

**THINKSERVER OPERATING SYSTEMS
TESTED, CERTIFIED AND SUPPORTED**



Certification establishes a relationship between Lenovo® and leading vendors of operating systems that are selected for installation into ThinkServer® systems. Through certification, ThinkServer systems are tested with a defined code distribution to ensure that all basic functions work. Certification is part of Lenovo's commitment to providing customers with the information necessary to utilize particular operating systems.

The operating systems of four major code distributors have been identified for certification on ThinkServer® systems:

- **Microsoft®**
- **Novell®**
- **Red Hat®**
- **VMware®**

Each recognizes Lenovo® ThinkServer as a compatible and supported platform for its software

THROUGH CERTIFICATION, LENOVO IS ABLE TO:

- Test leading vendors' products for compatibility with ThinkServer systems
- Improve ease of installation
- Help reduce total cost of ownership

Certified vendors agree to work closely with Lenovo's engineers during product test cycles and over product lifecycles. Lenovo is committed to resolving problems before they have the opportunity to materialize and ultimately affect you. As part of certification, a set of solution building blocks—specific devices and applications—are tested in one or more operating system environments. This allows customers to build a complete server solution. The following compatibility testing by Lenovo and its participating vendors can help reduce the total cost of ownership by cutting down installation and setup time:

• **Discovery testing**

The tested platform is analyzed for any compatibility issues with the tested distribution and a determination is made on the steps necessary for each tested distribution to fully function on the tested platform

• **Certification testing**

Industry-standard testing is performed for the tested components of the tested platform

• **Certification reporting**

Certification results are published on the distributor or test facility web site. Workarounds and the steps necessary to get a given function to work (if it is not fully supported) are also identified. In addition to certification, Lenovo has performed compatibility testing with various operating systems and supports running the following operating systems on Lenovo ThinkServer products.



Microsoft® Windows Server® Operating Systems for Lenovo ThinkServer systems are designed to power the next generation of networks, applications and Web services. Windows Server® 2008 is a robust operating system. With built-in, enhanced web, management and virtualization capabilities, it is designed to increase the reliability and flexibility of your server infrastructure while helping save time and reduce costs. Powerful tools give you greater control over your servers and streamline configuration and management tasks. Plus, enhanced security features work to harden the operating system to help protect your data and network and provide a solid, highly-dependable foundation for your business. With Windows Server® 2008, everything needed to support server virtualization is available as an integral feature of the operating system. For more information, visit <http://www.windowsservercatalog.com>



SUSE® Linux® Enterprise Server from Novell® for Lenovo ThinkServer systems is an enterprise-grade Linux® operating system. Novell® is Lenovo's preferred Linux® provider for ThinkServer. The Novell® certification entails a bundled offering that includes the operating system license and support in a single, easy-to-purchase solution. This complete package delivers the most-interoperable, open-source Linux® server platform for business mission-critical applications. Together, Novell® and Lenovo provide small business owners with an affordable, scalable and easy-to-use server platform. Novell® and Lenovo have partnered for years to deliver innovative and high-value solutions to their customers that many times are industry firsts. For more information, visit <http://www.novell.com/partnerguide/index.html>



Red Hat® Enterprise Linux® is a central component of Red Hat's Linux® Automation strategy, which covers all facets of the IT environment necessary to enable any application to be run anywhere, at any time. The strategy creates an infrastructure which is built for automation, including virtualization, identity management, high availability and performance capabilities. Through its certification on Lenovo ThinkServer systems, Red Hat® offers an automated test suite, support during the testing process and access to online updates while the results are being reviewed. Red Hat® Enterprise Linux® is the most flexible operating system environment available. Enterprise Linux® solutions are ideal for deployments involving standalone or "bare metal" systems, virtualized systems, cloud computing and appliances. More than 3,000 applications are certified to run on Red Hat® Enterprise Linux®. For more information, visit <http://www.redhat.com/rhel/compatibility/hardware>



VMware® transforms or "virtualizes" the hardware resources of a Lenovo ThinkServer into software to create a fully functional virtual machine that can run its own operating system and applications just like a "real" computer. Multiple virtual machines share hardware resources without interfering with each other so that users can safely run several operating systems and applications at the same time on a single computer. Because ThinkServer systems are VMware®-ready, VMware® is responsible for auditing each test center to ensure that Lenovo is receiving quality service. In addition, VMware® is responsible for processing results and logs that are submitted by the testing center. For more information, visit <http://www.vmware.com/resources/compatibility>



SUPPORTED OPERATING SYSTEMS ON LENOVO® THINKSERVER® SYSTEMS

- (Certified) - OS vendor agrees we have met the standard required to claim certification.
- (Supported) - We could not get OS vendor certification, but Lenovo will still support the OS.
- Preload - We can install in our MFG site and have full support.

