SUSE® Linux Enterprise Server 11
June 2015

What is SUSE® Linux Enterprise Server 11 Service Pack 4?
SUSE Linux Enterprise Server 11 Service Pack 4 is our latest enterprise Linux server operating system. Based on an updated SUSE Linux Enterprise 11 platform, it delivers new features and improved performance while maintaining enterprise quality and application compatibility. These enhancements deliver the most scalable and secure foundation for your mission-critical workloads. They also allow you to migrate UNIX and other operating system-based workloads and run them reliably, securely and cost-effectively.

What's new in SUSE Linux Enterprise Server 11 Service Pack 4?
SUSE Linux Enterprise Server is a highly reliable, scalable and secure server operating system, built to power mission-critical workloads in physical, virtual and cloud environments. It is the only enterprise Linux server operating system to be recommended by Microsoft, SAP and VMware. This modular operating system runs on five processor architectures and is available with optional extensions for real-time computing and high availability clustering.

SUSE Linux Enterprise Server 11 Service Pack 4 includes all of the patches, fixes and updates released for SUSE Linux Enterprise Server 11 since its general availability in 2009. Service Pack 4 now supports the latest hardware platforms, including Intel Xeon processor E7-8800/4800 v3 product family, IBM z13 (z13) and IBM POWER8 (big endian mode). To address the needs of faster iteration in certain areas, SP4 introduces the Public Cloud Module, the Toolchain Module, and expands the earlier announced Security Module. These modules are independent repositories and are included in the subscription without additional cost.

SUSE Linux Enterprise Server 11 also achieved many security certifications and includes new security features in Service Pack 4. Customer can rely on it even more for handling sensitive information and delivering standards. SUSE Linux Enterprise recently achieved FIPS 140-2 validation for the OpenSSL module and received Common Criteria Certificates at Evaluation Assurance Level EAL4+. Both of these are important milestones for enterprise security support. Meanwhile, Service Pack 4 is the first enterprise Linux that fully integrates the Extensible Firmware Interface (UEFI) secure boot mechanism.

What's new in SUSE Linux Enterprise High Availability Extension 11 Service Pack 4?
SUSE Linux Enterprise High Availability Extension is an affordable, integrated suite of robust, open source clustering technologies that you can use to implement highly available physical and virtual Linux clusters, and eliminate single points of failure. Based on an innovative, highly flexible policy engine, it supports a wide range of physical, virtual and hybrid clustering scenarios, and its adherence to open standards ensures interoperability.

The Geo Clustering for SUSE Linux Enterprise High Availability Extension is the best-in-class open source geo clustering solution. It enables you to deploy physical and virtual Linux clusters between data centers located anywhere in the world, across unlimited distances. It offers the most up-to-date stack on all architectures.

Service Pack 4 upgrades key components in the high availability (HA) clustering stack—including pacemaker, booth and ReaR—to the same versions in SUSE Linux Enterprise High Availability Extension 12. With these upgrades, SP4 brings the latest features and functions to customers, allowing them to fully
exploit the stack to enhance service availability for mission-critical workloads. In the meantime, SP4 improves usability in the easy-to-use High Availability Working Konsole (HAWK).

**On what architectures and hardware does SUSE Linux Enterprise Server run?**

SUSE Linux Enterprise Server is supported by all leading hardware vendors. You can run SUSE Linux Enterprise Server on the following architectures: x86 (32-bit), x86_64 (64-bit), Itanium Processor Family (Itanium II or newer), IBM POWER and IBM z/Architecture (64-bit).

SUSE works closely with chip manufacturers Intel and AMD, and SUSE Linux Enterprise Server supports their latest 32-bit and 64-bit architectures—single, dual and multi-core processors. SUSE Linux Enterprise Server 11 exposes and leverages the newest RAS features in Intel Xeon, such as CPU and memory off-lining, MCA recovery and improved MPIO hardware support. It also exploits new floating point and cryptographic features that deliver improved performance and security like AES-NI, as well as Intel Rapid Storage Technology enterprise, fully implemented for robust software RAID. And SUSE Linux Enterprise Server also supports AMD’s latest Opteron processors, enabling you to benefit from its improved performance, scalability and efficiency.

