

# Oracle WebLogic Server 12c: Administration I

This Oracle WebLogic Server 12c: Administration our 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 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.

## 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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- Deploy applications to WebLogic Server
- Backup and restore a WebLogic Server domain
- Create a WebLogic Server domain.
- ⌘ Configure and monitor WebLogic Server
- ⌘ WebLogic Server database resources
- Create and configure a WebLogic Server cluster
- Install WebLogic Server 12c.
- 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

## 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