



74-409^{Q&As}

Server Virtualization with Windows Server Hyper-V and System Center

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QUESTION 1

A company has Active Directory Domain Services (AD DS) domain controllers that run on Windows Server 2012 R2 servers. There are two forests, and each has a single domain. There is a two-way forest trust between the forests. The company uses Hyper-V for server virtualization. The Hyper-V environment contains the Hyper-V host servers as shown in the following table:

Number of Hyper-V hosts	Domain or Workgroup	Network location
4	Contoso.com	Internal network
2	Fabrikam.com	Internal network
2	Ext.contoso.com	Perimeter network



You prepare to deploy System Center 2012 R2 Data Protection Manager (DPM) to back up the Hyper-V environment. The deployment must meet the following requirements:

ensure that all Hyper-V servers can be backed up by using DPM
Hyper-V hosts in the perimeter network must use certificate-based authentication
Hyper-V hosts in the internal network must use Kerberos authentication
minimize the total number of DPM servers

You need to deploy DPM to the environment. What should you deploy?

- A. four DPM servers in the internal network and two DPM servers in the perimeter network
- B. two DPM servers in the internal network only
- C. two DPM servers in the internal network and two DPM servers in the perimeter network
- D. two DPM servers in the internal network and one DPM server in the perimeter network

Correct Answer: D

<http://technet.microsoft.com/en-us/library/hh757970.aspx>

QUESTION 2

You administer the Hyper-V environment for a company. All virtual machines must use dynamic memory and virtual non-uniform memory access (NUMA) settings that are aligned to the underlying hardware.

One virtual machine is misconfigured.

You need to update the misconfigured virtual machine.

In the Settings dialog box for the virtual machine, which two options should you select?

Hot Area:



Hardware	
Add Hardware	
BIOS	Boot from CD
Memory	2048 MB
Processor	1 Virtual processor
IDE Controller 0	
Hard Drive	VM4.vhdx
IDE Controller 1	
DVD Drive	None
SCSI Controller	
Network Adapter	Control VM4
COM 1	None
COM 2	None
Diskette Drive	None
Management	
Name	VM4
Integration Services	Some services offered

Correct Answer:



The screenshot shows the configuration interface for a virtual machine. The 'Hardware' section is expanded, showing various components: 'Add Hardware', 'BIOS' (Boot from CD), 'Memory' (2048 MB), 'Processor' (1 Virtual processor), 'IDE Controller 0' (Hard Drive VM4.vhdx), 'IDE Controller 1' (DVD Drive None), 'SCSI Controller', 'Network Adapter' (Control Adapter), 'COM 1' (None), 'COM 2' (None), and 'Diskette Drive' (None). Below this, the 'Management' section shows 'Name' (VM4) and 'Integrator Services' (Some services offered).

The screenshot shows the 'Memory' configuration section. The 'Memory' is set to 1024 MB. Below it, other hardware components are listed: 'Processor' (1 Virtual processor), 'IDE Controller 0' (Hard Drive 2K12.vhdx), 'IDE Controller 1' (DVD Drive Physical drive F:), and 'SCSI Controller'.

The screenshot shows the 'Dynamic Memory' configuration options. The 'Startup RAM' is set to 1024 MB. The 'Dynamic Memory' section is expanded, showing a description: 'You can manage the amount of memory assigned to this virtual machine dynamically within the specified range.' The 'Enable Dynamic Memory' checkbox is checked. The 'Minimum RAM' is set to 512 MB and the 'Maximum RAM' is set to 1048576 MB.



Processor
1 Virtual processor:
Compatibility
NUMA
IDE Controller 0
Hard Drive
2K12.vhdx
IDE Controller 1
DVD Drive
Physical drive F:
SCSI Controller
Network Adapter
New Virtual Switch
COM 1
None
COM 2

NUMA nodes: 1
Sockets: 1

NUMA topology
Select the maximum number of processors and memory allowed on a single virtual non-uniform memory architecture (NUMA) node.

Maximum number of processors: 4

Maximum amount of memory (MB): 1946

Select the maximum number of nodes allowed on a single socket.

Maximum NUMA nodes allowed on a socket: 1

Click Use Hardware Topology to reset the virtual NUMA topology to the topology of the physical hardware.

