

## THINKSERVER OS AND VIRTUALIZATION OPTIONS

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## WINDOWS SERVER 2012 R2

ThinkServer systems power business-critical deployments with world-class quality and innovation. Microsoft server software delivers productivity and efficiency throughout your business. The combination of Lenovo ThinkServer and Microsoft Windows Server 2012 R2 will help you deliver and manage a cost-effective IT infrastructure—both physical and virtual. Windows Server 2012 R2 also helps you provide users with secure access from almost any place and any device, giving them the flexibility to stay productive while on the go.

## BEYOND SERVER VIRTUALIZATION

Windows Server 2012 R2 offers a dynamic, multitenant infrastructure to help you scale and secure workloads and build a private cloud. Windows Server 2012 R2 can help you provide:

- Live Migration—Improve VM availability with the ability to concurrently migrate an unlimited number of VMs
- Network Health Detection—Detect connectivity problems with Hyper-V on a protected virtual network. Automatically migrates VMs to a server where the network is available
- Software Defined Networking—Create network isolation without expensive changes to physical infrastructure

## IMPROVE STORAGE EFFICIENCY

- Improve storage availability, reduce costs and improve performance
- Keep database and VMs available with SMB 3.0
- Reduce file storage requirements with enhanced data deduplication
- Create pools of storage resources and get faster access to data with automatic storage tiering

## NETWORK INFRASTRUCTURE RESILIENCE

- Improve the reliability and scalability of your network
- Improve fault tolerance and throughputs through network teaming
- Keep clients connected with DHCP failover

## MICROSOFT WINDOWS SERVER OS CHOICES

DESCRIPTION	ORDERABLE PN
<b>Microsoft Windows Server 2012 R2 Reseller Option Kit</b>	
Microsoft Windows Server 2012 R2 Standard ROK (2 CPU / 2VMs)	4XI0E51561
Microsoft Windows Server 2012 R2 Datacenter ROK (2 CPU)	4XI0E51562
Microsoft Windows Server 2012 R2 Essentials ROK (1-2 CPU)	4XI0E51563
Microsoft Windows Server 2012 R2 Foundation ROK (1 CPU)	4XI0E51560
<b>Microsoft Windows Server 2012 Reseller Option Kit</b>	
Microsoft Windows Server 2012 Standard ROK (2 CPU / 2VMs)	82972SM
Microsoft Windows Server 2012 Datacenter ROK (2 CPU)	82972DM
Microsoft Windows Server 2012 Essentials ROK (1-2 CPU)	82972EM
Microsoft Windows Server 2012 Foundation ROK (1 CPU)	82972FM
<b>Microsoft Windows Server 2012 CALs (Use for both Server 2012 and Server 2012 R2)</b>	
Microsoft Windows Server 2012 Client Access License (1 Device)	0C19601
Microsoft Windows Server 2012 Client Access License (1 User)	0C19602
Microsoft Windows Server 2012 Client Access License (5 Device)	0C19603
Microsoft Windows Server 2012 Client Access License (5 User)	0C19604
Microsoft Windows Server 2012 Client Access License (10 Device)	0C19605
Microsoft Windows Server 2012 Client Access License (10 User)	0C19606
Microsoft Windows Server 2012 Client Access License (50 Device)	0C19607
Microsoft Windows Server 2012 Client Access License (50 User)	0C19608
<b>Microsoft Windows Server 2012 RDS CALs (Use for both Server 2012 and Server 2012 R2)</b>	
Microsoft Windows Server 2012 Remote Desktop Services Client Access License (5 Device)	0C19609
Microsoft Windows Server 2012 Remote Desktop Services Client Access License (5 User)	0C19610
Microsoft Windows Server 2012 Remote Desktop Services Client Access License (1 Device)	0C19611
Microsoft Windows Server 2012 Remote Desktop Services Client Access License (1 User)	0C19612
<b>Microsoft Windows Server 2008 R2 SP1 Reseller Option Kit</b>	
Microsoft Windows Server 2008 R2 SP1 Enterprise MUI (EFIGS) <sup>1</sup> – w 25 CALs	84978PF
Microsoft Windows Server 2008 R2 SP1 Enterprise MUI (EN / JP) <sup>2</sup> – w 25 CALs	84978PJ
Microsoft Windows Server 2008 R2 SP1 Standard MUI (EFIGS) <sup>1</sup> – w 5 CALs	84978OF
Microsoft Windows Server 2008 R2 SP1 Standard MUI (EN / JP) <sup>2</sup> – w 5 CALs	84978OJ
Microsoft Windows Server 2008 R2 SP1 Foundation ROK MUI (EFIGS) <sup>1</sup> – w 15 CALs	84978HF
Microsoft Windows Server 2008 R2 SP1 Foundation ROK MUI (ENG / JP) <sup>2</sup> – w 15 CALs	84978HD
<b>Microsoft Windows Server 2008 R2 Reseller Option Kit</b>	
Microsoft Windows Server 2008 R2 Datacenter (2 CPU) ROK	0C19613
Microsoft Windows Server 2008 R2 Enterprise MUI (EFIGS) <sup>1</sup> – w 25 CALs	84978PE
Microsoft Windows Server 2008 R2 Enterprise MUI (EN / JP) <sup>2</sup> – w 25 CALs	84978PA
Microsoft Windows Server 2008 R2 Enterprise English – w 25 CALs	84978LE
Microsoft Windows Server 2008 R2 Enterprise German – w 25 CALs	84978LG
Microsoft Windows Server 2008 R2 Standard MUI (EFIGS) <sup>1</sup> – w 5 CALs	84978OE
Microsoft Windows Server 2008 R2 Standard MUI (EN / JP) <sup>2</sup> – w 5 CALs	84978OA
Microsoft Windows Server 2008 R2 Standard English – w 5 CALs	84978KE
Microsoft Windows Server 2008 R2 Standard German – w 5 CALs	84978KG
Microsoft Windows Server 2008 R2 Foundation MUI (ENG / JP) <sup>2</sup> – w 15 CALs	84978HA
Microsoft Windows Server 2008 R2 Foundation MUI (EFIGS) <sup>1</sup> – w 15 CALs	84978HE

