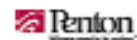


Microsoft Windows Server 2008 and Red Hat Enterprise Linux Server 5 Security Feature Comparison

Application Server				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Security Gateway	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Reduced Server Core Configuration	◐	●	Windows 2008 includes Server Core minimal server installation option.	Red Hat Enterprise Linux 5 Server includes configuration server.
Directory Services				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
LDAP Server	●	●	Windows Server 2008 includes LDAP.	Red Hat Enterprise Linux 5 Server uses Open LDAP.
LDAP Client	●	●		
Certificate Services	●	●	Available in both Windows Server 2008 and Red Hat Enterprise 5 Linux Server.	
Network Identity	●	◐	Windows Server 2008 uses Active Directory Domain Services to manage domain services between users and domains.	Red Hat Enterprise Linux 5 Server provides partial support for domain services.
Identity Management	●	●	Available in Windows Server 2008 through Active Directory and MIIS 2003 SP1.	Available in Red Hat Enterprise Linux 5 Server.
Rights Management Services	●	●	Available in Windows Server 2008 through Active Directory Rights Management Services.	Available in Red Hat Enterprise Linux 5 Server through SELinux.
Read-Only Domain Controller	●	◐	Windows Server 2008 provides a read-only domain controller (RODC) which hosts read-only partitions of the Active Directory Domain Services (AD DS) database.	Red Hat Enterprise Linux 5 Server provides partial read-only domain controller support.
Server and Domain Isolation	●	◐	Available in Windows Server 2008 through Active Directory Domain Services.	Red Hat Enterprise Linux 5 includes partial support for server and domain isolation.
DNS Server				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
DNSSEC	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
TSIG (Transaction Signature)	●	●		
File Services				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Encrypting File System	●	◐	Windows Server 2008 includes encryption for files and folders on client computers and remote file servers.	Not available in Red Hat Enterprise Linux 5 Server. However, other Red Hat products do offer some file encryption capabilities.
Full Hard Drive Encryption	●	◐	Windows Server 2008 provides the ability to encrypt the entire hard drive through the BitLocker feature.	Red Hat Enterprise Linux 5 Server offers limited disk encryption through dm-crypt.

Comparison Legend	
Not Applicable	○
Available	●
Partially Available	◐
Not Available	⊗
Present, but not as robust	◑
Feature of RHEL 5 Advanced Platform	◆



Group Policy				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Group Policy Management	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
General Security Services				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Security Auditing	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Smart Card Support	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Sudo	○	●	Windows Server 2008 does not include Sudo, given that it is a Linux-only command. However, Windows does include authorization management tools.	Available in Red Hat Enterprise Linux 5 Server.
Security Configuration Tools	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Security Assessment Tool	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Automated Update Services	●	●	Available in Windows Server 2008 through Windows Server Update Services (WSUS).	Available in Red Hat Enterprise Linux 5 Server.
Encrypted Executables	●	⊗	Windows Server 2008 can encrypt executables as they run so that code cannot be injected into a program.	Not available in Red Hat Enterprise Linux 5 Server.
Hot Patching	●	○	Available in Windows Server 2008.	Available for Red Hat Enterprise Linux 5 Server through third-party product Ksplice.
Stack Randomizations/Memory Scramble/Heap Scramble	●	⊗	Available in Windows Server 2008.	Not available in Red Hat Enterprise Linux 5 Server.
Real-Time Memory Checksums	●	⊗	Available in Windows Server 2008.	Not available in Red Hat Enterprise Linux 5 Server.
Single Sign-On	●	○	Available in Windows Server 2008.	Red Hat Enterprise Linux 5 Server includes partial support for single sign-on.
Networking, Network Policy, and Network Access				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Proxy Service/RADIUS Support	●	●	Windows Server 2008 includes Network Policy Server, Microsoft's implementation of RADIUS.	Red Hat Enterprise Linux 5 Server includes proxy service/radius support.
Software Firewall	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Internet Protocol Security (IPsec)	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Network Access Security	●	○	Available in Windows Server 2008 using Network Access Protection (NAP.)	Available for Red Hat Enterprise Linux 5 Server through third-party product Avenda NAP.

Printing				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Printer Security	●	●	Available in Windows Server 2008.	Available in Red Hat Enterprise Linux 5 Server through Samba.
Server Management				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Authorization Manager	●	●	Available in Windows Server 2008.	Available in both Red Hat Enterprise Linux 5 Server through SELinux.
Terminal Services				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Remote Access	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server through secure remote access.	
Gateway Services	●	●		
Web Services				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Web Server Authentication	●	●	All features listed here are available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
IPV4 Address and Domain Name Rules	●	●		
URL Authorization	●	●		
ISAPI And CGI Restrictions	●	●		
Secure Sockets Layer	●	●		
Virtualization Services				
	Windows Server 2008	Enterprise Linux 5 Server (with SE LINUX) and Advanced Platform	Windows Detail	Red Hat Detail
Run Server Images Side by Side	●	◆	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server Advanced Platform.	
Virtual LANs Between Server Images	●	●	Available in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
USB Support	●	●	USB support in virtual environments has compatibility issues in both Windows Server 2008 and Red Hat Enterprise Linux 5 Server.	
Virtual Shell Environments	⊗	◆	Not available in Windows Server 2008.	Red Hat Enterprise Linux 5 Server Advanced Platform includes the capability to create a virtual shell environment separate from the actual system root (similar to SUSE AppArmor.) This allows for "sandbox" work that doesn't threaten the system root.

