

IICS: Cloud Data Integration Services

Course Summary

Description

ExistBI deliver the following 4-day IICS Cloud Data Integration Services Training course including the architecture and data integration features, data synchronization, cloud mapping designer, data masking and data replication. This course enables you to integrate data between cloud-based applications and on-premises systems, and develop and implement integration solutions using Cloud Mapping Designer by leveraging advanced transformation and connectivity features of IICS.

Objectives

At the end of this course, students will be able to:

- Install Informatica Cloud Secure Agent
- Create and run Tasks, Mappings, and Taskflows
- Automate data integration jobs
- Use Cloud Mapping Designer and create Mapping Tasks
- Use advanced features to enhance and optimize integrations
- Configure Mass Ingestion task
- Perform transformations such as Hierarchy Parser and Unconnected Lookups
- Utilize advanced features such as Macro Expressions and Dynamic Linking
- Apply Parameterization and Pushdown Optimization features
- Utilize the REST web services
- Use advanced settings such as PK Chunking, Pre/Post SQL, and SQL Override
- Use the Discovery IQ feature
- Perform advanced parameterization and REST utilization
- Handle exceptions
- Perform administration tasks in IICS org

Topics

- Informatica Cloud Overview
- Cloud Secure Agent & Architecture
- Creating Connections
- Data Synchronization Application
- Relationships and Integration
- Qualifying & Transforming Source Data
- Advanced Source Options
- Field Lookups
- Data Replication Application
- Automating and Monitoring Tasks
- Cloud Mapping Designer – Part I
- Cloud Mapping Designer – Part II
- Mapping Task and Mapping Parameters
- Advanced Task Options
- Advanced Salesforce Options
- Data Masking Application
- Administration
- Linear Taskflow
- Mass Ingestion Task
- Introduction to Cloud & Platform Interoperability
- Cloud Mapping Designer
- Expression Macro and Dynamic Linking
- Hierarchical Connectivity
- Informatica Cloud REST API
- Performance and Scalability
- Advanced Properties Settings
- Discovery IQ
- Advanced Parameterization and REST Utilization
- Exception Handling
- Taskflows
- Advanced Administration

Audience

This course is designed for Business Analysts, and Developers.

Prerequisites

There are no prerequisites for this course.

Duration

Four days

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Course Outline

I. Informatica Cloud Overview

- A. Informatica Cloud
- B. Object Synchronization
- C. Process Synchronization
- D. Data Replication and Archiving
- E. Informatica Cloud Applications
- F. Informatica Cloud – Key Terms

II. Cloud Secure Agent & Architecture

- A. Informatica Cloud Architecture
- B. Informatica Cloud Secure Agent
- C. Informatica Secure Agent Architecture
- D. Agent Log File
- E. Running Agent as Local/Network User

III. Creating Connections

- A. Connection Properties
- B. Connection types
- C. Configuring a connection
- D. Creating a Salesforce.com Connection
- E. Creating a Flat File Connection

IV. Data Synchronization Application

- A. Data Synchronization application
- B. Data Synchronization Operations
- C. Field Information
- D. Activity Logs
- E. Log file types

V. Relationships and Integration

- A. Purpose of external ID
- B. External ID fields in Salesforce.com
- C. Foreign Keys
- D. Salesforce ID
- E. Data Synchronization Operations – IDs

VI. Qualifying & Transforming Source Data

- A. Data Filter
- B. Simple and Advanced Data Filter
- C. System Variables in a Data Filter
- D. Incremental Processing
- E. Field Expression

VII. Advanced Source Options

- A. Multiple Object Source Type
- B. Salesforce Objects – Options
- C. Salesforce Data Model and ERDs
- D. Saved Queries

VIII. Field Lookups

- A. Lookup Overview
- B. Configuring a Lookup
- C. Lookup Best Practices

IX. Data Replication Application

- A. Data Replication App Overview
- B. Data Replication Features and Benefits
- C. Data Replication Source and Target Options
- D. Other Data Replication Task Options
- E. Resetting the Target Table
- F. Non-Unique Index

X. Automating and Monitoring Tasks

- A. Schedules
- B. Schedule Repeat Frequency
- C. Repeat Frequency Options
- D. Schedule Blackout Period
- E. Task Flow
- F. Email Notifications
- G. Informatica Cloud Mobile App

XI. Cloud Mapping Designer – Part I

- A. Cloud Mapping Designer use cases
- B. Mapping Lifecycle
- C. Transformations in Cloud Mapping Designer
- D. Mapping Validation
- E. Creating a Simple Mapping using a Source, Filter, and Multiple Targets

XII. Cloud Mapping Designer – Part II

- A. Joiner, Expression, and Lookup transformations
- B. Field Rules: Renaming Fields, Selection Criteria
- C. Creating a Mapping using the Lookup and Expression Transformations

