



# Microsoft

## Exam Questions 74-409

Server Virtualization with Windows Server Hyper-V and System Center

Version: Demo

1. A company has a server that has System Center 2012 R2 Virtual Machine Manager (VMM) installed. A specific user must be able to create logical networks in VMM. You need to grant the user the required permissions. What should you do?

- A. in VMM, grant the user the Administrator role.
- B. in VMM, create a self-service role that has the Deploy action assigned.
- C. in Server Manager, add the user to the local Administrators group.
- D. In VMM, grant the user the Tenant Administrator role.

**Answer:** A

Explanation: Ref: <http://technet.microsoft.com/en-us/library/gg610588.aspx>

Account requirements To complete this procedure, you must be a member of the Administrator or the Delegated Administrator user role. Delegated administrators can only associate a logical network to host groups that are included in their administrative scope.

2. 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

**Answer:** A

Explanation:

Ref: <http://www.microsoft.com/en-us/server-cloud/system-center/global-servicemonitor.aspx>

3. You are the virtualization administrator for an organization that manages private and public cloud resources.

The organization has a Windows Azure subscription. You plan to move virtual machines to Windows Azure Infrastructure as a Service (IaaS) by using System Center 2012 R2 App Controller.

You need to create a virtual machine template that allows virtual machines to be moved from Hyper-V to Windows Azure.

What should you do?

- A. Create a new virtual machine that uses a .vhd file. Run the Sysprep tool on the virtual machine.
- B. Create a new Generation 2 virtual machine that uses a .vhdx file that is attached to a SCSI controller. Run the Sysprep tool on the virtual machine.
- C. Create a new virtual machine that uses a .vhdx file. Run the Sysprep tool on the virtual machine.
- D. Create a virtual machine by using a differencing disk. Use the Clone a virtual machine option to create new virtual machines.

**Answer: A**

Explanation:

<http://blogs.msdn.com/b/how24/archive/2012/11/06/windows-azure-iaas-upload-a-custombuild-vmtemplate.aspx>

<http://blogs.technet.com/b/kevinremde/archive/2013/05/29/migrating-vms-from-hyper-v-towindows-azure-20-key-scenarios-with-windows-azure-infrastructure-services.aspx>

Note: Azure v1.7 and below does not support VHDX files

Ref: <http://www.windowsazure.com/en-us/documentation/articles/virtual-machines-createupload-vhd-windows-server/>

4. A company has a Hyper-V failover cluster that consists of sixteen host servers that run Windows Server 2012 R2. The company uses System Center 2012 R2 Virtual Machine Manager (VMM) to manage the Hyper-V environment.

Eight of the host servers are used only for engineering-related services. The other eight host servers are used for general corporate use.

You need to ensure that the corporate virtual machines (VMs) are never moved to the host servers that are used for engineering.

What should you do?

- A. Create a new VMM availability set for the corporate VMs.
- B. Create a custom property for the corporate VMs and host servers. Then, use a custom placement rule for the host group. Specify that the rule must match.
- C. In the corporate VMs, set the value of the Preferred Owners setting to the names of the corporate host servers.
- D. Create a new VMM availability set for the corporate host servers.

**Answer: B**

Explanation: Ref: <http://blogs.technet.com/b/scvmm/archive/2013/03/11/customplacement-rules-and-availability-sets-in-scvmm-2012-sp1.aspx>

5. You administer two Windows 2012 R2 servers that have the Hyper-V role installed. You plan to deploy a new Hyper-V cluster. The cluster instance must NOT be added to Active Directory. You need to deploy the cluster. What should you do?

A. Use Hyper-V Manager to deploy the cluster.

B. Use Failover Cluster Manager to deploy the cluster.

C. Run the Windows PowerShell cmdlet New-Cluster. Specify ActiveDirectoryAndDNS for the AdministrativeAccessPoint parameter.

D. Run the Windows PowerShell cmdlet New-Cluster. Specify DNS for the AdministrativeAccessPoint parameter.

**Answer: D**

Explanation:

Ref: <http://technet.microsoft.com/en-us/library/dn265970.aspx>

To deploy an Active Directory-detached cluster, you must use Windows PowerShell. You cannot use Failover Cluster Manager.

To create the failover cluster, start Windows PowerShell as an administrator, and then use the New-Cluster cmdlet with the `-AdministrativeAccessPoint` parameter set to a value of DNS.

6. You administer a Hyper-V environment that uses Windows Server 2012 R2 and System Center 2012 R2 Virtual Machine Manager (VMM).

