# Oracle WebLogic Server 14c: Administration I

**Duration: 5 Days**

**Course Description:**

This Oracle WebLogic Server 14c: Administration I training teaches you how to install and configure Oracle WebLogic Server 14c. It gives administrators an overview of the basic concepts and architecture of WebLogic Server.

**Course Objectives:**

Upon completion of this course, the student should be able to:

- Install WebLogic Server 14c
- Create a WebLogic Server domain
- Create and configure a WebLogic Server cluster
- Backup and restore a WebLogic Server domain
- Configure WebLogic Server's authentication provider
- Deploy applications to WebLogic Server
- Configure and monitor WebLogic Server with WebLogic Admin Console
- Configure WebLogic Server database resources

**Prerequisite:**

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

**Course Outlines:**

Oracle WebLogic Server 14c: Administration I: Course Overview
- ➢ Oracle WebLogic Server 14c: Administration I: Course Overview

WebLogic Server: Overview
- ➢ WebLogic Server: Overview
- ➢ WebLogic Server Domain
- ➢ WebLogic Diagnostics Framework

Installing and Patching WebLogic Server
- ➢ Installing and Patching WebLogic Server
- ➢ WebLogic Server Installation Modes
- ➢ Installation Problems
- ➢ Practice 3-1: Installing WebLogic Server (Part I)
- ➢ Practice 3-1: Installing WebLogic Server (Part II)
- ➢ Practice 3-2: Patching WebLogic Server

Creating Domains
- ➢ Creating Domains
- ➢ Domain Mode: Production
- ➢ Creating a Domain with the Configuration Wizard
- ➢ Weblogic Server Domain Structure and Management
- ➢ Practice 4-1: Creating a New Domain
- ➢ Practice 4-2: Copying a Domain to a New Machine

Starting Servers
- ➢ Starting Servers
- ➢ Creating a Boot Identity File
- ➢ Changing Default JDK Location
- ➢ Practice 5-1: Starting and Stopping Servers (Part I)
- ➢ Practice 5-1: Starting and Stopping Servers (Part II)

Using the Administration Console
- ➢ Using the Administration Console
- ➢ Creating a Resource Example: New Server
- ➢ Practice 6-1: Using the Administration Console for Configuration

Configuring JDBC
- ➢ Configuring JDBC
- ➢ Deployment of a Data Source
- ➢ Creating a Generic Data Source
- ➢ Oracle Real Application Clusters: Overview
- ➢ Practice 7-1: Configuring a JDBC Data Source

Monitoring a Domain
- ➢ Monitoring a Domain
- ➢ Accessing the Logs from the Admin Console
- ➢ Debug Scopes: Examples
- ➢ Creating a Custom View
- ➢ Practice 8-1: Working with WebLogic Server Logs
- ➢ Practice 8-2: Monitoring WebLogic Server (Part I)
- ➢ Practice 8-2: Monitoring WebLogic Server (Part II)

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**Node Manager**
- Node Manager
- Node Manager and Server Shutdown
- Other Node Manager Properties
- Practice 9-1: Configuring and Using Node Manager

**Deploying Applications**
- Deploying Applications
- Exploded Versus Archived Applications
- Deploying an Application
- Monitoring Deployed Applications: Monitoring Dashboard
- Deploying an Application
- Load Testing an Application

**Shared Java EE Libraries**
- Shared Java EE Libraries
- Deploying a Shared Library
- Practice 11-1: Configuring and Deploying a Shared Library (Part I)
- Practice 11-1: Configuring and Deploying a Shared Library (Part II)

**Network Channels and Virtual Hosts**
- Network Channels and Virtual Hosts
- Channel Selection
- Virtual Host
- Practice 12-1: Configuring a Network Channel
- Practice 12-2: Configuring the Administration Port
- Practice 12-3: Creating a Virtual Host

**Clusters: Overview, Creation, and Configuration**
- Clusters: Overview, Creation, and Configuration
- Creating a Cluster: Administration Console
- Editing the New Dynamic Cluster
- Practice 13-1: Configuring a Cluster
- Practice 13-2: Configuring a Dynamic Cluster

**Clusters: Proxies and Sessions**
- Clusters: Proxies and Sessions
- mod_wl_ohs.conf
- Oracle Traffic Director
- Configuring Web Application SessionFailover: weblogic.xml

- Secondary Server and Replication Groups
- Practice 14-1: Installing OHS (Optional) (Part I)
- Practice 14-1: Installing OHS (Optional) (Part II)
- Practice 14-2: Configuring a Cluster Proxy (Part I)
- Practice 14-2: Configuring a Cluster Proxy (Part II)
- Practice 14-3: Configuring Replication Groups (optional)

**Clusters: Communication, Planning, and Troubleshooting**
- Clusters: Communication, Planning, and Troubleshooting
- Configuring Replication Channels
- Troubleshooting a Cluster
- Practice 15-1: Configuring a Cluster Broadcast Channel

**Transactions**
- Transactions
- Transaction States when Rolling Back
- JDBC Reminder
- Practice 16-1: Configuring Transaction Persistence (Part I)
- Practice 16-1: Configuring Transaction Persistence (Part II)

**WebLogic Server Security**
- WebLogic Server Security
- What the Providers Do
- LDAP Search Operations
- Multiple Authentication Providers
- Practice 17-1: Configuring an Authentication Provider (Part I)
- Practice 17-1: Configuring an Authentication Provider (Part II)

**Backing Up a Domain and Upgrading WebLogic Server**
- Backing Up a Domain and Upgrading WebLogic Server
- Impact of Administration Server Failure
- Practice 18-1: Backing Up and Restoring a Domain

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