Microsoft

70-414 Exam

Implementing an Advanced Server Infrastructure

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Version: 22.0

Case Study: 1
Contoso, Ltd Case A
Overview
Contoso, Ltd., is a recruiting and staffing company that has offices throughout North America.

The company has a main office and six branch offices. The main office is located in Miami. The branch offices are located in New York. Seattle, Los Angeles, Montreal, Toronto, and Vancouver.

Existing Environment
Network Infrastructure
The network contains one Active Directory domain named contoso.com.

The main office has the following servers:

- One file server that maintains multiples shares
- Two domain controllers configured as DNS servers
- One Windows Server Update Services (WSUS) server
- Two DHCP servers that each have a scope for all of the subnets
- Two servers that have Failover Clustering configured and are used as virtualization hosts
- One server that has Microsoft SQL Server 2012 installed and maintains a customer relationship management (CRM) database

Each branch office has the following servers:

- One domain controller configured as a DNS server
- One DHCP server that has a single scope for its respective office

Each office has a single subnet. The network speed of the local area network (LAN) is 1 gigabit per second. All of the offices have a high-speed connection to the Internet. The offices connect to each other by using VPN appliances.

Current Issues
Users report that it can take a long time to download files from network shares in the main office.

A root cause analysis identifies that network traffic peaks when the users experience this issue.

Requirements
Planned Changes
The company plans to implement the following changes:

- Replace all of the domain controllers with new servers that run Windows Server

2012.

- Upgrade the CRM application to use a web-based application that connects to the current CRM database. The web application will store session data in the memory of each web server.
- Initially, deploy two front-end web servers to two virtual machines. Additional virtual web servers will be deployed in the future.
- Monitor the availability of the CRM application and create alerts when the overall availability is less than 99 percent.
- Implement Microsoft System Center 2012 to manage the new environment.

Business Requirements

The company identifies the following business requirements:

- Minimize hardware costs and software costs whenever possible.
- Minimize the amount of network traffic over the VPN whenever possible.
- Ensure that the users in the branch offices can access files currently on the main office file server if an Internet link fails.

Technical Requirements

The company identifies the following technical requirements:

- Provide a highly available DHCP solution.
- Maintain a central database that contains the security events from all of the servers. The database must be encrypted.
- Ensure that an administrator in the main office can manage the approval of Windows updates and updates to third-party applications for all of the users.
- Ensure that all of the domain controllers have the ReliableTimeSource registry value in HKEY_LOCAL_MACHINE \SYSTEM\CurrentControlSet\Services\W32Time\Parameters set to 1, even if an administrator changes that value manually.

Virtualization Requirements

The company identifies the following virtualization requirements:

- Minimize the number of permissions and privileges assigned to users.
- Ensure that the members of a group named Group2 can add a WSUS server to the fabric.
- Ensure that a diagram view of the virtualization environment can be generated dynamically.
- Minimize the amount of administrative effort required to manage the virtualization environment.
- Prevent the failure of a front-end web server from affecting the availability of the CRM application.
- Ensure that the members of a group named Group1 can create new virtual machines in the Los Angeles office only.
- Only create virtual machine templates by using objects that already exist in the

System Center 2012 Virtual Machine Manager (VMM) library.
- On the failover cluster in the main office, apply limited distribution release (LDR) updates to the virtualization hosts without disrupting the virtual machines hosted on the virtualization hosts.

Question: 1

You need to recommend a solution that manages the security events. The solution must meet the technical requirements.
Which configuration should you include in the recommendation?

A. Object access auditing by using a Group Policy object (GPO)
B. Event rules by using System Center 2012 Operations Manager
C. Event forwarding by using Event Viewer
D. Audit Collection Services (ACS) by using System Center 2012

Answer: D

Question: 2

You are planning the delegation for the virtualization environment. The delegation must meet the virtualization requirements.
Which user role profile should you select for Group2?

A. Administrators
B. Read-Only Administrator
C. Self-Service User
D. Delegated Administrator

Answer: A

Question: 3

You need to recommend a solution that resolves the current file server issue. The solution must meet the business requirements.
What should you include in the recommendation?

A. BranchCache in hosted cache mode
B. BranchCache in distributed cache mode
C. A storage pool
D. Distributed File System (DFS)

Answer: D

Question: 4

You need to recommend a solution for managing updates. The solution must meet the technical requirements.
What should you include in the recommendation?

