

## features at a glance

- Facilitates rapid development and deployment of applications in a J2EE environment
- Features a built-in Web server and full support for Web services
- Leverages HP NonStop system advantages transparently to application code, providing the ultimate in reliability, scalability, and data integrity
- Enables massive scalability with very large operational data stores, supporting up to 4,080 processors with a single database image
- Interoperates with WebLogic products on other platforms and with existing NonStop software assets
- Ensures that no single failure will cause application outages
- Provides massive parallelism without nonstandard coding
- A flexible and comprehensive high-end development and deployment environment with standards-based and interoperable technology
- Offers WebLogic Server users a wider choice of platforms for large complex real-time computing and mission-critical solutions
- WebLogic applications can be deployed easily on NonStop servers, where they inherit mainframe-like qualities

## BEA WebLogic Server software on hp NonStop servers

BEA WebLogic Server software is a comprehensive, integrated solution for building, deploying, and extending enterprise applications. WebLogic Server on HP NonStop servers provides an application environment that was previously available only on mainframe-class servers. This new platform provides greater development, deployment, and management flexibility—all at a lower total cost of ownership (TCO).

BEA WebLogic Server—the industry's leading Web and wireless application server—powers many of the world's most sophisticated e-business infrastructures. Running on the NonStop server platform, WebLogic Server enables e-businesses to bring together new applications and existing software assets in a way that is reliable, massively scalable, adaptive, simple, easily managed, and cost-effective.

Whether supporting a variety of client devices, hosting complex transactional business logic or enterprise Web services, or integrating with heterogeneous back-end systems, WebLogic Server delivers the performance, scalability, reliability, and security required to develop, deploy, and manage mission-critical applications.

### rapid development; broad deployment options

Speed time to market by leveraging certified Java Platform 2, Enterprise Edition (J2EE) and Web services application programming interfaces (APIs) in a single platform. These open standards, combined with a broad range of integrated development tools, simplify development, leverage existing skills, and get applications deployed quickly.

When running on NonStop servers, WebLogic Server utilizes the NonStop server infrastructure, including the HP NonStop Kernel operating system Release Version Update G06.20 or later, and HP NonStop Transaction Management Facility (NonStop TMF), Parallel TCP/IP, NonStop Server for Java (Java Virtual Machine), and NonStop SQL/MX software, to maximize fault tolerance and massive scale, while ensuring compatibility with other WebLogic Server environments.

## high performance, scalability, and availability

Built on a highly scalable, clustered architecture, WebLogic Server delivers load balancing, connection pooling, caching, and optimized communications with Web server, operating system, virtual machine and database, and fast-parsing technology. By leveraging the most battle-tested platform on the market, enterprises can deploy mission-critical e-business applications to WebLogic Server with confidence. Renowned for high-end, mission-critical deployments, NonStop servers running WebLogic Server provide mainframe class of service at the lowest TCO for Web, business logic, and database tiers.

## enterprise web services support

Built on the J2EE infrastructure, WebLogic Server provides full support for Web services, shielding developers from the need for expertise in XML, Simple Object Access Protocol (SOAP), or Web Service Definition Language (WSDL), while providing the robustness of the J2EE infrastructure.

## WebLogic Server as part of the enterprise application architecture

WebLogic Server provides a proven foundation for enterprise applications and offers the presentation, business and information-access logic, security and management services, and an integrated development environment to provide the underlying infrastructure required for large user loads and mission-critical availability.

It also supports a broad variety of clients, including Web browsers, wireless devices, and programmatic clients. On the server, WebLogic Server supports the leading

UNIX®, Linux, Windows, and mainframe operating systems. On the back end, WebLogic Server integrates with relational databases, message queues, and legacy systems.

Figure 1 shows BEA WebLogic Server's placement in the Enterprise Application Architecture. When WebLogic Server is deployed on NonStop servers, the middle tier and the back end can be closely coupled, so connectivity is managed within system boundaries, and applications run close to the data. These combined layers provide better performance, along with the ultimate in reliability, scalability, data integrity, and manageability.

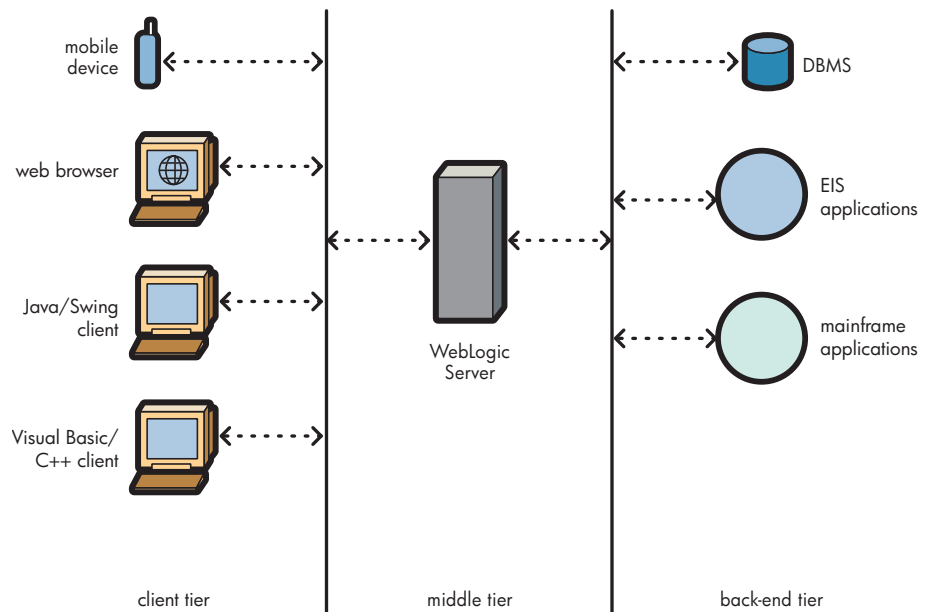


Figure 1. WebLogic Server in the Enterprise Application Architecture.

