



Informatica Intelligent Cloud Services (IICS)

Course ID #: 7000-622-ZZ-Z

Hours: 28

Course Content

Course Description:

This course is designed to teach Informatica's Intelligent Cloud Services. The course covers the architecture, and the data integration features that allows attendees to integrate hybrid environments between cloud-based applications and on-premise systems. Practical Labs were designed to enhance in depth knowledge of IICS.

Prerequisites:

None.

Target Audience:

Developers.

Topics:

- Introduction to the Cloud Interface
- Advantages of Informatica Cloud
- Overview of Cloud services
- Integrating Informatica Cloud and PowerCenter

Lesson 1: Informatica Cloud Architecture

- Informatica Cloud Integration Service Architecture
- Informatica Cloud Secure Agent Architecture

Lesson 2: Configuration

- System Requirements
- Secure Agent Configuration
- Creating and Configuring connections
- Flat File connection features
- Creating and configuring Schedules
- Creating queries
- *Exercise #1: Download, Install and Configure the Secure Agent*
- *Exercise #2: Creating connections*

Lesson 3: Integration Applications

- Configuring a Data Replication Task
- Configuring a Data Synchronization Task

- *Exercise #3: Data Synchronization*
- *Exercise #4: Synchronize Salesforce Contacts*
- Configuring a Data Masking Task
- Configuring a PowerCenter Task
- Explain advanced options (i.e., Pre and Post-Processing Commands, Operating System Commands, Success and Failure email notifications, Assign parameter file)
- Configuring a Data Transfer Tasks
- Configure file listener job

Lesson 4: Monitoring and Debugging

- Activity Monitor Service
- Debugging task
- Errors and log files



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Lesson 5: Troubleshooting

- Secure Agent
- Connection
- Mapping
- Mapping Task, Synchronization Task, Replication Task, Masking Task, PowerCenter Task, Scheduled Task
- Security

Lesson 6: Informatica Cloud Mapping Designer

- Overview of the mapping designer
- Mapping transformations overview: Source, Target, Joiner, Expression, Filter, Aggregator, Rank, Sorter, Normalizer, router, Union, JAVA, sequence generator and Lookup, Data Masking
- CLAIRE recommendations for source objects
- Assigning Field Rules to the transformations
- Create variables and parameters in the mapping
- *Exercise #5: Source and Target Definitions, Simple Mapping*
- *Exercise #6: Expression and aggregator transformation*
- *Exercise #7: Flat File Source, Joins*
- *Exercise #8: Lookup and Rank Transformations*
- *Exercise #9: Complex mapping to load Salesforce Data, Router Transformation*
- *Exercise #10: Local variables, Sorter Transformation*
- *Exercise #11: Using Sorted Input Optimization*
- *Exercise #12: Normalizer*
- Data Integration Elastic

Lesson 7: Mapping Task

- Usage of a mapping Task
- *Exercise #13: Slowly Changing Dimension Type I (MappingTask)*
- Data Validation
- Runajob Utility
- Dynamic Mapping Task
- Dynamic Schema Change

Lesson 8: Taskflows

- Usage of Taskflows
- Configuring a Taskflow
- Taskflow Inputs
- Taskflow Functions
- Command Task
- *Exercise #14: Simple Taskflow and Error Handling*
- *Exercise #15: Complex Taskflow*
- *Exercise #16: Mapping Parameters*

Lesson 9: Administration

- Enabling source control
- Switch between different organization
- Create User Roles, User Groups, and Object level permissions
- Migration
- Audit logs

Lesson 10: Web services and Hierarchical transformations

- Overview of Web services
- Usage of web service transformation
- Hierarchy Parser Transformation
- Hierarchy Builder Transformation
- *Exercise #17: Create a mapping that uses a web service transformation.*
- *Exercise #18: Create a mapping that uses a Hierarchy Parser transformation.*
- *Exercise #19: Create a mapping that uses a Hierarchy Builder transformation.*
- Intelligent Structure Discovery

Lesson 11: Informatica Cloud Rest API

- Overview of Rest APIs in Informatica cloud
- IP Address Filtering
- *Exercise 20: Create a Rest API to run a mapping task*

Lesson 12: Performance Optimization

- Overview on Partitioning rules and Guidelines
- Overview on Pushdown Optimization



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Lesson 13: Exception Handling

- Overview of types of exceptions
- Handling user-defines, fatal and non-fatal exceptions
- *Exercise #21: Create a mapping to handle exceptions*

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