Oracle Service Bus 12c: Administration

This Oracle Service Bus 12c: Administration training teaches you how to install and configure Oracle Service Bus 12c. Expert Oracle University instructors help you gain hands-on experience administering its different components by using the Service Bus Console and Enterprise Manager Fusion Middleware Control.

Learn to:

- Install Oracle Service Bus 12c and initialize a domain and database support.
- Migrate an Oracle Service Bus configuration from staging to production environments.
- Automate Oracle Service Bus tasks using scripts.
- Monitor service bus health.
- Define service level agreements that trigger alerts.
- Configure transport protocols.

Benefits to You

By taking this course, you'll develop the skills to install, configure and administer a service bus environment to maintain interactions between services and applications. You'll walk away from the course with the ability to manage and maintain services hosted through Oracle Service Bus 12c as well. Develop a deeper understanding of how Oracle Service Bus enables the integration of services that support a variety of different protocols, security policies and service level agreements.

Prerequisites

Suggested Prerequisite

- Knowledge of SOA
- Knowledge XQuery and XPath

Required Prerequisite

- Basic Knowledge of Oracle Service Bus and SOA

- Basic knowledge of WebLogic Server administration
- XML programming experience
- Basic Knowledge of SAML

Audience

- Administrator
- Systems Administrator

Objectives

- Implement Oracle Web Services Manager security in securing Oracle Service Bus services
- Enrich, route and validate messages within the Service Bus
- Describe Message Level Security and securing Oracle Service Bus
- Use some of the basic transports protocols in Oracle Service Bus
- Install and configure Oracle Service Bus 12c
- Discuss Oracle Service Bus concepts
- Migrate an Service Bus configuration from staging to production environments
- Automate Service Bus tasks by using WLST scripts
- Configure and administer Oracle Service Bus 12c and its components
- Configure security policies for services
- Perform high availability and clustering of Oracle Service Bus 12c

Topics

- Introduction
  - Course Overview
  - Course Environment
  - Course Agenda
- Getting Started with Oracle Service Bus
  - Oracle Service Bus and SOA
  - Oracle Service Bus Roles
  - Product Architecture
  - Describe the Functional Layers of Oracle Service Bus
  - What is Oracle Fusion Middleware 12c?
- Installing Oracle Service Bus 12c
  - Oracle Service Bus Database
  - Installation Requirements
  - Install Oracle Service Bus 12c
  - Oracle Service Bus Domain
  - Verify Installation
- Service Bus Administration Tools
  - Service Bus Console Structure and Fusion Middleware Control Console Structure
  - Developer Tasks Supported in the Oracle Service Bus Console
  - Service Bus Administrator Tasks Supported in the Fusion Middleware Control Console
- Service Bus Management
  - Change Management
  - Change Propagation
  - Delegated Administration
  - Oracle Service Bus and WLST
- Reporting and Monitoring
  - Console Dashboard
  - Working with Alerts

- - Reports
  - Logging and Message Level Tracing
- Service Bus Security
  - Oracle Service Bus Security Concepts
  - Securing Services with OWSM
  - Access Control Policies
- Service Bus High Availability
  - Oracle Service Bus Production Architecture
  - Factors Affecting Oracle Service Bus Performance
  - Partitioning Oracle Service Bus Deployments into a Cluster
  - Throttling and Service Pooling