**Is SUSE Linux Enterprise Server offered in cloud computing infrastructures?**

Yes. SUSE Linux Enterprise Server is offered through a wide variety of public cloud service providers worldwide, like 1&1, Amazon Web Services, Dell, Fujitsu, IBM, SHI, Telstra, Tenzing, Verizon, Vodacom Business and Windows Azure. And one of the fastest and easiest ways to build and deploy custom OS images or complete workloads and appliances for these cloud infrastructures is with SUSE Studio™. More information about SUSE Studio is available at: [http://susestudio.com](http://susestudio.com)

**What is the Public Cloud Module?**

The Public Cloud Module is a collection of tools that enables you to create and manage cloud images from the command line on SUSE Linux Enterprise Server. For building your own images with KIWI or SUSE Studio ([www.suse.com/products/susestudio](http://www.suse.com/products/susestudio)), an initialization code specific to the target cloud is included in that image. The tools and initialization code in this module will be updated whenever a new version is ready, always giving you the latest available.

**What is this Toolchain Module?**

This module offers software developers a current toolchain consisting of GNU Compiler Collection (GCC) and related packages as well as updated applications, improvements, new standards and additional hardware features.

**What is the Security Module?**

The Security Module allows customers and partners to build TLS 1.2-compliant infrastructures beyond the https protocol. Previously introduced, it now includes more recent OpenSSH and OpenVPN packages, both based on the same source code used in SUSE Linux Enterprise 12 and linked to OpenSSL1 in the module. This means that customers can use the more recent protocols and crypto algorithms which are provided as part of OpenSSL1. For providing TLS 1.2-based web servers, we continue to recommend the mod_nss Apache extension, which is part of SUSE Linux Enterprise Server 11 SP4. For more information see: [www.suse.com/communities/conversations/introducing-the-suse-linux-enterprise-11-security-module/](http://www.suse.com/communities/conversations/introducing-the-suse-linux-enterprise-11-security-module/)

**What target workloads and use cases are ideal for SUSE Linux Enterprise Server?**

SUSE Linux Enterprise Server is suitable for a wide range of workload types and sizes. It provides a robust development environment, as well as a cost-effective platform for reliable and secure infrastructure and edge computing services. The Internet boom of the late 1990s accelerated the deployment of Linux in the enterprise, as its low cost and scalability made it an attractive alternative for cost-conscious, Internet-based companies. Today, the majority of Linux server operating system deployments are on this middle tier of Internet services and web-based workloads. But not only is SUSE Linux Enterprise Server a reliable, scalable and secure platform for web servers and web application servers, it has also become recognized as an established platform for running mission-critical enterprise workloads. Increased ISV acceptance and endorsement has resulted in the growing availability, certification and support of many third-party enterprise applications on SUSE Linux Enterprise Server.
What software applications are available for SUSE Linux Enterprise Server?
Today applications from over 4,000 ISVs are certified and supported on SUSE Linux Enterprise, more than any other enterprise Linux distribution. For a complete list of certified software applications for SUSE Linux Enterprise Server (all versions), please visit: www.suse.com/partner/isv/isvcatalog

How can my organization or company benefit from SUSE Linux Enterprise Server?
SUSE Linux Enterprise Server helps you meet service-level agreements, and manage your IT infrastructure in a pragmatic and cost-effective way. It serves as a secure, scalable foundation for your mission-critical workloads.

SUSE Linux Enterprise Server helps you to cost-effectively meet your internal and external service-level agreements and efficiently secure and manage your IT infrastructure. With SUSE Linux Enterprise Server, you will save money, save time, and reduce risk.

By using SUSE Linux Enterprise Server not only do you reduce the cost of your server infrastructure, you save money on server hardware as well. SUSE Linux Enterprise Server is offered with attractive subscription pricing and allows you to leverage low-cost, industry-standard hardware. A modular, general purpose operating system, SUSE Linux Enterprise Server is offered with optional extensions that deliver advanced capabilities. Pay for just what you need and avoid unnecessary extras. As your needs change, you can easily add the additional capabilities you require.

SUSE Linux Enterprise Server ships with integrated tools to quickly and easily install, configure and manage your systems, helping you simplify the management of your IT environment and save time. It includes an industry-leading package management stack, which enables dramatically faster updates than competing solutions. With integrated installation tools and preconfigured profiles, you can rapidly set up popular services, both locally and remotely. Powerful subscription management tools help you easily track and manage your operating system software assets. SUSE Linux Enterprise Server is CIM (common information model) instrumented, so you can manage it with your choice of CIM-enabled solutions. Finally, built-in support diagnostic tools accelerate support communications, resulting in faster issue resolution.

