

Oracle WebLogic Server 12c: Performance Tuning Workshop Ed3

Duración

Días: 3 Días

Horas: 18 horas

Descripción

This Oracle WebLogic Server 12c: Performance Tuning Workshop teaches administrators how to load, test, and tune the Oracle WebLogic Server stack for optimal performance. This includes the operating system, Java Virtual Machine, WebLogic Server subsystems, and the database.

Objetivos

- ✓ Configure a work manager for an application.
- ✓ Monitor and tune Java EE applications.
- ✓ Use a standard tuning methodology.
- ✓ Tune an operating system to support WebLogic.
- ✓ Monitor and tune JVM performance.
- ✓ Monitor and tune server performance.
- ✓ Monitor and tune cluster performance.
- ✓ Monitor and tune JDBC services.
- ✓ Monitor and tune a persistent store.

Requisitos

Required prerequisites

- ✓ Adequate knowledge of administering Oracle WebLogic Server
- ✓ Oracle WebLogic Server 12c: Administration I Ed 3

Suggested prerequisites

- ✓ Basic Knowledge of Java programming

Qué aprenderá

- ✓ Describe a typical performance methodology.
- ✓ Use a load-testing tool such as the Grinder.
- ✓ Use command-line and graphical tools such as jps, jcmd, Java VisualVM, Mission Control, and Flight Recorder.
- ✓ Generate and analyze performance data.
- ✓ Tune operating system resources.
- ✓ Tune Java Virtual Machine (JVM) and Oracle WebLogic Server parameters.

A quién se dirige

- Administrator
- Java EE Developers
- Project Manager
- SOA Architect
- Support Engineer
- System Integrator
- Technical Consultant
- Web Administrator

Beneficios

Taking this course will help you develop the skills to increase the performance and scalability of your organization's applications and services with the Oracle

WebLogic Server -- the world's #1 application server. You'll learn how to simplify deployment and significantly improve time-to-market.

Tune the System

This training also teaches you how to tune the system at different levels to ensure that applications run smoothly without overtaxing available resources. In addition, walk away with an understanding of how performance-test data is generated, gathered, analyzed, and saved.

Identify Performance Differences

Finally, you'll learn how to use a combination of tools to examine system resource, Java Virtual Machine, and Oracle WebLogic Server runtime metrics so that you can identify performance differences before and after configuration changes. You'll also practice analyzing these differences to determine the settings that optimize application performance.

Contenido

1. Tuning Methodology
 - ✓ Introduction to Performance Tuning
 - ✓ Load and Stress Testing and Benchmarking
 - ✓ Identifying Bottlenecks
 - ✓ Performance Monitoring and Testing Tools
2. Tuning Operating Systems
 - ✓ Operating System Resources
 - ✓ Linux Performance Monitoring
3. Monitor and Tune JVM Performance
 - ✓ JVM Performance: Overview
 - ✓ The JVM and Garbage Collection
 - ✓ Command-Line JVM Tools
 - ✓ GUI JVM Tools
4. Monitor and Tune Server Performance
 - ✓ Domain Startup Mode
 - ✓ On-Demand Deployment

- ✓ Native I/O Performance Pack
- ✓ Overload Protection
- ✓ Garbage Collection Thresholds
- ✓ Connection Backlog
- ✓ Secure Sockets Layer (SSL) Tuning
- ✓ Logging Considerations

5. Monitor and Tune Cluster Performance

- ✓ Clustering: Review
- ✓ Load Balancing and Failover
- ✓ HTTP Session Persistence: Review
- ✓ Deployment Packaging
- ✓ Peer-to-Peer Communication
- ✓ Basic Cluster Architecture
- ✓ Multitier Cluster Architecture
- ✓ Load Balancers

6. Monitoring and Tuning Data Sources and Persistent Stores

- ✓ JDBC: Review
- ✓ JDBC and Application Design
- ✓ Connection Pools
- ✓ Logging Last Resource (LLR) Transactions
- ✓ Batch Updates
- ✓ Transactions
- ✓ Persistent Stores
- ✓ Database Tuning

7. Configuring Work Managers

- ✓ Monitoring a Server Thread Pool
- ✓ WebLogic Server Thread Tuning
- ✓ Work Manager
- ✓ Work Manager Configuration
- ✓ Tuning Transactions

8. Monitoring and Tuning Java EE Applications

- ✓ Tuning Web Applications
- ✓ Tuning Enterprise JavaBeans (EJBs)
- ✓ Tuning JPA
- ✓ Tuning Web Services

