

Oracle WebLogic Server 12c: Administration I

Duration: 5 Days

What you will learn

This Oracle WebLogic Server 12c: Administration I training teaches you how to install and configure Oracle WebLogic Server 12c. It gives administrators an overview of the basic concepts and architecture of WebLogic Server.

Learn how to:

Install, configure, and administer Oracle WebLogic Server.

Monitor domain resources.

Deploy applications.

Create a domain.

Start servers.

Monitor domain resources.

Set up and use node manager.

Deploy applications.

Configure database resources.

Configure a cluster.

Benefits to You

After taking this course, you'll be able to improve the performance and scalability of your organization's applications and services with the #1 application server. You'll simplify deployment and significantly improve time-to-market.

Audience

Developer

J2EE Developer

System Administrator

Systems Architects

Technical Administrator

Related Training

Suggested Prerequisites

Some experience using basic Linux commands

Some system administration experience

Course Objectives

Configure WebLogic Server's authentication provider

Deploy applications to WebLogic Server

- Backup and restore a WebLogic Server domain
- Create a WebLogic Server domain
- Configure and monitor WebLogic Server
- Configure WebLogic Server database resources
- Create and configure a WebLogic Server cluster
- Install WebLogic Server 12c

Course Topics

WebLogic Server Overview

- WebLogic Server Architecture
- Application Services
- Administration Tools
- Java Cloud Service

Installing and Patching WebLogic Server

- Installing WebLogic Server
- Patching WebLogic Server
- Zero Downtime Patching

Creating Domains

- Domain Planning
- Domain Modes
- Domain Creation Tools
- Domain Templates
- Using the Configuration Wizard
- Multitenancy concepts

Starting Servers

- Server Lifecycle
- Starting and Stopping Servers
- Domain scripts
- Customizing Domain Scripts
- Restarting Failed Servers

Using the Administration Console

- Using the Administration Console for Configuration
- Change Management Architecture
- Creating and Modifying Managed Servers
- Enterprise Manager Cloud Control

Configuring JDBC

- JDBC Review
- Data source Types
- Configuring a JDBC Data Source
- JDBC and RAC
- Connection Pools

Monitoring a Domain

Working with WebLogic Server Logs
Monitoring WebLogic Server
JMX, MBeans and Monitoring
Monitoring Dashboards

Node Manager

Node Manager Concepts
Configuring and Using Node Manager
Node Manager Setup Tasks
Node Manager and Scripting
Node Manager Best Practices

Deploying Applications

Deployment Overview and Lifecycle
Deployment Descriptor Concepts
WebLogic Deployment Tools
Deploying an Application
Load Testing an Application

Network Channels and Virtual Hosts

Configuring a Network Channel
Configuring the Admin Port
Creating a Virtual Host

Clusters: Overview, Create, & Config

Clustering Review
Configuring a Cluster
Configuring a Dynamic Cluster

Clusters: Proxies & Sessions

Web-tier and Cluster Proxies
Oracle Traffic Director and Oracle HTTP Server
Configuring a Cluster Proxy
Configuring Replication Groups

Clusters: Communication, Planning & Troubleshooting

Cluster Communication Concepts
Multicast and Unicast
Replication Channels
Scaling and Troubleshooting Clusters

Transactions

Transaction Overview
Configuring Transaction Persistence
Transaction Logs
Transactions and Persistent Stores

Monitoring Transactions

WebLogic Server Security

WebLogic Security Architecture

Configuring an Authentication Provider

LDAP Authentication

Troubleshooting Authentication

Backing Up a Domain and Upgrading WebLogic Server

Backup/Recovery Concepts

Backup Types

Backing Up and Restoring a Domain