

## 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
- Interact and manage WLS using REST
- Configure and use Coherence\*Web and managed Coherence servers
- Create and work with simple domain partitions

### 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.

## **Audience**

Administrator  
Java EE Developers  
Security Administrators  
System Administrator  
Technical Administrator  
Technical Consultant  
Web Administrator

## **Related Training**

### *Required Prerequisites*

WebLogic Admin I  
Oracle WebLogic Server 12c: Administration I

### *Suggested Prerequisites*

Experience using basic Linux commands  
System administration experience

## **Course Objectives**

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  
Configure Coherence features  
Perform a rolling upgrade of WebLogic Server  
Write and run WLST scripts

## **Course Topics**

### **Course Overview**

Objectives  
Prerequisites  
Schedule

### **WebLogic Server Review**

WebLogic Server: Overview  
WebLogic Server Domain  
Administration Server and Managed Server  
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 Recover**

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

### **WebLogic Server and REST**

WLS and REST  
Accessing WLS via REST  
WLS REST Operations

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

SSL Concepts  
WebLogic SSL Scenarios  
Key stores  
Configuring WebLogic SSL

### **Shared Java EE Libraries**

Shared Java EE Library Concepts  
Deploying a Shared Library

### **Application Work Managers**

Default WebLogic Request Handling  
Work Manager Concepts  
Creating a Work Manager

### **Security Realms**

Security Review  
Embedded LDAP Authentication System  
Configure Auditing

### **Disaster Recovery and Migration**

Disaster Recovery  
Backing Up the Administration Servers

Service-Level Migration  
Whole Server Migration

### **Domain Partitions**

Introduction to Multitenancy  
Working with Domain Partitions

### **Managing Data Sources**

General Architecture  
Diagnostic Images  
Harvesters  
Watches and Notifications

### **Diagnostic Framework**

General Architecture  
Diagnostic Images  
Harvesters  
Policies and Actions  
Scaling and WLDF

### **Coherence**

Coherence Overview  
Coherence\*Web Session Persistence  
Managed Coherence Servers

### **(Optional)Application Staging and Deployment Plans**

Review  
Server staging modes  
Deploying an application to multiple environments  
Java EE deployment descriptors and annotations  
Deployment plans  
Deployment plan tools

### **(Optional)Production Redeployment**

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