

Introduction to Oracle Service Bus Essentials (Oracle OSB) - TTOR20919

Hands-on course designed for IT professionals, software developers, and system administrators aiming to acquire a basic understanding of OSB's role within service-oriented architecture (SOA).

Duration: 3 Days

Skill Level: Introductory

Available Format: Instructor-Led Online ; On Public Schedule

Introduction to Oracle Service Bus (OSB) Essentials is a three day hands-on course designed for IT professionals, software developers, and system administrators aiming to acquire a basic understanding of OSB's role within service-oriented architecture (SOA).

What You'll Learn

Overview

Introduction to Oracle Service Bus (OSB) Essentials is a three day hands-on course designed for IT professionals, software developers, and system administrators aiming to acquire a basic understanding of OSB's role within service-oriented architecture (SOA). Throughout the course you'll learn the fundamental concepts and step-by-step techniques for creating and managing OSB-based integration solutions. You'll explore OSB, from its overarching architecture and components to the essentials of service development and message transformation. You'll gain hands-on experience in crafting and managing OSB-based integration solutions, equipping you with valuable practical skills applicable in real-world scenarios.

The course covers critical areas such as service orchestration fundamentals, error handling, logging, and security basics. Each session is constructed to ensure you gain detailed insights into creating resilient services while maintaining a strong emphasis on

security and performance, an essential competence in today's fast-paced technological environment.

Through interactive labs and expert instruction, you will emerge ready to apply these new skills to enhance your organization's IT strategies.

Topics Covered:

- Introduction to SOA and Oracle Service Bus
- OSB Architecture and Components
- Basic Service Development
- Message Routing and Transformation
- Service Orchestration Fundamentals
- Error Handling and Logging
- OSB Security Basics
- Monitoring and Performance Considerations

Objectives

This course combines expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment led by our expert facilitator, you'll explore:

- **Service Integration Proficiency:** Develop the ability to integrate disparate services using OSB, ensuring seamless communication between applications and services, which is fundamental in modern IT architectures.
- **Orchestration and Automation Skills:** Acquire the skills to orchestrate complex business processes and automate service interactions, resulting in efficient workflow management and reduced manual intervention.
- **Error Handling Expertise:** Gain expertise in implementing robust error handling and logging mechanisms within OSB, which is critical for maintaining high service availability and reliability.
- **Security Implementation:** Learn to implement security policies and protocols within OSB to safeguard services and data, a non-negotiable skill in today's security-conscious digital environment.
- **Performance Tuning and Monitoring:** Master the techniques for tuning and monitoring OSB services to ensure optimal performance and quick troubleshooting, a key skill for

maintaining high user satisfaction and service quality.

Need different skills or topics? If your team requires different topics or tools, additional skills or custom approach, this course may be further adjusted to accommodate. We offer additional Oracle, database, scripting, administration and other related topics that may be blended with this course for a track that best suits your needs.

Audience

This introductory-level course is geared for IT professionals, software developers, and system administrators new to Oracle Service Bus.

Pre-Requisites

You should have a general understanding of service-oriented architecture (SOA), XML, and web services. No prior experience with OSB is required.

Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We'll work with you to tune this course and level of coverage to target the skills you need most. Topics, agenda and labs are subject to change, and may adjust during live delivery based on audience interests, skill-level and participation.

Day 1: OSB Overview and Service Development

Explore the fundamentals of OSB to design solutions that not only streamline business processes but also adapt to evolving integration requirements, providing a springboard for innovation in any IT environment.

- Understanding the role of OSB in SOA.
- Navigating the OSB console and architecture.

- Exploring the differentiators of OSB in the SOA landscape.
- Identifying key service components and their roles within OSB.
- Creating and configuring OSB resources for service development.
- Understanding the transport protocols supported by OSB.
- Introduction to OSB's message flow components.
- *Lab: Setting up your first OSB environment and deploying a basic service.*

Day 2: Message Processing and Service Orchestration

Expand your technical repertoire with advanced message processing and orchestration techniques in OSB, enabling you to build dynamic, efficient, and scalable applications that are vital in modern digital ecosystems.

- Configuring proxy services for message routing.
- Implementing transformations with XQuery and XSLT.
- Delving into advanced message filtering and dynamic routing.
- Utilizing OSB for protocol translation and service virtualization.
- Applying enterprise integration patterns within OSB.
- Constructing a coherent exception handling strategy for services.
- Deep dive into XQuery functions and modules for complex transformations.
- *Lab: Designing a simple service orchestration to process business logic.*

Day 3: Error Handling, Security, and Monitoring

Complete your OSB skillset with strategic error management, security protocols, and performance monitoring knowledge, essential for delivering high-quality, resilient services that uphold and exceed industry standards.

- Best practices for error handling and logging in OSB.

- Introduction to securing services with OSB.
- Implementing effective logging practices for tracing service execution.
- Configuring and managing throttling and service pooling for performance.
- Utilizing OSB for legacy system integration.
- Enforcing policies and compliance in service interactions.
- Techniques for optimizing the performance of OSB components.
- *Lab: Monitoring services and analyzing performance metrics.*

For More Information

Please [contact us](#) or call 844-475-4559 toll free for more information about our training services (instructor-led, self-paced or blended), coaching and mentoring services, public course enrollment or questions, partner programs, courseware licensing options and more.