

SUSE[®] LINUX Enterprise Server 9

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REVIEWERS GUIDE



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Overview



SUSE® LINUX Enterprise Server 9 from Novell® is a Linux* server operating system that offers comprehensive open source application services, support for leading application and hardware solutions, and end-to-end management capabilities. Backed by a worldwide ecosystem of Novell support engineers, consultants and business partners, SUSE LINUX Enterprise Server 9 delivers superior performance and scalability and provides customers with a reliable Linux foundation.

QUICK PROFILE

Product

SUSE LINUX Enterprise Server 9

Announcement date

August 3, 2004

Availability date

August 2004

Key benefits

- Secure, reliable platform for open source computing in the enterprise
- Unmatched system manageability that lowers the cost of ownership
- Industry-leading scalability and reliability that enable mission-critical deployments
- Strongest security capabilities that ensure data privacy
- Novell backing that empowers businesses to deploy Linux with confidence

Why Choose Novell for Linux?

- Linux servers and desktops are built for scalability and reliability
- Unique systems-management capabilities and a common code base reduce the total cost of ownership
- Help from the largest technical support ecosystem for Linux—when you need it
- Indemnification—not just warranty protection
- Unparalleled commitment to Linux and open source

Pricing

Yearly maintenance service subscription for x86 architectures starts at \$349 USD per server with two CPUs.

Supported languages

English, German, Spanish, Brazilian Portuguese, Italian, French, Japanese, Simplified Chinese and Korean (among others)

Platform support

- x86
- AMD64* and Intel* Extended Memory 64 Technology
- Intel* Itanium* Processor Family
- IBM* POWER*
- IBM* zSeries*
- IBM* S/390*

Additional Information

<http://www.novell.com/products/linuxenterpriseserver/>

KEY FEATURES

Industry-leading performance and scalability

SUSE LINUX Enterprise Server 9 is the first enterprise-class Linux server built on the new Linux 2.6 kernel, offering unmatched performance and scalability for large-scale Linux deployments. With advanced memory management and processor support, Native Posix Thread Library (NPTL), advanced I/O capabilities and the unique class-based kernel resource management (CKRM) feature, SUSE LINUX Enterprise Server 9 offers the industry's best performance and linear scalability.

High availability and reliability

SUSE LINUX Enterprise Server 9 is architected for mission-critical use and minimal downtime. With its high-availability features, IT administrators can rely on Hotplug services; change hard disks, processors and other periphery at runtime; cluster IP aliases for non-cluster-aware applications; and use the administration console to configure clustered-server deployments.

Unmatched security

When SUSE LINUX Enterprise Server 8 was certified as compliant with Common Criteria Evaluation Assurance Level (EAL) 3+, it was the highest security certification ever awarded to a Linux operating system. Now, SUSE LINUX Enterprise Server 9 is being evaluated for compliance with the EAL 4+. To merit this exceptional rating, SUSE LINUX Enterprise Server 9 is developed in a secure environment and provides essential security capabilities such as encryption, security certificate creation and management, user authentication and access control, and firewall and proxy management.

Unique deployment and systems-management capabilities

SUSE LINUX Enterprise Server 9 simplifies management with YaST, a comprehensive installation, configuration and administration suite unique to SUSE LINUX. YaST gives IT administrators a common foundation for managing not just operating system components but also accompanying services such as a DNS server, an Apache Web server or even third-party applications. Novell ZENworks Linux Management complements YaST by enabling IT administrators to centrally control how they deploy and update systems inside the firewall. By using YaST and integrating ZENworks Linux Management, administrators can easily install, configure, update, secure and manage SUSE LINUX Enterprise Server 9.

Comprehensive open-source functionality

SUSE LINUX Enterprise Server 9 offers a wealth of built-in functionality, including a relational

database and numerous file, print, Web application and networking services. YaST makes it easy to configure these services via its graphical interface or through scripted automation.

Flexible enterprise storage and virtualization capabilities

SUSE LINUX Enterprise Server 9 supports numerous file systems, network-based storage and a new Enterprise Volume Manager, which enable administrators to deploy SUSE LINUX Enterprise Server 9 in any IT setting. SUSE LINUX Enterprise Server 9 also supports User-Mode Linux; now administrators can easily test disparate Linux configurations and use virtualization to distribute different deployments on the same hardware.

Broad platform support, built from a common code base

SUSE LINUX Enterprise Server 9 supports a broad range of hardware architectures including x86, AMD64 and Intel EM64T, as well as the Intel Itanium Processor Family, IBM POWER, IBM zSeries and IBM S/390. For IT managers, this provides flexibility and cost savings, delivering a common operating system, consistent management tools, uniform standards support and software updates across all Linux deployments.

Developer productivity

SUSE LINUX Enterprise Server 9 supports a variety of open development tools and runtime environments. Developers, customers and independent software vendors (ISVs) can use these tools to quickly customize and develop Linux-compatible applications.

Backed by Novell

Novell brings a complete enterprise software ecosystem to Linux, providing technical support, training, consulting, indemnification and the extended partner network that IT buyers demand when deploying a strategic platform. Novell SUSE LINUX products are built for performance and reliability and are backed by hundreds of software engineers, support staff and consultants who are dedicated to Linux, open source and customer success.

PLATFORM SUPPORT

x86

The x86 platform, the most common personal computer hardware platform, is the basis for chips from Intel, AMD, VIA and Transmeta. Supported processors include Intel Pentium* and Xeon* processors, AMD Athlon and K7 series, and the AMD Opteron and Athlon64 chips in 32-bit mode.

x86-64 (AMD-64)

The x86-64 architecture was created by AMD, is a 64-bit extension of the x86 platform and runs 32-bit legacy code. Supported processors include the AMD Athlon64 and Opteron and the forthcoming Intel Xeon EM64T.

Note that not all 32-bit applications are certified to run perfectly in this environment; check with your ISV or perform extensive testing before deployment.

Itanium Processor Family

SUSE LINUX Enterprise Server supports the Itanium Processor Family, a 64-bit platform from Intel and

HP that includes an emulator for x86 32-bit hardware. Because 32-bit support relies on an emulator, its performance can suffer; however, 64-bit performance benefits from a clean break with the x86 platform.

IBM POWER (iSeries and pSeries systems)

SUSE LINUX Enterprise Server 9 is available for 64-bit POWER series hardware. The IBM POWER 64-bit architecture is used in systems from Apple and IBM. It supports execution of code built for the 32-bit edition of the POWER platform. POWER systems include IBM iSeries and pSeries servers.

IBM zSeries (S/390x)

The IBM zSeries is a 64-bit platform mostly used in the S/390x mainframe series. zSeries hardware can also run code built for the earlier 31-bit S/390 systems. SUSE LINUX Enterprise Server running on zSeries hardware can be used for zVM and LPAR virtualization of both 31-bit and 64-bit systems.

IBM S/390 (31-bit)

The IBM S/390 architecture uses 31 bits, rather than the more common 32. In these systems, the thirty-second processor bit is used by the chip itself instead of being made available to the software. SUSE LINUX Enterprise Server 9 is available in a 31-bit compile for S/390 mainframes. SUSE LINUX Enterprise Server 9 on S/390 hardware can be used for zVM and LPAR virtualization of 31-bit systems only.

BENCHMARKS

http://www.suse.com/us/company/press/press_releases/archive04/nec_tpc.html

http://www.suse.com/us/company/press/press_releases/archive04/nec.html

ABOUT NOVELL

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Press should visit <http://www.novell.com/pressroom>.

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