

ORACLE WEBLOGIC SERVER 11g ENTERPRISE EDITION

KEY FEATURES AND BENEFITS

THE INDUSTRY'S LEADING
JAVA APPLICATION SERVER

FEATURES

- High performance clustering and failover capabilities
- Oracle Fusion Middleware Real Operations Insight
- Oracle GridLink for RAC
- FastSwap iterative development
- Oracle TopLink ORM persistence
- JDeveloper and Eclipse tooling
- Oracle Enterprise Grid Messaging - JMS messaging system & Oracle AQ

BENEFITS

- End users experience "always on" applications & services
- Comprehensive, low-overhead application monitoring and deep diagnostics
- Integration with Oracle RAC for highest levels of application availability
- Rapid development of applications without lost time due to system restarts
- The industry standard for data access
- Comprehensive tooling simplifies development, speeds new application delivery
- Standardize on WebLogic Server messaging throughout the enterprise – fast, reliable and built right in.

Oracle WebLogic Server Enterprise Edition is the application server of choice for modern data centers. It takes full advantage of the latest hardware architectures including 64-bit addressable memory, multi-core computing systems and high-speed networks. It includes all the features and benefits of Oracle WebLogic Server Standard Edition plus proven clustering technology, multi-domain management, and diagnostic tooling. Enterprise IT teams can now consolidate and standardize applications and services onto a pool of highly available, fast, and easy-to-manage instances of Oracle WebLogic Server to gain more agility, efficiency, and business alignment.

Product Overview

When your business cannot afford to have applications fail or have services become unexpectedly inaccessible, Oracle WebLogic Server Enterprise Edition is the clear choice, with high availability and superior monitoring and management capabilities. Adding highly tuned server clustering to Oracle WebLogic Server Standard Edition, the Enterprise Edition helps enable IT infrastructure that keeps running even as load on the system fluctuates. To ensure superior application performance, unmatched deep diagnostics capabilities can be used on production systems without affecting runtime performance. These and other features of Oracle WebLogic Server Enterprise Edition are engineered to support modern data centers with maximum uptime at minimum cost.

High Availability

Easy configuration changes, incremental update (FastSwap), and rolling upgrades are just a few of the capabilities that help keep systems available even while making changes. Sophisticated yet easily managed is another hallmark of Oracle WebLogic Server Enterprise Edition. Clustering instances of Oracle WebLogic Server together enables many capabilities that kick in when a server abruptly goes offline. Features such as whole-server migration, automatic service migration, and the transaction recovery service are invoked when server health degenerates. Built-in software load balancing, server self-monitoring, and overload protection help avoid failure altogether. If necessary, Oracle WebLogic Server Enterprise Edition can failover across metropolitan area networks (MANs) and wide area networks (WANs) in support of disaster recovery procedures. And supporting active-active application deployments, Oracle GridLink for Oracle Real Application Clusters (RAC) adds advanced new capabilities to integrate Oracle RAC with Oracle WebLogic Server Enterprise Edition. Active-active deployments offer the highest levels of application availability.

Enterprise-wide system messaging

Reliable messaging between systems is critical for applications and modern data centers. Oracle Enterprise Grid Messaging builds on the Java Message Service (JMS) standard to include high performance and reliability as well as connectivity to non-Java clients such as C#.NET. Advanced features include automatic migration of JMS-related services from a failing server to a healthy server, reliable messaging via store-and-forward, and unsurpassed performance when persisting messages to disk. Further, JMS now interacts with Oracle's database-integrated messaging via Oracle Streams Advanced Queuing (AQ). When coupled with Oracle RAC, Oracle AQ offers even higher levels of messaging performance.

Monitoring and Management

The Oracle WebLogic Server Administration Console is the starting point for essential operations, administration, and management. It enables simplified access to all the functions of Oracle WebLogic Server and includes built-in intelligence to help prevent human configuration errors. For those averse to graphical user interface (GUI) tools, Oracle WebLogic Scripting Tool (WLST) enables command-line control over Oracle WebLogic Server. Oracle Fusion Middleware Real Operations Insight augments the Console to further monitor and manage Oracle WebLogic Server Enterprise Edition. The included Enterprise Manager Diagnostics Pack for Oracle Middleware improves availability and performance while providing in-depth diagnostics for Java applications with low overhead. It enables administrators to monitor application performance and learn about problems ahead of time. Administrators can diagnose the root cause of problems such as application crashing and application hanging in production environments, which may impact businesses severely. In addition, the Composite Application Manager delivers sophisticated composite application performance management. This is particularly useful when deploying services in support of service-oriented architecture (SOA).