<sup>1</sup> English, French, Italian, German and Spanish  
<sup>2</sup> English and Japanese



## VMware® vSphere 5

### Lenovo ThinkServer Solutions with VMware

Lenovo and VMware together allow you to virtualize and consolidate your server applications to reduce overall capital and operating expenses. Through our strong partnership, you can implement Lenovo ThinkServer and VMware virtualization solutions for server virtualization, desktop virtualization and cloud computing confidently. You can rely on Lenovo and VMware to deliver trusted, proven, certified solutions designed for a virtualized infrastructure.

### Reduce IT Costs through Increased Utilization

Whether you are small, medium or large enterprise, Lenovo and VMware can help you realize the benefits of virtualization. Jointly, Lenovo and VMware can help you to reduce hardware costs, operating costs and energy costs for your server workloads. By running VMware with your Lenovo ThinkServer, you can significantly increase hardware utilization without compromising end-to-end performance.

### Centralized Management of your Virtual Infrastructure

Manage your entire virtualized and non-virtualized infrastructure from a single point of control. The Lenovo ThinkServer Partner Pack for VMware vCenter provides a centralized console to manage and monitor the performance of your virtual environment. This free plug-in seamlessly integrates with your VMware vCenter virtualization management platform and allows you to administer your entire vSphere infrastructure from a single location. Simply download the Lenovo ThinkServer Partner Pack for VMware vCenter and deploy today.

### Cloud Ready

Build and run your secure VMware vSphere-based Cloud infrastructure on Lenovo ThinkServer. Change your business economics by converting IT from a cost center to a strategic center of business innovation through Cloud Computing. Lenovo and VMware can help you remove complexity and implement a flexible and scalable environment that is dynamic, efficient and agile.

