Welcome to Insight

Windows Server & System Center 2016- Licensing preview

Date: 26-08-2016

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Windows Server 2016 Core Licensing

Datacenter and Standard Editions Overview

Windows Server 2016 Editions		
	Datacenter	**Standard**
Core functionality of Windows Server	•	•
OSEs / Hyper-V containers*	Unlimited	1
Windows Server containers	Unlimited	Unlimited
Nano Server	•	•
New storage features including Storage Spaces Direct and Storage Replica+	•	
New Shielded Virtual Machines and Host Guardian Service+	•	
New networking stack+	•	

Datacenter Edition for managing highly virtualized servers.

Standard Edition for managing non-virtualized or lightly virtualized servers.

*OSE: Operating System Environment
Standard Edition permits use of 1 OSE or 1 Hyper-V container.
Datacenter permits unlimited OSEs and Hyper-V containers on a server.
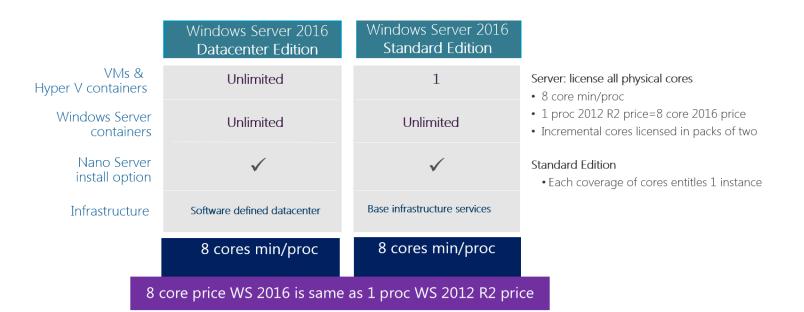+ Azure-inspired features for advanced software-defined scenarios.

Windows Server 2016 Core Licensing

How to license the physical cores for Windows Server 2016 Standard and Datacenter Editions

- ❑ Minimum of 8 core licenses required per proc
- ❑ Core licenses will be sold in packs of two that are ¼ the price of the corresponding 1 proc 2012 R2 edition

Windows Server Licensing

	Windows Server 2016 Datacenter Edition	Windows Server 2016 Standard Edition
VMs & Hyper V containers	Unlimited	1
Windows Server containers	Unlimited	Unlimited
Nano Server install option	✓	✓
Infrastructure	Software defined datacenter	Base infrastructure services
	8 cores min/proc	8 cores min/proc

Server: license all physical cores
- 8 core min/proc
- 1 proc 2012 R2 price=8 core 2016 price
- Incremental cores licensed in packs of two

Standard Edition
- Each coverage of cores entitles 1 instance

8 core price WS 2016 is same as 1 proc WS 2012 R2 price
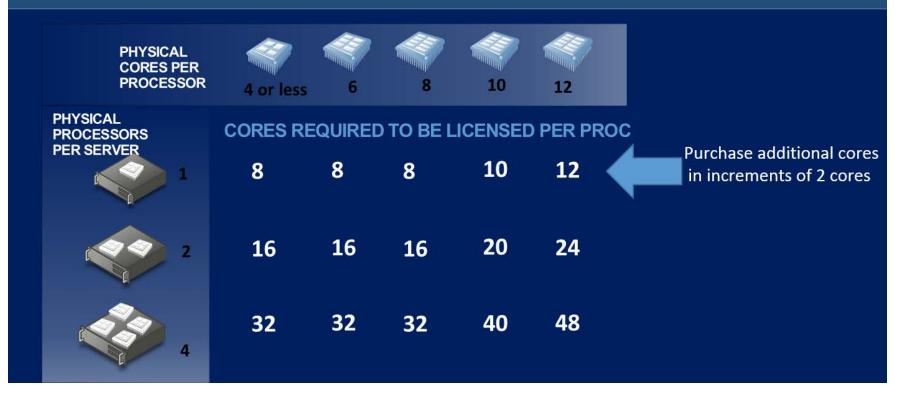
Windows Server 2016 Core Licensing

Windows Server 2016 Datacenter

> Inventory the number of physical cores per server

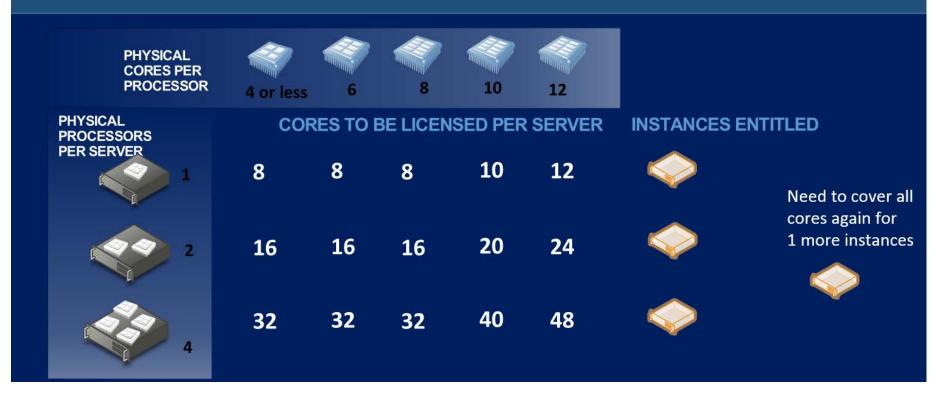> Minimum of 8 cores per processor (incremental cores in 2 core packs)

