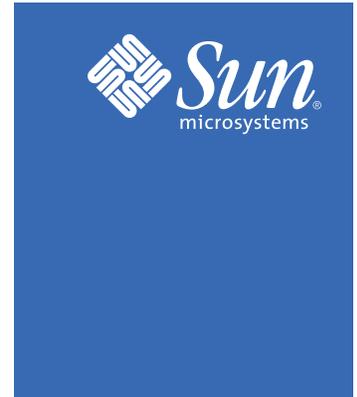


Sun Java™ System Web Server 6

Your Secure Window to the World



Key feature highlights

- Reduces security risk through internal and peer-based code reviews; provides solid access control and authentication features; supports the latest transport layer security standards
- Delivers a personalized user experience with a high-performance Java™ application platform with a fast, in-process Java virtual machine implementation
- Eases management of complex Web sites with millions of users through delegated administration, integrated Web server cluster management, virtual server management, dynamic reconfiguration, SNMP monitoring, and replication of configurations across servers
- Supports a scalable, mass virtual server hosting environment
- Maximizes application reuse and developer collaboration
- Maximizes uptime through process monitors, automatic failover and restart, built-in clustering support, dynamic log rotation, dynamic reconfiguration of settings
- Supports thousands of concurrent connections through a multiprocessing, multi-threaded architecture, scalable “keep-alive” handling, HTTP 1.1 compliance, integration with the Solaris™ Network Cache Accelerator, and support for SSL hardware accelerators
- Enables faster time to market for Web services and e-commerce solutions

Web servers are your “window to the world.” They enable you to connect, communicate, and collaborate with others regardless of time and location.

The Sun Java™ System Web Server 6 (formerly Sun ONE Web Server 6) powers many of the world's largest Web sites. It allows companies to react quickly to market demands by providing a secure, high-performance, and highly scalable and flexible Web server that delivers static and dynamic content. With a proven security track record and key features such as scalable HTTP 1.1 persistent connection handling, virtual domain support, an integrated Web container, cross-platform support, and SunTone™ certification, the Java System Web Server provides organizations with the ability to protect their Web assets and customer data while enhancing the overall end user experience. By providing a solution that adheres to industry standards, enterprises can improve ROI by offering new services — such as Web services — at lower cost while delivering greater customer satisfaction.

Improves Web Security

For virtually all businesses today, a major point of attack is their Web servers. This makes it more important than ever for them to ensure that they are using the most secure Web server possible. The Java System Web Server is designed to deliver just that.

The Java System Web Server 6 protects your data because it is secure right out of the box. By default, all administration settings are set to off, reducing risk and jeopardy to your Web presence. Plus, the Java System Web Server goes through extensive code review to reduce the risk of exploits. In fact, the Java System Web Server 6 received the fewest CERT alerts in 2002 (www.cert.org). By delivering very secure code as well as isolating the Web server from the operating system, the Java System Web Server 6 reduces exploit severity on the server and enables a very secure Web presence.

While security robustness is only one of the many factors contributing to the stability record of the Java System Web Server, a quick look at the extensive downtime suffered by other Web servers due to the numerous exploits against these products does provide an indication as to the overall importance of a strong security package. For more information on security, see the Java System Web Server 6 Security white paper at sun.com/software/whitepapers/webserver/wp_ws_security.pdf

High Availability and Fast Time to Market

To maximize revenue and customer satisfaction, Web sites must also maximize uptime — reliability and high availability are of critical importance, especially when e-commerce is involved.

The Java System Web Server enables companies to react quickly to market demands by providing a secure, high-performance, and highly scalable and flexible Web server that delivers static and dynamic content.

The Java System Web Server 6 offers many unique features designed to help deliver maximized uptime. Multiprocess mode and automatic failover ensure that requests to the server are handled even when a process goes down, and that the failed process is restarted automatically — without need for administrator intervention. Additionally, dynamic log rotation enables an administrator to rotate server logs without shutting down the server. Logs can be created for each virtual server, as needed.

