Vendor: Microsoft

Exam Code:74-409

Exam Name: Server Virtualization with Windows Server Hyper-V and System Center

Version: Demo

QUESTION 1

You are the virtualization administrator for an organization. The organization uses all components of System Center 2012 R2 in its production environment.

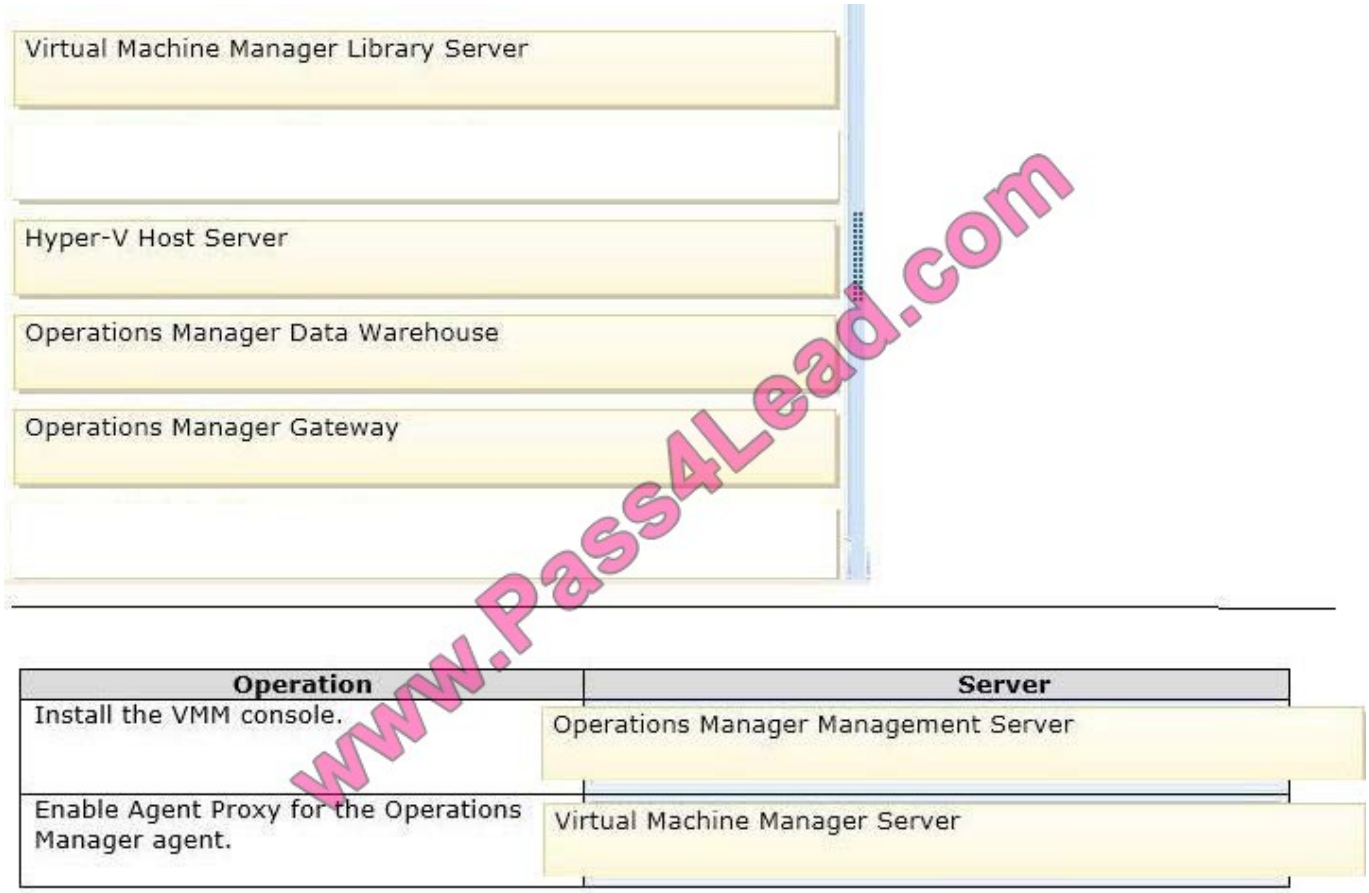
You need to configure the environment to support Performance and Resource Optimization (PRO).