**web server**

WebLogic Server includes a high-performance Web server for hosting static content and dynamic J2EE Web applications. J2EE Web applications are a collection of HTML/XML pages, Java ServerPages (JSP), servlets, Java classes, applets, images, multimedia files, and other file types. The Web server delivers the highest levels of performance and availability by fully leveraging page caching, load balancing, and session-state management—all managed through the Web-based extensible WebLogic Administration Console. WebLogic Server is also integrated with Apache, Microsoft Internet Information Services (IIS), or Netscape Web servers with native plug-ins, providing caching, load balancing, and takeover capabilities in multi-tier environments.

A WebLogic Server plug-in is planned for a future release of HP iTP WebServer software, which will enable iTP WebServer software to be used as the Web server for WebLogic Server. This is particularly beneficial for customers that are already using iTP WebServer software as the preferred Web server on NonStop servers, and will further enhance the scalability and reliability of WebLogic Server on NonStop servers over the hybrid approach.

**WebLogic Server certified J2EE-compliant services**

WebLogic Server implements the J2EE platform specification that includes servlets, JSPs, Enterprise JavaBeans (EJBs), and Java Message Service (JMS). J2EE services provide access to standard network protocols, database, and messaging

systems. When developing applications, developers can create, assemble, and deploy components that leverage these services.

Web components provide the presentation logic for Web-based or wireless applications, while EJB components encapsulate business objects and processes. Components run on J2EE application services, such as Java Database Connectivity (JDBC), JMS, and Java Transaction API (JTA), and are executed in either the Web or EJB container. Containers provide the life-cycle support and services defined by the J2EE specifications, so developers don't have to be concerned with transaction, security, database connectivity, and other underlying system infrastructure details.

In addition to directly leveraging the J2EE services and components, users can develop enterprise applications using WebLogic WorkShop and WebLogic Server's Web services framework that is built on the J2EE infrastructure. High-productivity development, packaging, and deployment utilities are provided to simplify and speed the development and deployment process.

Figure 2 illustrates WebLogic Server component containers and J2EE application services. On NonStop servers, these containers and services are implemented in multiple process instances on NonStop Server for Java 3.1 software.

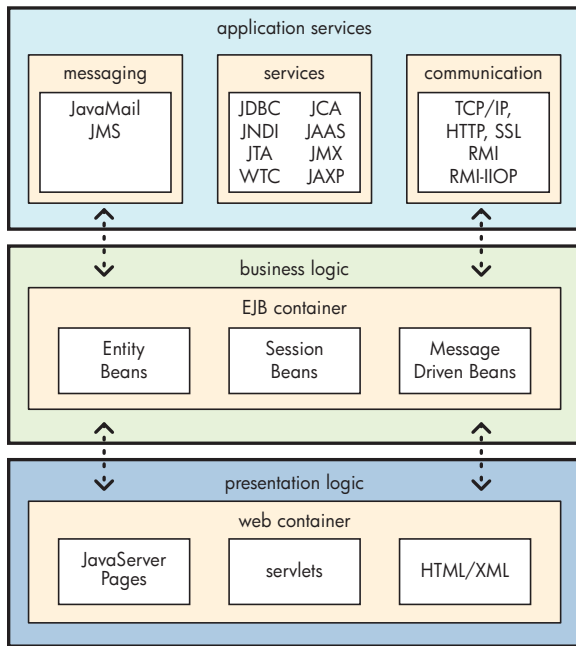


Figure 2. WebLogic Server component containers and J2EE application services.

## BEA WebLogic web services

Web services are ushering in a new age of applications by making them accessible to each other using standard Internet protocols. Web services provide “black-box” functionality offered between loosely coupled applications over the Internet or intranet networks. Universal Description, Discovery and Integration (UDDI) provides a mechanism for locating services on the Web, while WSDL defines the functionality offered and describes how to interact with a Web service.

WebLogic Server delivers a comprehensive set of features for developers to build, expose, and access Web services. Additionally, WebLogic Server includes the ability to host a UDDI registry for publishing your Web services and a graphical utility for searching and modifying UDDI registries.

WebLogic Server leverages NonStop Kernel, NonStop SQL/MX, NonStop TMF, and NonStop Server for Java software to provide the highest level of scalability, reliability, availability, and security. It also provides a set of utilities and features that helps developers build, package, and deploy powerful enterprise-class Web services. WebLogic Workshop can be used to expose WebLogic Server components and NonStop Tuxedo applications on NonStop servers as Web services. For more information on WebLogic Workshop, see <http://www.bea.com/framework.jsp?CNT=index.htm&FP=/content/products/workshop>.



