

# Oracle Service Bus 11g: System Admin, Design & Integrate Accelerated

## Getting Started with OSB

- Oracle Service Bus and SOA
- OSB 11g Product Architecture
- Describing the Functional Layers of Oracle Service Bus
- OSB and Oracle Fusion Middleware 11g

## Installing Oracle Service Bus 11g

- Installing the Product
- Incorporating Different OSB Domain Topology
- Configuring an OSB Domain

## Service Bus Administration Tools

- Working with the OSB Administration Console
- Accessing the OSB Test Console

## Service Bus Management

- Working with OSB Session
- Propagating a Service Bus Configuration
- Customizing a Service Bus Configuration
- Managing OSB Using WLST

## Reporting and Monitoring

- Service Bus Monitoring
- Service Bus Operational Settings
- Working with SLA Alerts
- OSB Reporting Architecture

## Service Bus Security

- OSB and Oracle Web Services Manager Security
- Configuring the OSB Security Environment
- Securing a Proxy Service by Using OWSM policies
- Propagating Identity from OSB to Secured Web Service

## Service Bus High Availability

- OSB High Availability Architecture
- Creating an OSB Cluster
- Service Endpoint Scalability
- Load Balancing Services Endpoint

## Service Bus Performance Tuning

- Factors Affecting OSB Performance
- Partitioning OSB Deployments into Multiple OSB Domains
- Tuning an OSB Instance
- Service Result Caching with Coherence
- Throttling and Service Pooling

## Configuring Enterprise Repository and Service Registry

- Service Lifecycle Implementation by Using OER-OSR
- Ways to Populate OER from OSB
- Service Registry Integration Scenarios
- Import Business Services

## Message Flow

- Introducing the Oracle Service Bus Resources
- Explaining the Message Context Model and the Message Context Variables
- Understanding the Message Flow and the Nodes/Elements of a Message Flow

## Message Flow Actions

- Describing the Communication Actions You Can Add to a Route or a Stage in a Message Flow
- Describing the Flow Control Action You Can Add to a Route or a Stage in a Message Flow
- Describing the Message Processing Actions You Can Add to a Stage in a Message Flow
- Describing the Reporting Actions You Can Add to a Stage in a Message Flow
- Using XQuery Mapping and Transformations

## Message Flow Best Practices

- Introducing Split-Joins
- Describing the Concept of Dynamic Routing

## Transports in Oracle Service Bus

- Describing Oracle SOA Suite Transport (SOA-DIRECT)
- Describing JCA Transport

- Describing Representational State Transfer (REST)

## Debugging with Oracle Service Bus

- Describing and Configuring Error Handling in Oracle Service Bus
- Configuring Validation in Oracle Service Bus
- Explaining the Usage of the Reporting Action

## Introduction to Oracle Service Bus Security

- Introducing Oracle Service Bus Security
- Securing OSB with OWSM
- Introducing Message Level Security