

IICS: Cloud Data Integration Services

 now.informatica.com/IICS-Cloud-Data-Integration-Services-onDemand.html



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Course Overview

This course is applicable to version R37. Learn the fundamentals of Informatica Intelligent Cloud Services (IICS) including the architecture and data integration features, synchronization tasks, cloud mapping designer, masking tasks and replication tasks. This course enables you to operate and manage user security, secure agents, and monitor tasks and resources in IICS.

ENROLL

Objectives

After successfully completing this course, students should be able to:

- Describe Informatica Cloud Architecture
- Install the secure agent and create connections
- Create Synchronization task
- Data Transfer Task
- Use Cloud Mapping Designer to create Mappings and Mapping Tasks
- Create a Replication task
- Create a Masking task
- Create a Mass Ingestion task
- Create Taskflows
- Use IICS REST web services for data integration
- Use Intelligent Structure Model to parse data
- Handle exceptions
- Use advanced data integration features to optimize performance of jobs
- Automate and monitor tasks

- Configure advanced administration settings in IICS
- Distinguish users and groups
- Configure custom roles in IICS
- Asset Management

Target Audience

- Administrator
- Developer
- Operator

Prerequisites

None

Agenda

Module 1: Informatica Cloud Overview

- Informatica Intelligent Cloud Services (IICS) as an iPaaS solution
- Informatica Cloud Terminologies
- Informatica Cloud Architecture
- CDI Assets
- CDI Components
- Lab: Navigating the IICS interface

Module 2: Runtime Environments and Connections

- Runtime Environments
- Secure Agent Architecture
- Secure Agent Status
- Elastic Server
- Secure Agent Services
- IICS Log Files
- Connections
- Connection Types
- Creating Connections
- Lab: Installing IICS Secure Agent
- Lab: Creating a Salesforce connection
- Lab: Creating a Flat File connection
- Lab: Creating an Oracle connection

Module 3: Synchronization and Data Transfer Task

- Synchronization Task Overview

Module 10: Mass Ingestion Task

- Mass Ingestion Task Overview
- Functionalities
- Configuring a Mass Ingestion Task
- File Ingestion Task
- Database Ingestion Task
- Streaming Ingestion Task
- Lab: Creating a Streaming Ingestion Task

Module 11: Taskflows

- Taskflow overview
- Linear Taskflows
- File Listener Enhancements
- Taskflow Steps
- Taskflow Templates
- Parameters in Taskflow
- Using REST APIs
- Invoke a Taskflow through a File Listener
- Lab: Passing in-out parameters in a Taskflow
- Lab: Invoking a Taskflow through a File Listener
- Demo: Creating a Linear Taskflow

Module 12: Hierarchical Connectivity

- Web Service transformation
- REST V2 Connector

- Synchronization Task – Definition Step
- Synchronization Task – Source Step
- Synchronization Task – Target Step
- Synchronization Task – Data Filters Step
- Synchronization Task – Field Mapping Step
- Synchronization Task – Schedule Step
- Data Transfer Task
- Activity Monitor
- Lab: Creating a Synchronization Task
- Lab: Using Filter, Expression and Lookup in a Synchronization Task
- Lab: Creating a Data Transfer Task

Module 4: Cloud Mapping Designer

- Cloud Mapping Designer Overview
- Mapping Designer Terminologies
- CLAIRE Transformation Recommendations
- Mapping Data Preview
- Customizing Mapping Preview
- Field Rules
- Best Practices for Creating Mappings
- Data flow run order
- Mapping Task
- Dynamic Schema Change
- Deploy mapping updates
- Demo: Creating a simple Mapping
- Demo: Creating a Mapping Task

Module 5: Cloud Mapping Designer - Transformations

- Source Transformation
- Target Transformation
- Filter Transformation
- Joiner Transformation
- Expression Transformation
- Lookup Transformation
- Union Transformation
- Mapplets
- SQL Transformation
- Aggregator Transformation
- Normalizer Transformation
- Rank Transformation
- Data Masking Transformation
- Java Transformation
- Lab: Using Query in a Mapping
- Lab: Using Normalizer, Aggregator, and Rank transformations in a mapping