## enterprise messaging technologies

The Internet is defined by distributed, loosely coupled computing systems. Whether it is a customer placing a bid or businesses communicating with other businesses, there is a constant flow of data and events passing between applications. To accomplish this interchange, systems need a highly reliable means for communicating between asynchronous, heterogeneous resources. WebLogic Server delivers a powerful, flexible, and tightly integrated messaging platform based on J2EE JMS to serve as the backbone for enterprise messaging systems.

The power of WebLogic JMS comes from its integration with WebLogic Server clustering; the ability to perform database, file, or in-memory persistence; and asynchronous message delivery. Its high availability is based on distributed and fault-tolerant message factories and destinations. Its flexibility gives developers the option to do publish/subscribe or point-to-point messaging, and it supports either Multicast or TCP/IP transport protocols. In addition, because it is integrated with the core platform services, WebLogic JMS can directly access all of the WebLogic Server services, such as Message Driven Beans, needed to fully leverage a message-based architecture.

WebLogic JMS on NonStop servers is a part of the WebLogic Server implementation and can be used to send and receive messages between heterogeneous platforms and invoke Message Driven



Beans in WebLogic Server on the NonStop platform. A WebLogic Server plug-in is planned for a future release of WebLogic JMS, which will enable WebLogic Server to transparently interoperate with NonStop JMS software, including support for Message Driven Beans.

## system management and monitoring

Now more than ever, companies are deploying e-business systems that must be up and available 100 percent of the time. When a system is down, opportunities are lost. To maintain these systems, administrators need the proper tools to start and stop servers, select and monitor the configuration of resources, detect and correct problems, monitor and evaluate system performance, and deploy Web applications, EJB, Web services, or other resources.

WebLogic Server provides a powerful and extensible Web-based Administration Console that provides system administrators with the tools they need to deploy, configure, and monitor their applications. The Administration Service, an implementation of the Java Management Extension (JMX) standard, provides the facilities for managing WebLogic Server resources. Through the Administration Console, administrators can configure attributes of resources, deploy applications or components, monitor resource usage (such as server load, Java Virtual Machine [JVM] memory usage, or database connection pool load), view log messages, shutdown servers, or perform other management actions.

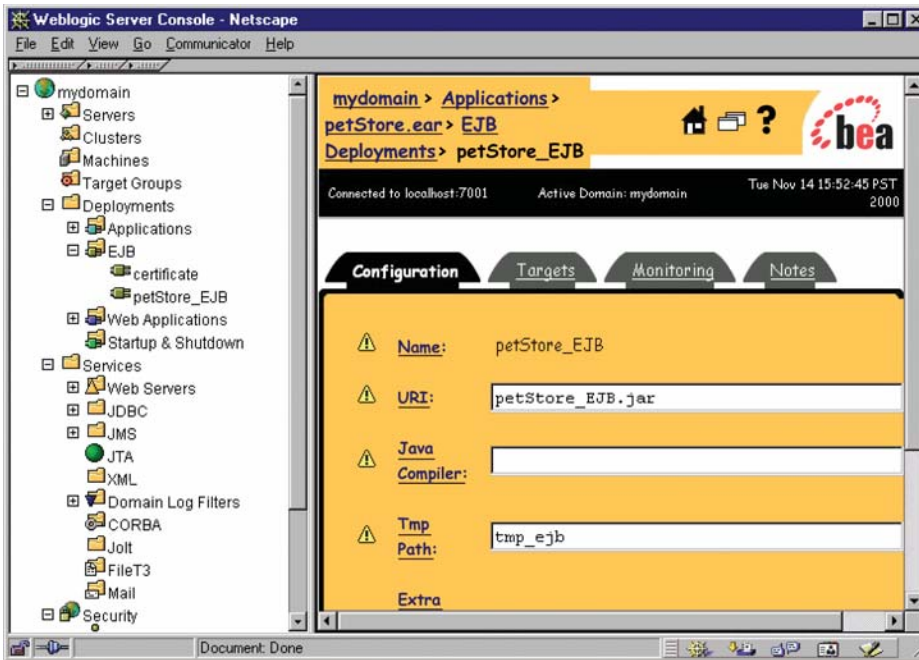


Figure 3. WebLogic Server Administration Console user interface.

In addition to these basic system administration and management tasks, WebLogic Server's open JMX framework allows customers and partners to integrate their management solutions and to obtain programmatic control over their application. In a clustered deployment environment, a user gets a clusterwide view of an application, as well as the ability to control each individual node of it. Also, the available SNMP-compliant interface allows simple integration with other management solutions available on the market and used by our customers within their enterprise environments.

When implemented on NonStop servers, WebLogic Server process monitoring and process management work just as they do on other platforms, using the same administration console and skills used on those platforms. The management task is simplified for massive deployments,

because there are fewer things to manage, as is described in the section on NonStop advantages. The administration server is itself monitored and managed by an HP fault-tolerant process, which will automatically restart the administration server in the event it fails. Figure 3 shows the WebLogic Server Administration Console user interface.

## cluster architecture

A WebLogic Server cluster is a group of WebLogic Server systems that work together to provide a powerful and reliable application platform. While a clustered application appears to its clients as a single server, it is in fact a group of servers acting as one. Clusters provide two key features above a single server: scalability and availability. WebLogic Server clusters are designed to deliver scalable and highly available applications in a way that

is completely transparent to application developers. This applies also to WebLogic Server on NonStop servers, where the BEA clustering is augmented by system advantages of the NonStop architecture: fault tolerance, massively scalable operating system, process management, transaction management, and data persistence.

