

Migrating to Windows Server 2012

Make a virtue out of necessity

2015

392 Days remaining

Server migration: 200 days

Application migration: 300+ days

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Why are we here?

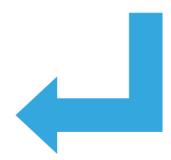
Extended support for Windows Server 2003 ends on 14 July 2015

... so you need to plan migration now.

392 Days remaining

Server migration: 200 days

Application migration: 300+ days











On our Regcast today

Julius Davies, Microsoft

Tony Lock, Freeform Dynamics

Tim Phillips, The Reg









End of support

No updates

37 critical updates released in 2013 for Windows Server 2003/R2

No ompliance Windows 2003/ R2 servers will not pass a compliance audit Lack of PCI compliance could mean that Visa and Mastercard will no longer do business with your organisation

No safe haven Impact on both physical and virtualised servers

Discontinued support for many applications

Impact on Microsoft Small Business Server 2003

Now is the time to act

Start planning your migration today









Reg readers: what does your Windows Server 2003 do?

- Widely deployed
- Business workloads
 - Exchange
 - SharePoint
 - Business applications
 - File and print
 - Infrastructure management (DHCP, DNS, etc)









Quick wins

- Virtualisation Hyper-V 3
- High availability
- Linux guests
- Storage
- Networking

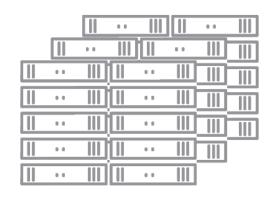








Server consolidation



30_X

5 year old 2-socket Intel[®] Xeon[®] processor based servers



5x

Intel Xeon processor E5-2600v2 Family based servers

\$296,000 lower total cost of ownership

17% performance increase

143,422 lbs reduction in CO2 emissions

http://www.intel.com/go/xeonestimator









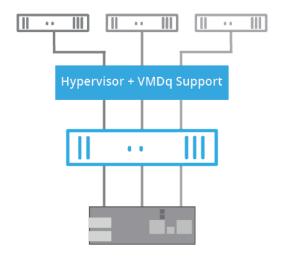
Supporting virtualisation

64 vCPUs/VM³ 1TB
Memory/VM³

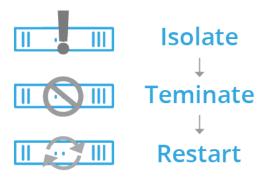
1.5TB Per 25 system¹ 6TB
Per 45 system²



Stronger Virtual Machines



Near Native I/O Performance













Real-world impact

Virtual Machine Densities

Baseline: Intel

Xeon processor

5600 Series, HDD



Upgrade: Xeon Processors E5-2600v2 and Windows® Server 2012



Upgrade: Intel Solid State Drives



Upgrade: Intel converged Network Adapters









Migration process

















Discover what you have









Catalogue your software and workloads

Self-service tools

Microsoft Assessment and Planning (MAP) Toolkit Lakeside Software SysTrack **HP Universal Discovery**