## Compare VMware® vSphere Editions

### VMware® vSphere Enterprise Editions

Benefits	vSphere 5 Editions For larger environments		
	Standard	Enterprise	Enterprise +
<b>Consolidation and Availability</b> Convert Physical System to Virtual Machines, Leverage Live Migration (vMotion, Storage vMotion) and Enable High Availability (HA)	●	●	●
<b>Continuous Availability</b> Fault Tolerance (FT) for Applications	●	●	●
<b>Automated Resource Management</b> Deliver Load Balancing (DRS), Power Management (DPM) without Manual Intervention	-	●	●
<b>Simplified Operations</b> Advanced Networking (Distributed Network Switch, I/O Control, SR-IOV) Advanced Storage (Storage DRS, Profile-Driven Storage, I/O Control) and Host Deployment/Configuration (Auto Deploy, Host Profiles) for More OPEX Savings	-	-	●

### VMware® vSphere Essentials Kits

Benefits	vSphere 5 Essentials For smaller environments	
	Essentials	Essentials +
Make better use of existing infrastructure	●	●
Save time in managing infrastructure with vCenter central management	●	●
Improve application availability with • vMotion (no planned downtime) • High Availability (business continuity)	-	●
Protect business data with VMware® Data Protection, vShield EndPoint and vSphere Replication	-	●



## VMware® vSphere 5 with Operations Management

vSphere with Operations Management combines the world's leading virtualization platform with best-in-class management capabilities. This new solution enables users to gain operational insight into a vSphere environment while optimizing capacity. As vSphere environments continue to grow, users need proactive management that can deliver monitoring, performance and capacity information at a glance. This detailed analysis enables users to get the most out of the virtualization platform by reclaiming unused capacity, rightsizing virtual machines, improving utilization and helping to increase consolidation ratios. Supporting more than 3,000 applications from more than 1,650 ISV partners, vSphere provides the broadest choice for virtualizing business-critical applications.

- **Improve application performance and business continuity** – vSphere with Operations Management supports even the most resource-intensive applications to guarantee SLAs and availability. It reduces the cost and complexity of managing business continuity and disaster recovery with always-on IT capabilities and layered protection against service outages and data loss.
- **Simplify IT operations at a lower cost** – vSphere with Operations Management lowers operational overhead and dramatically simplifies the management of development, quality assurance and production IT environments that are large and geographically distributed.
- **Gain operational insight** – vSphere with Operations Management enables IT to respond to performance trends proactively. It collects and analyzes performance data, correlates abnormalities and identifies the root cause of building performance issues.
- **Optimize capacity** – vSphere with Operations Management makes it easier to manage and optimize capacity planning. Unused virtual machines can be reclaimed and underprovisioned virtual machines can be rightsized, helping to make the most efficient use of resources.
- **vSphere with Operations Management is available in three editions** – Standard, Enterprise and Enterprise Plus – and in several vSphere with Operations Management Acceleration Kits.

### VMware®

#### VMware® vSphere 5

VMware® vSphere 5 is the industry-leading virtualization platform for building cloud infrastructures that enables users to run business-critical applications with confidence and even help them to respond faster.

#### VMware vCenter

VMware vCenter automates operations management using patented analytics and an integrated approach to performance, capacity and configuration management.

#### VMware vCloud

VMware vCloud lets you build and run a vSphere-based private cloud that delivers cloud service provider economics at scale, application provisioning in minutes and automated operations management.

#### VMware® vSphere® with Operations Management

vSphere with Operations Management combines the world's leading virtualization platform with best-in-class management capabilities.

#### VMware Virtual SAN 5

VMware Virtual SAN is the industry leader in hyper-converged software-defined storage for virtual environments.

#### VMware Horizon

VMware Horizon delivers virtualized and remote desktops and applications through a single platform and supports end users with access to all of their Windows and online resources through one unified workspace.

