

OWS12c-2: Oracle WebLogic Server 12c: Administration II

Course Code: OWS12c-2

Duration: 5 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This course is designed for experienced WebLogic administrators who have completed the " Oracle WebLogic Server 12c: Administration I" course. After completing this training, students will be able to understand advanced concepts of WebLogic administration, including WLST, Advanced Deployment and JDBC features. This course is best suited for Java EE Developers, Security Administrators, System Administrators, Technical Administrators, Technical Consultants, and Web Administrators.

SKILLS COVERED

Upon Completion of this Course, you will accomplish following:-

- Comprehend Domain Template Concepts
- Comprehend how to Upgrade
- Comprehend Rolling Upgrade Process
- Comprehend how to configure Node Manager to Start on System Boot
- Comprehend Extension Template Concepts
- Comprehend Custom Templates
- Comprehend how to Deploy an Application to Multiple Environments
- Comprehend Connection Testing
- Comprehend how to Create a Multi Data Source
- Comprehend Java EE Deployment Descriptors and Annotations
- Comprehend Service-Level Migration

- Comprehend how to Manage Coherence Servers

WHO SHOULD ATTEND?

- Administrator
- Developer
- Implementer
- Systems Administrator

PREREQUISITES

- Oracle WebLogic Server 12c: Administration I or Experience in weblogic server administration.

MODULES

Module 1: Course Overview

- Objectives
- Prerequisites
- Schedule

Module 2: 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

Module 3: Upgrading WebLogic Server

- Upgrade definition
- Rolling Upgrade
- Rolling Upgrade Process

Module 4: Creating and Using Domain Templates

- Domain Template Review
- Domain Template Concepts
- Extension Template Concepts
- Custom Templates

Module 5: WebLogic Server Startup and Crash Recover

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

Module 6: WebLogic Scripting Tool (WLST)

- Jython Concepts
- WLST Concepts
- Java Management eXtension (JMX) concepts
- Common WLST tasks

Module 7: WebLogic Server and REST

- WLS and REST
- Accessing WLS via REST
- WLS REST Operations

Module 8: Secure Sockets Layer (SSL)

- SSL Concepts
- WebLogic SSL Scenarios
- Keystores
- Configuring WebLogic SSL

Module 9: Shared Java EE Libraries

- Shared Java EE Library Concepts
- Deploying a Shared Library

Module 10: Application Work Managers

- Default WebLogic Request Handling
- Work Manager Concepts
- Creating a Work Manager

Module 11: Security Realms

- Security Review
- Embedded LDAP Authentication System
- Configure Auditing

Module 12: Disaster Recovery and Migration

- Disaster Recovery
- Backing Up the Administration Servers
- Service-Level Migration
- Whole Server Migration

Module 13: Domain Partitions

- Introduction to Multitenancy
- Working with Domain Partitions

Module 14: Managing Data Sources

- General Architecture
- Diagnostic Images
- Harvesters
- Watches and Notifications

Module 15: Diagnostic Framework

- General Architecture
- Diagnostic Images
- Harvesters
- Policies and Actions
- Scaling and WLDF

Module 16: Coherence

- Coherence Overview
- Coherence*Web Session Persistence
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Module 17: (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

Module 18: (Optional) Production Redeployment

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

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