OWS14c-JMSA: Oracle WebLogic Server 14c: JMS Administration

Course Code: OWS14c-JMSA
Duration: 4 days
Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

The **Oracle WebLogic Server 14c: JMS Administration** Certification validates a professional's skills to configure, manage, and tune JMS resources for Oracle WebLogic Server. JMS stands for Java Message Service, a messaging standard that allows Java EE applications to communicate with other messaging systems. With this certification, individuals can demonstrate their understanding of deploying JMS in a WebLogic domain, configuring message-driven beans, and tuning JMS for optimized performance. Industries use this certification to ensure their IT professionals have the required knowledge and skills to effectively implement and manage the JMS functionalities in Oracle WebLogic Server, improving productivity and communication across different systems.

SKILLS COVERED

After completing this course, you should be able to:

- Configure JMS servers
- Configure JMS queues, topics, and connections
- Configure JMS persistent storage
- Pause and resume JMS services
- Configure distributed queues and topics
- Deploy JMS to configured and dynamic clusters
- Configure automatic whole server migration

- Configure and initiate JMS service migration
- Monitor and tune JMS performance
- Troubleshoot JMS problems

WHO SHOULD ATTEND?

- Experienced Oracle WebLogic Server administrators
- Middleware administrators
- Network administrators
- System architects
- IT professionals managing JMS resources
- Technical staff seeking expertise in JMS administration
- Professionals seeking Oracle WebLogic Server 14c certification

PREREQUISITES

- Profound knowledge in Java EE 7/8.
- Experience in Oracle WebLogic Server 14c administration.
- Familiarity with Java Message Service (JMS) concepts.
- Basic understanding of network management and protocols.
- Hands-on experience in Oracle Fusion Middleware for WebLogic Server.
- Real-world experience managing JMS resources in WebLogic server domains.

MODULES

Module 1: Course Overview

- Course Overview
- Course Practice Environment: Security Credentials

Module 2: Java Messaging Concepts

- Java Messaging Concepts
- Browsing Consumers

Module 3: Basic Configuration

- Basic Configuration
- Configuring Factory Default Settings
- Adding a Quota to a Module
- REST Examples: Creating JMS Sub deployment
- Practice 3-1: Creating and Testing a Basic JMS Configuration (Part 01)
- Practice 3-1: Creating and Testing a Basic JMS Configuration (Part 02)

Module 4: Message Monitoring and Management

- Message Monitoring and Management
- Message Type Considerations
- Why Export Messages?
- Practice 4-1: Monitoring and Managing JMS (Part 01)
- Practice 4-1: Monitoring and Managing JMS (Part 02)

Module 5: Persistence, Transactions, and Durability

- Persistence, Transactions, and Durability
- WebLogic Transaction Manager: Review
- Topics and Durable Subscribers
- Practice 5-1: Configuring and Testing Message Persistence (Part 01)
- Practice 5-1: Configuring and Testing Message Persistence (Part 02)

Module 6: Distributed Destinations

- Distributed Destinations
- Message Forwarding with Distributed Queues
- Practice 6-1: Creating and Testing Distributed Destinations (Part 01)
- Practice 6-1: Creating and Testing Distributed Destinations (Part 02)
- Practice 6-1: Creating and Testing Distributed Destinations (Part 03)

Module 7: Server Migration

- Server Migration
- Configuring SUDO
- Targeting Distributed Destinations to Multiple JMS Servers
- Practice 7-1: Migrating a Server (Part 01)
- Practice 7-1: Migrating a Server (Part 02)
- Practice 7-1: Migrating a Server (Part 03)

Module 8: JMS Clustering and High Availability

- JMS Clustering and High Availability
- Understanding Distribution, Migration, and Failover
- Best Practices
- Practice 8-1: Configuring JMS Clustering and HA (Part 01)
- Practice 8-1: Configuring JMS Clustering and HA (Part 02)

Module 9: Performance Tuning

- Performance Tuning
- Example: Quota Too High
- Producer Timeout When Quota Is Full
- Tuning the Consumer Message Pipeline
- Practice 9-1: Tuning JMS Performance (Part 01)
- Practice 9-1: Tuning JMS Performance (Part 02)
- Practice 9-1: Tuning JMS Performance (Part 03)

Module 10: Troubleshooting

- Troubleshooting
- Server Diagnostic Images
- Consumer Acknowledgment Modes
- Practice 10-1: Investigating JMS Problems (Part 01)
- Practice 10-1: Investigating JMS Problems (Part 02)
- Practice 10-1: Investigating JMS Problems (Part 03)
- Practice 10-1: Investigating JMS Problems (Part 04)

Module 11: Introduction to JMS Security

- Introduction to JMS Security
- Practice 11-1: Creating and Testing a Basic JMS Configuration

Module 12: Introduction to JMS Integration

- Introduction to JMS Integration
- Oracle Advanced Queuing (AQ): Overview
- Practice 12-2: Forwarding JMS Messages with Store and Forward Agent (Part 01)
- Practice 12-2: Forwarding JMS Messages with Store and Forward Agent (Part 02)

Module 13: Introduction to Message Ordering

- Introduction to Message Ordering
- Practice 13-1: Introduction to Message Ordering (Part 01)
- Practice 13-1: Introduction to Message Ordering (Part 02)

Module 14: Service Migration

- Service Migration

Module 15: Oracle Cloud

- Oracle Cloud

Module 16: Oracle Java Cloud Service Overview

- Oracle Java Cloud Service Overview

END OF PAGE