

Windows Server 2012 Overview

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Datacenter Products







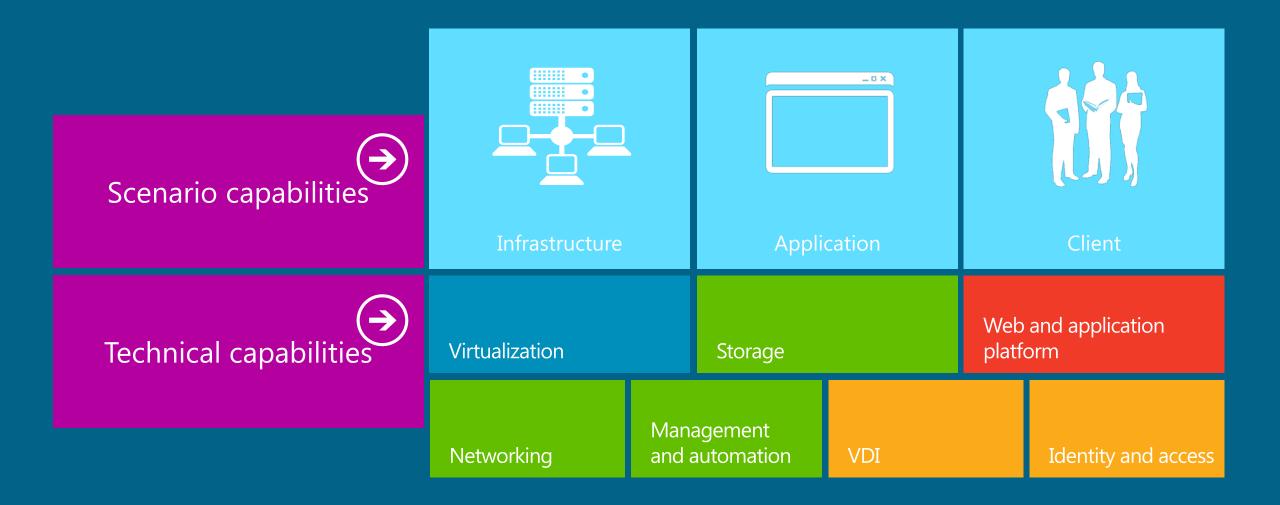


Why Windows Server 2012?

TOP BENEFITS OF WINDOWS SERVER 2012

Comprehensive cloud platform	 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
Cost savings and increased efficiencies	 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
Support for a modern work style	 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



Consistent Private Cloud Licensing



Notes:

- Windows Server continues to require Client Access Licenses (CALs)
- Enrollment for Core Infrastructure (ECI) has a 25 license minimum and includes a 20% discount on new purchases
- Core Infrastructure Suite (CIS) has no minimum purchase and includes a 5% discount on new purchases

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

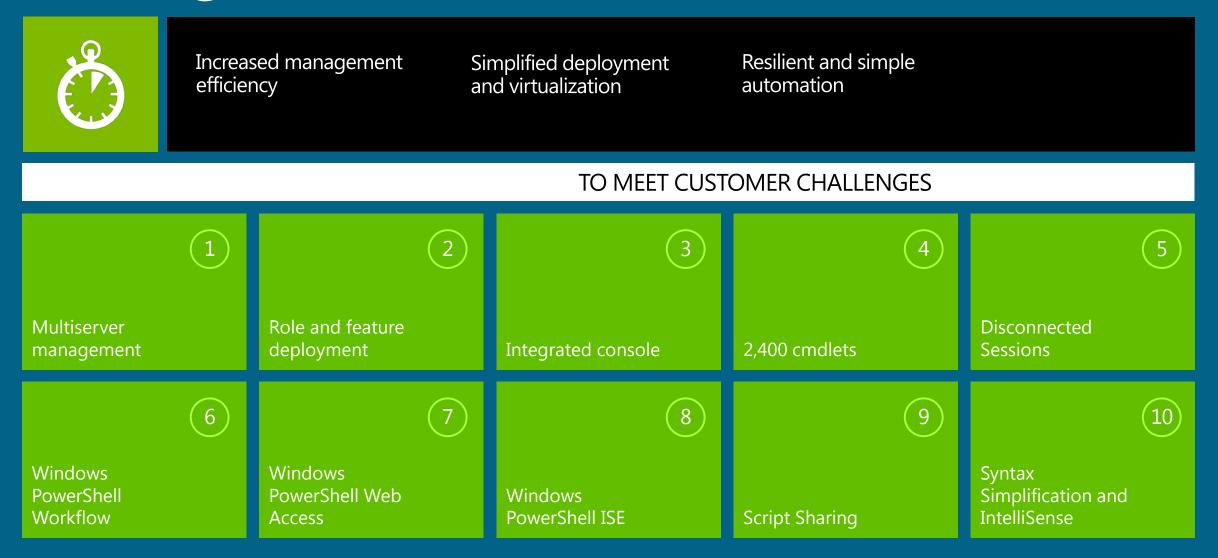
1	2	3	4	5
Hyper-V Network Virtualization	Shared-nothing live migration	Massive scale	Cluster enhancements	Hyper-V Replica
6	7	8	9	10
Hardware offloading	Virtual Fibre Channel	Guest NUMA support	Runtime memory configuration	Hyper-V network switch

