

# Oracle Weblogic Server12c Admin

Mail:- [info@premieronlinetrainings.com](mailto:info@premieronlinetrainings.com)

Contact:- +91 9000774266

---

## 1. Introducing Oracle Fusion Middleware Platform

- ✓ Describing the Oracle Fusion Middleware Environment
- ✓ Components of Fusion Middleware
- ✓ Understanding the purpose of each component and their dependency
- ✓ Describing How WebLogic Server Supports Various Fusion Middleware Suites
- ✓ Describing How Various Fusion Middleware Suites Augment the Functions of WebLogic Server
- ✓ Explaining the Motivation Behind Distributed Systems
- ✓ The Major Components of the Java Platform Enterprise Edition 5 (Java EE) Specification

## 2. Installing Oracle WebLogic Server 12c:

- ✓ Explaining Oracle WebLogic Server Installation Steps
- ✓ Installing WebLogic Server Using Both the Graphical User Interface (GUI) and Command Line
- ✓ Describing the Organization and Contents of the WebLogic Server Directory Structure
- ✓ Navigating the WebLogic Server Online and Offline Documentation

## 3. Configuring a Simple Domain:

- ✓ Describing the Common Elements in a WebLogic Server Domain
- ✓ Describing how Domains are used in the Enterprise
- ✓ Comparing Administration and Managed Servers
- ✓ Configuring a Domain
- ✓ Describing the Organization and Contents of the WLS Directory Structure
- ✓ Describing the use of WLST Offline to Manage Domains
- ✓ Creating a Simple Domain with One Managed Server
- ✓ Checking the Port Numbers that are Used for Components

## 4. Configuring a Domain Using Templates:

- ✓ Describing the Internal Process Used to Create or Update a Domain Using a Template
- ✓ Describing the Process of Extending a Domain Template

## 5. Starting Servers

- ✓ Starting and Stopping Server with Standard Scripts
- ✓ Dealing with Startup Scripts
- ✓ Customizing Standard start scripts

# Oracle Weblogic Server12c Admin

Mail:- [info@premieronlinetrainings.com](mailto:info@premieronlinetrainings.com)

Contact:- +91 9000774266

---

## 6. Using Administration Console and WLST

- ✓ Identifying Dynamic and Non dynamic Attribute Changes in the Administration Console
- ✓ Customizing Monitoring Tables within the Administration Console
- ✓ Using the WebLogic Scripting Tool (WLST) Command-line Utility
- ✓ Invoking WLST and Navigate Through the Domain Structure
- ✓ Describing How Change Management is Performed Internally Using Java Management Extension (JMX) and Mbeans

## 7. Configuring Managed Servers:

- ✓ Configuring Managed Servers Using the Administrative Console
- ✓ Configuring Managed Servers Using WebLogic Scripting Tool (WLST)
- ✓ Starting Managed Servers
- ✓ Shutting Down a Server or an Entire Domain Using WLST or the Administrative Console
- ✓ Configuring Managed Servers on a Computer Separate from the Administration Server
- ✓ Explaining Administration and Managed Server Independence (MSI)

## 8. Configuring Node Managers

- ✓ Defining the Oracle WebLogic Server Machine
- ✓ Configuring a Machine and Assign Servers to it by Using the Console and WebLogic Scripting Tool (WLST)
- ✓ Explaining the Node Manager Architecture
- ✓ Describing the Organization and Contents of a Node Manager Directory Structure
- ✓ Configuring, Starting, and Stopping Node Managers
- ✓ Describing How to Start and Stop Procedures

## 9. Viewing and Managing Logs in Oracle WLS Environment:

- ✓ Defining and Configuring Server and Domain Logs
- ✓ Viewing and Interpreting the Format of Domain and Server Log Files Using the Administration Console
- ✓ Configuring Server Standard Output Settings Using the Console
- ✓ Describing How Applications Can Integrate With WLS Logging Infrastructure (Apache commons, log4j)
- ✓ Accessing Online Log Message Catalogs
- ✓ Creating and Applying a Log Filter Using the Console
- ✓ Configuring Log Filter Expressions

# Oracle Weblogic Server12c Admin

Mail:- [info@premieronlinetrainings.com](mailto:info@premieronlinetrainings.com)