## scalability

The capacity of a cluster is not limited to a single WebLogic Server on a single piece of hardware. New instances of WebLogic Server can be added to a cluster dynamically to increase capacity as your business requirements dictate. On NonStop servers, new processors and nodes can be added easily—up to 4,000 processors in 255 nodes, with single operating system and database images.

## availability

A cluster uses the redundancy of multiple servers to protect clients from system failures. The same service can be provided on multiple servers in the cluster, so that if one server fails, another can take over. The ability to take over from a failed server to a functioning server increases the availability of the application to clients. This capability is familiar to customers of NonStop servers—with WebLogic Server, we're providing more standardized ways to do the same thing.

A WebLogic Server cluster consists of a number of WebLogic Servers deployed on a network, coordinated with a combination of Domain Name Service (DNS), Java Naming and Directory Interface (JNDI) naming tree replication, in-memory session data replication, and BEA WebLogic Remote Method Invocation (RMI) clustering enhancements.

When installed on NonStop servers, WebLogic Server clustering is enhanced by the underlying fault-tolerant massively parallel infrastructure of NonStop servers. For example, the WebLogic Server Node Manager manages all managed servers (user processes), and is itself managed by NonStop process-pair technology. WebLogic Server instances communicate with each other via IP multicasting, which is implemented in HP's fault-tolerant, massively scalable Parallel TCP/IP subsystem.

## security

WebLogic Server provides a rich and comprehensive security architecture, encompassing access control, cryptography-based privacy, and user authentication. This security architecture allows third-party security vendors to plug into WebLogic Server's security framework, leveraging the full scope of their functionality, as well as the customers' investments and experience with these solutions. A built-in, Lightweight Directory Access Protocol (LDAP)-based security data store is included to store and process all the necessary security credentials and other information maintained by the users' system administrator. A convenient and intuitive user administration interface is provided to allow multilevel security policy configuration based on a large number of access criteria or user-created set of simple conditions or complex rules.

WebLogic Server also utilizes Secure Sockets Layer (SSL), Digital Certificates, and other standards-based security measures. Combined, these security features can track whoever has access to each service. A developer can also programmatically restrict access to WebLogic services through application logic when an application is being designed, or the system administrator can define how services are accessed at

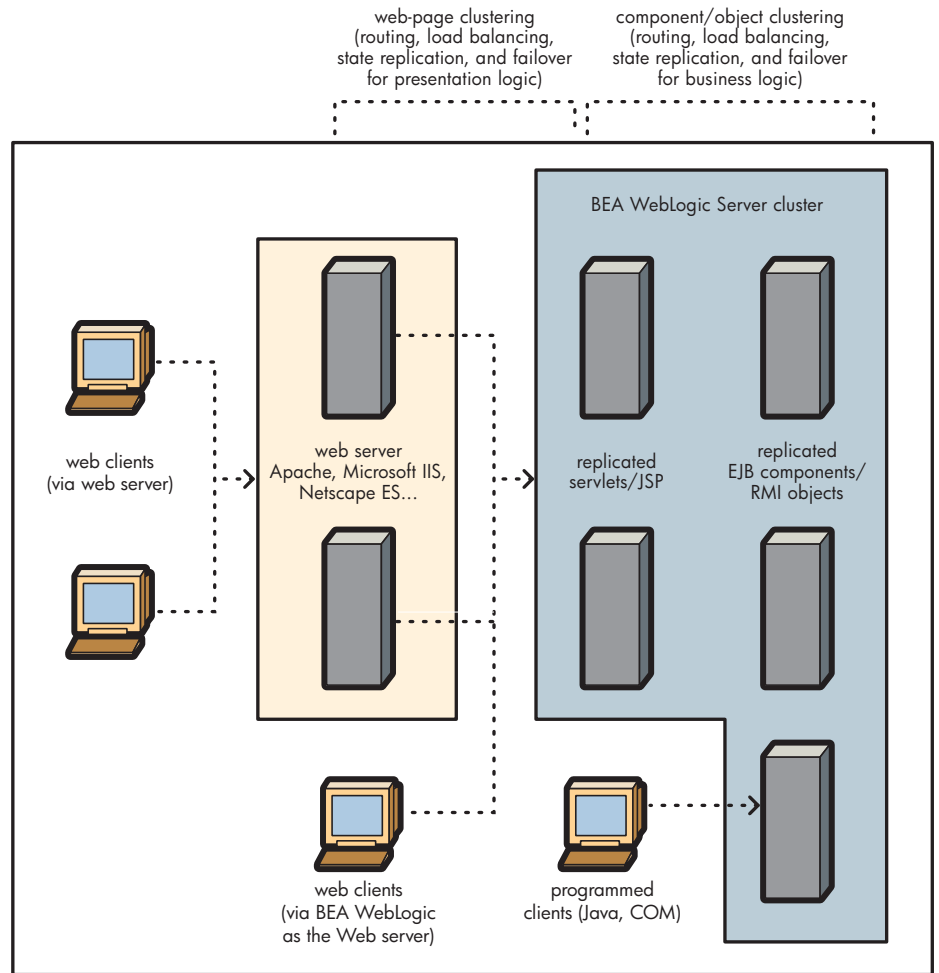


Figure 4. In future releases, it will be possible to use iTP WebServer software as the Web server, in addition to IIS and Netscape ES.

deployment. WebLogic Server can be incorporated into a single sign-on solution by accessing existing security information stores, or it can operate independently. WebLogic Server's security architecture also provides high security for the built-in Web services infrastructure, allowing customers to build their secure distributed applications.