SUSE Linux Enterprise Server helps you reliably deliver a wide variety of mission-critical services. Recommended by Microsoft, SAP and VMware, it lets you run your SAP applications or operate your mixed Linux and Windows environments, physical or virtual, with confidence. Unlike proprietary operating systems, SUSE Linux Enterprise Server ships with source code as well as operating system binaries.

Transparent licensing terms and conditions, together with readily available source code, encourage choice, competition in the marketplace and technical innovation, further reducing the risk of vendor lock-in and technology obsolescence.

What are the key innovations in SUSE Linux Enterprise Server?
SUSE Linux Enterprise Server ships with many innovative and essential capabilities, including a fast update stack, RAS advances, green IT innovations and modular extensions. These capabilities make it the preferred choice of customers seeking reliable and highly manageable server solutions.

SUSE Linux Enterprise Server 11 includes a set of technologies that enable IT managers to rapidly update systems and install new packages. ZYpp, the software package management subsystem in SUSE Linux Enterprise Server 11, automates the process of installing, removing, upgrading and configuring software packages. ZYpp, together with the libzypp library and Zypper, an easy-to-use command line tool, dramatically accelerates the resolution of dependencies, providing the fastest performance of any enterprise Linux distribution. Systems that might have taken hours to update now take minutes.

SUSE Linux Enterprise Server 11 supports swap over NFS, or support for using network file system (NFS) over Internet protocols (IP) to leverage remote storage for local server needs. No longer restricted to local storage for swap space, you can utilize less costly hardware and storage, use denser “diskless” server systems and simplify server administration. This reduces acquisition, implementation, administration and
management costs. By using swap over NFS, you can cost-effectively protect your systems against application restarts and expensive downtime. Also supported are control groups for more fine-grained management of CPU, memory, storage and networking resources. Control groups allow IT managers to assign specific hardware resources to applications, processes and threads, providing more granular control of resources and prioritized processing. This enables you to ensure that your high-priority processes and threads do not experience resource starvation and continue to execute as required. Cpuset can be used to facilitate the creation of these control groups and enables the efficient coordination, matching and management of applications and resources.

SUSE Linux Enterprise Server features innovative power saving capabilities that let you derive maximum performance per watt. For example, the Linux kernel uses periodic timer events called “ticks” that wake up the system and bring it out of its power saving “sleep” states, causing unnecessary power consumption. “Tickless idle,” a new kernel feature, eliminates periodic timer ticks when system CPUs are idle. This allows the CPU to remain in power-saving states for longer periods of time, lowering system power consumption and reducing costs. Also included in SUSE Linux Enterprise Server 11 are enhancements that eliminate unnecessary timer events, as well as more granular power profiles which are file-based and can be more easily used by IT managers for enterprise-wide power management.

SUSE Linux Enterprise II also offers advanced capabilities for high availability clustering and deterministic computing through optional, modular extensions. SUSE Linux Enterprise High Availability Extension is an integrated suite of open source clustering technologies that enables firms to implement enterprise-class clusters at the lowest cost, making high availability more affordable than ever. You can use this extension with SUSE Linux Enterprise Server to create highly available services, ensure continuous access to your systems and data, and reduce unplanned downtime. SUSE Linux Enterprise Real Time Extension transforms SUSE Linux Enterprise Server into a fully supported, real-time operating system, specifically engineered to reduce latency, and increase the predictability and reliability of your time-sensitive, mission-critical applications.

What systems management solutions are available for SUSE Linux Enterprise Server?

No other Linux server is easier to deploy, configure or maintain. SUSE Linux Enterprise Server ships with a comprehensive set of installation, configuration, deployment and administration tools. YaST® is a powerful, integrated Linux tool for installation, configuration and system administration. In addition to its command line tool options, it features a graphical user interface and modular design. You can use YaST to simplify server installation and easily configure networks. Moreover, you can use it to efficiently implement robust open source services included with the operating system—such as file and print, DNS, DHCP and Apache web services—both physical and virtual. Finally, open APIs allow you to write YaST plug-ins for your own applications. AutoYaST, which uses control files, is an extension to YaST that automates installation for large numbers of machines. You can deploy groups or subsets of fully configured systems in parallel and without user intervention, saving time and money.