Basic SNS		Production SNS	
1 Year	3 Years	1 Year	3 Years
4L40G84803	VMware vCenter Server 5 Foundation for vSphere up to 3 hosts (per instance)		
4L40G84804	4L40G84805	4L40G84806	4L40G84807
4L40G84808	VMware vCenter Server 5 Standard for vSphere 5 (per instance)		
4L40G84809	4L40G84810	4L40G84811	4L40G84812
4L40G84813	VMware vSphere 5 Enterprise for 1 processor		
4L40G84814	4L40G84815	4L40G84816	4L40G84817
4L40G84818	VMware vSphere 5 Enterprise Plus for 1 processor		
4L40G84819	4L40G84820	4L40G84821	4L40G84822
4L40G84826	VMware vSphere 5 Essentials Plus Kit for 3 hosts (Max 2 processors per host)		
4L40G84827	4L40G84828	4L40G84829	4L40G84830
4L40G84831	VMware vSphere 5 Standard for 1 processor		
4L40G84832	4L40G84833	4L40G84834	4L40G84835
4L40G84836	VMware vCenter for Site Recovery Manager 5 Standard (25 VM Pack)		
4L40G84837	4L40G84838	4L40G84839	4L40G84840
4L40G84841	VMware vCenter for Site Recovery Manager 5 Enterprise (25 VM Pack)		
4L40G84842	4L40G84843	4L40G84844	4L40G84845
4L40G84846	VMware vCloud Suite 5 Standard		
4L40G84847	4L40G84848	4L40G84849	4L40G84850
4L40G84851	VMware vCloud Suite 5 Advanced		
4L40G84852	4L40G84853	4L40G84854	4L40G84855
4L40G84856	VMware vCloud Suite 5 Enterprise		
4L40G84857	4L40G84858	4L40G84859	4L40G84860
4L40G84876	VMware Horizon Advanced Edition: 10 Pack (CCU)		
4L40G84877	4L40G84878	4L40G84879	4L40G84880
4L40G84881	VMware Horizon Advanced Edition: 100 Pack (CCU)		
4L40G84882	4L40G84883	4L40G84884	4L40G84885
4L40G84886	VMware Horizon Enterprise Edition: 10 Pack (CCU)		
4L40G84887	4L40G84888	4L40G84889	4L40G84890
4L40G84891	VMware Horizon Enterprise Edition: 100 Pack (CCU)		
4L40G84892	4L40G84893	4L40G84894	4L40G84895
4L40G84896	VMware Horizon View Standard Edition: 10 Pack (CCU)		
4L40G84897	4L40G84898	4L40G84899	4L40G84900
4L40G84901	VMware Horizon View Standard Edition: 100 Pack (CCU)		
4L40G84902	4L40G84903	4L40G84904	4L40G84905
4L40G84906	VMware Horizon View Standard Add-On: 10 Pack (CCU)		
4L40G84907	4L40G84908	4L40G84909	4L40G84910
4L40G84911	VMware Horizon View Standard Add-On: 100 Pack (CCU)		
4L40G84912	4L40G84913	4L40G84914	4L40G84915
4L40G84916	VMware vSphere with Operations Management Standard		
4L40G84917	4L40G84918	4L40G84919	4L40G84920
4L40G84921	VMware vSphere with Operations Management Enterprise		
4L40G84922	4L40G84923	4L40G84924	4L40G84925
4L40G84926	VMware vSphere with Operations Management Enterprise Plus License		
4L40G84927	4L40G84928	4L40G84929	4L40G84930