Microsoft Windows Server 2008 and Red Hat Linux 5 Security Feature References

Application Server

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Security Gateway	http://www.microsoft.com/windowsserver2008/en/us/whats-new.aspx#Security	http://www.redhat.com/docs/manuals/dir-server/gwcust/6.2/setup.htm#21446
Reduced Server Core Configuration	http://technet2.microsoft.com/windowsserver2008/en/library/47a23a74-e13c-46de-8d30-ad0afb1eaffc1033.mspx	http://www.redhat.com/rhel/server/

Directory Services

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
LDAP Server	http://technet2.microsoft.com/windowsserver2008/en/library/3ce5c4f2-558d-4daf-ae86-54c9734a53bf1033.mspx?mfr=true	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/en-US/RHEL510/Deployment_Guide/ch-ldap.html
LDAP Client	http://technet2.microsoft.com/windowsserver2008/en/library/3ce5c4f2-558d-4daf-ae86-54c9734a53bf1033.mspx?mfr=true	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/en-US/RHEL510/Deployment_Guide/ch-ldap.html
Certificate Services	http://www.windowsecurity.com/articles/Configuring-Windows-Server-2008-Remote-Access-SSL-VPN-Server-Part2.html	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Deployment_Guide-en-US/s1-httpd-secure-server.html#s2-secureserver-overview-certs
Network Identity	http://technet2.microsoft.com/windowsserver2008/en/library/9a5c9a91-7153-4265-adda-c70df23219821033.mspx?mfr=true	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Deployment_Guide-en-US/ch-bind.html
Identity Management	http://www.microsoft.com/windowsserver2008/en/us/identity-access.aspx	http://www.redhat.com/f/pdf/sec/rh-id-sec-solutions-wp.pdf
Rights Management Services	http://technet2.microsoft.com/windowsserver2008/en/servermanager/activedirectoryrightsmanagement/services.mspx	http://www.redhatmagazine.com/2007/05/04/whats-new-in-selinux-for-red-hat-enterprise-linux-5/
Read-Only Domain Controller	http://technet2.microsoft.com/windowsserver2008/en/library/ce82863f-9303-444f-9bb3-ecaf649bd3dd1033.mspx?mfr=true	http://www.centos.org/docs/5/pdf/Deployment_Guide.pdf
Server and Domain Isolation	http://technet.microsoft.com/en-us/network/bb545651.aspx	http://ols.108.redhat.com/2007/Reprints/menage-Reprint.pdf

DNS Server

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
DNSSEC	http://msdn2.microsoft.com/en-us/library/ms682725.aspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-4-Manual/en-US/Reference_Guide/s2-bind-features-security.html
TSIG (Transaction Signature)	http://msdn2.microsoft.com/en-us/library/ms682106(VS.85).aspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-4-Manual/en-US/Reference_Guide/s2-bind-features-security.html

File Services

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Encrypting File System	http://technet2.microsoft.com/windowsserver2008/en/library/f843023b-bedd-40dd-9e5b-f1619eebf7821033.mspx?mfr=true	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Global_File_System/s1-manage-displaystats.html
Full Hard Drive Encryption	http://technet2.microsoft.com/windowsserver2008/en/library/a2ba17e6-153b-4269-bc46-6866df4b253c1033.mspx?mfr=true	https://www.redhat.com/apps/isv_catalog/AppProfile.html?application_id=4991

Group Policy

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Group Policy Management	http://technet.microsoft.com/en-us/windowsserver/grouppolicy/default.aspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Deployment_Guide-en-US/sec-sel-policy-targeted-oview.html

