Application Integration on Oracle Cloud NEW

Duration: 2 Days

What you will learn

This training teaches you about leveraging Oracle ICS to create and configure connections and integrations for SaaS to SaaS, and SaaS to On-Premise integration use cases. This course is designed for business users and implementers who are responsible for defining and creating these integrations using the ICS dashboard or the ICS REST API.

Learn To:

Use and configure the ICS built-in adapters.
Understand the data mapping and data lookup features of ICS.
Create ICS connections and integrations.
Monitor integrations to view metrics and errors.

Benefits to You

By taking this course, you'll become familiar with various use cases. You'll get a chance to learn about configuring built-in ICS adapter properties, defining inbound and outbound connections within integrations, mapping data, creating lookups, and monitoring integration uses cases for metrics and error information

Audience
Application Developers
Business Analysts
Business Intelligence Developer
Developer
Functional Implementer
SOA Architect
Support Engineer
Technical Consultant

Related Training

Required Prerequisites

Experience with PaaS and SaaS concepts

Knowledge of working with one specific SaaS application

Course Objectives
Transform data with the ICS mapper, XPath functions, and ICS lookups

Describe how the agent framework implements connectivity for integrations

Understand ICS components, features, and capabilities

Create Packages and leverage pre-built integrations

Configure Trigger and invoke built-in ICS adapter properties

Understand the steps for installing an on-premises agent

Describe ICS security support at the integration flow level

Use the ICS dashboard to get runtime data and metrics for connections and integrations

Monitor and manage runtime integration errors

Configure and use business identifiers for tracking fields

Perform basic management tasks using the ICS REST API

Define REST and SOAP adapter properties for integrating web services

Describe the ICS-supported message exchange patterns

Configure the Basic Map My Data 1-way and 2-way integration patterns

Define the Publish to ICS and Subscribe to ICS integration patterns

Create content-based routing filters and branches leveraging conditional expressions

Course Topics

ICS Overview
Basic architecture & use case overview
Understanding ICS components & capabilities
Basic configuration workflow steps

Creating Packages and Using Pre-built Integrations
Describe and use a pre-built ICS integration
Create, export, and import packages
Editing a pre-built ICS connection
Versioning integrations
Activating integrations

Configuring Adapters and Defining Connections
Understanding ICS built-in adapters
Configuring trigger and invoke adapter properties
Defining REST adapter properties
Defining SOAP adapter properties
Overview of available cloud adapters

Defining and Configuring Integrations
Describe the ICS-supported message exchange patterns
Understanding the steps for creating an ICS integration
Using the Basic Map Data 1-way and 2-way integration pattern
Using the publish to ICS integration pattern
Using the subscribe to ICS integration pattern
Overview of data mapping
Using other connections to enrich the response

Data Mapping and Lookups
Transforming data with the ICS mapper
Advanced mapping using XPath functions
Understanding ICS data lookups
Sharing information between applications using lookups
Using the built-in lookup function

Advanced Integrations and Orchestrations
Understanding content-based routing
Creating content-based routing filters and branches
Creating conditional expressions
Using the Orchestration integration pattern

Agents for SaaS and On-Premises Integration
Understand the benefits of using agents as compared to direct integration with on-premise applications
Describe how the agent framework implements connectivity for integrations
Understand the steps for installing an on-premises agent
Create a connection to on-premises endpoints
Describe the steps to perform an agent management task

Security / Schedules / Additional Features
Describe ICS security support at the integration flow level
List the predefined roles and privileges in ICS
Managing and assigning user roles
Managing security cerficates
Securing on-premises agents
Using integration schedules and jobs

Monitoring Integrations
Understand the main tasks available using the ICS monitor role in the ICS dashboard
Using the ICS dashboard to get runtime data and metrics
Understand how to filter and track messages
Configure and use business identifiers for tracking fields
Monitor and manage runtime integration errors

Managing Integrations Using the ICS REST API
Describe the ICS services that are exposed though REST APIs
Access REST API resources
Perform basic management tasks using the REST API
Using HTTP status codes for troubleshooting