PHYSICAL CORES PER PROCESSOR	4 or less	6	8	10	12
PHYSICAL PROCESSORS PER SERVER	CORES REQUIRED TO BE LICENSED PER PROC				
1	8	8	8	10	12
2	16	16	16	20	24
4	32	32	32	40	48

Purchase additional cores in increments of 2 cores

Windows Server 2016 Core Licensing

System Center 2016 Core Licensing

System Center 2016 Standard and Datacenter Editions

As with System Center 2012 R2, the 2016 editions will be differentiated by virtualization rights only. No additional licenses are needed for the management server or SQL Server database used for System Center (1:1).

The licensing of System Center 2016 will move to be based on physical cores. The core based licensing will align with Windows Server 2016 model to provide a consistent licensing metric for managed VMs.

System Center 2016 Core Licensing

Datacenter and Standard Editions Overview

Datacenter Edition for managing highly virtualized servers.

Standard Edition for managing non-virtualized or lightly virtualized servers.

System Center 2016 Editions		
	Datacenter	Standard
OSEs	Unlimited	1*
Configuration Manager	•	•
Data Protection Manager	•	•
Endpoint Protection	•	•
Operations Manager	•	•
Orchestrator	•	•
Service Manager	•	•
Virtual Machine Manager	•	•

* System Center 2016 Standard Edition entitles management of one OSE or one Hyper-V container when all physical cores are licensed on the processor. Multiple Standard Edition licenses can be assigned to increase the number of OSEs to be managed

FAQ

Q: **What are the packaging and licensing changes being made with Windows Server 2016 and System Center 2016?**

A: With the 2016 release of Windows Server there *continues* to be *virtualization differences* between editions. *Additionally*, with 2016 there is true product differentiation. Datacenter will have incremental capabilities *including Storage Spaces Direct, Storage Replica, a new software-defined networking controller including scalable software load balancer and distributed firewall, Shielded Virtual Machines, and the Host Guardian Service.*

Q: **Are licensing requirements the same between SPLA and other programs?**

A: No, the licensing for SPLA and other Volume Licensing *programs* is different. SPLA program requirements is a minimum of 16 cores/server and a minimum of 8 physical cores/physical processor.

Q: **Do downgrade rights still exist?**

A: Downgrade rights will be *maintained with the 2016* release. For any OSE that is licensed using the 2016 core based model a customer and partner are entitled to deploy previous versions. It is important to note that the partner and customer should pay attention to support lifecycles of prior versions. At the time of the 2016 release this means all versions from the 2008 release and after are supported.

FAQ

Q: **Will SQL licensing move to an 8 core license minimum?**

A: *There is no plan to change SQL's minimum. Windows Server and SQL Server will have different minimums.*

Q: **Is there a price increase for SPLA for Windows Server 2012 R2 in January 2016?**

A: *There is no plan to increase Windows Server prices in January 2016.*

Q: **Will 2012 R2 SKUs be available after the launch of 2016?**

A: *There is no plan to maintain 2012 R2 SKUs on the price list after launch. A partner can sign an agreement prior to the 2016 availability to maintain 2012 R2 processor license model & pricing for the remaining term of the SPLA agreement. for period of their agreement. Partners will have access to the 2016 builds. For any deployments using 2016 release, the licensing would be based on the 2016 licensing model. Expected availability October 2016.*

Q: **Will the Core Infrastructure Suite (CIS) SKU exist and also be licensed by cores?**

A: *The Core Infrastructure Suite (CIS) SKU is expected to be available in the 2016 SKUs and will align to the core based model.*

FAQ

Q: **How should I think about hyper-threading in the core based licensing?**

A: *Windows Server and System Center 2016 are licensed by physical cores, not virtual cores. Therefore, customers only need to inventory and license the physical cores on their processors.*

Q: **What does the processor to core licensing change mean for the licensing price to service providers?**

A: *There is tremendous new value in Windows Server with the container functionality, Nano Server installment method, and the other product features coming to market which could greatly benefit your hosted environments. Only processors with more than 8 Cores per Processor will be impacted after upgrade to v2016.*

Bedankt voor uw aandacht..