

## ORACLE WEBLOGIC:

WebLogic servers are called middleware or application servers. They are called so as they act as a middle layer between the front end user interface and the backend database.

WebLogic servers host the applications or the business logic required to perform any action. For example, when you click a button on webpage, the request goes from your browser to the WebLogic server, the application deployed decides what action is to be taken for the request, queries database and gives the response on your screen.

WebLogic servers are owned by Oracle. Its rivals are JBoss servers by RedHat and WebSphere by IBM.

Oracle WebLogic Server is a Java EE application server currently developed by Oracle Corporation. Oracle acquired WebLogic Server when it purchased BEA Systems in 2008.

## Components:

- Enterprise Grid Messaging
- JMS Messaging Standard
- JRockit
- Oracle Coherence, in-memory caching of frequently used data across multiple servers
- Oracle Top Link
- Oracle WebLogic Server Web Services
- Tuxedo

## WebLogic Express

BEA WebLogic Express™ is a scalable platform that serves dynamic content and data to Web and wireless applications. WebLogic Express incorporates the presentation and database access services from WebLogic Server, enabling developers to create interactive and transactional e-business applications quickly and to provide presentation services for existing applications.

### Course Content:

#### JAVA ENTERPRISE EDITION (JEE) ARCHITECTURE

#### INSTALLING ORACLE WEBLOGIC SERVER:

- Installation Options
- Graphical User Interface (GUI) Installation
- Command Line Installation
- WebLogic Server Directory Structure

#### DOMAIN CONFIGURATION:

- Understanding Web Logic Domains
- Administration Servers and Managed Servers
- Creating and Configuring Domains

- The Domain Directory Structure

## ADMINISTRATION TOOLS:

- Utilising the Administration Console
- Using WLST to Navigate the Domain Structure

## MANAGED SERVERS:

- Configuring Managed Servers
- Starting and Stopping Managed Servers or Domains
- Configuring Managed Servers Remotely
- Explaining Administration and Managed Server Independence (MSI)

## BACKUP AND RECOVERY:

- Backup and Recovery Strategy
- Full Offline Backup and Recovery
- Online and Offline Domain Backup
- Offline Domain Recovery
- Instance Home Backup and Recovery

## DEPLOYING WEB APPLICATIONS:

- Auto deployment
- Manual Deployment
- Deployment Using Administration Console
- Deployment Using Command Line
- WLST Web Application Deployment
- Application Testing

## JDBC AND DATA SOURCES:

- Understanding JDBC and Data Sources
- Configuring JDBC and Data Sources
- Using Connection Pools
- Deploying JDBC Resources
- Monitoring and Testing

## UTILISING NODE MANAGERS:

- Node Manager Architecture
- Node Manager Directory Structure

- Understanding Machines
- Utilising Node Managers
- Start and Stop Procedures

## LOG MANAGEMENT:

- Log Monitoring
- Administration Console Log Management
- Integrating Application Logging
- Log Filtering
- Log Filter Expressions

## CLUSTERING BASICS:

- Clustering Benefits
- Basic and Multitier Cluster Architecture
- Communication Between Clustered Server Instances

## CLUSTER CONFIGURATION:

- Preparing for, Create and Configure a Cluster
- Extending a Cluster

- Controlling Clustered Servers
- Deploying Applications to a Cluster

### **SECURITY ARCHITECTURE:**

- WebLogic Server Security Architecture
- Security Realms
- Users and Groups

### **SECURING THE WEB INTERFACE:**

- Keys and Digital Certificates with the Key tool
- Configuring SSL for Web Logic Server
- Steps to Prevent Web-based

### **JAVA MESSAGE SERVICE (JMS) SETUP:**

- Describe and Configure JMS
- Connection Factories, Queues and Topics
- Using Persistent Messages
- JMS Monitoring



+1302-207-0005  
[info@uiskills.com](mailto:info@uiskills.com)

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- Interview preparation with mock interview drills
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## Reach us:

Call : +1 302-207-0005

Email ID: [info@uiskills.com](mailto:info@uiskills.com)

Website: [www.uiskills.com](http://www.uiskills.com)