System	TD230		RD230		RD240		TS130		TS430	
	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup
Windows Server® 2003 R2 (x86 and x64)										
Windows Server® 2003 R2 Standard (x86 and x64) SP2			○		○		○(4)	●(4)	○(4)	●(4)
Windows Server® 2003 R2 Enterprise (x86 and x64) SP2			○		○		○(4)	●(4)	○(4)	●(4)
Windows® 7 (x86 and x64)										
Windows® 7 Ultimate (x86 and x64)							○			
Windows® 7 Professional (x86 and x64)							○			
Windows Server® 2008 x86 Edition										
Windows Server® 2008 Standard x86	●	●	○	●	○	●	○(4)		○(4)	●(4)
Windows Server® 2008 Enterprise x86	●	●	○	●	○	●	○(4)		○(4)	●(4)
Windows Server® 2008 Datacenter x86										
Windows Server® 2008 x64 Edition										
Windows Server® 2008 Foundations x64							○		●	●
Windows Server® 2008 Standard x64	●	●	●	●	●	●	○		●	●
Windows Server® 2008 Enterprise x64	●	●	●	●	●	●	○		●	●
Windows Server® 2008 Datacenter x64										
Windows Server® 2008 R2 (x64)										
Windows Server® 2008 R2 Foundations x64							○	●	●	●
Windows Server® 2008 R2 Standard x64	●	●	●	●	●	●	○	●	●	●
Windows Server® 2008 R2 Enterprise x64	●	●	●	●	●	●	○	●	●	●
Windows Server® 2008 R2 Datacenter x64										
Windows Server® 2008 R2 (x64) with SP1										
Windows Server® 2008 R2 Foundations SP1 x64							○	●	●	●
Windows Server® 2008 R2 Standard SP1 x64	●	●	●	●	●	●	○	●	●	●
Windows Server® 2008 R2 Enterprise SP1 x64	●	●	●	●	●	●	○	●	●	●
Windows Server® 2008 R2 Datacenter SP1 x64										
Windows® Small Business Server 2008 (x64)										
Windows® Essential Business Server 2008 Standard			●		●					
Windows® Essential Business Server 2008 Premium			●		●					
Windows® Small Business Server 2008 Standard SP2	●	●	●	●	●	●				
Windows® Small Business Server 2008 Premium SP2	●	●	●	●	●	●				

lenovo® FOR THOSE WHO DO.

System	TD230		RD230		RD240		TS130		TS430	
	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup	Supported / Certified	Easy Startup
Windows® Small Business Server 2011										
Windows® Small Business Server 2011 Essentials	●	●	●	●	●	●	○	●	●	●
Windows® Small Business Server 2011 Standard	●	●	●	●	●	●	○	●	●	●
Windows® Small Business Server 2011 Premium Add-on	●		●		●		○		●	
Windows® Multipoint Server										
Windows® Multipoint Server 2008										
Windows® Multipoint Server 2010										
Windows® Multipoint Server 2011							○			
Novell SLES										
SUSE® LINUX Enterprise Server 10 for x86 Service Pack 3			○ (2)	●	○	●			● (4)	● (4)
SUSE® LINUX Enterprise Server 10 for AMD64 & Intel64 Service Pack 3			○ (2)	●	○	●			● (4)	● (4)
SUSE® LINUX Enterprise Server 11 for x86	●	●	● (2)	●	●	●				
SUSE® LINUX Enterprise Server 11 for AMD64® & Intel® EM64T®	●	●	● (2)	●	●	●				
SUSE® LINUX Enterprise Server 11 for AMD64® & Intel® EM64T® with XEN	●	●								
SUSE® LINUX Enterprise Server 11 for x86 Service Pack 1									● (4)	● (4)
SUSE® LINUX Enterprise Server 11 for AMD64 & Intel64 Service Pack 1									●	●
Red Hat® Enterprise Linux 5 Server										
Red Hat® RHEL 5.3 (32 & 64-bit)	●		○ (2)	●	○	●				
Red Hat® RHEL 5.4 (32 & 64-bit)	●	●	● (2)	●	●	●				
Red Hat® RHEL 5.5 (32 & 64-bit)										
Red Hat® RHEL 5.6 (32 & 64-bit)									● (4)	● (4)
Red Hat® Enterprise Linux 6 Server										
Red Hat® RHEL 6.0 (32-bit)	●		● (2)		●				● (4)	● (4)
Red Hat® RHEL 6.0 (64-bit)	●		● (2)		●				●	●
VMware										
VMware ESXi 5.0	● (1)		● (3)		●				● (5)	
VMware ESX 4.1	● (1)		● (3)		●				● (5)	
VMware ESXi 4.1	● (1)		● (3)		●				● (5)	
VMware ESX 4.0	● (1)		● (3)		●					
VMware ESXi 4.0	● (1)		● (3)		●					

NOTES: (1) Models with OnBoard SATA RAID are not supported. Support is valid for models with OnBoard SATA (non-RAID) and LSI MegaRAID SAS 9240-8i. (2) Models with OnBoard SATA RAID are not supported. (3) Models with OnBoard SATA RAID are not supported. Support is valid for models with OnBoard SATA (non-RAID) and LSI MegaRAID 8708E/8708EM2 and LSI MegaRAID SAS 9260-8i. (4) Due to OS limitation, support is valid for Legacy mode (non-UEFI) of BIOS. (5) Models with OnBoard SATA RAID are not supported. OnBoard Intel 82579 PHY is not supported.

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