Use Hardware Topology

QUESTION 3

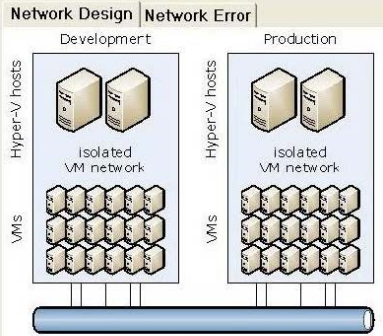
A company has a single Active Directory Domain Services (AD DS) domain and four Windows Server 2012 R2 servers that have the Hyper-V role installed. The company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage the Hyper-V environment. One set of Hyper-v host servers is dedicated for use by the development environment. A second set of Hyper-v host servers is dedicated for use by the production environment.



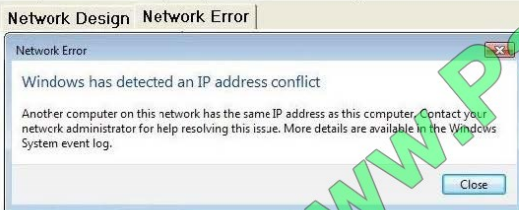
The network architects assign the IP address subnets as shown in the following table:

Environment	Role	Subnet Assignment
Development	Web Farm	10.10.100.0/24
Development	Database	10.10.101.0/24
Development	Application	10.10.102.0/24
Development	Infrastructure	10.10.103.0/24
Production	Web Farm	10.10.100.0/24
Production	Application	10.10.101.0/24
Production	Database	10.10.102.0/24
Production	Infrastructure	10.10.103.0/24

The network architects also prepare a network design for the Hyper-V environments as shown in the Network Design exhibit. (Click the Exhibit button.)



The implementation team reports a problem with IP addressing as shown in the Network Error exhibit. (Click the Exhibit button.)



You need to ensure that the implementation team can implement the network design successfully. For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

- Yes No
- The implementation team must implement new port profiles for the development environment.
 - The implementation team must implement network virtualization based on the network design.
 - The implementation team must enable the Router Guard option on the virtual machines.

The network architects assign the IP address subnets as shown in the following table: The network architects also prepare a network design for the Hyper-V environments as shown in the Network Design exhibit. (Click the Exhibit button.) The implementation team reports a problem with IP addressing as shown in the Network Error exhibit. (Click the Exhibit button.) You need to ensure that the implementation team can implement the network design successfully. 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
- The implementation team must implement new port profiles for the development environment.
 - The implementation team must implement network virtualization based on the network design.
 - The implementation team must enable the Router Guard option on the virtual machines.



Correct Answer:

Yes

No



The implementation team must implement new port profiles for the development environment.



The implementation team must implement network virtualization based on the network design.

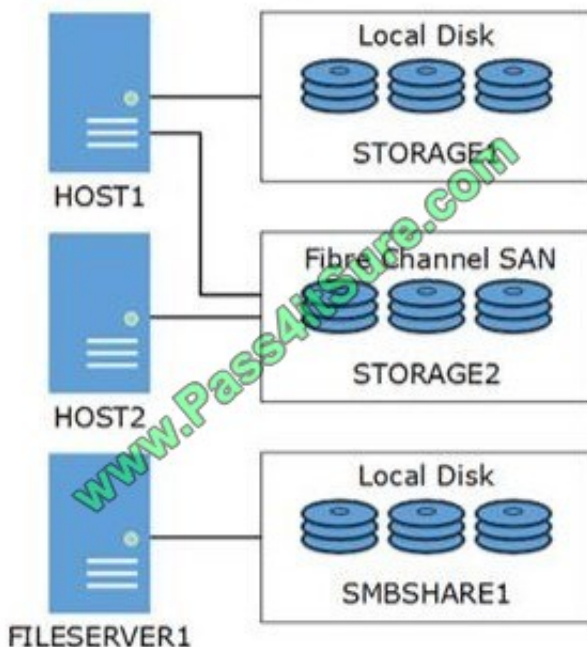


The implementation team must enable the Router Guard option on the virtual machines.