- Hierarchical Schemas
- Hierarchy Parser Transformation
- Hierarchy Builder Transformation
- Lab: Creating a mapping using a REST V2 connector
- Lab: Using Web Services transformation in a mapping
- Lab: Using Hierarchy Parser and Hierarchy Builder Transformation

Module 13: Intelligent Structure Model

- Intelligent Structure Model
- Intelligent Structure Discovery Process
- Intelligent Structure Example
- Refining a Discovered Structure
- Editing an Intelligent Structure Model
- Intelligent structure models based on an XSD file
- Using intelligent structure models in Structure Parser transformation
- Lab: Creating an Intelligent Structure Model
- Lab: Using Structure Parser transformation in a mapping

Module 14: Advanced Task Settings and Performance Tuning

- Primary Key Chunking
- Lookup SQL Override
- Partitions Overview
- Types of Partitions
- Partitioning Rules and Guidelines
- Pushdown optimization overview
- Types of pushdown optimization
- Pushdown optimization user-defined parameters
- Secure agent groups
- Shared secure agent groups
- DTM performance properties

Module 15: Exception Handling

- Types of exceptions
- User-defined exceptions
- Non-fatal exceptions
- Default Field Value Setting
- Row Error Logging
- Error handling settings
- Fatal exceptions

- Lab: Using Unconnected Lookup transformation in a mapping
- Lab: Using Mapplet transformation in a mapping

Module 6: Mapping Parameters

- Parameterization use cases
- Adding Parameters to a Mapping
- Creating parameters
- Parameter Types
- Using parameter files
- In-Out Parameter in Mapplet
- Parameter File Directory
- Parameter Best Practices
- Lab: Performing Complete Parameterization
- Lab: Using Parameter File in a Mapping task
- Lab: Using In-Out parameters for incremental data loading

Module 7: Expression Macro and Dynamic Linking

- Expression Macro
- Dynamic Linking
- Lab: Using Expression Macro in a mapping
- Lab: Using Dynamic Linking in a mapping

Module 8: Replication Task

- Replication Task Overview
- Replication Task Features
- Replication Task: Source and Target Options
- Other Replication Task Options
- Resetting the Target Table
- Generating Non-Unique Index
- Appendix: Replicating Data to a Flat file
- Creating a replication task

Module 9: Masking Task

- Masking Task Overview
- Masking Task: Source and Target Options
- Data Subset: Row Limits and Data Filters
- Field Masking Rules
- Masking Rule Types

- Bad files or Reject files
- Lab: Creating a mapping to handle non-fatal errors

Module 16: Administration

- Licenses
- Administrator Service
- User Roles (System-defined Roles and Custom Roles)
- Creating a User
- User Groups
- User Statistics
- Permissions
- Object-Level Permissions
- Organization Hierarchy
- Sub-Organization
- Importing and Exporting Assets
- Asset Dependency
- Add-on Bundles
- Lab: Creating a Sub-Organization and configure Administrative Settings
- Demo: Creating Sub-Organization and Export/Import Assets

Module 17: Automating and Monitoring Tasks

- Schedules
- Schedule Repeat Frequency
- Schedule Blackout Period
- Schedule Export
- Monitoring tasks
- Email Notifications
- Event Monitoring
- Lab: Creating a schedule

Module 18: IICS APIs

- REST API overview
- Informatica Cloud REST API
- REST API Versions
- Request Header and Request Body configuration
- Return Lists
- Demo: RunAJob Utility
- Lab: Running a Mapping task using REST API

Additional Exercise: Appendix 3: Performing Org Cleanup

- Refresh Masking Task metadata
 - Reset a Masking Task
 - Masking Best Practices
 - Lab: Create Masking task
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QUESTIONS?

onDemand | Cloud / iPaas | Self-Paced | Release 37