**PREVIOUS GENERATION THINKSERVER**

Operating System / Hypervisor	TD230			RD230			RD240			TS130			TS430			RD530			RD630			RD330			RD430		
	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup
<b>Windows® Small Business Server 2011</b>																											
Windows® Small Business Server 2011 Essentials	●		●	●		●	●		●	○	●	●	●	●	●							● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>
Windows® Small Business Server 2011 Standard	●		●	●		●	●		●	○	●	●	●	●	●	●		●	●		●	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>
Windows® Small Business Server 2011 Premium Add-on	●			●			●			○	●	●	●	●	●				●			● <sup>(5)</sup>			● <sup>(5)</sup>		
<b>Windows Server 2012</b>																											
Windows Server® 2012 Foundation											●	●	●	●	●	●											
Windows Server® 2012 Standard											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Windows Server® 2012 Datacenter																											
Windows Server® 2012 Essentials											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Windows Storage Server 2012 Standard																											
Windows Server® 2012 Hyper-V											●			●				●				●			●		
<b>Windows Server 2012 R2</b>																											
Windows Server® 2012 R2 Foundation														●		●											
Windows Server® 2012 R2 Standard														○		●	●	●	●	●	●	●	●	●	●	●	●
Windows Server® 2012 R2 Datacenter																											
Windows Server® 2012 R2 Essentials														○		●	●	●	●	●	●	●	●	●	●	●	●
Windows Server® 2012 R2 Hyper-v														○		●	●										
<b>Windows® Multipoint Server</b>																											
Windows® Multipoint Server 2011														○	●	●		●									
<b>Novell SLES</b>																											
SUSE® LINUX Enterprise Server 10 for x86 Service Pack 3				○ <sup>(1)</sup>		●	○		●																		
SUSE® LINUX Enterprise Server 10 for AMD64 & Intel64 Service Pack 3				○ <sup>(1)</sup>		●	○		●																		
SUSE® LINUX Enterprise Server 10 for x86 Service Pack 4														●		●											
SUSE® LINUX Enterprise Server 10 for AMD64 & Intel64 Service Pack 4														●		●											
SUSE® LINUX Enterprise Server 11 for x86	●		●	● <sup>(1)</sup>		●	●		●																		
SUSE® LINUX Enterprise Server 11 for AMD64 & Intel® EM64T®	●		●	● <sup>(1)</sup>		●	●		●																		
SUSE® LINUX Enterprise Server 11 for AMD64 & Intel® EM64T® with XEN	●		●																								
SUSE® LINUX Enterprise Server 11 for x86 Service Pack 1														● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>				● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>
SUSE® LINUX Enterprise Server 11 for AMD64 & Intel64 Service Pack 1														●		●	●				●	●		● <sup>(5)</sup>	● <sup>(5)</sup>	● <sup>(5)</sup>	● <sup>(5)</sup>
SUSE® LINUX Enterprise Server 11 for x86 Service Pack 2														● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>				● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>
SUSE® LINUX Enterprise Server 11 for AMD64 & Intel64 Service Pack 2														●		●	●				●	●		● <sup>(5)</sup>	● <sup>(5)</sup>	● <sup>(5)</sup>	● <sup>(5)</sup>

