Oracle Service Bus 12c: Design and Integrate Services

Duration: 4 Days

What you will learn

This Oracle Service Bus 12c: Design and Integrate Services training takes a use case driven approach to explain the OSB capabilities of connecting, mediating and coordinating the interaction between different applications and services across a variety of platforms, protocols, and interface technologies. Expert Oracle University instructors discuss OSB as a common infrastructure in support of a broad scale SOA initiative.

Learn To:

Use Oracle Service Bus 12c to make services interact in a decouple manner.
Implement enterprise-quality message flows with Service Bus 12c.
Implement message validation, routing, transformation and enrichment.
Integrate services with legacy systems.
Enable service level abstraction.

Benefits to You

Taking this course will teach you how to use Oracle Service Bus 12c to make services interact in a decouple manner - overcoming the challenges of location transparency, transport protocol mediation, message validation, message routing, message transformation, message enhancement and security in an integration project. Oracle Service Bus can help your enterprise integration without having to write your own integration logic for every application.

Audience

Application Developers
SOA Architect
System Integrator

Related Training

Required Prerequisites

Working knowledge of messaging, web service and SOA

Course Objectives

Implement message validation, routing, transformation and enrichment

Integrate services with legacy systems

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Provide reliable delivery of messages between applications

Use Oracle Service Bus and OWSM to secure services

Test, debug, and troubleshoot Oracle Service Bus applications

List Oracle Service Bus capabilities

Enable service level abstraction

Describe Oracle Service Bus architecture and functional layers

Expose a SOAP service as a REST service

Course Topics

Introducing Oracle Service Bus
About Enterprise Service Bus
Introducing Oracle Service Bus
About Oracle Service Bus and Oracle SOA Suite
Describing Service Bus installation and configuration options

Getting Started with Service Bus Applications
Explaining basics of WSDL and XSD
Discussing Service Bus components
Creating a simple Service Bus application
Discussing features for developers

Basics of Message Flow
Discussing message flow
About context variables
About pipeline templates
Explaining debugging

Validating Messages and Error Handling
Explaining message validation
Discussing fault handling
Discussing reporting

Transforming Messages
Overview of message transformation in Service Bus
About XPath functions
Using XSLT Mapper to create XSL transformations
Using XQuery Mapper to create XQuery transformations
Transforming non-XML to XML with nXSD

Routing Messages
Oveview of message routing
About content-based routing
About dynamic routing

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Enriching Messages
Discussing message enrichment use cases
Explaining enrichment using Service Callout
Describing enrichment using Java Callout

Processing Messages with Concurrent Calls
Introducing split-join
About split-join patterns
About split-join constructions
Implementing a split-join

Adapters and Transports
About JCA transport and adapters
Discussing SOA-DIRECT transport
Exposing SOAP-based services as REST services using the REST binding

Reliable Messaging
Discussing reliable messaging support in Service Bus
About quality of service
Discussing configurations for reliable communication

Service Bus Security
About security concepts
Discussing Oracle WSM security
About access control policies

Advanced Topics
Discussing principles and best practices of using Service Bus
About service result caching and SLA alerts
Integrating with MFT
About message re-sequencing
Describing continuous integration with Maven

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