XIII. Mapping Task and Mapping Parameters

- A. Mapping Task
- B. Parameterization use cases
- C. Adding Parameters to a Mapping
- D. Parameter Types
- E. Parameter Panel and Best Practices
- F. Mapping Updates and Deployment
- G. Creating, testing, and running a Mapping Task

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Course Outline (cont'd)

XIV. Advanced Task Options

- A. Pre and Post-Processing Commands
- B. Operating System Commands
- C. Parameter File
- D. Setting Up a Parameter File

XV. Advanced Salesforce Options

- A. Salesforce target batch size
- B. Salesforce bulk API
- C. Salesforce outbound messaging to trigger a synchronization task

XVI. Data Masking Application

- A. Data Masking Service
- B. Data Subset: Row Limits and Data Filters
- C. Building, testing, and running a Data Masking task

XVII. Administration

- A. User Roles
- B. User Groups
- C. Object level permissions
- D. Organization hierarchy
- E. Migrating Assets

XVIII. Linear Taskflow

- A. Linear Taskflow Overview
- B. Tasks included in a Linear Taskflow
- C. Properties of a Linear Taskflow
- D. Scheduling a Taskflow

XIX. Mass Ingestion Task

- A. Mass Ingestion Task Overview
- B. Functionalities
- C. Configure Mass Ingestion Task

XX. Introduction to Cloud & Platform Interoperability

- A. Informatica Cloud as a SaaS application
- B. Informatica Cloud as a platform and understanding its architecture
- C. Data Integration and Real Time Integration in Informatica Cloud
- D. Features of Informatica Cloud

XXI. Cloud Mapping Designer

- A. Aggregator Transformation Overview
- B. Aggregator Transformation – Source and Target
- C. Normalizer Transformation
- D. Normalized Fields
- E. Lookup Transformation
- F. Unconnected Lookup

XXII. Expression Macro and Dynamic Linking

- A. Dynamic Linking
- B. Flat File Target Time Stamps
- C. Macros Expression
- D. Types of Expression Macro
- E. Performing Dynamic linking

XXIII. Hierarchical Connectivity

- A. Web Services and-REST Web Services
- B. Parameters of REST Web Service Message
- C. REST Connector – Support
- D. REST Web Services – Recommendations and Best Practices
- E. Web Service Transformation
- F. Hierarchical Schemas
- G. Hierarchy Parser Transformation
- H. Hierarchy Builder Transformation
- I. Creating a task to consume RESTful Open Weather Service
- J. Using Web Service Transformation in a mapping

XXIV. Informatica Cloud REST API

- A. What is a REST API?
- B. Informatica Cloud REST API
- C. Configuring a Request
- D. Synchronization Task using Cloud REST API

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Course Outline (cont'd)

XXV. Performance and Scalability

- A. Pushdown Optimization
- B. Taxonomy of Data Integration Approaches
- C. Combination and comparison of ETL and ELT Approach
- D. Pushdown Optimization Guidelines and Best Practices
- E. Partitions
- F. Types of Partitioning
- G. Partitioning Rules and Guidelines
- H. Secure Agent Groups with Multiple Agents
- I. Mapping Configuration Task with full Pushdown Optimization enabled
- J. Multiple partitions to process data concurrently

XXVI. Advanced Properties Settings

- A. SQL Overrides in Lookups
- B. Lookup SQL Override Attributes
- C. PK Chunking
- D. Optimal Chunk Size
- E. Pre and Post SQL commands
- F. Pre/Post SQL Commands in a DSS Task
- G. PK Chunking property to run a DSS Task
- H. Lookup SQL Override command

XXVII. Discovery IQ

- A. Discovery IQ Overview
- B. Discovery IQ Features

XXVIII. Advanced Parameterization and REST Utilization

- A. Parameterization
- B. Use case and solution
- C. Advanced Parameterization
- D. Informatica Cloud REST API utilization
- E. Benefits of Informatica cloud REST API and Parameterization
- F. Parameterization technique in a mapping

XXIX. Exception Handling

- A. Why is Exception Handling required?
- B. Exception Classification
- C. Default Field Value Setting
- D. Row Error Logging
- E. Error Handling Settings
- F. Fatal Exceptions
- G. Reject files or Bad files
- H. IICS Mapping to handle Non-Fatal errors

XXX. Taskflows

- A. What is a Taskflow?
- B. Taskflow Steps
- C. Taskflow Templates
- D. Parameters in Taskflows

XXXI. Advanced Administration

- A. Custom Roles
- B. Asset Level Permissions
- C. Rules and Guidelines for Permissions
- D. Project or Folder Access Using User Groups
- E. Administrative settings for the organization