



74-409^{Q&As}

Server Virtualization with Windows Server Hyper-V and System Center

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QUESTION 1

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 2

You administer the virtual machines and the Hyper-V host server for a large organization. All Hyper-V virtual machines must start even when the host server does not have enough physical memory available.

You need to ensure that all Hyper-V virtual machines start.

What should you do?

- A. Configure the Hyper-V host server to use smart paging.
- B. Configure the virtual machines to run at high priority.
- C. Configure the Hyper-V host server to run at high priority.
- D. Configure the virtual machines to use dynamic memory.
- E. Configure the virtual machines as members of an availability set.
- F. Configure the Hyper-V host server as a member of an availability set.

Correct Answer: A

Ref: <http://technet.microsoft.com/de-de/library/hh831766.aspx>

QUESTION 3

A company has one Active Directory Domain Services (AD DS) forest that contains two domains. All servers run Windows Server 2012 R2. The company uses iSCSI storage and Fibre Channel storage.



You plan to deploy a single Hyper-V failover cluster that uses Cluster Shared Volumes (CSV). The cluster must include virtual machines from both domains. You need to ensure that you can deploy a failover cluster.

What should you do?

- A. Join each Hyper-V host server to the same AD DS domain.
- B. Deploy clustered storage spaces.
- C. Deploy Serial Attached SCSI (SAS).
- D. Join each Hyper-V host server to different AD DS domains.

Correct Answer: A

Ref: <http://technet.microsoft.com/en-us/library/dn505754.aspx> Domain role: All servers in the cluster must be in the same Active Directory domain. As a best practice, all clustered servers should have the same domain role (either member server or domain controller). The recommended role is member server.

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:



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

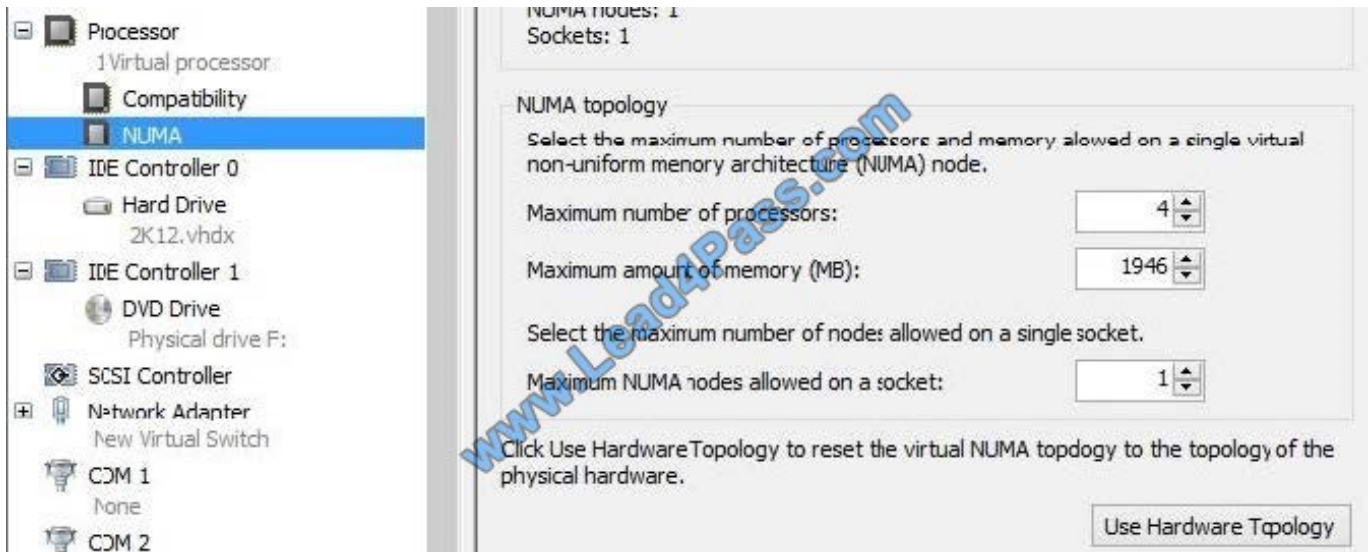
- Name
VM4
- Integration Services
Some services offered

Correct Answer:



The screenshot shows the 'Hardware' configuration window for a virtual machine. 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 (Connected), 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. On the left, the hardware list is visible with 'Memory' selected, showing 1024 MB. The main configuration area shows 'Startup RAM' set to 1024 MB. Under 'Dynamic Memory', there is 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. 'Minimum RAM' is set to 512 MB and 'Maximum RAM' is set to 1048576 MB.



QUESTION 5

A company consolidates multiple data centers into a single centralized datacenter by using a Windows Server 2012 R2 server that has the Hyper-V role installed. You must be able to support chargeback based on the usage of the following resources:

average CPU usage per virtual machine (VM)
average physical memory used by a VM over a period of time
highest amount of memory assigned to a VM over a period of time
highest amount of disk space assigned to a VM over a period of time

You need to track the resources without installing any additional tools. Which tool should you use?

- A. Process Explorer
- B. Resource Metering
- C. Reliability Monitor
- D. Resource Monitor

Correct Answer: B

Ref: <http://technet.microsoft.com/en-us/library/hh831661.aspx>



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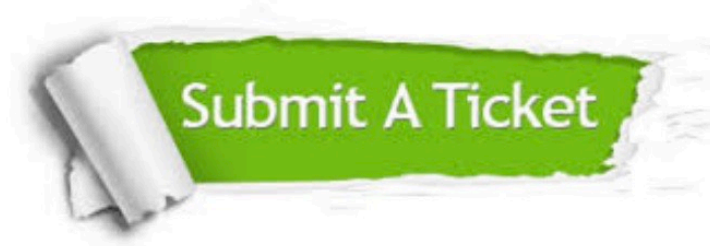
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