



74-409^{Q&As}

Server Virtualization with Windows Server Hyper-V and System Center

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QUESTION 1

A company has seven Windows Server 2012 R2 virtual machines (VMs). The VMs are running and are accessible over the network. You plan to copy a large .ISO file from the host server to each of the VMs. The copy operations must meet the following requirements:

The VMs must remain accessible over the network during the copy operations.

The copy operations must NOT use a network connection.

You need to configure the VMs. What should you do on each VM?

- A. Enable the Guest services integration service.
- B. Enable the Data Exchange integration service.
- C. Add a network adapter, and then enable the virtual machine queue (VMQ) option on the adapters.
- D. Set the value of the Smart Paging File Location property to %SYSTEMROOT%\temp.

Correct Answer: A

Ref: <http://technet.microsoft.com/en-us/library/dn282278.aspx>

Q: What is the new Guest services integration service in Windows Server 2012 R2 Hyper-V?

A: Several integration services are available for virtual machines (VMs) such as time synchronization, heartbeat, backup, OS shutdown, and data exchange. In Windows Server 2012 R2, a new integration service has been added, Guest services. Guest services enables the copying of files to a VM using WMI APIs or using the new Copy-VMFile Windows PowerShell cmdlet.

QUESTION 2

A company has a Hyper-V host server that runs Windows Server 2012 R2 Datacenter edition. The host server has a Generation 2 virtual machine (VM) that runs Windows Server 2012 R2 Standard edition. The drive that contains the VM system partition is at 90 percent of its capacity.

You have the following requirements:

The VM must continue to run during any system maintenance activities.

You must use the least amount of administrative effort to accomplish the task.

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:



Expand the VHDX file.

Create a new file that uses the VHDX file format and attach it to the VM.

Add the new VHDX file to the VM.

From the VM, extend the volume.

From Hyper-V Manager, edit the disk.

Correct Answer:

From Hyper-V Manager, edit the disk.

Expand the VHDX file.

From the VM, extend the volume.

QUESTION 3

A company has servers that run Windows Server 2012 R2. The company has one Active Directory Domain Services (AD DS) domain. A user reports that USB devices are not redirected when he uses the Virtual Machine Connection tool to

connect to a virtual machine. USB device redirection works for other users that connect to this VM.

You need to ensure that USB devices are redirected for all users when they connect to this VM.

What should you do?

- A. Add the user as a member of the Administrators group on the VM.
- B. Ensure that the Allow enhanced session mode setting is set to Enabled on the VM.
- C. Ensure that the Remote Desktop Services service is running on the VM.
- D. Add the user as a member of the Administrators group on the AD DS domain.



Correct Answer: A

Ref: <http://technet.microsoft.com/en-us/library/dn282274.aspx>

Re-direction works for other users on this VM. This means that Enhanced Session Mode is already enabled on the server and VM.

Additionally, Remote Desktop Services needs to be running, and the user account you use to sign in to the virtual machine needs to be a member of the Remote Desktop Users local group or the local Administrators group.

QUESTION 4

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:



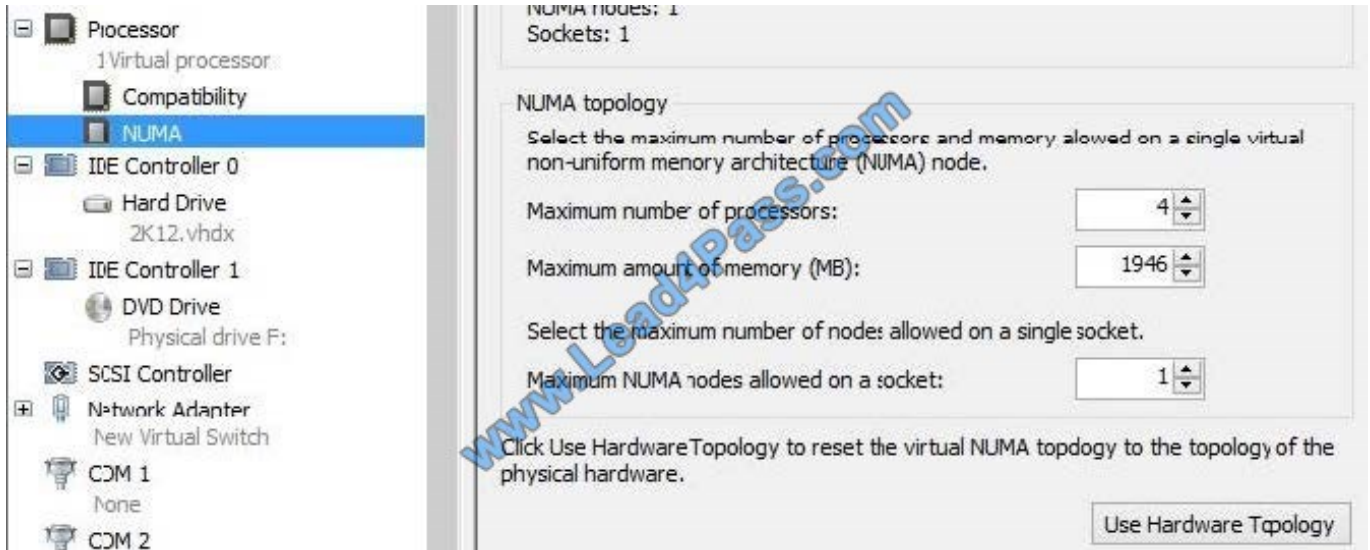
Correct Answer:



