

Oracle WebLogic Server 12c: Administration I

This Oracle WebLogic Server 12c: Administration I training teaches you how to perform the most important Oracle WebLogic Server 12c administrative tasks. Get an overview of the architecture and concepts of Oracle WebLogic Server 12c.

Learn To

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
- Deploy share libraries and associated 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.

Prerequisites

- Some experience using basic Linux commands
- Some system administration experience

Audience

- Administrator
- Developer
- System Integrator
- Systems Administrator

Course Objectives

- Install WebLogic Server 12c
- Deploy applications to WebLogic Server
- Deploy share libraries and application that use them 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
- Configure WebLogic Server's authentication provider

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

(Ed 3 only, coming in October 2019) Shared Java EE Libraries

- Shared Java EE Library Concepts
- Deploying a Shared Library

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