



Windows Server® 2008 R2

Edition Comparison by Server Role

KEY: ○ = Not Available ● = Partial/Limited ✓ = Full

Server Role	Enterprise	Datacenter	Standard	Itanium	Web	Foundation	HPC
Active Directory Certificate Services	✓	✓	● ¹	○	○	● ¹	● ¹
Active Directory Domain Services	✓	✓	✓	○	○	✓	✓
Active Directory Federation Services	✓	✓	○	○	○	○	○
Active Directory Lightweight Directory Services	✓	✓	✓	○	○	✓	○
Active Directory Rights Management Services	✓	✓	✓	○	○	✓	○
Application Server	✓	✓	✓	✓	○	✓	○
DHCP Server	✓	✓	✓	○	○	✓	✓
DNS Server	✓	✓	✓	○	✓	✓	✓
Fax Server	✓	✓	✓	○	○	✓	○
File Services	✓	✓	● ²	○	○	● ²	● ²
Hyper-V	✓	✓	✓	○	○	○	✓
Network Policy and Access Services	✓	✓	● ³	○	○	● ⁵	● ³
Print and Document Services	✓	✓	✓	○	○	✓	○
Remote Desktop Services	✓	✓	● ⁴	○	○	● ⁶	● ⁴
Web Services (IIS)	✓	✓	✓	✓	✓	✓	✓
Windows Deployment Services	✓	✓	✓	○	○	✓	✓
Windows Server Update Services (WSUS)	✓	✓	✓	○	○	✓	✓

HPC Edition is limited in use to running clustered HPC applications or providing job scheduling services for HPC applications.

¹ Limited to creating Certificate Authorities – no other ADCS features (NDES, Online Responder Service). See ADCS role documentation on TechNet for more information.

² Limited to 1 standalone DFS root.

³ Limited to 250 RRAS connections, 50 IAS connections and 2 IAS Server Groups.

⁴ Limited to 250 Remote Desktop Services Gateway connections.

⁵ Limited to 50 RRAS connections, 10 IAS connections.

⁶ Limited to 50 Terminal Service Gateway connections.

Edition Comparison by Server Core Installation Option

The Server Core installation option for the Microsoft Windows Server 2008 R2 operating system provides a minimal environment for running specific server roles that reduces the maintenance and management requirements and the attack surface for those server roles. A Server Core installation supports the following server roles:

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Server Role	Enterprise	Datacenter	Standard	Web	Itanium	Foundation
Active Directory Certificate Services	✓	✓	✓	○	○	○
Active Directory Domain Services	✓	✓	✓	○	○	○
Active Directory Lightweight Directory Services	✓	✓	✓	○	○	○
BranchCache Hosted Cache	✓	✓	○	○	○	○
DHCP Server	✓	✓	✓	○	○	○
DNS Server	✓	✓	✓	✓	○	○
File Services	✓	✓	● ¹	○	○	○
Hyper-V	✓	✓	✓	○	○	○
Media Services*	✓	✓	✓	✓	○	○
Print Services	✓	✓	✓	○	○	○
Web Services (IIS)	✓	✓	✓	✓	○	○

¹ Limited to one standalone DFS root.

* Must be downloaded separately.

Edition Comparison by Technical Specification

KEY: ○ = Not Available ● = Available

Specification	Web	Standard	Enterprise	Datacenter	Itanium	Foundation	HPC
Cross-File Replication (DFS-R)	○	○	●	●	●	○	○
Failover Cluster Nodes (Nodes)	○	○	16	16	8	○	○
Fault Tolerant Memory Sync	○	○	●	●	●	○	○
Hot Add Memory	○	○	●	●	●	○	○
Hot Add Processors	○	○	○	●	●	○	○
Hot Replace Memory	○	○	○	●	●	○	○
Hot Replace Processors	○	○	○	●	●	○	○
IA64 RAM	○	○	○	○	2 TB	○	○
IA64 Sockets	○	○	○	○	64	○	○
Network Access Connections (IAS)	○	50	Unlimited	Unlimited	2	10	○
Network Access Connections (RRAS)	○	250	Unlimited	Unlimited	○	50	250
Remote Desktop Admin Connections	2	2	2	2	2	2	2
Remote Desktop Services Gateway	○	250	Unlimited	Unlimited	○	50	○
Virtual Image Use Rights	Guest	Host + 1 VM	Host + 4 VM	Unlimited	Unlimited	○	Host + 1 VM
X64 RAM	32 GB	32 GB	2 TB	2 TB	○	8 GB	128 GB
X64 Sockets	4	4	8	64	○	1	4

Edition Comparison by Distribution Channel

KEY: ○ = Not Available ● = Available

Channel	Standard	Enterprise	Datacenter	Web	Itanium	Foundation
Retail (FPP)	●	●	○	●	○	○
Volume Licensing (VL)	●	●	●	●	●	○
OEM (Direct OEM)	●	●	●	●	●	●
OEM SBC (System Builder / COEM)	●	●	●	●	○	○
Dreamspark	●	○	○	○	○	○
Empower	●	●	○	○	○	○
IT Academy	●	●	○	○	○	○
Microsoft Action Pack (MAPS)	●	●	○	●	○	○
Microsoft Partner Program (MSPP)	●	●	●	●	●	○
MSDN	●	●	●	●	●	○
MSPP Learning Solutions	●	●	●	●	●	○
TechNet	●	●	●	●	●	○

Edition Comparison by Language

KEY: ○ = Not Available ● = Available

Language	Enterprise	Datacenter	Standard	Web	Itanium	Foundation
Brazilian Portuguese	●	●	●	●	○	●
Chinese – Hong Kong	●	●	●	●	○	●
Chinese – Simplified	●	●	●	●	● ¹	●
Chinese – Traditional	●	●	●	●	● ¹	●
Czech	●	●	●	●	○	●
Dutch	●	●	●	●	○	●
English	●	●	●	●	●	●
French	●	●	●	●	●	●
German	●	●	●	●	●	●
Hungarian	●	●	●	●	○	●
Italian	●	●	●	●	○	●
Japanese	●	●	●	●	●	●
Korean	●	●	●	●	● ¹	●
Polish	●	●	●	●	○	●
Portuguese	●	●	●	●	○	●
Russian	●	●	●	●	○	●
Spanish	●	●	●	●	○	●
Swedish	●	●	●	●	○	●
Turkish	●	●	●	●	○	●

¹ Language pack only