

## Oracle WebLogic Server 12c: Administration II

Duration: 5 Days

### What you will learn

This course is a continuation of Oracle WebLogic Server 12c: Administration I. It teaches you how to perform important administrative tasks, employing best practices that enable you to make the most of your WebLogic applications.

Learn how to:

- Upgrade WebLogic products without disrupting client applications
- Create and use domain templates
- Deploy shared libraries and applications using advanced deployment techniques
- Configure advanced JDBC features
- Create and run WLST scripts
- Configure and use Coherence\*Web and managed Coherence servers

### Benefits to You

Increase the reliability, availability, scalability, and performance (RASP) of your organization's applications and services with the #1 application server. Take advantage of WebLogic Server features to maximize the effectiveness of your enterprise.

### Oracle WebLogic Server Domain Management Tasks

This course trains administrators in WebLogic Server administrative tasks related to managing the day to day operations of running applications, including performing rolling upgrades, creating and using domain templates, configuring automatic crash recovery, and creating and running WebLogic Scripting Tool (WLST) scripts.

### Oracle WebLogic Server Deployment Tasks

This course trains administrators in WebLogic Server administrative tasks related to real-world management of application deployments, including using deployment modes, creating and using deployment plans, deploying shared libraries, and deploying versioned applications and libraries.

### Oracle WebLogic Server Subsystem Administration Tasks

This course trains administrators in WebLogic Server administrative tasks. These tasks are related to WebLogic infrastructure features, including creating and using work managers, managing data sources, using multi data sources, configuring WebLogic security artifacts, configuring SSL for WebLogic Server, configuring automatic JTA service migration, configuring and using the WebLogic Diagnostic Framework (WLDF), configuring Coherence\*Web for HTTP session persistence and configuring managed Coherence servers.

Administrator  
Java EE Developer  
Security Administrators  
System Administrator  
Technical Administrator

Technical Consultant  
Web Administrator

## Related Training

### *Suggested Prerequisites*

Some experience using basic Linux commands

Some system administration experience

## Course Objectives

Configure Coherence features

Perform a rolling upgrade of WebLogic Server

Write and run WLST scripts

Deploy shared libraries and applications using deployment plans and versioning

Configure SSL for WebLogic Server

Configure WebLogic features including domain templates, system start up, crash recovery, work managers, multi data sources, security policies, and automatic JTA migration

## Course Topics

### **WebLogic Server Review**

WebLogic Server: Overview

WebLogic Server Domain

Administration Server and Managed Servers

Machines, Node Manager, and Clusters

Start Scripts

WebLogic Tools: Administration Console and WLST

Deployment

### **Upgrading WebLogic Server**

Upgrade definition

Rolling Upgrade

Rolling Upgrade Process

### **Creating and Using Domain Templates**

Domain Template Review

Domain Template Concepts

Extension Template Concepts

Custom Templates

### **WebLogic Server Startup and Crash Recovery**

Node Manager Review  
Configure Node Manager to Start on System Boot  
Server Automatic Crash Recovery Restart

### **WebLogic Scripting Tool (WLST)**

Jython Concepts  
WLST Concepts  
Java Management eXtension (JMX) Concepts  
Common WLST Tasks  
Fusion Middleware (FMW) Commands

### **Secure Sockets Layer (SSL)**

SSL Concepts  
WebLogic SSL Scenarios  
Keystores  
Configuring WebLogic SSL

### **Application Staging and Deployment Plans**

Java EE Applications Review  
Server Staging Modes  
Deploying an Application to Multiple Environments  
Java EE Deployment Descriptors and Annotations  
Deployment Plans  
Deployment Plan Tools

### **Shared Java EE Libraries**

Shared Java EE Library Concepts  
Deploying a Shared Library

### **Production Redeployment**

HTTP Sessions and Redeployment  
Redeployment Strategies  
Production Redeployment  
Application Versioning  
Requirements and Restrictions

### **Application Work Managers**

Default WebLogic Request Handling  
Work Manager Concepts  
Creating a Work Manager

### **Managing Data Sources**

JDBC Review  
Managing Data Sources  
GridLink Data Source Review  
Multi Data Sources  
Connection Testing Review  
Creating a Multi Data Source

### **Working with the Security Realm**

Security Review  
The Embedded LDAP Authentication and Authorization System

Configure Auditing

### **High Availability, Migration, and Disaster Recovery**

Disaster Recovery

Backup the Administration Server

Service-Level Migration

Automatic JTA Service Migration

Whole Server Migration Overview

### **Diagnostic Framework**

General Architecture

Diagnostic Images

Harvesters

Watches and Notifications

### **Coherence**

Coherence Overview

Coherence\*Web Session Persistence

Managed Coherence Servers

### **Related Courses**

Oracle Database 12c: Administration Workshop