

# 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

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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

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

## Audience

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- Administrator
- Developer
- System Integrator
- Systems Administrator

## Course Objectives

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- 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

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### 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