**PREVIOUS GENERATION THINKSERVER**

Operating System / Hypervisor	TD230			RD230			RD240			TS130			TS430			RD530			RD630			RD330			RD430				
	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup		
<b>Red Hat® Enterprise Linux 5 Server</b>																													
RedHat RHEL 5.6 (32 & 64-bit)													●		●														
Red Hat® RHEL 5.7 (32-bit)													●		●	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>	
Red Hat® RHEL 5.7 (64-bit)													● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>	
Red Hat® RHEL 5.8 (32-bit&64-bit)													● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>	
Red Hat® RHEL 5.10 (32-bit)										●		●	●		●	●		●											
Red Hat® RHEL 5.10 (64-bit)										●		●	●		●	●		●											
<b>Red Hat® Enterprise Linux 6 Server</b>																													
RedHat RHEL 6.0 (32 & 64-bit)													●		●														
Red Hat® RHEL 6.1 (32-bit)	●			● <sup>(1)</sup>			●									● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>	
Red Hat® RHEL 6.1 (64-bit)	●			● <sup>(1)</sup>			●									●		●	●		●	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>	
Red Hat® RHEL 6.2 (32-bit)												● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>	
Red Hat® RHEL 6.2 (64-bit)												○ <sup>(5)</sup>		●	●	●		●	●		●	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>	
Red Hat® RHEL 6.3 (32-bit)													● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>		● <sup>(2)</sup>	● <sup>(2)</sup>	
Red Hat® RHEL 6.3 (64-bit)													●		●	●		●	●		●	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>	
Red Hat® RHEL 6.5 (32-bit)										●		●	●		●	●		●											
Red Hat® RHEL 6.5 (64-bit)										●		●	●		●	●		●											
<b>VMware</b>																													
VMware ESXi 5.5													● <sup>(3)</sup>		● <sup>(3)</sup>	● <sup>(6)(8)</sup>		● <sup>(6)</sup>	● <sup>(6)(8)</sup>		● <sup>(6)</sup>	● <sup>(6)(8)</sup>		● <sup>(6)</sup>	● <sup>(6)(8)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>	
VMware ESXi 5.1													● <sup>(3)</sup>		● <sup>(3)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>	
VMware ESXi 5.0 U1													● <sup>(3)</sup>		● <sup>(3)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>	
VMware ESXi 5.0	●			●			●						● <sup>(3)</sup>		● <sup>(3)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>		● <sup>(6)</sup>	● <sup>(6)</sup>	
VMware ESX 4.1	●			●			●																						
VMware ESXi 4.1	●			●			●																						
VMware ESXi 4.1 U1													● <sup>(3)</sup>																
VMware ESX 4.1 U1													● <sup>(3)</sup>																
VMware ESX 4.0	●			●			●																						
VMware ESXi 4.0	●			●			●																						
VMware ESXi 5.5 U1													●		●	●		●											
VMware ESXi 5.1 U2													●		●	●		●											
<b>Citrix</b>																													
Citrix XenServer 6.0.2													● <sup>(3)</sup>			● <sup>(3)</sup>			● <sup>(3)</sup>		● <sup>(3)</sup>		● <sup>(3)</sup>		● <sup>(3)</sup>		● <sup>(3)</sup>	● <sup>(3)</sup>	



**PREVIOUS GENERATION THINKSERVER**

Operating System / Hypervisor	TS140			TS440			RD540			RD640			RD340			RD440			TD340			RS140			
	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	
<b>Windows Server® 2003 R2 (x86 and x64)</b>																									
Windows Server® 2003 R2 Standard (x86 and x64) SP2																									
Windows Server® 2003 R2 Enterprise (x86 and x64) SP2																									
<b>Windows® 7 (x86 and x64)</b>																									
Windows® 7 Ultimate (x86 and x64) SP1	○			○																			○		
Windows® 7 Professional (x86 and x64) SP1	○			○																			○		
<b>Windows 8</b>																									
Windows 8 (32bit and 64bit)	○			○																			○		
Windows 8 Professional (32bit and 64bit)	○			○																			○		
<b>Windows 8.1 (x86 and x64)</b>																									
Windows 8.1 (x86 and x64)	○			○																			○		
<b>Windows Server® 2008 x86 Edition</b>																									
Windows Server® 2008 Standard x86							○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>				
Windows Server® 2008 Enterprise x86							○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>				
Windows Server® 2008 Datacenter x86							○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>	○ <sup>(2)</sup>		● <sup>(2)</sup>				
<b>Windows Server® 2008 x64 Edition</b>																									
Windows Server® 2008 Foundations x64																									
Windows Server® 2008 Standard x64							●		●	●		●	●		●	●		●	●		●				
Windows Server® 2008 Enterprise x64							●		●	●		●	●		●	●		●	●		●				
Windows Server® 2008 Datacenter x64							●		●	●		●	●		●	●		●	●		●				
Hyper-v server 2008							● <sup>(2)</sup>		●	● <sup>(2)</sup>		●	● <sup>(2)</sup>		●	● <sup>(2)</sup>		●							
<b>Windows Server® 2008 R2 (x64) with SP1</b>																									
Windows Server® 2008 R2 Foundations SP1 x64	●	●	●	●	●	●																●		●	
Windows Server® 2008 R2 Standard SP1 x64	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	●		●	●		●	●		●	●		●	●		●	●		●	
Windows Server® 2008 R2 Enterprise SP1 x64	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	●		●	●		●	●		●	●		●	●		●	●		●	
Windows Server® 2008 R2 Datacenter SP1 x64							●		●	●		●	●		●	●		●	●		●			●	
Hyper-v server 2008 R2 with SP1							●		●	●		●	●		●	●		●							
<b>Windows® Small Business Server 2011</b>																									
Windows® Small Business Server 2011 Essentials	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	●		●	●		●	●		●	●		●	●		●	●		●	
Windows® Small Business Server 2011 Standard	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	●		●	●		●	●		●	●		●	●		●	●		●	
Windows® Small Business Server 2011 Premium Add-on	● <sup>(5)</sup>		● <sup>(5)</sup>	● <sup>(5)</sup>		● <sup>(5)</sup>	●		●	●		●	●		●	●		●	●		●	●		●	
<b>Windows Server 2012</b>																									
Windows Server® 2012 Foundation	●	●	●	●	●	●																●	●	●	
Windows Server® 2012 Standard	●	●	●	●	●	●	●		●	●		●	●		●	●		●	●		●	●		●	
Windows Server® 2012 Datacenter				●		●	●		●	●		●	●		●	●		●	●		●	●		●	
Windows Server® 2012 Essentials	●	●	●	●	●	●	●		●	●		●	●		●	●		●	●		●	●		●	
Window Storage Server 2012 Standard	●			●			●		●			●			●			●				●			
Windows Server® 2012 Hyper-V							●		●	●		●	●		●	●		●							