System integrators

Microsoft Services JumpStart for Windows Server 2003

HP Windows Server 2012 Migration Services



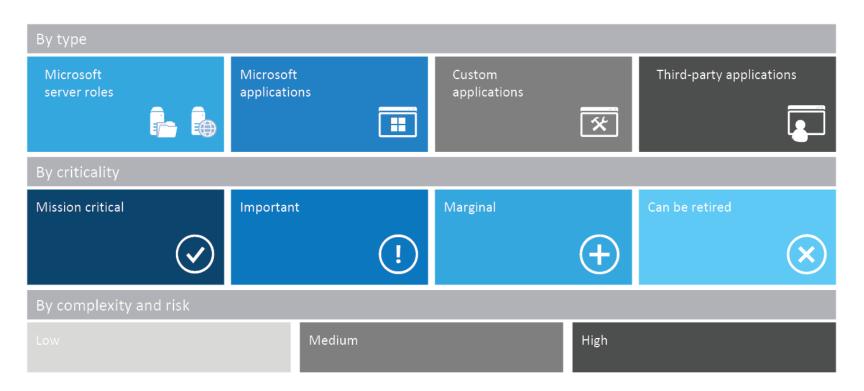






Assess your inventory



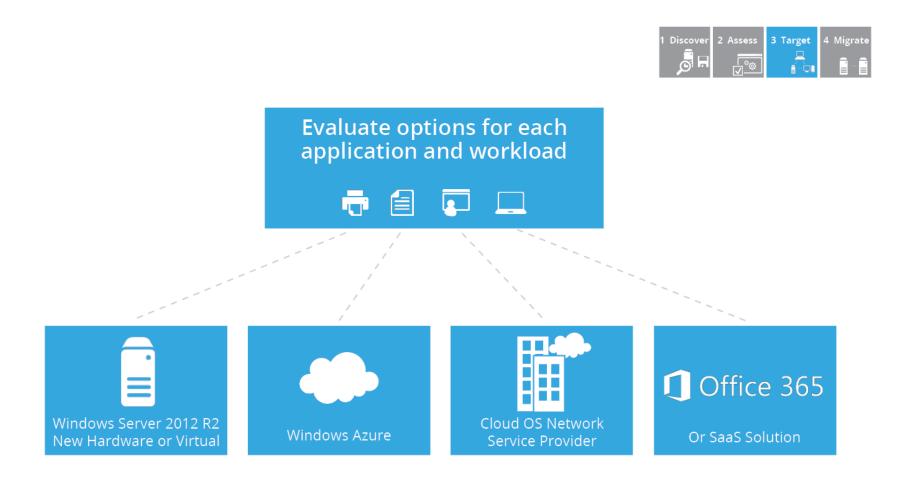




















Windows Server roles

















Terminal Servers

Windows Server 2012 R2

New hardware or hypervisor

OR

Windows Azure laaS

Windows Azure Web Sites

OR









Microsoft applications



Exchange **SQL** Server SharePoint Server SharePoint Server 2013 SP1 Windows Server 2012 R2 New hardware Windows Azure laaS OR

Office 365





OR





Third party applications



Custom applications

Third-party applications

Windows Server 2012 R2

New hardware OR

Windows Azure laaS

Windows Azure PaaS

Saas











OR



Think not just "where?" but "how?"



Migrate "as-is"



Application can be migrated without change

Upgrade



Application must be upgraded to latest version Repair, rewrite or refactor



Modify application to work on new platform Virtualise or shim



Use technologies like AppZero to counter incompatibilities Find alternate



Use different app or SaaS offering to achieve same business result









Choose your journey



		Discover				Assess							Target (destination and journey)								
ID	Application	Owner	Serverrole	Microsoft app	Third-party app	Custom app	Retire	Marginal	Important	Critical	Complexity (1–3)	Risk (1–3)	Windows Server 2012	Windows Azure	Microsoft Office 365	Cloud OS Network	Migrate as is	Upgrade version	Switch app vendor	Virtualize or shim app	Repair, rewrite, or refactor
00001	Exchange	Denise Smith		х						х	1	1			х		х	х			
00002	Web Server	Qiong Wu	х						х		2	2	х				х	х	х	х	
00003	Shipping Services	NaokiSato				х				х	2	1	х				х	х			
00004	Quick Quarter Close	DanielRoth				х		х			2	2	х				х	х			
00005	Lucerne Publishing Document Converter	Andrea Dunker			х				х		3	2	х				х	х			
00006	Trey Research Lookup Tool	Eric Gruber			х			х			2	3		х			х				
00007	A. Datum Index	OliverKiel				х	х				3	3									
00008	Inventory Key	Robin Counts				х			x		2	2				х	х			х	х









Migrate your workloads

Key words: test, test and test







Citrix AppDNA

AppZero

Consider service offerings



Microsoft Services JumpStart for Windows Server 2003

HP Windows
Server2012
Migration Service















HP Windows 2012 Migration Service

What does it do?