The screenshot shows the 'Hardware' tab in a virtual machine configuration window. It lists 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 (Contoso-Net1), COM 1, COM 2 (None), and Diskette Drive (None). Below the hardware list is the 'Management' section, which includes the Name (VM4) and Integrator Services (Some services offered).

The screenshot shows the 'Memory' configuration window. The left sidebar lists hardware components: Memory (1024 MB), 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 window. It includes the following settings: Startup RAM: 1024 MB; Dynamic Memory section with a note: 'You can manage the amount of memory assigned to this virtual machine dynamically within the specified range.'; Enable Dynamic Memory: checked; Minimum RAM: 512 MB; Maximum RAM: 1048576 MB.



QUESTION 5

You have three Windows Server 2012 R2 servers that are set up as a Hyper-V cluster. You use System Center 2012 R2 Virtual Machine Manager to manage the Hyper-V environment. Users report that when a Hyper-V host server becomes overloaded, the performance of the virtual machines is unacceptable. You need to analyze workloads and automatically migrate virtual machines from overloaded host servers to host clusters that have available capacity.

What should you configure?

- A. Performance and Resource Optimization (PRO)
- B. Placement Rules
- C. shared .vhdx file
- D. Dynamic Optimization

Correct Answer: D

Ref: <http://technet.microsoft.com/en-us/library/gg675109.aspx> Dynamic Optimization in VMM During Dynamic Optimization, VMM migrates virtual machines within a host cluster to improve load balancing among hosts and to correct any placement constraint violations for virtual machines.

Dynamic Optimization can be configured on a host group, to migrate virtual machines within host clusters with a specified frequency and aggressiveness. Aggressiveness determines the amount of load imbalance that is required to initiate a migration during Dynamic Optimization. By default, virtual machines are migrated every 10 minutes with medium aggressiveness. When configuring frequency and aggressiveness for Dynamic Optimization, an administrator should factor in the resource cost of additional migrations against the advantages of balancing load among hosts in a host cluster. By default, a host group inherits Dynamic Optimization settings from its parent host group.

Dynamic Optimization can be set up for clusters with two or more nodes. If a host group contains stand-alone hosts or host clusters that do not support live migration, Dynamic Optimization is not performed on those hosts. Any hosts that are in maintenance mode also are excluded from Dynamic Optimization. In addition, VMM only migrates highly available virtual machines that use shared storage. If a host cluster contains virtual machines that are not highly available, those virtual machines are not migrated during Dynamic Optimization. On demand Dynamic Optimization also is available for individual host clusters by using the Optimize Hosts action in the VMs and Services workspace. On demand Dynamic



Optimization can be performed without configuring Dynamic Optimization on host groups. After Dynamic Optimization is requested for a host cluster, VMM lists the virtual machines that will be migrated for the administrator's approval.

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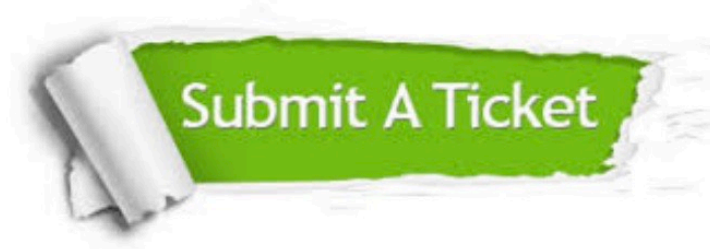
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