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Server Virtualization with Windows Server Hyper-V and System Center

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QUESTION 1

You are the virtualization administrator for an organization that manages private and public cloud resources. The organization has a Windows Azure subscription. You plan to move virtual machines to Windows Azure Infrastructure as a

Service (IaaS) by using System Center 2012 R2 App Controller.

You need to create a virtual machine template that allows virtual machines to be moved from Hyper-V to Windows Azure.

What should you do?

A. Create a new virtual machine that uses a .vhd file. Run the Sysprep tool on the virtual machine.

B. Create a new Generation 2 virtual machine that uses a .vhdx file that is attached to a SCSI controller. Run the Sysprep tool on the virtual machine.

C. Create a new virtual machine that uses a .vhdx file. Run the Sysprep tool on the virtual machine.

D. Create a virtual machine by using a differencing disk. Use the Clone a virtual machine option to create new virtual machines.

Correct Answer: A

http://blogs.msdn.com/b/how24/archive/2012/11/06/windows-azure-iaas-upload-a-custom-build- vmtemplate.aspx
http://blogs.technet.com/b/kevinremde/archive/2013/05/29/migrating-vms-from-hyper-v-to- windows-azure-20-key-scenarios-with-windows-azure-infrastructure- services.aspx Note: Azure v1.7 and below does not support VHDX files
Ref: http://www.windowsazure.com/en-us/documentation/articles/virtual-machines-create- upload-vhd- windows-server/

QUESTION 2

You have a Windows Server 2012 R2 Hyper-V environment that includes System Center 2012 R2 Virtual Machine Manager (VMM). The environment includes five physical servers. The servers are configured as follows:

Server Name	Operating System	Memory	Disk Volumes
NYC-FS	Windows Server 2012 Datacenter	2048 MB	3 TB
NYC-DEV	Windows Server 2008 R2 Enterprise	1024 MB	1 TB
NYC-EX	Windows Server 2008 Standard 32-bit	4096 MB	4 TB
NYC-PR	Windows Server 2003 Enterprise x64 Service Pack 2	512 MB	500 GB
NYC-WEB	Windows Server 2003 Web Edition	768 MB	200 GB

You plan to use VMM to migrate physical machines to virtual machines. You need to reconfigure the hardware on the servers to support a physical to virtual offline migration. Which three servers should you reconfigure? Each correct answer presents part of the solution.

A. NYC-FS

B. NYC-DEV

C. NYC-EX

D. NYC-PR

E. NYC-WEB

Correct Answer: ACD

You need to find servers which CANNOT go thru P2V migration.

P2V Prerequisites in VMM

Requirements on the source machine

The physical computer to be converted must meet the following requirements:

-Must have at least 512 MB of RAM.

-Cannot have any volumes larger than 2040 GB.

-

Must have an Advanced Configuration and Power Interface (ACPI) BIOS. Vista WinPE will not install on a non-ACPI BIOS.

-

Must be accessible by VMM and by the virtual machine host.

-Cannot be in a perimeter network.

--> A perimeter network, which is also known as a screened subnet, is a collection of devices and subnets that are placed between an intranet and the Internet to help protect the intranet from unauthorized Internet users. The source computer

for a physical-to-virtual (P2V) conversion can be in any other network topology in which the VMM management server can connect to the source machine to temporarily install an agent and can make Windows Management Instrumentation

(WMI) calls to the source computer.

- The source computer should not have encrypted volumes. --> If the source computer has encrypted volumes, an offline P2V conversion may render the computer unbootable.

Answer: So based on the prerequisites, NYC-FS, NYC-EX and NYC-PR needs to be re- configured.

UPDATE:

As of System Center 2012 R2, you can no longer perform P2V conversions in VMM. For information about how to use an earlier version of Virtual Machine Manager to mitigate this change, see the:

"How to perform a P2V in a SCVMM 2012 R2 environment blog" - http://blogs.technet.com/b/scvmm/archive/2013/10/03/how-to-perform-a-p2v-in-a-scvmm-2012- r2-environment.aspx

Technet Reference: http://technet.microsoft.com/en-us/library/hh427293.aspx

QUESTION 3

You administer a Hyper-V environment that uses Windows Server 2012 R2 and System Center 2012 R2 Virtual Machine Manager (VMM).