WebLogic Server on NonStop servers implements the same security model as WebLogic Server does on other platforms.

## WebLogic Server clustering

Figure 4 shows how WebLogic Server delivers the utmost in scalability and high availability with its advanced clustering architecture. On NonStop servers, the clustering is further enhanced by HP's proven fault-tolerant, massively scalable infrastructure, which has been running some of the most demanding applications in the industry for more than 25 years.

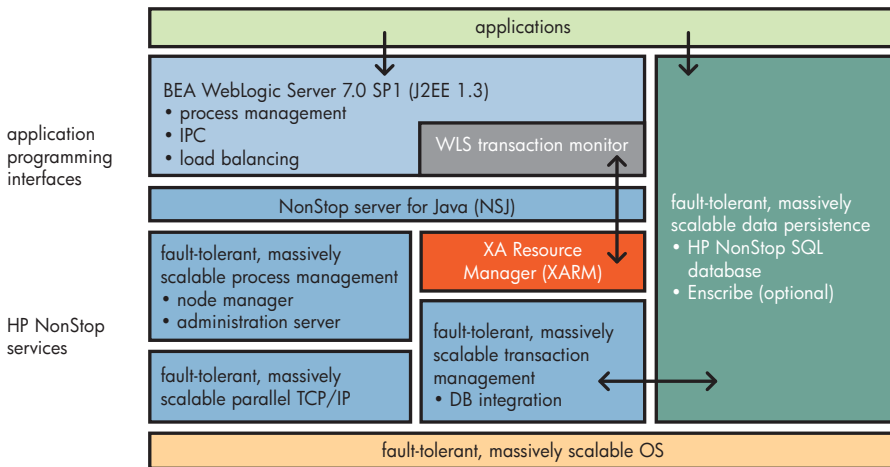


Figure 5. HP's new XARM interface enables WLS 7.0 to leverage the NonStop environment with no changes.

## WebLogic Server implementation for NonStop servers

Both WebLogic Server infrastructure and WebLogic Server applications have automatic and transparent access to the NonStop server platform that provides fault tolerance (no single failure will cause an application outage), massive scalability, guaranteed data integrity, and lowest TCO.

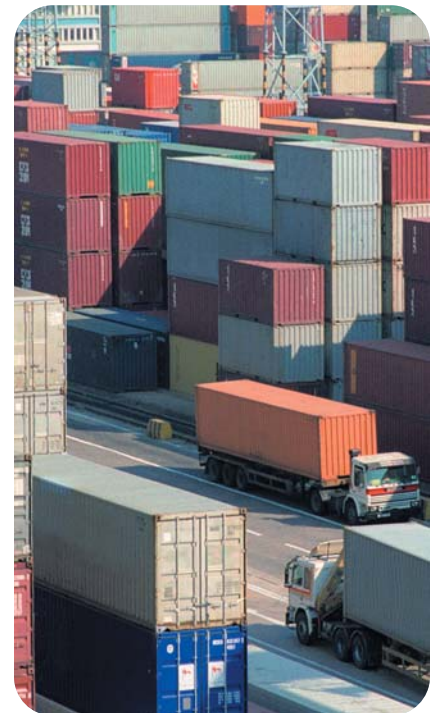
Figure 5 shows how NonStop server system advantages (orange, green, red, and dark blue), are leveraged for proven parallelism, along with WebLogic Server technology (light blue, gray), which enables the utilization of standard software applications, tools, and skills.

WebLogic Server uses defined industry-standard interfaces (not specially created interfaces) to take advantage of NonStop

server system advantages, significantly reducing the technical issues involved in implementing future releases of WebLogic Server on NonStop servers.

Note that the NonStop Kernel operating system, process management, transaction management, and data management are all part of the environment, along with the new XA-compliant resource manager we have developed specifically to enable the WebLogic Server transaction manager to work with NonStop TMF software.

BEA's process management, interprocess communication (IPC), and load balancing are used to enable existing applications and management tools to work on NonStop servers as they do elsewhere. The result is the best of both worlds: the benefits of a standardized environment with the advantages of NonStop servers.



## advantages of WebLogic Server on NonStop servers

Figure 6 compares WebLogic Server on NonStop servers (bottom) to a 4 x 4 industry-standard cluster (top). In the figure, the MS circles are managed servers, where user applications are executed. The NM circles are node managers, which manage all MS instances. The AM circles are administration servers, which administrators connect to in order to manage the system. The DB disk is the database file. The DBL disk is the database log. The TXL is the WebLogic Server transaction log, with one instance per managed server (there would actually be many more of these logs in a real system). The NonStop TMF TXL is the NonStop TMF transaction log, with one per NonStop server node. Finally, the SYS file is the operating system and related system code.

