



70-414^{Q&As}

Implementing an Advanced Server Infrastructure

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QUESTION 1

Your network contains four servers. The servers are configured as shown in the following table.

| Server name | Nodes | Platform |
|-------------|-------------|------------------|
| Cluster1 | Five nodes | VMware ESX 4.0 |
| Cluster2 | Ten nodes | Citrix XenServer |
| Cluster3 | Six nodes | Hyper-V |
| Cluster4 | Three nodes | Hyper-V |

You manage all of the clusters by using Microsoft System Center 2012 Virtual Machine Manager (VMM).

You plan to implement Dynamic Optimization for the virtual machines. You need to recommend a configuration for the planned implementation.

What should you recommend?

- A. Dynamic Optimization on Cluster3 and Cluster4 only Virtual machines that are balanced across the clusters
- B. Dynamic Optimization on all of the clusters Virtual machines that are balanced across the nodes in the clusters
- C. Dynamic Optimization on all of the clusters Virtual machines that are balanced across the clusters
- D. Dynamic Optimization on Cluster1 and Cluster2 only Virtual machines that are balanced across the nodes in the clusters

Correct Answer: B

Configuring Dynamic Optimization and Power Optimization in VMM

The procedures in this section explain how to configure Dynamic Optimization and Power Optimization in System Center 2012 Virtual Machine Manager (VMM), and how to run Dynamic Optimization on demand for a host cluster.

VMM can perform load balancing within host clusters that support live migration. Dynamic Optimization migrates virtual machines within a cluster according to settings you enter.

Note: In System Center 2012 Virtual Machine Manager, Dynamic Optimization replaces the host load balancing that is performed for Performance and Resource Optimization (PRO) by the PRO CPU Utilization and PRO Memory Utilization monitors in System Center Virtual Machine Manager (VMM) 2008 R2.

VMM can help to save power in a virtualized environment by turning off hosts when they are not needed and turning the hosts back on when they are needed. References: <http://searchsystemschannel.techtarget.com/feature/Using-Microsoft-Cluster-Services-for-virtualmachineclustering>

QUESTION 2

You need to automatically restart the appropriate web service on DETCRL01 and CHICRL01 if the web service is



stopped.

Solution: You create a diagnostic task in SCOM and configure it to start the Server service.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

It is not the Server service that needs to be restarted. The Internet Information Services (IIS) World Wide Web Publishing Service (W3SVC), which manages the HTTP protocol and HTTP performance counters, needs to be restarted.

References: [https://technet.microsoft.com/en-us/library/cc734944\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/cc734944(v=ws.10).aspx)

QUESTION 3

You are evaluating the deployment of a multi-site Hyper-V failover cluster in the Miami office and the Seattle office to host App2. You need to identify which changes must be made to support the use of the multi-site cluster. Which changes should you identify?

A. Configure all of the virtual machines to use dynamic memory. Implement Distributed File System (DFS) Replication and store the virtual machine files in a replicated folder.

B. Implement Distributed File System (DFS) Replication and store the virtual machine files in a replicated folder. Upgrade the WAN link between the Miami and Seattle offices.

C. Purchase a storage solution that replicates the virtual machines. Configure all of the virtual machines to use dynamic memory.

D. Upgrade the WAN link between the Miami and Seattle offices. Purchase a storage solution that replicates the virtual machines.

Correct Answer: C



Explanation/Reference:

| | | | |
|----------|---|----------------|--------------------------|
| Overview | Existing Environment Network Infrastructure | Current Issues | Application Requirements |
|----------|---|----------------|--------------------------|

The WAN link between the Miami office and the Seattle office is a low bandwidth link with high latency. The link will not be replaced for another year.

| | | | |
|----------|---|----------------|--------------------------|
| Overview | Existing Environment Network Infrastructure | Current Issues | Application Requirements |
|----------|---|----------------|--------------------------|

The company is developing an application named Appl. App1 is a multi-tier application that will be sold as a service to customers.

