

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

- Datasource 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