There are several significant points shown in the figure, including that

- The NonStop server continues to be the only server in the industry that is designed from the ground up to minimize, detect, and isolate failures. All components and data paths are replicated, monitored, and managed to avoid downtime caused by inevitable component failures.
- The potential impact of failures is limited. CPU failures in the 4 x 4 cluster will take out an entire node, or one-fourth of the available processing power. A CPU failure on the NonStop server, in contrast, will take out only one-sixteenth of the available processing power.

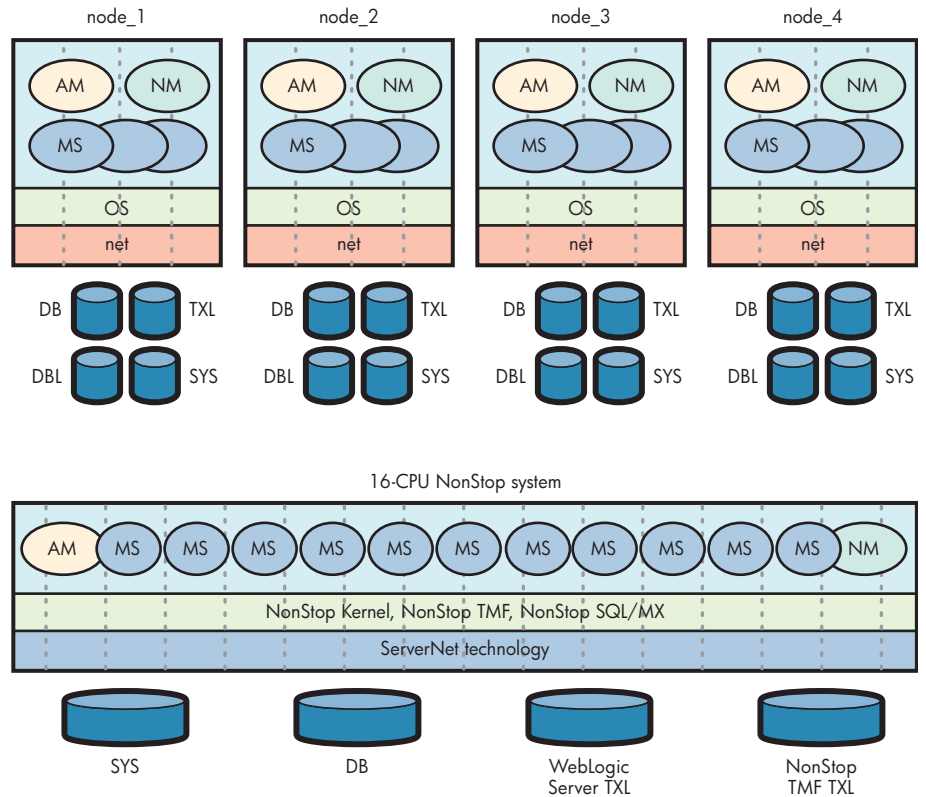


Figure 6. WebLogic Server on a NonStop system compared to a 4 x 4 industry-standard cluster.

- The potential for human error is reduced because there are fewer processes and files to be managed. There is one instance of each of the administration and node managers on the NonStop server versus one per node in the 4 x 4 cluster. Also, there is one each of the system file, database file, and WebLogic Server transaction log on the NonStop server versus one per node in the 4 x 4 cluster.
- In the event of a failure, the 4 x 4 cluster must wait for the lost transaction logs to be recovered before in-flight transactions can be resolved, which is usually a manual process. On NonStop servers, access to the log is maintained through inevitable component failures, so in-flight transactions can be automatically resolved without manual intervention or downtime.

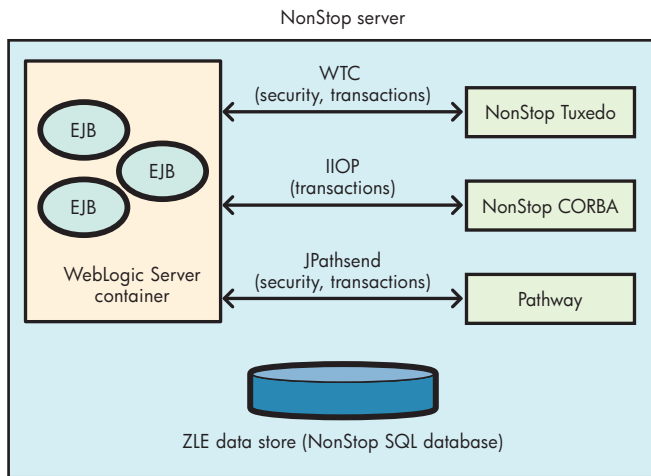


Figure 7. WebLogic Server and existing software assets working together enable large-scale enterprise applications to combine the power of C/C++ and Java.

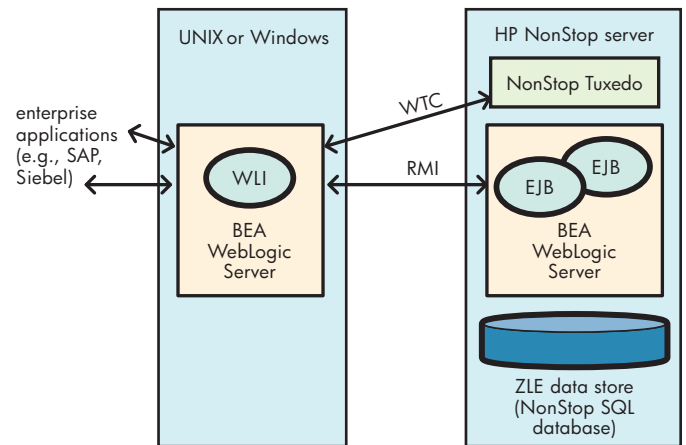


Figure 8. WebLogic Integration with either NonStop Tuxedo or BEA WebLogic Server environment on a NonStop server ZLE hub and ZLE data store run by NonStop SQL software.