A line-of-business (LOB) application requires two virtual machines (VMs). Each VM must have direct access to existing Fibre Channel storage.

You need to ensure that the two VMs have direct access to Fibre Channel storage. Which three actions should you perform in sequence? To answer, move the appropriate actions from the

list of actions to the answer area and arrange them in the correct order.

Select and Place:

Configure the Hyper-V host servers with one or more Fibre Channel host bus adapters (HBAs). Connect the Hyper-V host servers to the storage area network (SAN).

Configure each Hyper-V host server with at least one virtual storage area network (SAN). Add a Fibre Channel adapter to each VM.

Configure each Hyper-V host server with at least one Cluster Shared Volume (CSV).

Configure Storage Quality of Service (QoS) on each of the VMs.

Install a storage area network (SAN) that supports only N_Port ID Virtualization (NPIV).

Install a storage area network (SAN) that supports only Offloaded Data Transfer (ODX).

Correct Answer:

	Install a storage area network (SAN) that supports only N_Port ID Virtualization (NPIV).
	Configure each Hyper-V host server with at least one virtual storage area network (SAN). Add a Fibre Channel adapter to each VM.
Configure each Hyper-V host server with at least one Cluster Shared Volume (CSV).	Configure the Hyper-V host servers with one or more Fibre Channel host bus adapters (HBAs). Connect the Hyper-V host servers to the storage area network (SAN).
Configure Storage Quality of Service (QoS) on each of the VMs.	
Install a storage area network (SAN) that supports only Offloaded Data Transfer (ODX).	

Note:

* The virtual Fibre Channel feature in Hyper-V requires the following:

One or more installations of Windows Server 2012 with the Hyper-V role installed. Hyper-V requires a computer with processor support for hardware virtualization.

* A computer with one or more Fibre Channel host bus adapters (HBAs) that have an updated HBA driver that supports virtual Fibre Channel. Updated HBA drivers are included with the in-box HBA drivers for some models. The HBA ports to

be used with virtual Fibre Channel should be set up in a Fibre Channel topology that supports NPIV. To determine whether your hardware supports virtual Fibre Channel, contact your hardware vendor or OEM.

* An NPIV-enabled SAN.

* Virtual machines configured to use a virtual Fibre Channel adapter, which must use Windows Server 2008, Windows Server 2008 R2, or Windows Server 2012 as the guest operating system.

* Storage accessed through a virtual Fibre Channel supports devices that present logical units. Virtual Fibre Channel logical units cannot be used as boot media.

QUESTION 4

A company has a single Active Directory Domain Services (AD DS) domain and Windows Server 2012 R2 servers that have the Hyper-V role installed. The company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage

the Hyper-V environment. Users access company resources from the Internet.
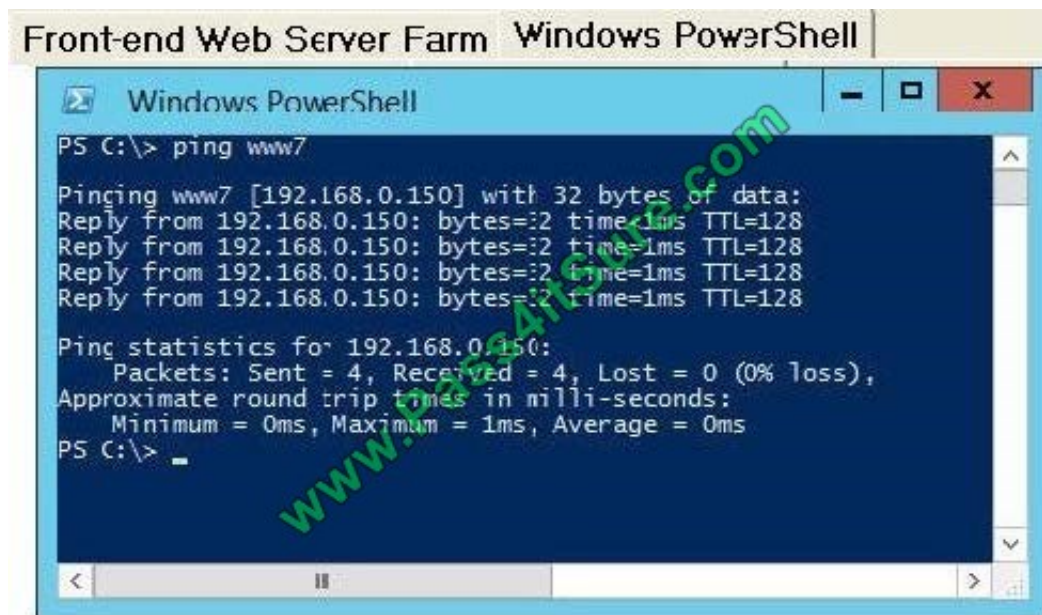
There is an existing front-end web server farm that contains virtual machines (VMs), as shown in the Front-end Web Server Farm exhibit. (Click the Exhibit button.) You use the VMs to deliver a website to the Internet.