Scale enhancements

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

Management and Automation

Management and automation



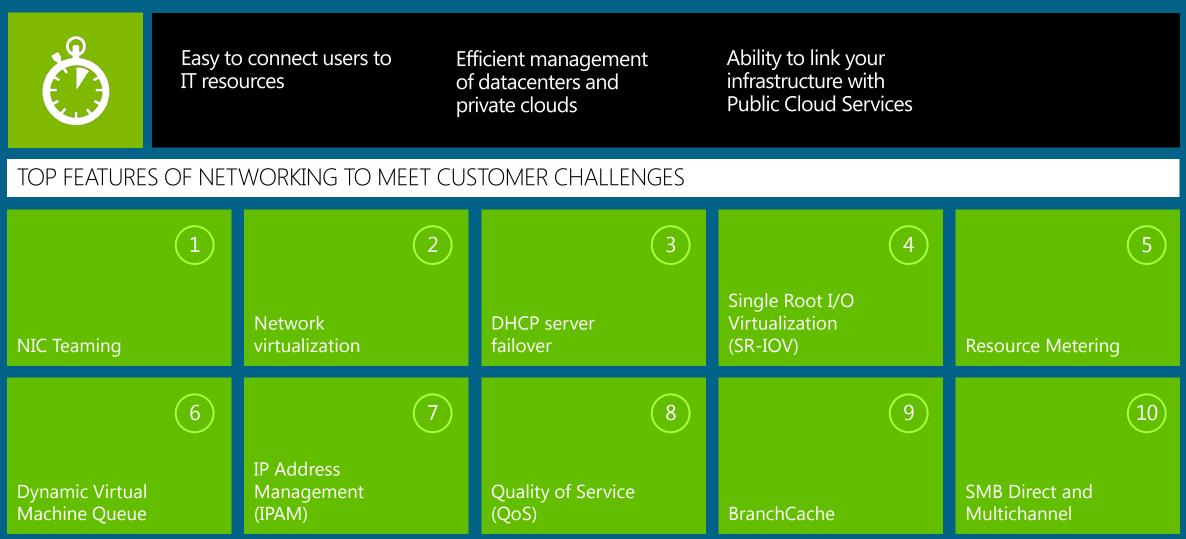


Storage



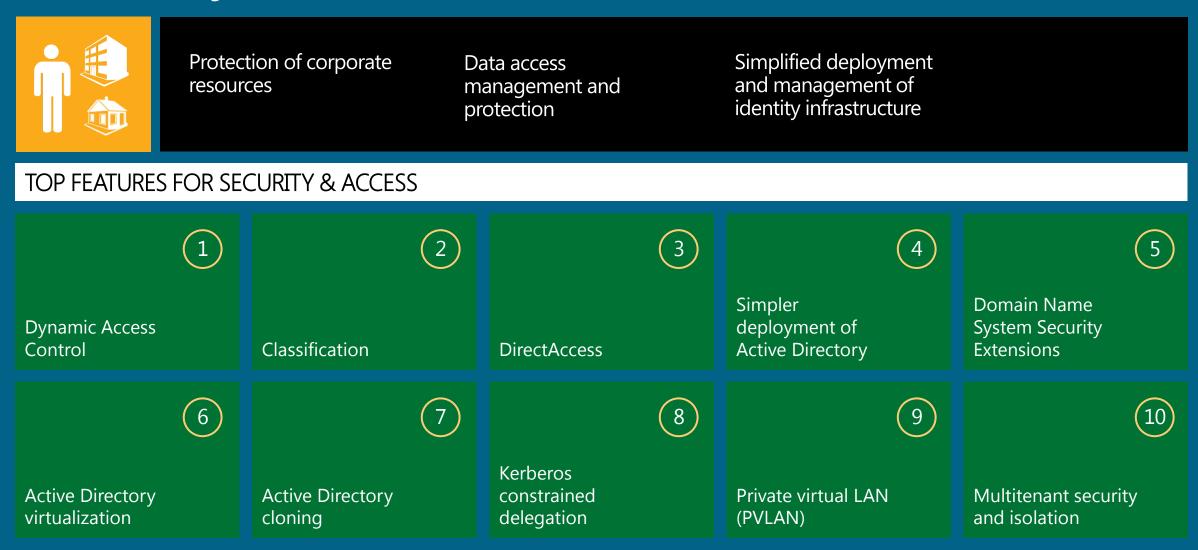


Networking



Identity Access

Security and access



Windows Server 2012: Cloud optimize your IT





Microsoft[®]

the vision

ANYTIME, ANYWHERE TEACHING AND LEARNING

Windows 8 Devices for Education



Windows Device Offerings



Tablets



Dockable tablets



Convertibles



Ultrabooks



Flipbooks



Convertible all-in-ones



Laptops



Desktops



All-in-ones

Microsoft Confidential

State of Learning Today

Trends

- Common core standards
- Digital textbook mandates
- Digital testing mandates
- Active + personal learning
- 1:1 initiatives

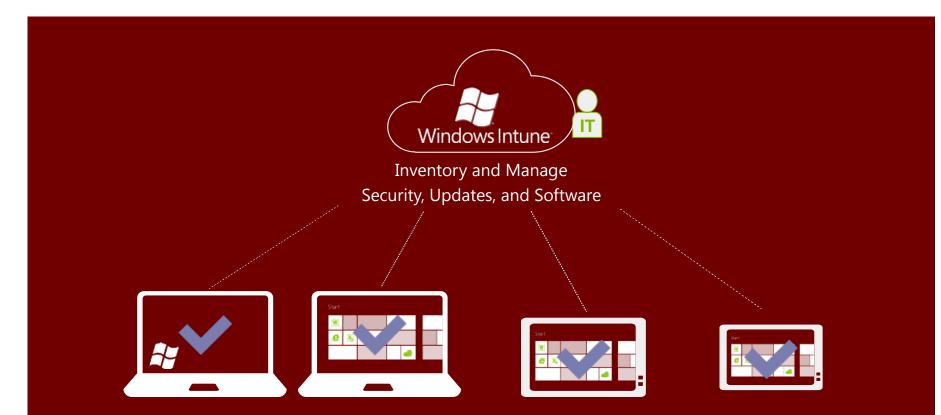
Challenges

- High costs
- Proprietary ecosystems
- Manageability
- Security
- Path to success is unclear
- Fear of time
- Fear of change
- Fear of failure

Windows Intune System Center 2012 Configuration Manager System Center 2012 Endpoint Protection

Windows InTune Cloud management for Mobile Devices & PC's





BENEFITS

- No on-premise infrastructure required
- You always have the latest capabilities
- Manage from virtually anywhere
- Can compliment existing on-premises infrastructure
- Cross-platform support

Manage, Secure PCs And Devices Anywhere

Simple Web-Based Administration Console and a friendly IW experience

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- Help protect PCs from malware
- Manage updates
- Distribute and consume software
- Proactive monitoring and alerts
- Provide remote assistance
- Inventory hardware and software
- Monitor & track licenses
- Increase insight with reporting
- ✓ Set security policies

Enabling Flexible Workstyles

- ✓ Users can be managed from the office, branch office, or on the road
- IT and partners can work from virtually anywhere



InTune Supported Devices

- PCs
 - Windows XP Professional, Service Pack (SP) 3 (x86 only)
 - \cdot Windows Vista Enterprise, Ultimate, or Business editions
 - \cdot Windows 7 Enterprise, Ultimate, or Professional editions
- Mobile
 - Exchange ActiveSync (support for each setting differs per device)
 - · Line-of-business software deployment
 - \cdot iOS 4.0 or later
 - \cdot Android 2.1 or later