### WebLogic Server and hp zero latency enterprise

A zero latency enterprise (ZLE) depends on comprehensive and efficient data and application integration. Zero latency operations require a new type of unifying architecture for integrating, synchronizing, routing, caching, and transacting in real time. WebLogic Server extends the ZLE frameworks (NonStop Tuxedo and NonStop CORBA software) with J2EE capabilities, enabling customers to combine the best of C/C++ and Java for large-scale enterprise applications such as ZLE. Tight integration between BEA WebLogic Server and NonStop Tuxedo software via WebLogic Tuxedo Connector enables applications to leverage the best capabilities of the two environments so that WebLogic Server clients can invoke Tuxedo services and Tuxedo clients can invoke EJBs that are running in WebLogic Server (see figure 7). Similarly, other protocols enable integration with CORBA and Pathway. NonStop SQL database software powers the ZLE data store and is fully integrated with WebLogic Server and existing software assets.

A single sign-on environment between WebLogic Server and the NonStop Tuxedo system allows a WebLogic Server principal to access Tuxedo services, enabling propagation of the security context for the requesting WebLogic Server principal to the Tuxedo domain. Transactions also propagate in both directions, enabling Tuxedo and WebLogic Server components to participate in the same unit of work (transaction).

### WebLogic and WebLogic Integration for hp zero latency enterprise

BEA WebLogic Integration is a single solution delivering BEA application server, application integration, business process management, and business-to-business integration functionality for the enterprise. As such, it is an important component of ZLE solutions, enabling access to standard applications such as SAP and Siebel as well as legacy applications on mainframes and other platforms. ZLE also provides essential message store and enterprise data store capabilities to WebLogic Integration. Although WebLogic Integration is running on UNIX and other platforms, and will be available on NonStop servers in the future, it's fully integrated with ZLE environments running either WebLogic Server or NonStop Tuxedo software (see figure 8).

## summary of technical features and benefits



| features   | benefits   |
|--|--|
| <b>web services</b>  |  |
| Support for SOAP, WSDL, and UDDI   | Expose EJB or JMS destinations as secure scalable Web services without additional programming, or remotely access Web services hosted on other platforms.  |
| Built-in Web service utilities   | Utilities for easy development and deployment of enterprise-class, Web services-based applications, and simple search and discovery of external and internal Web services published in UDDI registries.  |
| <b>presentation services</b>   |  |
| Built-in Web server  | A self-contained platform for serving static and dynamic content to Web and wireless applications that leverage high-speed page caching for increased performance and scalability.   |
| Apache, Microsoft IIS, and Netscape Integration  |  |
| Servlet and JSP engine   |  |
| Advanced Web caching   |  |
| Web presentation services server clustering  |  |
| Load balancing   | Achieve Web server scalability and high availability by deploying a cluster of servers. Additional in-memory replication provides high-performance takeover for enhanced availability.   |
| Advanced takeover with servlet-state caching   |  |
| <b>business logic services</b>   |  |
| EJB container  | EJB servers reduce the complexity of developing middleware by providing automatic support for middleware services, such as transactions, security, and database connectivity.  |
| Distributed transaction management with the Two-Phase Commit protocol                  |  |
| <b>business logic services clustering</b>  |  |
| Load balancing   | Achieve application-level scalability and high availability by deploying a cluster of servers. Additional in-memory replication provides high-performance takeover of business logic for enhanced availability.  |
| Advanced takeover with replicated naming, smart stubs, and in-memory EJB state caching |  |
| <b>information access services</b>   |  |
| JDBC support/drivers   | Integrate with back-end systems.   |
| Naming and directory services  |  |
| XML  |  |
| database information access clustering   |  |
| JDBC multipools  | Increase high availability and scalability with advanced database clustering services.   |
| <b>enterprise messaging platform</b>   |  |
| Distributed highly available JMS   | Integrated messaging provides a reliable, flexible service for the asynchronous exchange of business data and events throughout an enterprise. The enterprise messaging platform handles highly scalable message generation and processing for either point-to-point or publish/subscribe architectures. |
| JavaMail   |  |