How should you configure the environment? To answer, drag the appropriate server role to the correct location or locations. Each server role 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:

Correct Answer:



Ref: http://technet.microsoft.com/en-us/library/hh882396.aspx

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QUESTION 2

A Windows Server 2012 R2 Hyper-V host server has four network adapters that are connected to two different network switches. The server contains a virtual machine named NYC-WEB.

You have the following requirements:

increase the available bandwidth for NYC-WEB

implement network fault tolerance for NYC-WEB without modifying network switch configurations

use the least amount of administrative effort

You need to configure the Hyper-V environment. What should you do first?

A. Enable NIC teaming. Configure the team to use Static Teaming mode.

B. Enable NIC teaming. Configure the team to use Switch Independent mode.

C. Enable Bandwidth Management on NYC-WEB.

D. Run the Windows PowerShell command Set-NetLbfoTeam -Name Team1 -TeamingMode Static.

Correct Answer: B

Ref: http://blogs.technet.com/b/privatecloud/archive/2012/06/19/nic-teaming-in-windows-server- 2012-brings-simple-affordable-traffic-reliability-and-load- balancing-to-your-cloud- workloads.aspx

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QUESTION 3

A company has offices in Hamburg, New York, and San Francisco. The Hamburg office has one Hyper-V host server named HAM-HOST1. The New York office has two Hyper-V host servers named NYC-HOST1 and NYC-HOST2. The San

Francisco office has one Hyper-V host server named SFC-HOST1. All Hyper-V host servers run Windows Server 2012 R2.

You must deploy an application virtual machine (VM) that will be used by the sales team at the company.

You need to ensure that the VM remains available during unplanned system outages.

Which solution should you implement?

A. a Hyper-V cluster that includes NYC-HOST1 and NYC-HOST2

B. Server Message Block (SMB) 3.0 file shares on NYC-HOST1, NYC-HOST2, SFC-HOST1, and HAM-HOST1

C. a Distributed File System (DFS) replication between NYC-HOST1, SFC-HOST1, and HAM- HOST1

D. dynamic optimization on NYC-HOST1 and NYC-HOST2

Correct Answer: A

QUESTION 4

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 5

Contoso, Ltd. has a Windows Server 2012 R2 server with the Hyper-V role installed. Contoso has a virtual machine named CVM1. The company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage the environment. Contoso acquires Fabrikam, Inc. Fabrikam has a Windows Server 2012 R2 server with the Hyper-V role installed.

CVM1 must be able to communicate with a virtual machine named FVM2 on a non-routable subnet in the Fabrikam Hyper-V environment You need to ensure that CVM1 can communicate with FVM2. Which technology should you implement?

A. Remote Desktop (RD) Gateway

B. Windows Network Load Balancing (WNLB)

C. Windows Server Gateway

D. Reverse Proxy Server

Correct Answer: C

Ref: http://technet.microsoft.com/en-us/library/dn313101.aspx

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QUESTION 6

A company has an environment that runs System Center 2012 R2 Operations Manager and System Center 2012 R2 Virtual Machine Manager (VMM). The company also has web applications that are used by employees.

You must plan a management strategy for the company.

You need to ensure that you can monitor the web applications from outside the company network.

Which tool should you use as part of the monitoring strategy?

A. System Center Global Service Monitor

B. Microsoft Monitoring Agent

C. System Center Fabric Health Dashboard

D. Windows Intune

Correct Answer: A

Ref: http://www.microsoft.com/en-us/server-cloud/system-center/global-service-monitor.aspx

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QUESTION 7

A company has a virtualization infrastructure that consists of two Hyper-V host servers. The host servers and all of the

virtual machines (VMs) run Windows Server 2012 R2. The company plans to deploy VMs by using file shares that use the Server Message Block (SMB) protocol. You need to store the maximum amount of VM data on the SMB file shares. Which three file types should you store on the SMB file shares? Each correct answer presents part of the solution.