The HP Windows 2012 Migration Svc eases the implementation effort from Windows 2003 and 2008 to 2012. HP will collect the necessary technical information and configure the converged system in a prescribed environment, complete the required preparation steps, execute the Windows OS. Application and Database Migration, test and certify the Windows 2012 install, and gracefully prepare the client staff for the delivery of a system in a "ready-to-use"

How it helps with Window Server 2003/R2 migrations. Copy checked box to those that apply



Discover



Assess



Target

✓ Migrate

This service provides a number of key provisions, including:

- Business Case / ROI study
- Gather Technical & Business Requirements
- Review Server levels and components
- OS, Hypervisor and Database assessment
- Workload profiling
- Custom Application Review
- Detailed Design
- Implementation Planning, On / Off-shore resourcing
- Migration Prescription Strategy & Roadmap Deployment Plan, including Risk assessment
- Server, OS, DBMS and Hypervisor Upgrades
- Custom Application Remediation
- Deployment of future state Reference Architecture [HW, OS, DBMS, Server]
- Migration Tests, Adjustments and Tuning
- Upgrade and Migration Test Validation
- Backups and Recovery Points
- Deployment of Windows Server, Organizational & Process Changes
- System Certification/Acceptance and Cutover from Systems & Infrastructure, Organization & Processes
- Completed Training & Knowledge Transfer
- Operations & Support processes transitioned
- Legacy Systems & Infrastructure Decommissioned
- System Results Monitored and other Improvements Identified

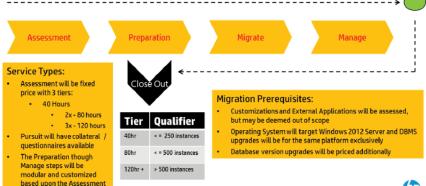
How is it sold or offered. How does the customer buy it or engage?

- As part of a planned HP Converged System Implementation
- As a stand-alone service, based upon the customer's existing infrastructure
- Please contact your HP Account Manager

Other key information

Windows 2012 spans all customer segments due to its versatile business approach and functionality. May be sold at time of the HP Converged System sale as an optional service to ready system to be introduced into customer's Windows Landscape and production environment, or as a stand alone service.

Logical Stages in Windows Server Migration Model



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Reg readers: is Windows Server 2012 ready for live use?

"Windows Server 2012 just stays up – but even if there are problems it is better... The new clustering capabilities allowed business to carry on without interruption."

"We will roll Windows Sever 2012 out... knowing that for 10 months of early deployment it's been rock solid."

"Even from the previews and Release Candidate we gained confidence to deliver Windows Server 2012 live, which is not really something you expect from Microsoft."









Reg readers: is Windows Server 2012 stable?

"Our Windows Server 2012 Hyper-V 3 implementation has [no support tickets] so far after three months in production."









Reg readers: what about app compatibility?

Most common from RDP program members: don't force fit existing workloads onto Windows Server 2012, and wait for ISVs to formally support workload.

"We've not had any compatibility issues to speak of, but we waited for updated releases of software to be ready and supported."









Reg readers: challenges

- Licensing: "Standard" or "Data Centre"
- Automation: early adopters like PowerShell and GUI enhancements
- Infrastructure administration: runs infrastructure components such as DNS, DHCP and Active Directory more flexibly in fully supported virtual environments.









Reg readers: "It is a step change"

"Get all the administrators certified for Windows Server 2012... a game changer for IT service delivery, not just a more modern version of what's in place."

"Embrace Server Manager, you'll love it."

"Don't do a big bang - prioritise and then factor in the rest.

"The dedupe options, DHCP, SMB 3 and Hyper-V improvements are just the tip of the iceberg. There are a lot of changes and it's easy to forget about new features."









Further reading

Microsoft:

Windows Server 2003

Migration Website

Microsoft Virtual Academy

Attend a Microsoft Transform your Datacenter Workshop

Windows Server 2003

EOS Leaflet

HP, Intel and Microsoft Event

Windows Server 2003 Workshop in London June 26 HP:

http://reg.cx/2aH2

http://reg.cx/2aH3

http://reg.cx/2aH6

http://reg.cx/2aH7

http://reg.cx/2abg

HP ConvergedSystem 700x Engineered

for Microsoft - Solution Brief http://reg.cx/2aH8

HP ConvergedSystem 700x Engineered

for Microsoft – Brochure

http://reg.cx/2aTn

http://reg.cx/2aHa

HP Server Refresh

FFD links:

Windows Server 2012 -

Insights from early deployments

of Windows Server 2012

http://reg.cx/2aHb









Thanks for joining us



An archived version of today's event will be made available on The Register in the near future.