In the event of a failure, the Java System Web Server works with leading external load-balancing solutions to minimize lost Web application sessions and transactions. Each active session bus shares active session information across multiple Web container processes. By sharing this information, any Web container can accept a redirected connection from the load balancer front end if a fault occurs. This design delivers both higher quality of service (QoS) and availability.

Enhances End-User Experience

With the competition just a click away, e-commerce sites must deliver content quickly — or risk losing customers. Plus, they must scale to meet unpredictable demand. The Java System Web Server delivers high performance and scalability through its unique multithreaded, multiprocessing architecture.

Performance is further enhanced through optimized results caching, symmetric multiprocessor support, integration with the Solaris™ Network Cache Accelerator (in the Solaris 8 update 5 and Solaris 9 Operating Systems), and highly scalable HTTP 1.1 persistent (keep-alive) connection handling.

To maintain high performance for secure transactions, the Java System Web Server supports Secure Sockets Layer (SSL) 3.0, Transport Layer Security (TLS) 1.0 connections, and PKCS #11, the standard interface for SSL hardware accelerators. This architecture enables the Java System Web Server to support tens of thousands of simultaneous connections per single-server instance.

Reduces Cost and Complexity

Today, Web sites are complex multiserver environments with a large number of virtual servers and millions of registered users to manage. The Java System Web Server helps lower the cost of managing and maintaining such sites with easy-to-use productivity tools. Administrators can use these tools to manage users, virtual server classes, and multiple virtual servers, as well as dynamically reconfigure servers, delegate administrative responsibilities, replicate configurations across servers, and install multiple Web server instances simultaneously.

Combined with the Java System Identity Server (formerly Sun ONE Identity Server) or integrated Java System Directory Server (formerly Sun ONE Directory Server), the Java System Web Server provides a centralized point from which to easily add, change, and delete information for millions of users.

Features of Java System Web Server

Web Application Development

- Offers full compliance for Java Servlet 2.3 and JavaServer Pages™ (JSP™) 1.2 specifications
- Supports Active Server Pages 3.0 (VBScript/JScript 5.5) using the integrated Java System Active Server Pages (formerly Sun ONE Active Server Pages)

- Supports NSAPI, CGI, CFML, and PHP
- Includes a built-in Java runtime environment with support for the Java Development Kit (JDK™) 1.4.1_04 release, object serialization, and the JDBC™ 3.0 specification, including connection pooling, the Java Naming and Directory Interface™ 1.1 API, and JavaBeans™ technology
- Supports session management service to track information for specific users
- Integrates with Sun Java Studio (formerly Sun ONE Studio) development tools for Java technology-based application development across JSP and Java Servlet technologies
- Supports WAR file deployment both from command-line and GUI-based interfaces
- Supports JSP component precompilation for faster loading
- Allows reuse of applications and components developed separately
- Provides standard tag library support, enhancing the user customization of JSP tags
- Supplies administrative support — both command-line and GUI interfaces
- Provides a fast, in-process, pluggable Java virtual machine (JVM™) implementation
- Offers server-side preprocessing of content using SHTML
- Integrates with Java optimization tools
- Supports Web Distributed Authoring and Versioning (WebDAV)
- Netscape™ Application Program Interface (NSAPI) filter support

Virtual Domain Hosting Features

- Supports thousands of virtual servers as well as one or more certificates for use with virtual servers
- Enables bandwidth limits to be specified for each virtual server or class of servers
- Allows virtual servers to be concurrently accessed in SSL and non-SSL environments
- Provides a separate authentication database for each virtual server

Reliability and Availability

- Ensures high server uptime through multi-processing mode and process monitors
- Uses unique, shared-session objects to provide failover protection and enable multi-processing support for Java Servlet extensions on UNIX® systems
- Reduces server downtime by rotating logs dynamically
- Supports intelligent load balancing of servlets with leading load-balancing software vendors such as Resonate

