



74-409^{Q&As}

Server Virtualization with Windows Server Hyper-V and System Center

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QUESTION 1

A company has a Windows Server 2012 R2 server that has the Hyper-V role installed. The server hosts 12 virtual machines (VMs) that run Windows Server 2012 R2. The company plans to deploy System Center 2012 R2 Data Protection

Manager (DPM). The company has identified the following requirements for the DPM deployment:

allow files and folders on VMs to be recovered

allow recovery of data to a network share

minimize the number of DPM protection agents that you must deploy

You need to implement the backup solution.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Deploy a DPM server.
- B. Deploy the DPM protection agent to VMs.
- C. Add the Hyper-V role to the DPM server.
- D. Configure DPM to perform guest-level backups of the VMs.
- E. Configure DPM to perform host-level backups of the VMs.

Correct Answer: AC

* DPM protection supports the following scenarios:

/ (this scenario) Protects virtual machines that are hosted on stand-alone servers that run Hyper-V and that use local or directly attached storage.

/ Protects virtual machines that run on a cluster. The cluster uses Cluster Shared Volumes (CSV) storage.

/Protects virtual machines that run on a stand-alone server or cluster and that use SMB 3.0 file server storage. /Protects virtual machines that are running during a live migration.

* Example: Protection for virtual machines on a stand-alone server that is running Hyper-V





This configuration protects one or more virtual machines on a stand-alone host computer. Storage can be local on the host server, or directly attached to it, for example a hard drive, a storage area network (SAN) device, or a network attached

storage (NAS) device. Alternatively, the host server might use SMB 3.0 storage on an alternate file server. The DPM protection agent must be installed on all hosts and on the file server if storage is hosted by using SMB 3.0.

Incorrect:

Not B: Would not minimize the number of Protection Agents.

Ref: <https://social.technet.microsoft.com/wiki/contents/articles/17493.protecting-hyper-v-virtual-machines-with-system-center-dpm-2012.aspx>

QUESTION 2

A company has Windows Server 2012 R2 servers that have the Hyper-V role installed. The guest virtual machines are configured as follows:

Configuration	Description
Operating System	Windows Server 2012
Virtual Machine Generation	Generation 1
Operating System Drive Format	.vhdx
Data Drive Format	.vhd

You need to ensure that the environment supports online virtual hard disk resizing. What should you do?

- A. Convert the virtual machines to Generation 2 virtual machines.
- B. Deploy clustered storage spaces.
- C. Convert the drive format of the virtual machines to the VHDX file format.
- D. Deploy Serial Attached SCSI (SAS).

Correct Answer: C

Ref: <http://technet.microsoft.com/en-us/library/dn282286.aspx>

Requirements

The following functionality is required for resizing a virtual hard disk:

A server capable of running Hyper-V. The server must have processor support for hardware virtualization. The Hyper-V role must be installed. ?A user account that is a member of the local Hyper-V Administrators group or the Administrators

group.

The following functionality is required for resizing a virtual hard disk:

VHDX - the ability to expand and shrink virtual hard disks is exclusive to virtual hard disks that are using the .vhdx file



format. Online resizing is supported for VHDX disk types, including fixed, differencing, and dynamic disks. Virtual hard disks

that use the .vhd file format are not supported for resizing operations. SCSI controller - the ability to expand or shrink the capacity of a virtual hard disk is exclusive to .vhdx files that are attached to a SCSI controller. VHDX files that are

attached to an IDE controller are not supported.

QUESTION 3

A company has a Windows Server 2012 R2 server named NYC-HOST1 that has the Hyper-V role installed. The host server hosts two virtual machines named SALES1 and SALES2. NYC-HOST1 uses storage spaces with tiered storage. The storage spaces contain both solid state disks (SSDs) and 10,000 RPM Serial Attached SCSI (SAS) disks for .vhdx files. Each virtual machine runs on its own .vhdx file.

You plan to add new virtual machines each month. SALES1 and SALES2 must run at the highest possible performance at all times. You need to configure the virtual machines.

What should you do?

- A. Add additional SSDs to the storage space that is occupied by SALES1 and SALES2.
- B. Replace the 10,000 RPM SAS disks with 15,000 RPM SAS disks.
- C. Move the .vhdx files from the storage spaces to individual SAS hard disks.
- D. Pin the .vhdx files for SALES1 and SALES2 to the fast tier.

Correct Answer: D

Ref: <http://blogs.technet.com/b/askpfeplat/archive/2013/10/21/storage-spaces-how-to-configure-storage-tiers-with-windows-server-2012-r2.aspx>

QUESTION 4

You are the virtualization administrator for an organization. You manage a virtual machine (VM) by using System Center 2012 R2 Virtual Machine Manager. The VM is in a running state. You plan to use the System Preparation (Sysprep) tool

to create a virtual machine template from the VM.

You need to save a copy of the VM before you run the Sysprep tool. Which actions should you take? To answer, drag the appropriate actions to the correct locations in the answer area. Each action may be used once, more than once, or not

at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:



pause

shut down

create checkpoint

create clone

store in library

	Action
Action to perform on the VM	
Operator to copy the VM	

Correct Answer:

pause

create checkpoint

store in library

	Action
Action to perform on the VM	shut down
Operator to copy the VM	create clone

You must shut down the VM before cloning it.

QUESTION 5

A company plans to create a Hyper-V test environment that will contain three virtual machines (VMs). The VMs are projected to grow 1 GB in size each day. The VMs will be configured as follows:

Virtual Machine Name	Operating System	Server Role
NYC-EX1	Windows Server 2012	Exchange Server 2013
NYC-DC1	Windows Server 2012	Active Directory Domain Service
NYC-SQL1	Windows Server 2008 R2	SQL Server 2008



You must minimize the required amount of storage space by using the least amount of administrative effort.

You need to recommend a storage solution.

Which type of virtual disk type should you configure for each VM?

- A. differencing
- B. dynamically expanding
- C. fixed
- D. pass-through



Correct Answer: B

<http://www.petri.co.il/choosing-hyper-v-storage-virtual-hard-disks-2.htm>

<http://searchservirtualization.techtarget.com/tip/Fixed-vs-dynamic-disks-for-Hyper-V-virtual-machines>

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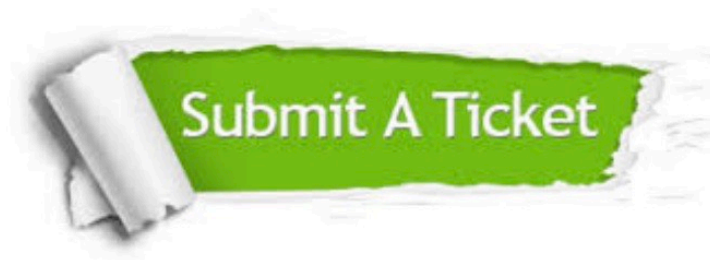
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