

Application Integration on Oracle Cloud

Duration: 2 Days

What you will learn

This Application Integration on Oracle Cloud 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 lecture-only seminar, 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

Please Note:

You're expected to have experience with PaaS and SaaS concepts, as well as solid background knowledge working with one specific SaaS and/or on-premise applications.

Audience

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

Course Objectives

Understand the steps for installing an on-premises agent

EZY Intellect Pte. Ltd.,

#1 Changi North Street 1, Singapore – 498789. www.ezyintellect.com

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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
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

Course Topics

ICS Overview

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

Creating Packages & 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

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Defining and Configuring Integrations

- Describe the ICS-supported message exchange patterns
- Understanding the steps for creating an ICS integration
- Using the Basic Map My 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 certificates
- 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 through REST APIs

Access REST API resources

Perform basic management tasks using the REST API

Using HTTP status codes for troubleshooting