**PREVIOUS GENERATION THINKSERVER**

Operating System / Hypervisor	TS140			TS440			RD540			RD640			RD340			RD440			TD340			RS140		
	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup	Compatible / Certified	Preload Avail	Easy Startup
<b>Citrix</b>																								
Citrix XenServer 6.0.2							●(2)		●(2)	●(2)		●(2)	●(2)		●(2)	●(2)		●(2)	●(2)(6)		●(2)(6)			
Citrix XenServer 6.1							●(2)		●(2)	●(2)		●(2)	●(2)(6)		●(2)(6)	●(2)(6)		●(2)(6)	●(2)(6)		●(2)(6)			
Citrix Xen server 6.2				○			○						○						○					
<b>NeoKylin</b>																								
NeoKylin 6.0	■			■			■			■			■			■			■			■		

**NOTES**

- 1 Models with OnBoard SATA RAID are not supported.
- 2 Due to OS limitation, support is valid for Legacy mode (non-UEFI) of BIOS.
- 3 Models with Software raid are not supported.
- 4 Models with OnBoard SATA RAID are not supported in UEFI mode of BIOS. Support is valid in Legacy mode (non-UEFI) of BIOS.
- 5 Models with OnBoard SATA/SAS RAID are not supported in UEFI mode of BIOS. Support is valid in Legacy mode (non-UEFI) of BIOS.
- 6 Models with OnBoard SAS/SATA RAID are not supported.
- 7 OB NIC driver (I217) is not supported
- 8 Must update BIOS to 8.20 or later.
- 9 Supported in AHCI mode only
- 10 If need support VMware, must select CPU with graphic and add on NIC card
- 11 Only support VMware5.5 Rollup
- 12 The iKVM is not supported in RHEL 7.0
- 13 RHEL 7.0 cannot be installed remotely through the TMM, the user must install the OS locally

**Preload – We can install in our MFG site and have full support**

**ThinkServer EasyStartup**

- Simplifies the process of configuring RAID and installing supported Microsoft Windows and Linux operation systems and device drivers
- Provided with your server on a self-starting (bootable) ThinkServer EasyStartup DVD

**ThinkServer Deployment Manager (LEPT)**

- Simplifies the process of configuring RAID, configuring BIOS settings, and installing supported Windows or Linux operating systems and device drivers on your server
- This program is embedded into your server firmware. The help system for the program can be accessed directly from the program interface