SUSE Linux Enterprise Server can also be managed by other optional SUSE and third-party systems management tools. SUSE Manager delivers best-in-class Linux server management capabilities, like automated software management, system provisioning and monitoring. It enables customers to easily manage Linux server deployments across physical, virtual and cloud environments, decreasing total cost of ownership while improving compliance and service quality. You can even manage both SUSE Linux Enterprise and Red Hat Enterprise Linux servers from a single pane of glass. The adoption of open industry standards in SUSE Linux Enterprise, such as Web-Based Enterprise Management (WBEM) and Common Information Model (CIM), is an important step toward true integrated systems management of distributed and heterogeneous computing environments. As a result, SUSE Linux Enterprise Server can be managed alongside Windows servers by Microsoft System Center or any solution using CIM.
I already run UNIX and Windows machines in my enterprise and would like to add Linux. Can I easily integrate SUSE Linux Enterprise Server into this environment?

Every large enterprise has a mix of operating systems and hardware. SUSE Linux Enterprise Server 11 has been designed with that kind of heterogeneous environment in mind. Leveraging Samba technology, SUSE Linux Enterprise Server seamlessly integrates into and supports existing Windows file and print environments. In addition, it plugs into existing directory and domain infrastructures, including Microsoft Active Directory and Domains, NetIQ eDirectory and openLDAP.

SUSE Linux Enterprise Server also interoperates well with traditional UNIX operating environments. SUSE Linux Enterprise Server adheres to the Portable Operating System Interface for UNIX (POSIX), a family of specifications and standards for user and software interfaces to an operating system. As a POSIX-compliant operating system, SUSE Linux Enterprise Server is compatible with other POSIX-compliant UNIX variants, such as Solaris, AIX, and HP-UX.

With its broad use of open standards, SUSE Linux Enterprise Server enables you to share information across any IT system so that you can easily communicate between business divisions or business partners.

We do a fair amount of in-house application development. How can SUSE Linux Enterprise Server help me in this area?

SUSE Linux Enterprise 11 Service Pack 4 is delivered with a complete software development kit (SDK) for both server and desktop environments to facilitate the customization and rapid development of a broad range of applications. This comprehensive development environment includes all major open source compilers, libraries, debuggers, simulation tools, and editors necessary for developers, IHVs and ISVs to create applications or port them to SUSE Linux Enterprise Server. The SDK contains several integrated development environments as well as support for popular modern programming languages, such as C, C++, Java, Perl, Python, PHP and Ruby. Also included is Tomcat, a popular application for serving web applets.

What does SUSE offer in the way of Linux systems support?

SUSE has 20 years of experience supporting global enterprises with complex systems. More than 15,000 customers worldwide, representing every type of business, rely on SUSE. No matter what size your company or what business you are in, SUSE has the right level of support for you. You choose the resources you need to run your business efficiently and productively.

SUSE Linux Enterprise Server is backed by an award-winning SUSE technical support team. With eleven major global support centers and hundreds of Linux-trained engineers providing 24x7x365 availability, our support service has global around-the-clock reach, but you also can always talk to an engineer in your local language and time zone. SUSE has an expansive team of field engineers and service account managers who speak your language and can engage proactively with you on your site. And an independent study by Lighthouse Research confirms that SUSE leads the industry in overall quality of Linux-based technical support (see www.suse.com/support/survey.html).

SUSE is also committed to providing self-support resources that are powerful, yet easy to use. You can access the same knowledgebase our own support engineers use, post questions in our support forums, download patches and drivers and access a number of other tools. Our focus on quality self-support resources was recently recognized by the Association of Support Professionals, who again named Novell/SUSE as a “Best Support Web Site” winner for 2010. Moreover, SUSE has invested in state-of-the-art systems, infrastructure and processes to ensure you receive the same exceptional experience every time you contact support.

Finally, SUSE Linux Enterprise Server includes innovative diagnostic and reporting tools to accelerate problem determination and issue resolution. SUSE SupportLink
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is a YaST module and data collection technology that automatically captures support configuration information and sends it to SUSE via secure HTTP, if and when the user chooses. SUSE Support Link works with Customer Center and SupportAdvisor—a proactive support automation, diagnostic, and self-help tool—to help resolve issues faster and more accurately. SupportAdvisor reads log files and configuration settings, maps them to the latest known issues, analyzes the data, and generates results and recommendations for the user. As a result, you can diagnose problems more effectively and resolve issues faster with more efficient, accurate, and holistic incident reporting.

