

## Oracle Service Bus 12c: Administration

**Duration:** 2 Days

### What you will learn

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.

### Audience

Administrator  
System Administrator  
Technical Administrator

### Related Training

#### *Required Prerequisites*

Basic Knowledge of Oracle Service Bus and SOA

Basic Knowledge of SAML

Basic knowledge of WebLogic Server administration

XML programming experience

*Suggested Prerequisites*  
Knowledge XQuery and XPath

Knowledge of SOA

Oracle WebLogic Server 12c: Administration I

### **Course 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

### **Course 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