Endpoint Protection



Operations Manager



Orchestrator



Service Manager



Configuration Manager



Virtual Machine Manager



App Controller



Data Protection Manager

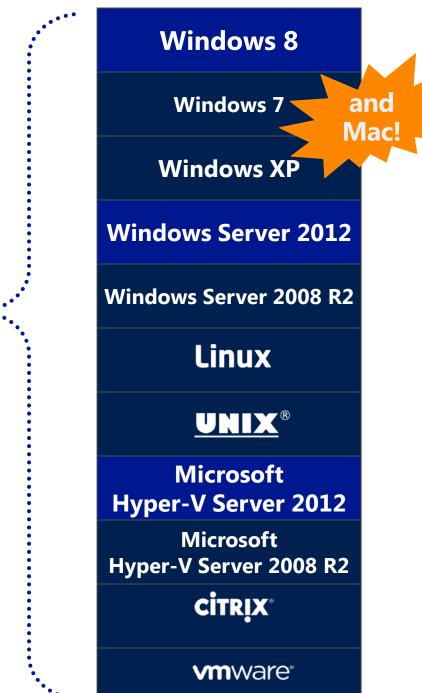
System Center 2012

Microsoft System Center 2012 Service Pack 1 (SP1)

2012

Manages





System Center Configuration Manager 2012

- Simplified Interface
- Traditional server provisioning
 Server and in-guest provisioning
- User Centric Model
- Desired Configuration Management
 - In-guest DCM
 - Drive compliance by managing configuration drift

Mobile Management

- Windows Phone 7, iOS, Android
 - EAS-based policy delivery
 - Discovery and inventory, Settings policies, Remote Wipe

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🗊 Software Monitori		More Details				System Center Configuration Manager 2012



ConfigMgr 2012 SP1 Mac support

Features :

- Discovery Find Mac's in Active Directory and the Network
- Hardware Inventory Inventory and audit Mac OS X machines
- Software Inventory Determine list of installed software
- Settings Mgmt Ensure Mac OS X machines comply with company policies
- Application Deployment- required/push software distribution via app model
- Software Updates Mgmt via Software Distribution and Settings mgmt.





Endpoint Protection



Operations Manager



Orchestrator



Service Manager



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Data Protection Manager

Common Antimalware Platform

- Common platform for all of Microsoft's antimalware clients.
- Security Essentials alone has over 100 million users (#1 in North America).
- 660 million executions of Malicious Software Removal Tool per month
- All of these clients service Microsoft's protection services research and response

System Cente 2012 Endpoir Protection	Endpoint Windows I		ntune	ne Forefront Endpoint Protection 2010		Windows Azure Endpoint Protection			
Microsoft Security Essentials	D	efender in Reco		ostics and overy olkit	S	Ialicio Softwa noval	ire	Window Defende Offline	er

Protect Clients With Reduced Complexity

Simple interface

 Minimal, high-level user interactions

Administrative Control

- User configurability options
- Central policy enforcement
- UI Lockdown

Maintains high productivity

- CPU throttling during scans
- Faster scans through advanced caching

Minimal network and client impact of definition updates

System Center 2012 Endpoint Protectio	n 🗖 🗖 🗾 🔁
Home Update History	Settings O Help -
Scheduled scan Real-time protection Excluded files and locations Excluded file types Excluded processes Advanced MAPS	Run a scheduled scan on my PC (recommended) Scan type: Full scan When: Saturday Around: 2:00 AM Daily quick scan time around: 2:00 AM Check for the latest virus and spyware definitions before running a scheduled scan Start the scheduled scan only when my PC is on but not in use Limit CPU usage during scan to: 50%
Binary delta sign	ature update 3 times per day (<.5MB)
rth j	update (missed 3 days of delta, <5MB)

Full update (new machine, or not updated in 31 days, <80MB)

Heterogeneous Antimalware Clients

Features:

- Anti-virus and Anti-malware support
- Machines connect directly to internet service for security content
- Client UI for user visibility and control
- SCOM monitoring pack for Linux with management control Platforms:
- Apple Mac (10.6-10.7).
- Linux Server: Redhat Enterprise 6
 SuSE Linux 11