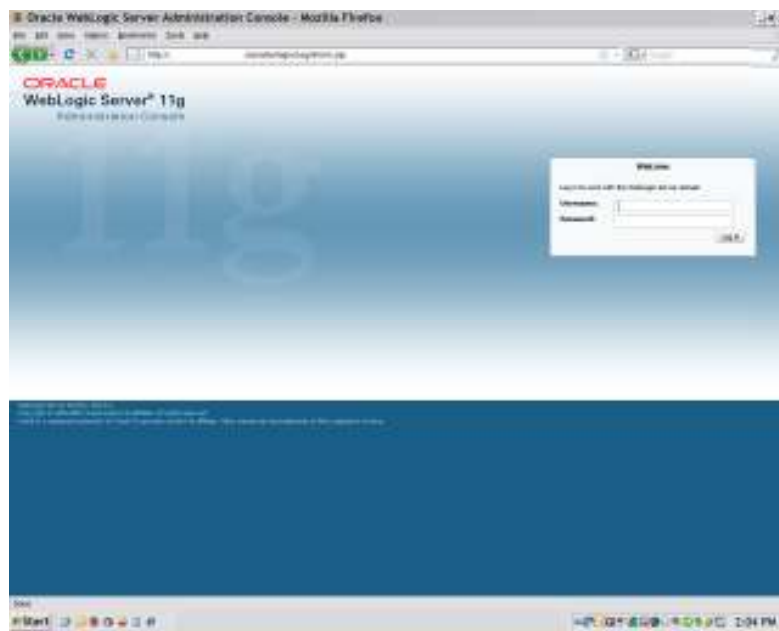


Figure 1. Oracle WebLogic Server 11g Administration Console login screen.

Rich Enterprise Applications

Many customers are deploying Rich Enterprise Applications (REAs) that combine the best of Web applications and traditional desktop applications. Asynchronous JavaScript and XML (AJAX) is a popular technology that helps enable client applications requiring a high degree of usability and fidelity. On the server end, Oracle WebLogic Server Enterprise Edition includes Oracle WebCache and an HTTP publish-and-subscribe server that can communicate with REAs asynchronously. This enables information updates to be pushed from the server to the client without the user needing to refresh their browser or Web application. Oracle WebCache optimizes and compresses HTML and XML traffic for radical performance gains even over low bandwidth networks. Streaming data can be lifted from the high-performance Java Message Service (JMS) messaging queue on the server and sent to a client web application via HTML over HTTP, with the resulting user experience being similar to, or even better than, that of a desktop application—but without the desktop application installation and updating concerns and without adversely affecting network performance.

Tooling

Building services, applications or REA's has never been better. Oracle WebLogic Server supports the comprehensive Oracle JDeveloper integrated development environment (IDE) which supports a declarative, model-driven development process. Build more rapidly and enable business users the ability to modify deployed applications to suit their needs. Also supported is the Oracle Enterprise Pack for Eclipse. Developers can choose to use their preferred tool and access the vast number of available Eclipse plug-ins.

Oracle TopLink provides object-relational mapping (ORM) capabilities in WebLogic Server Enterprise Edition. Converting information stored in databases such that it is consumable by Java applications is essential to most enterprise applications. TopLink offers both data integrity and high performance, ensuring data remains reliable.

Simplified Development Features and Benefits	
Java EE 5/EJB 3.0	Features latest specification with focus on ease of development—a major overhaul of EJB technology
FastSwap	Reduces time spent during the develop-deploy-debug cycle for more efficient application development
Oracle TopLink / JPA	Provides streamlined method of storing and retrieving important objects to data stores
Oracle JDeveloper & Oracle Application Development Framework (ADF)	Leverages the premier development tool and framework for Oracle Fusion Middleware
Spring Framework	Develop applications using the open-source Spring Framework. Easily manage Spring applications via the Spring administration console extension.
Web Services standards	Fundamental technologies in support of SOA. Interoperable with .NET
Open Source choice	Provides developers with options, including Struts, the Spring Framework, and other open-source projects, to meet their needs

RELATED PRODUCTS

Oracle WebLogic Server is the Java application server for application grid; a flexible IT approach that leverages pooling, sharing, and dynamic adjustment of resources at the application infrastructure level, resulting in efficiency gains and superior performance and scalability. Other Oracle Fusion Middleware offerings come together to form a complete and integrated set of capabilities to meet various business scenarios.

RELATED PRODUCTS

Extend Oracle WebLogic Server Enterprise Edition with the following:

- Oracle Coherence Enterprise Edition/Grid Edition
- Oracle WebCenter Suite
- Oracle BPM Suite

Oracle Enterprise Pack for Eclipse	Oracle-supported Eclipse plug-ins for Oracle WebLogic Server – access other Eclipse community tools, plug-ins, and products for project-specific requirements
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Supported Platforms

Note that Oracle WebLogic Server Enterprise Edition offers comprehensive application connectivity to various databases using Java Database Connectivity (JDBC) drivers.

For specific supported platforms and configuration detail, refer to the following documentation hub: oracle.com/technology/documentation/index.html.

Supported Platforms	
Software	
Operating system (32-bit and 64-bit supported)	<ul style="list-style-type: none"> • AIX • HP-UX • Linux • Solaris • Windows
Databases	<ul style="list-style-type: none"> • Oracle (and Oracle Real Application Clusters) • IBM DB2 • Microsoft SQL Server • MySQL • Sybase
Web Servers	<ul style="list-style-type: none"> • Apache • Microsoft IIS • Oracle HTTP Server • Sun Java System Web Server
Java	<ul style="list-style-type: none"> • Java Platform, Standard Edition 6 • Java Platform, Enterprise Edition 5

Contact Us

For more information about Oracle WebLogic Server Enterprise Edition, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.



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