Misc Security Services

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Security Auditing	http://technet2.microsoft.com/windowsserver2008/en/library/79fe2474-6cdd-4411-8aee-20f9520ff3c81033.msp?mfr=true	http://www.redhat.com/rhel/server/details/#security
Smart Card Support	http://technet2.microsoft.com/windowsserver2008/en/library/18dd1257-2cd1-48f0-91f1-3012cf0cc831033.msp?mfr=true	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/release-notes/RELEASE-NOTES-x86-en.html
Sudo	N/A	http://www.gratisoft.us/sudo/
Security Configuration Tools	http://technet2.microsoft.com/windowsserver2008/en/library/716846d5-d9f9-4697-bfc0-69d5595ebec31033.msp?mfr=true	http://www.redhat.com/f/pdf/gov/DHSBattlecard.pdf
Security Assessment Tool	http://www.microsoft.com/technet/security/tools/msat/default.msp	http://www.redhat.com/f/pdf/gov/DHSBattlecard.pdf
Automated Update Services	http://technet2.microsoft.com/windowsserver/en/library/94d1385f-4872-4c29-8822-3a4ec5e45ae41033.msp?mfr=true	http://www.redhat.com/docs/manuals/enterprise/RHEL-3-Manual/security-guide/ch-security-updates.html
Hot Patching	http://download.microsoft.com/download/0/8/C/08CD7F85-7CEA-445C-98E2-D22944331C1E/WS2008_RAS.pdf	http://lwn.net/Articles/280058/
Stack Randomizations/Memory Scramble/Heap Scramble	http://blogs.msdn.com/sd/archive/2007/06/28/lessons-learned-from-ms07-029-the-dns-rpc-interface-buffer-overflow.aspx	N/A
Real-Time Memory Checksums	http://download.microsoft.com/download/9/c/5/9c5b2167-8017-4bae-9fde-d599bac8184a/M	https://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/en-US/RHEL510/pdf/Deployment_Guide.pdf
Single Sign-On	http://www.msterminalservices.org/articles/Enable-Single-Sign-On-SSO-Windows-Server-2008-Terminal-Services.html	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Deployment_Guide-en-US/sso-intro.html

Networking, Network Policy, and Network Access

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Proxy Service/Radius Support	http://technet.microsoft.com/en-us/network/bb629414.aspx	www.rhn.redhat.com
Software Firewall	http://technet2.microsoft.com/windowsserver2008/en/library/47a23a74-e13c-46de-8d30-ad0afb1eaffc1033.msp?mfr=true	http://kbase.redhat.com/faq/FAQ_45_362.shtm
Internet Protocol Security (IPsec)	http://technet.microsoft.com/en-us/network/bb531150.aspx	http://www.redhat.com/magazine/006apr05/features/selinux/
Network Access Security	http://www.microsoft.com/windowsserver2008/network-access-protection.msp	http://www.avendasys.com/products/nap/

Printing

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Printer Security	http://technet2.microsoft.com/windowsserver2008/en/library/173ea6f2-3231-404b-92f5-a5d20bb6bed91033.mspx?mfr=true	http://www.redhat.com/magazine/006apr05/features/selinux/

Server Management

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Authorization Manager	http://technet2.microsoft.com/windowsserver2008/en/library/b23117c3-a007-4cd9-bdc7-5aac9e0f2b981033.mspx?mfr=true	http://www.redhat.com/magazine/006apr05/features/selinux/

Terminal Services

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Remote Access	http://www.microsoft.com/windowsserver2008/terminal-services/default.mspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Deployment_Guide-en-US/ch-openssh.html
Gateway Services	http://www.microsoft.com/windowsserver2008/terminal-services/default.mspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Deployment_Guide-en-US/ch-openssh.html

Web Services

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Web Server Authentication	http://technet2.microsoft.com/windowsserver2008/en/library/939d621e-c023-48f8-9503-47f24a6be7211033.mspx?mfr=true	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Deployment_Guide-en-US/ch-httpd.html
IPv4 Address and Domain Name Rules	http://technet2.microsoft.com/windowsserver2008/en/library/a9b5a3f3-d679-4eb6-a828-e410c8c0e0191033.mspx?mfr=true	http://www.redhat.com/rhel/server/details/
URL Authorization	http://technet2.microsoft.com/windowsserver2008/en/library/ec81dd52-8ddc-41d3-984f-9f710c21add91033.mspx?mfr=true	http://www.redhat.com/docs/manuals/iboss/iboss-eap-4.2/doc/Server_Configuration_Guide/J2EE_Declarative_Security_Overview-Web_Content_Security_Constraints.html
ISAPI And CGI Restrictions	http://technet2.microsoft.com/windowsserver2008/en/library/939d621e-c023-48f8-9503-47f24a6be7211033.mspx?mfr=true	http://tomcat.apache.org/tomcat-4.0-doc/
Secure Sockets Layer	http://www.microsoft.com/downloads/details.aspx?FamilyID=FC4D7D3F-0376-45BF-9544-EC35329A2FC1&displaylang=en	http://www.press.redhat.com/2007/03/14/red-hat-enterprise-linux-5-security/

Virtualization Services

	Windows Server 2008	Enterprise Linux 5 Server and Advanced Platform
Run Server Images Side by Side	http://www.microsoft.com/windowsserver2008/virtualization/default.mspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Virtualization-en-US/index.html
Virtual LANs between Server Images	http://www.microsoft.com/windowsserver2008/virtualization/default.mspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Virtualization-en-US/index.html
USB Support	http://blogs.msdn.com/virtual_pc_guy/archive/2007/09/24/windows-server-virtualization-community-technology-preview-now-available.aspx	http://www.redhat.com/docs/manuals/enterprise/RHEL-5-manual/Virtualization-en-US/index.html
Virtual Shell Environment		http://www.redhat.com/rhel/server/advanced/