowledge of Informatica IDMC or Informatica CDI training.
- Notions of ETL/ELT.
- Knowledge of REST/SOAP APIs.
- Familiarity with cloud environments.

Informatica IDMC Advanced training program

[Day 1 - Morning]

Advanced Taskflows

- Differences between Linear Taskflow and Advanced Taskflow
- Managing dependencies, sequencing and parallelism
- Implementing robust error handling
- Optimizing and monitoring complex executions
- Best practices for orchestration, reuse and maintenance
- Practical workshop: Designing an advanced taskflow with dependencies and error handling.

[Day 1 - Afternoon]

Parameterization & Variables

- Mapping and taskflow parameters
- System variables and dynamic expressions
- Parameter transmission between IDMC objects (CDI/CAI)
- Multi-environment management (DEV/QA/PROD) and governance
- Securing sensitive parameters (secrets, RBAC)
- Practical workshop: Deploying a parameterized and promoted DEV - QA - PROD workflow.

Introduction to Cloud Application Integration (CAI)

- API concepts: REST vs. SOAP
- OpenAPI/Swagger standards and documentation
- API testing with Postman
- CAI concepts: processes, properties, services
- Exposing a first API process and testing it
- Practical workshop: Creating a CAI service exposing a simple REST API.

[Day 2 - Morning]

CDI - CAI cross-calls

- Calling a CDI mapping from a CAI process
- Calling a CAI service in a CDI workflow
- Designing hybrid flows combining data ingestion and API exposure
- Error and log management in a hybrid context
- Architecture patterns and orchestration best practices
- Practical workshop: Implementing a CDI - CAI scenario.

[Day 2 - Afternoon] Advanced

integration with CAI

- Interrogating external APIs via the REST v2 connector
- Data access via JDBC and flat files
- Designing CAI flows with conditions and loops
- Displaying an enriched business service
- Optimizing performance and scalability
- Hands-on workshop: Enriched CAI process.

External orchestration with Airflow

- Why Airflow for IDMC
- Key concepts of Apache Airflow (DAG, operators, scheduling)
- IDMC integration via REST API and connectors
- Triggering CDI / CAI jobs from DAGs
- Supervision and management of hybrid executions
- Practical workshop: Orchestrating IDMC mapping from an Airflow DAG.

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT 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 forthcoming course, 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

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, with brainstorming sessions and group work.

Validation

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

Certification

A certificate will be awarded to each trainee who has completed the entire course.