Oracle WebLogic Server 12c: Administration II

Duration: 5 Days

What you will learn

This Oracle WebLogic Server 12c: Administration II training 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 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

Taking this course will help you increase the reliability, availability, scalability, and performance (RASP) of your organization’s applications and services with the #1 application server. You'll be better equipped to 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

Administrators will learn how to perform 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,

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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

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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
Keystores
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

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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
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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

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