KOENIG SOLUTIONS · COURSE OUTLINE

IICS: Cloud Data Integration Services

4 Days	19	174
DURATION	MODULES	TOPICS

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.

WHO THIS COURSE IS FOR

- Developer
- Operator

PREREQUISITES

- None

LEARNING OBJECTIVES

What You Will Learn

- 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

COURSE SYLLABUS

19 Modules, 174 Topics

MODULE 1

01

Informatica Cloud Overview

TOPICS

- 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

02

Runtime Environments and Connections

TOPICS

- 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

03

Synchronization and Data Transfer Task

TOPICS

- Synchronization Task Overview
- 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

04

Cloud Mapping Designer

TOPICS

- 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

MODULE 5

05

Cloud Mapping Designer - Transformations

TOPICS

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

MODULE 6

06

Mapping Parameters

TOPICS

- 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

07

Expression Macro and Dynamic Linking

TOPICS

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

MODULE 8

08

Replication Task

TOPICS

- 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

MODULE 9

09

Masking Task

TOPICS

- Masking Task Overview
- Masking Task: Source and Target Options
- Data Subset: Row Limits and Data Filters
- Field Masking Rules
- Masking Rule Types
- Refresh Masking Task metadata
- Reset a Masking Task
- Masking Best Practices
- Appendix: Creating a Masking Task

MODULE 10

10

Mass Ingestion Task

TOPICS

- 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

11

Taskflows

TOPICS

- 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

MODULE 12

12

Hierarchical Connectivity

TOPICS

- Web Service transformation
- REST V2 Connector
- 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

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Intelligent Structure Model

TOPICS

- 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

14

Advanced Task Settings and Performance Tuning

TOPICS

- 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

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Exception Handling

TOPICS

- Types of exceptions
- User-defined exceptions
- Non-fatal exceptions
- Default Field Value Setting
- Row Error Logging
- Error handling settings
- Fatal exceptions
- Bad files or Reject files
- Lab: Creating a mapping to handle non-fatal errors

MODULE 16

16

Administration

TOPICS

- 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

MODULE 17

17

Automating and Monitoring Tasks

TOPICS

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

MODULE 18

18

IICS APIs

TOPICS

- 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

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Additional Exercise: Appendix 3: Performing Org Cleanup

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

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