# Oracle WebLogic Server 12c: Troubleshooting Workshop

**Duration:** 2 Days

**What you will learn**

This course 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 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.
A Live Virtual Class (LVC) is exclusively for registered students; unregistered individuals may not view an LVC at any time. Registered students must view the class from the country listed in the registration form. Unauthorized recording, copying, or transmission of LVC content may not be made.

**Related Training**

*Required Prerequisites*

Oracle WebLogic Server 12c: Administration I Ed 2

*Suggested Prerequisites*
Basic knowledge of UNIX commands and navigation

System administration experience

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.

**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