What kind of subscriptions does SUSE offer for SUSE Linux Enterprise Server?
SUSE offers its server OS products at two different subscription levels to accommodate the needs of its enterprise customers: Standard and Priority. A Standard subscription adds 12x5 email and phone-based technical support (with a four-hour response time) over the duration of the subscription (either one, three or five years). And a Priority subscription extends service coverage to 24x7 email and phone-based technical support (with a one-hour response time) over the duration of the subscription (either one, three or five years). For more information about these subscriptions, please visit: www.suse.com/products/server/how-to-buy/

We'd like to deploy Linux, and could use some assistance. How can SUSE help us?
You can deploy and manage SUSE Linux Enterprise Server solutions with complete confidence, knowing you’re backed by the world-class SUSE services organization. Whether you run a small business or a global enterprise, SUSE has the resources you need to build and manage your IT environment. Leverage our consulting experts, obtain industry-leading training, and access our award-winning support organization to ensure you get the most from your IT investment. You can count on SUSE to provide the services you need so you can focus on what matters most to you—your business.

However, the value that we deliver is not from our solutions alone. Interoperable solutions and mixed IT environments simply can’t work without strong, productive partnerships.

We share our product expertise, best practices and delivery methodologies with our qualified service partners so they can provide best-of-breed services for our solutions. We have nearly 5,100 partners, including some of the most respected names in the industry. These partners include 3,200 solution providers, value-added resellers (VARs) and value-added distributors (VADs), more than 500 training partners, and more than 1,300 technology partners, both independent software and hardware vendors.

SUSE and its partner organizations back SUSE Linux Enterprise Server with a comprehensive set of offerings for implementation and training, specialized practices in enterprise platform services, data center technologies and open source development. We are ready to help you quickly deploy SUSE Linux Enterprise Server inside your organization.

Why should I choose SUSE Linux Enterprise Server instead of Microsoft Windows, Red Hat Enterprise Linux, or Oracle Solaris?
SUSE Linux Enterprise Server is differentiated from other server operating systems by its interoperability, affordability, and vendor recommendations.

SUSE Linux Enterprise Server is uniquely designed for maximum interoperability with Windows environments. Since 2006, Microsoft and SUSE have been working together, specifically in the areas of cross-platform virtualization, identity and directory federation, and cross-platform systems management. Our joint goal is to ensure that SUSE Linux Enterprise Server environments and Microsoft Windows Server environments share data, communicate more easily with each other, and can be managed with a common set of tools. Interoperability is part of a larger, more pragmatic, company-wide mission to give SUSE customers the ability to use the best technology in support of their business objectives. We recognize that heterogeneous data centers are today’s reality, and we are committed to helping our customers maximize the utilization of their heterogeneous IT resources.

SUSE Linux Enterprise Server is a low-cost server operating system. SUSE Linux Enterprise Server environments typically cost less than traditional UNIX environments when you
consider the cost of operating system licenses, support and maintenance, hardware and systems management tools. Subscription pricing for SUSE Linux Enterprise Server is lower than for Solaris for x86 and x86_64 on systems with more than two CPUs. Oracle charges extra for server management tools that are included for free with SUSE Linux Enterprise Server. Furthermore, SPARC hardware is generally more expensive than hardware based on Intel and AMD processors. When all these facts are taken into consideration, SUSE Linux Enterprise Server is more affordable than traditional UNIX.

SUSE Linux Enterprise Server offers the strongest partner ecosystem of any enterprise Linux vendor. It is the only Linux server operating system recommended by Microsoft, SAP and VMware. Microsoft recommends SUSE Linux Enterprise Server to customers who run Windows and Linux in their data centers. This unique endorsement is made possible by the technical collaboration that exists between the two companies, together with the joint support programs that have been implemented to ensure customers have seamless, comprehensive one-stop support for their virtual Linux and Windows services. Similarly, SAP recommends SUSE Linux Enterprise as a preferred platform to customers who want to deploy SAP applications on Linux. Together, SAP and SUSE are reducing the complexity of application deployments, lowering costs and giving customers a single point of contact for acquiring and supporting a complete data center stack. VMware recommends SUSE Linux Enterprise Server for use in its virtual environments.

