



# 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	✓	✓	● <sup>1</sup>	○	○	● <sup>1</sup>	● <sup>1</sup>
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	✓	✓	● <sup>2</sup>	○	○	● <sup>2</sup>	● <sup>2</sup>
Hyper-V	✓	✓	✓	○	○	○	✓
Network Policy and Access Services	✓	✓	● <sup>3</sup>	○	○	● <sup>5</sup>	● <sup>3</sup>
Print and Document Services	✓	✓	✓	○	○	✓	○
Remote Desktop Services	✓	✓	● <sup>4</sup>	○	○	● <sup>6</sup>	● <sup>4</sup>
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.

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

<sup>2</sup> Limited to 1 standalone DFS root.

<sup>3</sup> Limited to 250 RRAS connections, 50 IAS connections and 2 IAS Server Groups.

<sup>4</sup> Limited to 250 Remote Desktop Services Gateway connections.

<sup>5</sup> Limited to 50 RRAS connections, 10 IAS connections.

<sup>6</sup> 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	✓	✓	● <sup>1</sup>	○	○	○
Hyper-V	✓	✓	✓	○	○	○
Media Services*	✓	✓	✓	✓	○	○
Print Services	✓	✓	✓	○	○	○
Web Services (IIS)	✓	✓	✓	✓	○	○

<sup>1</sup> 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	●	●	●	●	● <sup>1</sup>	●
Chinese – Traditional	●	●	●	●	● <sup>1</sup>	●
Czech	●	●	●	●	○	●
Dutch	●	●	●	●	○	●
English	●	●	●	●	●	●
French	●	●	●	●	●	●
German	●	●	●	●	●	●
Hungarian	●	●	●	●	○	●
Italian	●	●	●	●	○	●
Japanese	●	●	●	●	●	●
Korean	●	●	●	●	● <sup>1</sup>	●
Polish	●	●	●	●	○	●
Portuguese	●	●	●	●	○	●
Russian	●	●	●	●	○	●
Spanish	●	●	●	●	○	●
Swedish	●	●	●	●	○	●
Turkish	●	●	●	●	○	●

<sup>1</sup> Language pack only