

Oracle WebLogic Server 14c: Performance Tuning Workshop Course

Course Duration: 24 Hrs.

Course code: WLS-14C-PTW

Course Overview

The Oracle WebLogic Server 14c: Performance Tuning Workshop course is designed to provide in-depth knowledge of optimizing the performance and scalability of WebLogic Server environments. Participants will learn how to diagnose, analyze, and fine-tune WebLogic applications and system resources for better throughput and stability. The course combines theoretical concepts with hands-on labs to enable learners to identify bottlenecks, tune JVM, configure clustering, and implement high-performance solutions for enterprise applications.

What you'll learn?

- Understand WebLogic Server architecture and performance fundamentals.
- Apply tuning strategies for JVM, JDBC, and thread management.
- Configure WebLogic clusters for scalability and high availability.
- Monitor and troubleshoot performance issues using diagnostic tools.
- Tune application deployment, connection pools, and EJB components.
- Optimize memory, garbage collection, and system resources.
- Implement best practices for performance management in production.

Target Audience

- WebLogic Server Administrators
- Middleware Administrators
- Application Developers and Architects
- Performance Engineers
- System Administrators supporting WebLogic environments

Pre-Requisites

- Working knowledge of Oracle WebLogic Server administration.
- Familiarity with JVM concepts, Java EE, and basic networking.
- Prior hands-on experience with deploying applications on WebLogic Server.

Course Content

Module 1: Introduction to WebLogic Server 14c Performance Concepts

Module 2: JVM Tuning and Garbage Collection Optimization

Module 3: Thread Management and Work Manager Configuration

Module 4: JDBC Connection Pooling and Data Source Tuning

Module 5: Clustering for Scalability and High Availability

Module 6: Application Deployment and Tuning Strategies

Module 7: Monitoring Tools and Diagnostics Framework (WLDF)

Module 8: Troubleshooting Performance Bottlenecks

Module 9: Best Practices for Production Environments