Ref: <http://blogs.technet.com/b/scvmm/archive/2013/06/17/logical-networks-part-v-network-virtualization.aspx>
<http://technet.microsoft.com/en-us/library/jj721570.aspx>

QUESTION 4

A company has a Hyper-V environment that includes three servers named HOST1, HOST 2, and FILESERVER1. HOST1 and HOST2 run Windows Server 2012 R2 that have the Hyper-V role installed. FILESERVER1 runs Windows Server 2008 R2 and has the File Services role installed. All of the hardware supports Offloaded Data Transfer (ODX). The servers are configured as shown in the following diagram:



STORAGE1 is encrypted with BitLocker.

You need to support ODX for all of the virtual machines on HOST1. Use the drop-down menus to complete each statement based on the information presented in the screenshot. Each correct selection is worth one point.



Hot Area:

Which type of disk and controller should you use?

a disk that uses the VHD file format that is attached to an IDE controller
a disk that uses the VHDX file format that is attached to an IDE controller
a disk that uses the VHDX file format that is attached to a SCSI controller

Where should you place the virtual hard disk (VHD)?

STORAGE1
STORAGE2
SMBSHARE1

Correct Answer:

Which type of disk and controller should you use?

a disk that uses the VHD file format that is attached to an IDE controller
a disk that uses the VHDX file format that is attached to an IDE controller
a disk that uses the VHDX file format that is attached to a SCSI controller

Where should you place the virtual hard disk (VHD)?

STORAGE1
STORAGE2
SMBSHARE1

Ref: <http://technet.microsoft.com/en-us/library/jj200627.aspx>

QUESTION 5

You administer the following Windows Server 2012 R2 Hyper-V environment:

Server Name	Virtual Machine Datastore Size	Virtual Machines	Number of cluster
SERVER1	100 GB	VM-APP1 uses 75 GB	No
SERVER2	200 GB	VM-WEB1 uses 50 GB VM-WEB2 uses 50 GB VM-WEB3 uses 50 GB	Yes
SERVER3	200 GB	VM-WEB1 uses 50 GB VM-WEB2 uses 50 GB VM-WEB3 uses 50 GB	Yes
SERVER4	200 GB	VM-SQL1 uses 100 GB	No

The environment also contains a computer named WORKSTATION1 that runs Windows 8. You need to perform maintenance on SERVER1. You have the following requirements:



Perform live migration for VM-APP1.

Use one of the Hyper-V management tools on WORKSTATION1 to perform the live migration tasks.

You need to migrate VM-APP1.

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:

On all servers, configure virtual machines to use the Credential Security Support Provider (CredSSP).

Move VM-APP1 to the Hyper-V cluster.

On WORKSTATION1, run the Failover Cluster Manager snap-in and connect to SERVER1. Then, start the move wizard.

On WORKSTATION1, run Hyper-V Manager and connect to SERVER1. Then, start the move wizard.

On all servers, configure constrained delegation.

Move VM-APP1 to SERVER4.

Correct Answer:

On all servers, configure constrained delegation.

On WORKSTATION1, run Hyper-V Manager and connect to SERVER1. Then, start the move wizard.

Move VM-APP1 to SERVER4.

* Box 1:



/ (Optional) Configure constrained delegation

If you have decided to use Kerberos to authenticate live migration traffic, configure constrained delegation before you proceed to the rest of the steps.

/ To manage the tasks with remote management tools, configure constrained delegation and select Kerberos as the authentication protocol.

* (Box2, Box 3) To move a running virtual machine

Connect to the source server using one of the following methods (unless you are signed in to the source server):

/ From Server Manager, click All Servers and then click the name of the source server.

/ From Hyper-V Manager, in the navigation pane, click the name of the source server.

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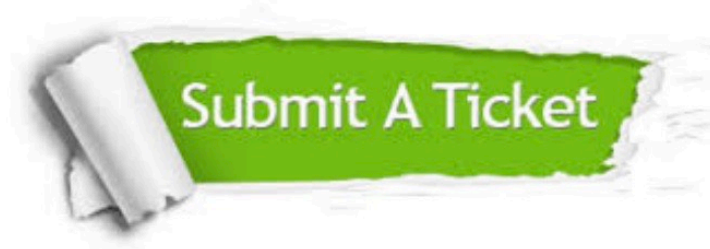
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