

# Oracle WebLogic Server 11g: Administration Essentials

**CODICE**

D58682GC20

**DURATA**

5 Giorni

**PREZZO**

2.500,00€ (iva escl.)

**LINGUA**

Italiano

**MODALITÀ**

Virtual Classroom  
Corso in aula

**SCHEDULAZIONE**

- A Richiesta

**PREREQUISITI****Prerequisiti:**

- Amministratore Web

**Prerequisiti obbligatori:**

- Basic TCP/IP networking knowledge of client/server concepts
- Basic Linux commands and desktop navigation

**Prerequisiti suggeriti :**

- Basic Java EE concepts and constructs including Servlet, JSP

**Recommended Related Training Courses:***Oracle WebLogic Server 11g: Advanced Administration*

This WebLogic Server 11g training teaches experienced WebLogic Server administrators advanced techniques to manage, monitor, troubleshoot & optimize application server environments. Learn to use advanced messaging, security & clustering features.

*Oracle SOA Suite 11g: Essential Concepts*

This SOA Suite 11g training introduces you to fundamental information and technical understanding of SOA concepts and Oracle

SOA Suite product. Learn how composite applications are built and managed on the Oracle SOA platform.

#### *Oracle WebLogic Portal 10g R3: System Administration*

This Oracle WebLogic Portal 10g R3: System Administration training teaches system administrators to configure & manage applications built with Oracle WebLogic Portal 10g R3. Learn how to stage & tune portal applications & their relational data & more.

#### *Oracle WebLogic Server 11g: Monitor and Tune Performance*

This Oracle WebLogic Server 11g: Monitor and Tune Performance training teaches Oracle WebLogic Server administrators and architects to tune various subsystems of Oracle WebLogic Server for optimal performance. Monitor & perform load tests to evaluate performance.

#### *Oracle Service Bus 10g R3: System Administration*

This course trains experienced Oracle WebLogic Server 10 system administrators on the management and maintenance of services hosted through Oracle Service Bus 10gR3. OSB enables the integration of services that support a variety of different protocols, security policies, and service level agreements.

#### *Oracle WebLogic Server 11g: Diagnostics and Troubleshooting*

This Oracle WebLogic Server 11g: Diagnostics and Troubleshooting training teaches experienced Oracle WebLogic Server administrators the methodologies and tools to troubleshoot common technical issues. Learn to identify the symptoms & causes of typical problems.

## **OBIETTIVI**

- Monitor application server using GUI and command-line tools such as automation scripts
- Describe the architecture of WebLogic Server including domains, servers and machines
- Install, configure and use WebLogic Server
- Perform routine Oracle WebLogic Server administration functions
- Set up a cluster of servers and distribute applications and resources to the cluster
- Configure Oracle HTTP Server as the Web-tier front end for Oracle WebLogic Server instances and clusters
- Deploy different types of Java EE applications to Oracle WebLogic Server
- Deploy and manage large-scale Java EE applications to servers or clusters through the entire development and production lifecycle
- Configure basic resource and application security
- Backup and recover from various failures

## **CONTENUTI**

### **Introducing Oracle Fusion Middleware Platform**

Describing the Oracle Fusion Middleware Environment  
Describing How WebLogic Server Supports Various Fusion Middleware Suites  
Describing How Various Fusion Middleware Suites Augment the Functions of WebLogic Server

### **Defining Java Enterprise Edition Terminology and Architecture**

Explaining the Motivation Behind Distributed Systems  
The Major Components of the Java Platform Enterprise Edition 5 (Java EE) Specification

### **Installing Oracle WebLogic Server**

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

### **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

### **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  
Explaining the Domain Templates Provided for Setting up JDeveloper, SOA, and WebCenter

### **Using Administration Console and WLST**

Identifying Dynamic and Nondynamic 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

### **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)

### **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

### **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

### **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

### **Deploying Java EE Applications**

Describing Java EE Web Applications

Describing Enterprise Deployment Architectures

Packaging Web Applications in Several Forms

Defining Web Application Structure and Web Application Archive

Explaining Why WebLogic Augments Standard Java EE Deployment Descriptors With weblogic\*.xml Files

Looking at Deployment Descriptors web.xml and weblogic.xml

Describing URLs and Web Applications

### **Advanced Deployment**

Configuring an Application for Multiple Development Environments

Creating a Deployment Plan

Staging a Deployment Plan

Using Production Redeployment

### **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

### **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

### **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

### **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

### **Managing Clusters**

Deploying Applications to a Cluster

Describing the Replication of a Session State in a Cluster

Configuring Replication Groups

Configuring In-memory Replication

Configuring Java Database Connectivity (JDBC) Replication

Configuring File Replication

Configuring a Multitier Cluster for Enterprise JavaBeans (EJB) Applications

### **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

### **Protecting Against Attacks**

Describing the Process of Configuring Secure Sockets Layer (SSL)

Using the Keytool Utility to Configure Keys and Obtain Digital Certificates

Configuring SSL for the WLS Server

Configuring Countermeasures for Some Web-based Attacks

### **Backup and Recovery Operations**

Recommending a Backup and Recovery Strategy

Performing a Full Offline Backup and Recovery

Performing an Online and Offline Domain Backup

Performing an Offline Domain Recovery

Performing an Instance Home Backup and Recovery

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