- – Lenovo Supported and certified  
OS is certified and passes OSV logo requirements  
Drivers are available and provided  
Customers can call Lenovo support regarding platform hardware or OS
- – Lenovo Supported  
Not currently certified  
Lenovo will provide drivers  
Customers can call Lenovo support regarding platform hardware or OS
- – Lenovo Tested and Vendor Certified  
OS is certified and passes OSV logo requirements  
Lenovo will not provide drivers  
Customers can leverage the OSV's support channels to obtain OS support
- – Lenovo Tested  
OS/hypervisor installs on a minimal hardware configuration  
Lenovo will not provide drivers



**CURRENT GENERATION THINKSERVER**

Operating System / Hypervisor	RD550			RD650			TD350			RD350			RD450		
	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT
<b>Windows 8</b>															
Windows 8 Professional (32 bit and 64 bit)							○								
<b>Windows 8.1 (x86 and x64)</b>															
Windows 8.1 (x86 and x64)							○								
Windows 8.1 Professional (x86 and x64)							○								
<b>Windows Server® 2008 R2 (x64) with SP1</b>															
Windows Server® 2008 R2 Foundations with SP1 x64	●		●	●		●	●		●	●		●	●		●
Windows Server® 2008 R2 Standard with SP1 x64	●		●	●		●	●		●	●		●	●		●
Windows Server® 2008 R2 Enterprise with SP1 x64	●		●	●		●	●		●	●		●	●		●
Windows Server® 2008 R2 Datacenter with SP1 x64	●		●	●		●	●		●	●		●	●		●
Hyper-v server 2008 R2 with SP1	●		●	●		●	●		●	●		●	●		●
<b>Windows® Small Business Server 2011</b>															
Windows® Small Business Server 2011 Essentials	●			●			●			●			●		
Windows® Small Business Server 2011 Standard	●		●	●		●	●		●	●		●	●		●
Windows® Small Business Server 2011 Premium Add-on	●		●	●		●	●		●	●		●	●		●
<b>Windows Server 2012</b>															
Windows Server® 2012 Foundation	●		●	●		●	●	●	●	●		●	●		●
Windows Server® 2012 Standard	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Windows Server® 2012 Datacenter	●		●	●		●	●		●	●		●	●		●
Windows Server® 2012 Essentials	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Window Storage Server 2012 Standard	●		●	●		●	●	●	●	●		●	●		●
Windows Server® 2012 Hyper-V	●		●	●		●	●		●	●		●	●		●
<b>Windows Server 2012 R2</b>															
Windows Server® 2012 R2 Foundation	●		●	●		●	●		●	●		●	●		●
Windows Server® 2012 R2 Standard	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Windows Server® 2012 R2 Datacenter	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Windows Server® 2012 R2 Essentials	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Window Storage Server 2012 R2 Standard	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Windows Server® 2012 R2 Hyper-v	●		●	●		●	●		●	●		●	●		●
<b>Windows® Multipoint Server</b>															
Windows® Multipoint Server 2012	●			●			●			●			●		
<b>Novell SLES</b>															
SUSE® LINUX Enterprise Server 11 for x86 with SP3	●			●			●			●			●		
SUSE® LINUX Enterprise Server 11 for AMD64 & Intel64 with SP3	●		●	●		●	●		●	●		●	●		●

## CURRENT GENERATION THINKSERVER

Operating System / Hypervisor	RD550			RD650			TD350			RD350			RD450		
	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT	Compatible / Certified	Preload Avail	LEPT
<b>Red Hat® Enterprise Linux 6 Server</b>															
Red Hat® RHEL 6.5 (32-bit)	●			●			●			●			●		
Red Hat® RHEL 6.5 (64-bit)	●		●	●		●	●		●	●		●	●		●
<b>Red Hat® Enterprise Linux 7 Server</b>															
Red Hat® RHEL 7 (64-bit) <sup>(12), (13)</sup>	●		●	●		●	●		●	●		●	●		●
<b>Vmware</b>															
VMware ESXi 5.5 U2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
VMware ESXi 5.1 P5	●		●	●		●	●		●	●		●	●		●
<b>NeoKylin</b>															
NeoKylin 6.0	■			■			■			■			■		

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THOSE  
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