Management and Administration

- Provides dynamic reconfiguration of Web server — without restart
- Allows access control lists (ACLs) to be used for each virtual server, or one file for all virtual servers
- Integrates with Lightweight Directory Access Protocol (LDAP)-based directory servers
- Includes the Java System Directory Server to manage password policies and user groups down to the site level
- Includes a policy agent for integration with the Java System Identity Server
- Eases administration of multiple servers with support for cluster management
- Supports the Simple Network Management Protocol (SNMP) for use with common management systems, including CA/Unicenter, HP OpenView, IBM/Tivoli TME, and Sun's Solstice™ software
- Includes support for .htaccess
- Allows complete installations with clonable instances and replication of configurations across servers with templated and silent install
- Supports the command-line interface for HTTP server administration, certificate and key management, and Web application deployment

Sun Java™ System Web Server 6

Performance and Scalability

- Offers high performance through an advanced multiprocessing, multithreaded architecture; efficient use of kernel threads; and sophisticated memory management Server-side HTML (SHTML) and chunked encoding to enhance the performance of dynamic content
- Integrates with the high-performance, Solaris Network Cache Accelerator (available in the Solaris 8 update 5 and Solaris 9 Operating Systems)
- Uses multiprocessing mode to increase scalability on multiple CPU machines
- Supports HTTP 1.1 and HTTP compression
- Supports SSL hardware accelerators
- Provides scalable, keep-alive handling

Security

- Installs with secure default configurations and services turned off (secure by default)
- Includes support for SSLv2, SSLv3, TLS 1.0, and X.509 digital certificates
- Includes support for security-based standards such as PKCS #11, FIPS-140, and 168-bit, step-up certificates
- Allows centralized, certificate-based security with certificate-to-LDAP mapping
- Enables administrators to set SSL parameters for each virtual server
- Allows use of DIGEST authentication, which can be configured separately for each virtual server using the integrated Java System Directory Server

- Allows CGI's to be run as different user IDs
- Allows single sign-on (SSO) across multiple Web applications (or Java Servlet contexts)

Content Management Services

- Provides full text and attribute searching of documents through built-in search engine
- Allows one-button publishing from Netscape Composer

Serious Software Made Simple

Sun provides a complete portfolio of affordable, interoperable, and open software systems designed to help you maximize the utilization and efficiency of your IT infrastructure. Built from the secure, highly available foundations of UNIX and Java, these systems deliver implementations that are preintegrated and backward compatible. Sun's portfolio consists of Solaris and Linux software for SPARC® and x86 platforms, the N1™ platform for dynamic and utility computing, and the Sun Java System – five integrated software systems for the data center, the desktop, the developer, mobile devices, and smart card identity implementations.

The Java System is a radical new approach that changes forever the way businesses acquire, develop, and manage software. Only Sun has the experience and the end-to-end portfolio to deliver such a unique and industry-revolutionizing strategy. With the Java System, network services and critical business applications are up and running faster, easier, and at a lower cost than ever before, so you

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can focus on innovation, competition, and bottom-line results.

Platforms and Requirements

Operating Systems and Platforms

Sun Solaris 9 Operating System (SPARC and x86 Platform Editions), Solaris 8 Operating System (SPARC Platform Edition), and Trusted Solaris™ 8 Operating System (SPARC and x86 Platform Editions)

Red Hat Enterprise Linux AS 2.1

Hewlett-Packard HP-UX 11i

IBM AIX 5.1 and 5.2

Windows 2000 Server and XPSYSTEM Requirements

JDK release: 1.4.1_03¹ minimum

Memory: 128 MB minimum, 512 MB recommended; 512 MB minimum for Windows 2000

Disk Space: 150 MB (minimum) for the Solaris Operating System and 100 MB (minimum) for Windows 2000; 200 MB recommended for both Solaris and Windows 2000 platforms

Languages Supported

English, Japanese, German, French, Spanish, Simplified Chinese, and Traditional Chinese

1. Certified on both Solaris and Windows 2000 platforms.