| features  | benefits   |
|---|--|
| <b>integrated development tools</b>   |  |
| Tightly integrated with all leading development tools, such as WebGain Studio, VisualAge for Java, and JBuilder   | Rapid development with industry-leading graphical development tool of choice. Enables IT to further leverage the value of J2EE and Web services through multiple integrated utilities. Provides easy-to-use EJB development and packaging utilities, and integrated facilities for developing, testing, exposing, and seeking enterprise-class Web services.   |
| Integrated enterprise application development and testing utilities for building J2EE and Web services-based distributed systems  |  |
| <b>enterprise application management</b>  |  |
| Web-based management console  | Provide developers and administrators with Web-based, granular, extensible configuration and monitoring tools, and/or integration with leading management frameworks. Allows programmatic management of WebLogic Server deployed applications.   |
| Java Management Extensions (JMX)  |  |
| Externalized MBean API  |  |
| SNMP  |  |
| <b>integrated security</b>  |  |
| Pluggable security architecture   | WebLogic Server secures networked applications with optional encryption, authentication, and authorization based on Secure Sockets Layer (SSL) and X.509 digital certificates. It provides an open infrastructure for plugging into the available third-party security solutions. All WebLogic Server services are securely available through firewalls via tunneling through HTTP or HTTPS. It also implements a secure Web services framework. |
| GUI for rules-based security policy setup   |  |
| Covers J2EE and non-J2EE components   |  |
| Flexible authentication and authorization   |  |
| Integrated security and firewall support  |  |
| Integrated logging  |  |
| Secure Web services   |  |
| <b>application integration</b>  |  |
| Java Connector Architecture (J2EE CA) support   | J2EE CA support allows any application with a J2EE CA-compliant resource adapter to be "plugged in" to WebLogic Server. Advanced integration capabilities are available in WebLogic Integration.   |
| <b>certified J2EE compliance</b>  |  |
| EJB 2.0, J2EE CA 1.0, JDBC 2.0, JSP 1.2.1, Servlet 2.3.2, JTA 1.0.1, JMS 1.0.2, JNDI 1.2, Java RMI 1.0, RMI/Internet Inter-ORB Protocol (IIOP) 1.0, JCA 1.0, JAAS 1.0, JMX 1.0, JavaMail 1.1, Java API for XML Parsing (JAXP) 1.1 | Protect your investment by programming to the industry-standard J2EE platform. Certification assures enterprises and developers alike that APIs and development features will work in a uniform way.   |
| <b>integration with other leading Internet technologies</b>   |  |
| HTTP 1.1, SSLv3, LDAPv2, X.509v3, JAXP, WSDL 1.1, UDDI v2, SNMP 2.0   | Integrated with standard Internet and XML protocols.   |

## ordering information

### WebLogic Server on hp NonStop servers

WebLogic Server is licensed by BEA. Contact BEA at <http://www.bea.com>, or 1 800 817 4BEA for quotations and licensing terms. To obtain required NonStop infrastructure, order the following CDs, the second of which also is a time-limited evaluation copy of WebLogic Server 7.0 SP1.

| product ID | description   |
|------------|---|
| SE12V1     | HP NonStop Server Toolkit for BEA WebLogic Server 7.0—enabling software to allow WebLogic Server 7.0 SP1 to run on HP NonStop servers (free). |
| SE13V1     | WebLogic Server evaluation kit—a time-limited evaluation copy of WebLogic Server 7.0 (free).  |

## specifications

### system requirements

|                                       |  |
|---------------------------------------|--|
| Hardware                              | Any NonStop S-series server with floating point processors and at least 2 GB of memory per processor. (Note: as of May 2003, only S72000, S740, S74000, S760, S76000, and S86000 systems can support floating point processors and 2 GB of memory per processor.)  |
| Software                              | NonStop Kernel operating system Release Version G06.20 or later<br>NonStop SQL/MX 1.8.5 software (included with NonStop Kernel Release Version Update G06.20)<br>NonStop Server for Java software (NSJ 3.1, SE96V3a), SPR AAQ or later<br>WebLogic Server 7.0 SP1 (order from BEA, or order SE13V1 to receive a free time-limited evaluation copy) |
| Compatible software development tools | SafeGuard (enables use of UNIX like login names and long file names in home directory)<br>JToolkit (enables access to Pathway servers, and Enscribe files—requires HP NonStop Transaction Services/MP (NonStop TS/MP) software)  |

## for more information

For more details on HP NonStop servers, go to [www.hp.com/go/nonstop](http://www.hp.com/go/nonstop).

For more information about WebLogic Server and other BEA products, go to [www.bea.com](http://www.bea.com).



### other products in the BEA WebLogic product family

WebLogic Server is the foundation for other products within the BEA WebLogic Enterprise Platform:

- BEA WebLogic Integration
- BEA WebLogic Portal
- BEA WebLogic Integration
- BEA WebLogic Workshop
- BEA Liquid Data for WebLogic

HP and BEA have agreed to implement WebLogic Integration on NonStop servers in the future. Until then, WebLogic Integration can be used on mid-tier platforms, in conjunction with WebLogic Server on NonStop servers (see the section on WebLogic Server and HP ZLE for more information). In addition, the WebLogic Workshop toolset can be used on an industry-standard workstation to expose WebLogic Server components and NonStop Tuxedo applications on NonStop servers as Web services.

WebLogic is well integrated with BEA Tuxedo transaction processing system. NonStop Tuxedo software is based on BEA Tuxedo code and is specially enhanced for NonStop servers. BEA's WebLogic Tuxedo Connector provides secure, transactional interoperability between WebLogic Server on any platform (including NonStop servers) and both BEA Tuxedo and NonStop Tuxedo software. This means that WebLogic Server applications can use WebLogic Tuxedo Connector to interoperate with new and existing back-end Tuxedo servers, either BEA Tuxedo servers or HP NonStop servers.



For more information, go to [www.hp.com/go/nonstop](http://www.hp.com/go/nonstop).

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