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Windows Server 2012 Overview

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Why Windows Server 2012?

TOP BENEFITS OF WINDOWS SERVER 2012



.

Comprehensive cloud platform





Cost savings and increased efficiencies



Support for a modern work style

- Complete, built-in virtualization platform .
- Industry-leading scalability and performance, so you can virtualize every application
- Ability to achieve business continuity with inbox disaster recovery solutions .
- Best-in-class hybrid cloud experience with a common set of technologies
- Reduced storage costs with storage spaces and other storage enhancements .
- Increased server/administrator ratio through Windows PowerShell and multi-machine management .
- Increased uptime with cluster-aware updates and transparent failover
- Virtual Desktop Infrastructure (VDI): simplified management and reduced cost of implementations .
- Optimized branch office WAN bandwidth use .
- Ability for remote users to securely access internal resources without VPN .

Windows Server capabilities

Scenario capabilities	Infrastructure	Application	Client
Technical capabilities	Virtualization	Management and automation	Storage
	Web and application platform	Networking	Identity and access

Server Virtualization

Server virtualization



Complete virtualization platform

Increased scalability and performance

Elastic and flexible from the datacenter to the cloud

TOP FEATURES OF SERVER VIRTUALIZATION TO MEET CUSTOMER CHALLENGES



Scale enhancements

	Maximum number					
System	Resource	Windows 2008 R2	Windows Server 2012	Improvement factor		
	Logical processors on hardware	64	320	5×		
	Physical memory	1 TB	4 ТВ	4 ×		
Host	Virtual processors per host	512	2048	4 ×		
	Virtual processors per virtual machine	4	64	16×		
Virtual machine	Memory per virtual machine	64 GB	1 TB	16×		
	Active virtual machines	384	1,024	2.7 ×		
	Virtual disk size	2 ТВ	64 TB	32×		
	Nodes	16	64	4 ×		
Cluster	Virtual machines	1,000	8,000	8×		

Management and Automation

Management and automation



Increased management efficiency

Simplified deployment and virtualization

Resilient and simple automation

TOP FEATURES FOR MANAGEMENT AND AUTOMATION TO MEET CUSTOMER CHALLENGES









Efficiency, performance, and innovation through diverse storage choices

Continuous availability through new features that preserve uptime

Cost efficiency through storage, management, and other capabilities

TOP FEATURES OF STORAGE TO MEET CUSTOMER CHALLENGES

	1	(2	3	4	5
Storage spaces		File system improvements		Thin provisioning	Cluster Shared Volume	SMB 3.0 for workloads
	6	(7	8	9	(10)
Offloaded data transfer		Transparent failover		NFS support	iSCSI target	Storage management

Web and Application Platform

Web and application platform



Flexibility through hybrid and symmetrical applications Increased scalability and elasticity for applications Enhanced support for open frameworks and open source

TOP FEATURES OF WEB AND APPLICATION PLATFORM TO MEET CUSTOMER CHALLENGES









Easy to connect users to IT resources

Efficient management of datacenters and private clouds

Ability to link your infrastructure with Public Cloud Services

TOP FEATURES OF NETWORKING TO MEET CUSTOMER CHALLENGES





Security and access



Protection of corporate resources

Data access management and protection Simplified deployment and management of identity infrastructure

TOP FEATURES FOR SECURITY & ACCESS

(1)	3	4	5
Dynamic Access Control	Classification	DirectAccess	Simpler deployment of Active Directory	Domain Name System Security Extensions
6) (7)	8	9	(10)
Active Directory virtualization	Active Directory cloning	Kerberos constrained delegation	Private virtual LAN (PVLAN)	Multitenant security and isolation

Windows Server 2012: Cloud optimize your IT

Beyond virtualization



The power of many servers, the simplicity of one



Every app, any cloud



Modern workstyle, enabled



Build on an open and scalable web platform that supports applications across premises

Efficiently manage infrastructure while maximizing uptime and

Support a mobile and flexible work style

minimizing failures and downtime

Scale and secure workloads, cost-effectively build a private cloud, and securely connect to cloud services



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