Contact:- +91 9000774266

---

## 10. Deployment Concepts:

- ✓ Contrasting Autodeploy With Manual Deployment
- ✓ Configuring and Deploying Web Applications Via the Administration Console, Command Line, and WLST
- ✓ Configuring Deployment Descriptors
- ✓ Testing Deployed Applications
- ✓ Describing the Role of Web Servers
- ✓ Tracing a Typical Web Interaction Flow
- ✓ Contrasting Static and Dynamic Content and Deployment
- ✓ Front-end Deployed Applications with a Web Server

## 11. Advanced Deployment:

- ✓ Configuring an Application for Multiple Development Environments
- ✓ Creating a Deployment Plan
- ✓ Staging a Deployment Plan
- ✓ Using Production Redeployment

## 12. Understanding JDBC and Configuring Data Sources:

- ✓ Configuring JDBC and JDBC Data Sources
- ✓ Configuring Data Source Scope
- ✓ Contrasting Two-tier and Multi-tier JDBC Architecture
- ✓ Configuring a Connection Pool
- ✓ Describing How Data Sources are Used
- ✓ Deploying JDBC Resources to a Target
- ✓ Explaining the Components of JDBC URLs
- ✓ Monitoring and Testing a Data Source

## 13. Setting Up Java Message Service (JMS) Resources:

- ✓ Describing JMS
- ✓ Describing How Oracle WebLogic Server JMS is Implemented
- ✓ Configuring JMS Server
- ✓ Configuring Connection Factories
- ✓ Configuring Queues and Topics
- ✓ Configuring Persistent Messages
- ✓ Deploying an Application that Uses JMS
- ✓ Monitoring JMS Resources and Messages

# Oracle Weblogic Server12c Admin

Mail:- [info@premieronlinetrainings.com](mailto:info@premieronlinetrainings.com)

Contact:- +91 9000774266

---

## 14. Transactions

- ✓ Describing the Weblogic server Transaction Architecture
- ✓ Configuring a Database as the Persistent Store for Weblogic Server Transactions

## 15. Java Messaging Services

- ✓ Creating and configuring a Weblogic JMS Servers
- ✓ Creating and configuring the System Modules, Queues and Topics
- ✓ Monitoring JMS Servers and Destinations

## 16. Introduction to Clustering

- ✓ The Benefits of Oracle WebLogic Cluster
- ✓ Basic Cluster Architecture
- ✓ Multitier Cluster Architecture
- ✓ Communication Among Clustered Server Instances
- ✓ The Key Criteria for Selecting Suitable Cluster Architecture

## 17. Configuring a Cluster:

- ✓ Preparing Your Environment for a Cluster
- ✓ Creating and Configuring a Cluster
- ✓ Adding Servers to a Cluster
- ✓ Starting Up and Shutting Down Clustered Servers.

## 18. Security Concepts and Configuration:

- ✓ Using the WebLogic Server (WLS) Security Architecture
- ✓ Configuring Security Realms
- ✓ Configuring Users and Groups
- ✓ Configuring Roles
- ✓ Configuring Policies
- ✓ Configuring Protection for Web Application Resources and EJBs

## 19. Upgrade 10.3.6 to 12.2.1

- ✓ Check Your Applications (Undeploy If Necessary)
- ✓ Shut Down Servers in the Application Environment
- ✓ Back Up the Application Environment
- ✓ Install Required Oracle Products
- ✓ Set Up the Environment

## 20. WebLogic Cloning (Software & Domains)

- ✓ Source environment to prepare and copy it to the target environment.
- ✓ Target environment deployment
- ✓ Domains Deployment
- ✓ Configure domains
- ✓ Change passwords
- ✓ Set up data sources
- ✓ Start managed servers

## 21. Patching Weblogic Server

- ✓ Applying a Patch to Weblogic Server Using Opatch

## 22. Trouble Shooting & Performance Tuning:

- ✓ Basic Tuning Methodology
- ✓ Areas to Tune
- ✓ Tuning Hardware
- ✓ Tune the Operating System
- ✓ Tune the JVM
- ✓ JVM Choices
- ✓ Tuning WebLogic Server
- ✓ JDBC Settings
- ✓ Thread Settings

## 23. Java Memory Management:

- ✓ Java Heap Space
- ✓ Heap Size Limits
- ✓ Default Size Limits
- ✓ Free Space Threshold
- ✓ Garbage Collection Mechanism