

Oracle WebLogic Administration

Duration: 5 Days Course Code: OWLA Delivery Method: Virtual Learning

Overview:

Oracle WebLogic Administration Course Overview

This Oracle WebLogic Administration course teaches the core skills needed to install and configure the Oracle WebLogic Application Server. Using a mixture of discussions and a hands-on workshop approach, delegates learn to; deploy JEE applications using the Administration Console, use the command-line and WLST scripting tool, configuration of Oracle HTTP Server and an Oracle WebLogic Server cluster to support failover and load balancing for applications.

Delegates will use Oracle WebLogic version 14c when attending their training. Where relevant, the course outlines the differences between version 14c and previous versions.

Similarly, the course is targeted to closely follow the official Oracle WebLogic curriculum for certification.

Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Who will the Course Benefit?

This Oracle WebLogic Administration course is suitable for application server administrators, Java EE developers and systems administrators using version 14c, who need to gain the skills necessary to install, configure and manage an Oracle WebLogic Application Server.

Objectives:

- Course Objectives
 - To provide the skills necessary to install, configure, and manage an Oracle WebLogic server. This includes deploying applications and understanding the core aspects of Oracle WebLogic server.
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Prerequisites:

- This course is aimed at those who need to understand or administer Oracle WebLogic server, especially application server administrators, JEE developers and systems administrators. No prior knowledge of WebLogic is required, but delegates should be from a relevant technical background.
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Follow-on-Courses:

Further Learning

- Apache Web Server
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Content:

Oracle WebLogic Administration Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: WELCOME TO ORACLE FUSION MIDDLEWARE

- The Oracle Fusion Middleware Environment
- Oracle WebLogic Server Component Tour
- Online Documentation Sources
- WebLogic Diagnostics Framework (WLDF)

Session 2: INSTALLING ORACLE WEBLOGIC SERVER

- Installation Options
- Graphical User Interface (GUI) Installation
- Command Line Installation
- WebLogic Server Directory Structure
- Patching WebLogic Server

Session 3: JEE ARCHITECTURE

- Understanding the JEE Environment
- Java Middle Tier Architecture

Session 4: DOMAIN CONFIGURATION

- Understanding WebLogic Domains
- Administration Servers and Managed Servers
- Creating and Configuring Domains
- The Domain Directory Structure
- Offline WLST Domain Management Oracle WebLogic Administration Training Course Course Contents - DAY 2

Session 5: DOMAIN TEMPLATES

- Understanding and Creating a Domain Template
- Extending a Domain Template
- Domain Templates for Fusion Middleware Suites

Session 6: ADMINISTRATION TOOLS

- Utilising the Administration Console
- Using WLST to Navigate the Domain Structure
- Understanding Internal Change Management Using JMX and MBeans

Session 7: MANAGED SERVERS

- Configuring Managed Servers
- Starting and Stopping Managed Servers or Domains
- Startup Scripting
- Configuring Managed Servers Remotely
- Explaining Administration and Managed Server Independence (MSI)

Session 8: UTILISING NODE MANAGER

- Node Manager Architecture
- Node Manager Directory Structure
- Understanding Machines
- Configuring Node Manager
- Start and Stop Procedures Oracle WebLogic Administration Training Course Course Contents - DAY 3

Session 9: WEB SERVERS AND PROXIES

- WebLogic and Proxies
- Configuring mod_wl_ohs
- Oracle HTTP Server
- Using Oracle Traffic Director

Session 10: DEPLOYING JEE APPLICATIONS

- Describing JEE Web Applications
- Web Application Structure and Packaging
- Deploying Shared Libraries
- Understanding Deployment Descriptors
- Deployment Using Administration Console
- WLST Web Application Deployment

Session 11: DEPLOYMENT IN PRODUCTION ENVIRONMENTS

- Development, Testing and Staging Deployments
- Deployment Plans
- Redeployment of Versioned Applications

Session 12: JDBC AND DATA SOURCES

- Understanding JDBC and Data Sources
- Configuring JDBC and Data Sources
- Using and Tuning Connection Pools
- Deploying JDBC Resources
- Monitoring and Testing Oracle WebLogic Administration Training Course Course Contents - DAY 4

Session 13: JAVA MESSAGE SERVICE (JMS) SETUP

- Describing and Configuring JMS
- Connection Factories, Queues and Topics
- Using Persistent Messages

Session 15: DOMAIN MONITORING

- Server Log Monitoring
- Administration Console Log Management
- Integrating Application Logging
- Log Filtering
- Server Health and Performance Monitoring
- JDBC Data Source Monitoring
- Using the Monitoring Dashboard

Session 16: BACKUP AND RECOVERY

- Backup and Recovery Strategy
- Full Offline Backup and Recovery
- Online and Offline Domain Backup
- Instance Home Backup and Recovery Oracle WebLogic Administration Training Course Course Contents - DAY 5

Session 17: CLUSTER CONFIGURATION

- Preparing, Creating and Configuring a Cluster
- Dynamic Clusters
- Basic and Multitier Cluster Architecture
- Communication Between Clustered Server Instances
- Using Oracle HTTP Server as a Cluster Proxy

Session 18: CLUSTERS AND APPLICATIONS

- Deploying Applications to a Cluster
- Clustered Session State Replication
- Replication Groups and In-memory Replication
- Stateful Session Beans in Multitier Clusters
- Configuring JDBC and File Replication

Session 19: SECURITY ARCHITECTURE

- WebLogic Server Security Architecture
- Security Realms
- Users and Groups / Roles and Policies
- Understanding WebLogic Server Authentication Providers
- Web Application Resources and EJB Protection

Session 20: SECURING THE WEB INTERFACE

- Keys and Digital Certificates with the Keytool
- Configuring SSL for WebLogic Server
- Steps to Prevent Web-based Interference

- JMS Monitoring

Session 14: TRANSACTION SUPPORT

- Transaction Handling
- Configuring JTA
- Distributed Transactions

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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