Each instance of App1 is comprised of the following three tiers:

- A web front end
- A middle tier that uses Windows Communication Foundation (WCF)
- A Microsoft SQL Server 2008 R2 database on the back end

Each tier will be hosted on one or more virtual machines. Multiple tiers cannot coexist on the same virtual machine.

When customers purchase App1, they can select from one of the following service levels:

- Standard: Uses a single instance of each virtual machine required by Appl. If a virtual machine becomes unresponsive, the virtual machine must be restarted.
- Enterprise: Uses multiple instances of each virtual machine required by App1 to provide high-availability and fault tolerance.

All virtual hard disk (VHD) files for App1 will be stored in a file share. The VHDs must be available if a server fails.

You plan to deploy an application named App2. App2 is comprised of the following two tiers:

- A web front end
- A dedicated SQL Server 2008 R2 database on the back end

App2 will be hosted on a set of virtual machines in a Hyper-V cluster in the Miami office. The virtual machines will use dynamic IP addresses. A copy of the App2 virtual machines will be maintained in the Seattle office.

QUESTION 4

Your network contains four failover clusters. The clusters are configured as shown in the following table.

| Cluster name | Nodes | Platform |
|--------------|-------------|------------------|
| FC1 | four nodes | Hyper-V |
| FC2 | six nodes | Hyper-V |
| FC3 | four nodes | VMware ESX 4.0 |
| FC4 | eight nodes | Citrix XenServer |

You manage all of the clusters and all of the servers by using Microsoft System Center 2012 Virtual Machine Manager (VMM).

You plan to implement Dynamic Optimization for the virtual machines. You need to recommend a configuration for the planned implementation. What should you recommend?

- A. Dynamic Optimization on all of the clusters. Virtual machines that are balanced across the nodes in the clusters.
- B. Dynamic Optimization on FC1 and FC2 only. Virtual machines that are balanced across the nodes in the clusters.
- C. Dynamic Optimization on all of the clusters. Virtual machines that are balanced across the clusters.
- D. Dynamic Optimization on FC1, FC2, and FC3 only. Virtual machines that are balanced across the clusters.



Correct Answer: D

References: <https://searchservvirtualization.techtarget.com/answer/How-does-SCVMM-Dynamic-Optimization-work>

QUESTION 5

Your network contains an Active Directory forest named contoso.com. All servers run Windows Server 2012 R2. The forest contains two servers. The servers are configured as shown in the following table.

| Server name | Role |
|-------------|--|
| Server1 | Active Directory Federation Services (AD FS) |
| Server2 | Web application proxy |

You prepare the forest to support Workplace Join and you enable the Device Registration Service (DRS) on Server1. You need to ensure that Workplace Join meets the following requirements:

Application access must be based on device claims.

Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials.

Which cmdlet should you run to achieve each requirement? To answer, select the cmdlet for each requirement in the answer area.

Hot Area:

Answer Area

Application access must be based on device claims:

▼

Set-AdfsClaimsProviderTrust

Set-AdfsGlobalAuthenticationPolicy

Set-AdfsProperties

Set-AdfsRelyingPartyTrust

Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials:

▼

Set-AdfsClaimsProviderTrust

Set-AdfsGlobalAuthenticationPolicy

Set-AdfsProperties

Set-AdfsRelyingPartyTrust

Correct Answer:

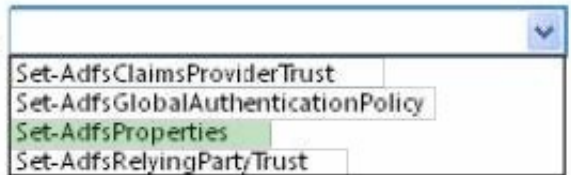


Answer Area

Application access must be based on device claims:



Users who attempt to join their device to the workplace through Server2 must be prevented from locking out their Active Directory account due to invalid credentials:



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