A. VM logical unit numbers (LUNs)

B. VM configuration files

C. Hyper-V host server logical unit numbers (LUNs)

D. VM snapshots

E. VM virtual hard disks (VHDs)

Correct Answer: BDE

A Windows Server 2012 Hyper-V host can now store virtual machine configuration files, VHDs, and snapshots in file shares over the SMB 3.0 protocol.

Ref: http://technet.microsoft.com/en-us/library/jj134187.aspx

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QUESTION 8

A company has two offices in New York and one office in San Francisco. There is no shared storage between the San Francisco office and the New York headquarters. All offices are connected by a wide area network (WAN). The Hyper-V environment is configured as shown in the following table:

Office	Hyper-V Host	Operating System	Number of Virtual Machines
New York headquarters	NYC-Host1	Windows Server 2012 R2	3
San Francisco branch office	SFC-Host1	Windows Server 2012 R2	6
New York branch office	NYC-Host2	Windows Server 2012 R2	5

All virtual machines must be highly available. You need to configure the environment. What should you implement?

A. a separate Hyper-V replica between NYC-Host1 and SFC-Host1

B. a Hyper-V cluster that includes NYC-Host1, NYC-Host2, and SFC-Host1

C. a Hyper-V cluster between NYC-Host1 and SFC-Host1

D. a Hyper-V replica between NYC-Host1 and NYC-Host2 with an extended replica between NYC-Host1 and SFC-Host1

Correct Answer: D

Ref: http://blogs.technet.com/b/virtualization/archive/2013/10/22/what-s-new-in-windows- server-2012-r2.aspx

Role/Feature description Hyper-V Replica provides asynchronous replication of Hyper-V virtual machines between two hosting servers. It is simple to configure and does not require either shared storage or any particular storage hardware. Any server workload that can be virtualized in Hyper-V can be replicated. Replication works over any ordinary IP-based network, and the replicated data can be encrypted during transmission. Hyper-V Replica works with standalone servers, failover clusters, or a mixture of both. The servers can be physically co-located or widely separated geographically. The physical servers do not need to be in the same domain, or even joined to any domain at all.

Read Technet for more on Extended replica

QUESTION 9

A company has a new Hyper-V host server that runs Windows Server 2012 R2 Datacenter edition. You plan to deploy a new virtual machine (VM). You must install Windows Server 2012 R2 Standard edition on the VM from a standard

network adapter by using PXE boot. The VM must boot to a SCSI VHDX disk.

You need to create the VM.

What should you create?

