OWS14c-A2: Oracle WebLogic Server 14c: Administration II

Course Code: OWS14c-A2
Duration: 5 days
Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This **Oracle WebLogic Server 14c: Administration II** training is a continuation of Oracle WebLogic Server 14c: 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.

SKILLS COVERED

You will 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.

WHO SHOULD ATTEND?

- IT professionals dealing with application server administration
- Oracle WebLogic server administrators
- Middleware administrators
- System administrators upgrading to WebLogic Server 14c
- Application developers seeking hands-on training

- Database administrators interested in WebLogic Server functionality
- IT professionals preparing for Oracle WebLogic certification exams.

MODULES

Module 1: Course Introduction

- Course Practice Environment: Security Credentials Part 1
- Course Practice Environment: Security Credentials Part 2

Module 2: WebLogic Server Review

- WebLogic Server Review

Module 3: Upgrading WebLogic Server

- Upgrading WebLogic Server
- Rolling Upgrade Process
- Practice 3-1: Setting Up the Course Practice Environment
- Practice 3-2: Performing a Rolling Upgrade Part 01
- Practice 3-2: Performing a Rolling Upgrade Part 02

Module 4: Creating and Using Domain Templates

- Creating and Using Domain Templates
- Custom Templates
- Practice 4-1: Creating and Using a Custom Domain Template Part 1
- Practice 4-1: Creating and Using a Custom Domain Template Part 2
- Practice 4-1: Creating and Using a Custom Domain Template Part 3
- Practice 4-1: Creating and Using a Custom Domain Template Part 4

Module 5: WebLogic Server Startup and Crash Recovery

- WebLogic Server Startup and Crash Recovery
- Control and Check Service Status
- Configuring the Node Manager as an xinetd Service
- Solaris-Specific Configuration
- Practice 5-1: Configuring Automatic Start and Restart of a System Part 1
- Practice 5-1: Configuring Automatic Start and Restart of a System Part 2

Module 6: WebLogic Scripting Tool (WLST)

- I/O Commands
- WLST Example
- WLST Development Tools
- WebLogic JMX Overview
- Browsing MBean Documentation
- Connecting to a Server
- Creating a Data Source
- Practice 6-1: Creating and Modifying a Domain with WLST Part 1
- Practice 6-1: Creating and Modifying a Domain with WLST Part 2
- Practice 6-2: Monitoring a Domain with WLST Part 1
- Practice 6-2: Monitoring a Domain with WLST Part 2
- Practice 6-2: Monitoring a Domain with WLST Part 3

Module 7: RESTFul Management Services

- Working with WebLogic REST
- WebLogic REST Error Handling
- WebLogic Server REST Operations and Workflows
- Practice 7-1: Creating and Managing Servers Using REST

Module 8: Secure Sockets Layer (SSL)

- Secure Sockets Layer (SSL)
- WebLogic SSL Scenarios
- Configuring WebLogic Keystores

- Practice 8-1: Setting Up SSL

Module 9: Application Work Managers

- Work Manager Concepts
- Creating a Constraint
- Practice 9-1: Creating and Using Work Managers Part 1
- Practice 9-1: Creating and Using Work Managers Part 2

Module 10: Working with the Security Realm

- Working with the Security Realm
- Group Membership
- Security Configuration Sources
- Configure Auditing
- Practice 10-1: Creating Users, Groups, Roles, and Policies Part 1
- Practice 10-1: Creating Users, Groups, Roles, and Policies Part 2
- Practice 10-2: Configuring WebLogic Auditing

Module 11: Disaster Recovery and Migration

- Backing Up a Domain Configuration
- JTA Service Migration: Before Failure
- Practice 11-1: Configuring JTA Service-Level Migration Part 1
- Practice 11-1: Configuring JTA Service-Level Migration Part 2

Module 12: Managing Data Sources

- Oracle Real Application Clusters (RAC): Overview
- Connection Testing
- Practice 12-1: Controlling a Data Source
- Practice 12-2: (optional) Creating and Using a Multi Data Source

Module 13: Diagnostic Framework

- Resource Descriptors
- Harvesters
- Configuring Policies
- Practice 13-1: Using a Built-in Diagnostic Module

Module 14: WebLogic and Coherence Integration

- WebLogic and Coherence Integration
- Coherence and WebLogic Server
- Practice 14-1: Configuring Coherence*Web Part 1
- Practice 14-1: Configuring Coherence*Web Part 2
- Practice 14-2: Configuring Managed Coherence Servers

Module 15: Application Staging and Deployment Plans

- Application Staging and Deployment Plans
- Development to Test to Production
- Managing Precedence
- Creating a Deployment Plan
- Practice 15-1: (Optional) Creating and Using a Deployment Plan Part 1
- Practice 15-1: (Optional) Creating and Using a Deployment Plan Part 2
- Module 16: WebLogic, Docker, and Kubernetes
- Docker Architecture and Terminology
- Kubernetes: What Is It?
- Accessing Applications in Kubernetes
- Domain Introspection and Config Override Generation

Oracle Linux Container Services

Module 17: Production Redeployment

- Redeployment Process: Overview

- Practice Appendix A-1: Using Production Redeployment

Module 18: WebLogic Optimizations for Exalogic

Module 19: Oracle Cloud

Module 20: Oracle Java Cloud Service Overview

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