What are the benefits of a SUSE Linux Enterprise Server subscription?
When you choose SUSE Linux Enterprise Server, you’re selecting the most interoperable Linux platform for mission-critical computing. SUSE Linux Enterprise Server is backed by a ten-year lifecycle guarantee. During that time, you’ll receive the latest software enhancements, bug fixes and security patches through regular updates. This ensures that you always have the newest functionality and the best hardware support. Over the term of your subscription, SUSE works with leading hardware and software vendors to ensure that their latest products and enhancements are fully supported with your server OS. You also have access to numerous support services. Depending on the services you choose, your support can range from electronic assistance (via the web and email), to three tiers of telephone support or even the daily expertise of an on-site dedicated support professional.

How can I effectively track and manage my SUSE Linux Enterprise Server subscriptions and support entitlements?
Managing server subscriptions and support entitlements is easy with Customer Center and the Subscription Management Tool, included for free with each SUSE Linux Enterprise subscription.

Customer Center is a web-based portal that facilitates the registration, entitlement and tracking of SUSE Linux Enterprise subscriptions. SUSE understands that customers have many different kinds of employees who need access to customer support. Customer Center addresses those needs by providing all the information, tools and resources for the many customer contacts who have business and technical relationships with SUSE. This broad approach includes system administrators, IT managers, purchasers and others. System administrators easily get access to system information, subscription registration, and the patches and updates they need to address security and support concerns. IT managers are able to view the entire scope of their software contracts, including expiration dates, to effectively plan their spending. Purchasing agents can handle their part of the ordering process while leaving more technical tasks to their IT staff. By combining product, service and support options for customer contacts, Customer Center simplifies administration, making it faster, easier and more cost-effective for companies to do business with SUSE.

How much does SUSE Linux Enterprise Server cost?
There is no license cost for SUSE Linux Enterprise Server, and you can download the operating system for free from http://download.suse.com. SUSE charges a small fee, however, for support and maintenance. A paid subscription to SUSE Linux Enterprise Server comes with major benefits—immediate delivery of upgrades, patches and security fixes; access to award-winning SUSE technical support; IP indemnification; and much more. For our most current pricing, and more information about our Basic, Standard and Priority subscriptions, please visit: www.suse.com/products/server/how-to-buy/
The Subscription Management Tool for SUSE Linux Enterprise goes one step further by establishing a proxy system with repository and registration targets. This helps customers centrally manage software updates within their firewall on a per-system basis, while maintaining corporate security policies and regulatory compliance.

**Can I upgrade my existing systems from SUSE Linux Enterprise Server 10 or 11 to SUSE Linux Enterprise Server 11 Service Pack 4?**

Yes. You are entitled to upgrade any systems with an active SUSE Linux Enterprise Server subscription to SUSE Linux Enterprise Server 11 Service Pack 4. However, a direct upgrade or migration via bootable media is supported only from SUSE Linux Enterprise Server 11 Service Pack 3 to SUSE Linux Enterprise Server 11 Service Pack 4.

If you want to upgrade from SUSE Linux Enterprise Server 11 Service Pack 3 to SUSE Linux Enterprise Server 11 Service Pack 4, we recommend you use the tools and follow the steps outlined in the install media or release notes.

If you want to upgrade from SUSE Linux Enterprise Server 11 Service Pack 2 to SUSE Linux Enterprise Server 11 Service Pack 4, we recommend you first perform any necessary multi-step upgrades to SUSE Linux Enterprise Server 11 Service Pack 3, before upgrading to SUSE Linux Enterprise Server 11 Service Pack 4 following the steps outlined in the install media or release notes.

If you plan to upgrade from SUSE Linux Enterprise Server 10 to SUSE Linux Enterprise Server 11 Service Pack 4, we strongly recommend that you back up your system configurations and data, and do a completely new installation of SUSE Linux Enterprise Server 11 Service Pack 4.

**Where can I get more information about SUSE Linux Enterprise Server and related products, bundles and extensions?**

For more information about SUSE Linux Enterprise Server, related products, bundles and extensions, please visit: www.suse.com/products/server

**Can I use a single subscription of SUSE Linux Enterprise Server for multiple VMs?**

Yes; we sell subscriptions that specifically support virtual environments. Only one subscription is required per populated socket pair, regardless of how many virtual machine hosts or guests you intend to run on that socket pair. All SUSE Linux Enterprise Server VMs on a single host, regardless of what’s doing the virtualization, can use the same activation code for x86 and x86_64 architectures.