A. a storage pool that uses SCSI disks

B. a Generation 1 VM

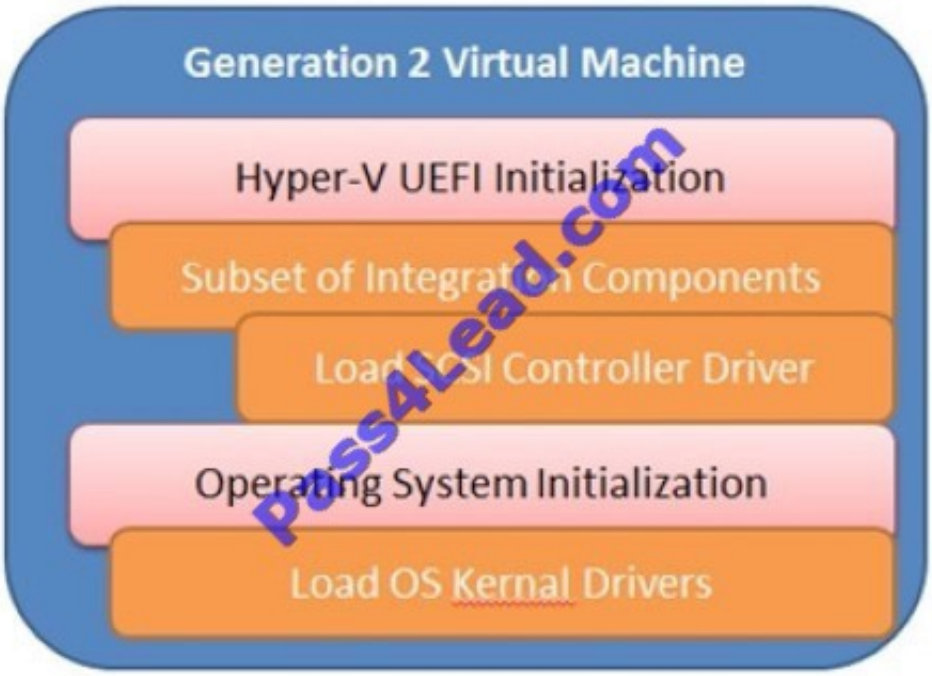
C. a Generation 2 VM

D. a virtual disk that uses the VHDX format

Correct Answer: C

http://technet.microsoft.com/en-us/library/dn282285.aspx http://www.serverwatch.com/server-tutorials/hyper-v-2012-r2-pros-and-cons-of-generation-1- vs.- generation-2-vms.html

A virtual machine created with Generation 1 supports legacy drivers and uses Hyper-V BIOS- based architecture. Hyper-V BIOS-based virtual machines can only initialize IDE Controller for Operating System to initialize a file system, which is shown in the below image: On the other hand, a virtual machine created with Generation 2 supports UEFI-based architecture, in which a subset of Integration Service components has been included to allow SCSI Controller to initialize before the Operating System starts loading This is shown in the below image:



What you see in the above screenshot is that the Generation 2 Virtual Machine no longer loads the legacy drivers (IDE and Legacy Network Adaptors) A majority of the legacy drivers have been removed from a virtual machine that has been created using Generation 2, but a subset of Integration Services components has been included to initialize at

boot and before control is returned to the Operating System. This includes initializing and loading SCSI Controller driver before the Operating System starts loading.

QUESTION 10

You have a Windows Server 2012 R2 server that has the Hyper-V role installed. The company has the following requirements for the Hyper-V host server: Virtual machines (VMs) must only communicate with other VMs. You must be able to monitor all TCP/IP packets to and from VMs from the moment that VMs are able to communicate. You must support a third-party program that uses the Network Driver Interface Specification (NDIS) API to monitor the TCP/IP packets between VMs.

You need to configure the environment.

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:

Correct Answer:

Note: Hyper-V Extensible Switch The Hyper-V extensible switch supports an interface that allows instances of NDIS filter drivers (known as extensible switch extensions) to bind within the extensible switch driver stack. After they are bound and enabled, extensions can monitor, modify, and forward packets to extensible switch ports. This also allows extensions to reject, redirect, or originate packets to ports that are used by the Hyper-V partitions. Ref: http://technet.microsoft.com/en-us/library/hh831823.aspx

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QUESTION 11

You administer an environment that uses a Windows Server 2012 R2 Hyper-V cluster and System Center 2012 R2 Virtual Machine Manager (VMM). You plan to deploy two virtual machines (VMs) that host a line-of-business (LOB)

application. The VMs must reside on the same Hyper-V host server at all times. The LOB application does NOT require high availability.

You need to deploy the VMs.

What should you do?

A. Add a custom property to both VMs, and assign the same value to each property. Configure the Hyper-V host cluster to use the same custom property and value. Configure a custom placement rule that uses filters that are based on the custom property and value.

B. Configure the VMs to use the same VM network.

C. Configure the VMs to reside on the same storage area networks (SANs).

D. Add a custom property to both VMs, and assign the same value to each property. Configure the VMs as members of the same availability set.

Correct Answer: A

Ref: http://blogs.technet.com/b/scvmm/archive/2013/03/11/custom-placement-rules-and- availability-sets-in-scvmm-2012-sp1.aspx

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QUESTION 12

You administer two Windows Server 2012 R2 servers that have the Hyper-V role installed. You use System Center 2012 Virtual Machine Manager (VMM) to manage the Hyper-V host servers. You need to create a server lab environment.

The lab servers have the following requirements:

All of the lab servers must be virtualized.

All of the lab servers must be on an isolated network.

All of the lab servers must be able to communicate with each other.

You need to configure networking for the lab environment.

What should you do?

A. Create a logical switch.

B. Create a media access control (MAC) pool.

C. Add a load balancer.

D. Create a private virtual LAN (PVLAN) logical network.

Correct Answer: D

Ref: http://blogs.technet.com/b/scvmm/archive/2013/06/04/logical-networks-part-iv-pvlan- isolation.aspx

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