

Course Outline

Oracle WebLogic Server 12c: Administration II

Duration: 5 days (30 hours)

Learning Objectives:

- 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
- Deploy shared libraries and applications using deployment plans and versioning
- Configure SSL for WebLogic Server

Target Audience

- System Administrator
- Administrator
- Java EE Developer
- Web Administrator
- Technical Consultant
- Security Administrators
- Technical Administrator

Prerequisites:

- Oracle WebLogic Server 12c: Administration I
- Some system administration experience
- Some experience using basic Linux commands

Topics Covered:

- 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