Front-end Web Server Farm | Windows PowerShell

VLAN22

The servers are configured as shown in the following table:

Environment	Host Name	Subnet Assignment
www	www1	192.168.0.144
www	www2	192.168.0.145
www	www3	192.168.0.146
www	www4	192.168.0.147
www	www5	192.168.0.148
www	www6	192.168.0.149
www	www7	192.168.0.150

You preform connectivity tests between all of the front-end web servers. The connectivity tests all have the same results, as shown in the Windows PowerShell exhibit. (Click the Exhibit button.)

Front-end Web Server Farm   Windows PowerShell

Windows PowerShell

```
PS C:\> ping www7

Pinging www7 [192.168.0.150] with 32 bytes of data:
Reply from 192.168.0.150: bytes=32 time<1ms TTL=128
Reply from 192.168.0.150: bytes=32 time=1ms TTL=128
Reply from 192.168.0.150: bytes=32 time=1ms TTL=128
Reply from 192.168.0.150: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.0.150:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
PS C:\> _
```

The company plans to enhance overall security of the virtual environment. The front-end web servers must NOT be able to communicate with each other.

You need to implement changes to the environment.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Hot Area:

Yes	No	
○	○	A port virtual local area network (PVLAN) must be created for the font-end web servers.
○	○	The IP addresses for the PVLAN must be in the same subnet as VLAN22.
○	○	The front-end web servers must only communicate with the corporate network.

Correct Answer:

Yes	No	
●	○	A port virtual local area network (PVLAN) must be created for the font-end web servers.
●	○	The IP addresses for the PVLAN must be in the same subnet as VLAN22.
○	●	The front-end web servers must only communicate with the corporate network.

QUESTION 5

You administer a Windows Server 2012 R2 server with the Hyper-V role installed. You plan to integrate the Hyper-V host server with the existing storage infrastructure.

You need to configure all virtual machines (VMs).

Which three actions should you perform in sequence?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Associate the virtual network adapter to Switch1.

Associate the virtual Fibre Channel adapter to Switch1.

Add a new virtual Fibre Channel adapter to the VM.

Add a new virtual network adapter to the VM.

Create a new internal virtual switch named Switch1.

Create a new virtual Fibre Channel storage area network (SAN) named Switch1.

Correct Answer:

Associate the virtual Fibre Channel adapter to Switch1.

Add a new virtual Fibre Channel adapter to the VM.

Create a new virtual Fibre Channel storage area network (SAN) named Switch1.

Create a new internal virtual switch named Switch1.

Add a new virtual network adapter to the VM.

Associate the virtual network adapter to Switch1.

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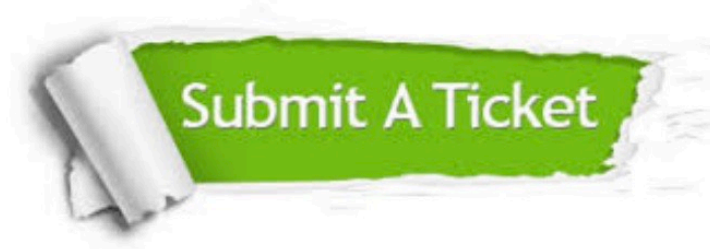Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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