A line-of-business (LOB) application requires two virtual machines (VMs). Each VM must have direct access to existing Fibre Channel storage.

You need to ensure that the two VMs have direct access to Fibre Channel storage.

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.

Configure the Hyper-V host servers with one or more Fibre Channel host bus adapters (HBAs). Connect the Hyper-V host servers to the storage area network (SAN).

Configure each Hyper-V host server with at least one virtual storage area network (SAN). Add a Fibre Channel adapter to each VM.

Configure each Hyper-V host server with at least one Cluster Shared Volume (CSV).

Configure Storage Quality of Service (QoS) on each of the VMs.

Install a storage area network (SAN) that supports only N\_Port ID Virtualization (NPIV).

Install a storage area network (SAN) that supports only Offloaded Data Transfer (ODX).

**Answer:**

Configure the Hyper-V host servers with one or more Fibre Channel host bus adapters (HBAs). Connect the Hyper-V host servers to the storage area network (SAN).

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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)

**Answer:** B,D,E

Explanation: 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>

8. You administer a Windows Server 2012 R2 server that has the Hyper-V role installed. The server hosts three virtual machines (VMs).

One of the VMs is managed by a security engineer. The security engineer must capture traffic on another VM that is running on the same server.

You need to ensure that the security engineer can access the network traffic information from the target VM.

Which networking feature should you enable?

- A. port mirroring
- B. NIC teaming
- C. Protected network
- D. MAC address spoofing

**Answer:** A

Explanation:

Ref: [http://technet.microsoft.com/en-us/library/jj679878.aspx#bkmk\\_portmirror](http://technet.microsoft.com/en-us/library/jj679878.aspx#bkmk_portmirror)

Port Mirroring

With Port Mirroring, traffic sent to or from a Hyper-V Virtual Switch port is copied and sent to a mirror port. There are a range of applications for port mirroring - an entire ecosystem of network visibility companies exist that have products designed to consume port mirror data for performance management, security analysis, and network diagnostics. With Hyper-V Virtual Switch port mirroring, you can select the switch ports that are monitored as well as the switch port that receives copies of all the traffic.

The following examples configure port mirroring so that all traffic that is sent and received by both MyVM and MyVM2 is also sent to the VM named MonitorVM.

```
Set-VMNetworkAdapter -VMName MyVM -PortMirroring Source
Set-VMNetworkAdapter -VMName MyVM2 -PortMirroring Source
Set-VMNetworkAdapter -VMName MonitorVM -PortMirroring Destination
```

C:\Documents and Settings\Adnan Hameed\Desktop\untitled.PNG

9. A company has a network that contains one Active Directory Domain Services (AD DS) domain. The domain and forest functional levels are set to Windows Server 2008. All domain controllers run Windows Server 2012.

You need to enable the Active Directory Recycle Bin for the forest. What should you do?

- A. Raise the domain and forest functional levels to Windows Server 2012 R2.
- B. Deploy new domain controllers that have Windows Server 2012 R2 installed.
- C. Raise the domain and forest functional levels to Windows Server 2008 R2.
- D. Upgrade the domain controllers to Windows Server 2012 R2.

**Answer: C**

Explanation:

Ref: [http://technet.microsoft.com/en-us/library/dd379484\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/dd379484(v=ws.10).aspx)

By default, Active Directory Recycle Bin in Windows Server 2008 R2 is disabled. To enable it, you must first raise the forest functional level of your AD DS or AD LDS environment to Windows Server 2008 R2, which in turn requires all forest domain controllers or all servers that host instances of AD LDS configuration sets to be running Windows Server 2008 R2. After you set the forest functional level of your environment to Windows Server 2008 R2, you can use the instructions in this guide to enable Active Directory Recycle Bin.

10. A company has Hyper-V host servers that run Windows Server 2012. The company also has virtual machines that run Windows Server 2008 R2 or Windows Server 2012.

You upgrade the Hyper-V host servers to Windows Server 2012 R2.

You need to ensure that all virtual machines can PXE boot by using a standard network adapter.

What should you do?

- A. Create Generation 2 virtual machines.
- B. Upgrade all existing virtual machines to Windows Server 2012 R2.
- C. Upgrade the existing virtual machines that run Windows Server 2008 R2 to Windows Server 2012 R2.

D. Create Generation 1 virtual machines.

**Answer:** A

Explanation:

Ref: <http://technet.microsoft.com/en-us/library/dn282285.aspx>

Gen 2 VMs allow PXE booting



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