

## Oracle WebLogic Server 12c: Troubleshooting Workshop

**Duration:** 2 Days

### What you will learn

This Oracle WebLogic Server 12c: Troubleshooting Workshop training teaches administrators how to diagnose and troubleshoot Oracle WebLogic Server 12c problems and issues. Emphasizing hands-on practices rather than lectures, the course requires prior WebLogic Server 12c administration experience.

Learn How To:

- Diagnose WebLogic Server problems.
- Enable debugging for a WebLogic Server feature.
- Troubleshoot common WebLogic Server problems.

### Benefits to You

Knowing how to diagnose and troubleshoot Oracle WebLogic Server issues increases the performance and scalability of your organization's applications and services.

### Use Troubleshooting Tools

You learn how to use tools to assist in troubleshooting, including the WebLogic Server Administration Console, the Monitoring Dashboard, and the WebLogic Diagnostic Framework. In hands-on practices, you solidify your understanding of new topics by learning how to apply this knowledge to your daily job.

### Practice Troubleshooting Problems

Enrolling in this course gives you a chance to practice troubleshooting problems. You'll use Oracle WebLogic server itself, along with the Java Virtual Machine, deployment of Java Enterprise Edition applications, Java Database Connectivity, Node Manager, WebLogic Server clusters, and WebLogic Server security.

### Audience

Administrator  
System Administrator  
Technical Administrator

### Related Training

#### *Required Prerequisites*

Oracle WebLogic Server 12c: Administration I

#### *Suggested Prerequisites*

Basic knowledge of UNIX commands and navigation

System administration experience

### **Course Objectives**

Configure and analyze diagnostic harvesters and monitors.

Troubleshoot common Java Virtual Machine problems.

Troubleshoot Node Manager problems.

Troubleshoot JDBC problems.

Troubleshoot WebLogic Server security problems.

Troubleshoot WebLogic Server cluster problems.

### **Course Topics**

#### **Troubleshooting: Overview**

Troubleshooting Tools

Troubleshooting Methodology

#### **WebLogic Server Diagnostic Framework: Overview**

WLDF: Overview

Metric Collectors

Review: Monitoring Dashboard

#### **Diagnostic Instrumentation**

Monitors

Request Tracking

#### **JVM Troubleshooting**

JVM: Overview

JVM Issues

JVM Tools

#### **Troubleshooting Servers**

Server Diagnostics

Startup Errors

Threading Issues

Work Managers

Stuck Thread Detection

Overloaded Server Detection

#### **Troubleshooting Applications**

Java Exceptions

Java Stack Traces

Library Issues  
Common Java Errors  
Application Diagnostics

### **Troubleshooting JDBC**

JDBC: Review  
JDBC WLDF Monitoring: Review  
Common Errors  
Data Source Availability  
JPA

### **Troubleshooting Node Manager**

Node Manager: Review  
Node Manager Logging  
Node Manager Monitoring  
Common Configuration Errors  
Configuration of Node Manager Credentials

### **Troubleshooting Clusters**

Cluster Proxy Diagnostics  
Common Proxy Problems  
Session Replication Diagnostics  
Session Monitoring  
Session Instrumentation  
Common Replication Issues

### **Troubleshooting Security**

Security Realm: Review  
LDAP: Review  
Security Realm Debug Flags  
Auditing Provider