A. A System Center 2012 Configuration Manager management point in the main office and a WSUS downstream server in each office
B. A System Center 2012 Configuration Manager software update point in the main office and a System Center 2012 Configuration Manager distribution point in each office
C. A System Center 2012 Configuration Manager management point in the main office and a System Center 2012 Configuration Manager distribution point in each office
D. A WSUS upstream server in the main office and a WSUS downstream server in each office

Answer: B

Question: 5

You are planning the deployment of System Center 2012 Virtual Machine Manager (VMM).
You need to identify which additional System Center 2012 product is required to meet the virtualization requirements.
What should you include in the recommendation?

A. App Controller
B. Operations Manager
C. Configuration Manager
D. Service Manager

Answer: B

Question: 6

You need to recommend a solution that meets the technical requirements for DHCP.
What should you include in the recommendation for each office?

A. DHCP failover
B. Network Load Balancing (NLB)
C. DHCP server policies
D. IP Address Management (IPAM)

Answer: A

Question: 7

You need to create a virtual machine template for the web servers used by the CRM application.
The solution must meet the virtualization requirements.
What should you use?

A. An .iso image
B. A virtual machine
C. A Windows PowerShell script
D. A virtual hard disk (VHD)

Answer: D

Explanation:

Business Requirements	Technical Requirements	Virtualization Requirements	All

The company identifies the following virtualization requirements:
- Minimize the number of permissions and privileges assigned to users
- Ensure that the members of a group named Group2 can add a WSUS server to the fabric.
- Ensure that a diagram view of the virtualization environment can be generated dynamically.
- Minimize the amount of administrative effort required to manage the virtualization environment.
- Prevent the failure of a front-end web server from affecting the availability of the CRM application.
- Ensure that the members of a group named Group1 can create new virtual machines in the Los Angeles office only.
- Only create virtual machine templates by using objects that already exist in the System Center 2012 Virtual Machine Manager (VMM) library.
- On the failover cluster in the main office, apply limited distribution release (LDR) updates to the virtualization hosts without disrupting the virtual machines hosted on the virtualization hosts.

A Virtual Machine Manager template provides a standardized group of hardware and software settings that can be used repeatedly to create new virtual machines configured with those settings. In Library view in the Administrator Console, you can use the **New template** action to open the New Template Wizard used to create a virtual machine template.

Although you can use a number of methods to create a template, you cannot create a template that does not include an operating system. Virtual Machine Manager supports the use of either Windows Server 2003 or Windows 2000 Server. If you want to create a virtual machine with a blank virtual hard disk on which you install an operating system later, you must use the New Virtual Machine Wizard rather than the New Template Wizard that is described in this topic. For more information about using the New Virtual Machine Wizard, see Creating Virtual Machines.

Reference: http://technet.microsoft.com/en-us/library/bb740838.aspx

Question: 8

You need to recommend a solution for updating the virtualization hosts. The solution must meet the visualization requirements.
What should you include in the recommendation?

A. Cluster-Aware Updating
B. WSUS
C. System Center Updates Publisher 2011
D. System Center 2012 Configuration Manager

Answer: A

Explanation:

| Business Requirements | Technical Requirements | Virtualization Requirements | All |

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Cluster-Aware Updating Overview

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Published: February 29, 2012

Updated: August 15, 2012

Applies To: Windows Server 2012

This topic provides an overview of Cluster-Aware Updating (CAU), a new feature for failover clusters in Windows Server 2012 that automates the software updating process on clustered servers while maintaining availability. It describes scenarios and applications for using CAU, and provides links to content that details how to integrate CAU into other IT automation and management processes.

Reference: http://technet.microsoft.com/en-us/magazine/ee677580.aspx

Question: 9

You need to ensure that Group1 can perform the required tasks. The solution must meet the visualization requirements.
What should you create?

A. A collection
B. A host group
C. An organizational unit (OU)
D. A site

Answer: B

Explanation:

| Business Requirements | Technical Requirements | Virtualization Requirements | All |

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Applies To: System Center 2012 - Virtual Machine Manager, System Center 2012 SP1 - Virtual Machine Manager

[This topic is pre-release documentation and is subject to change in future releases. Blank topics are included as placeholders.]

The procedures in this section describe how to create a host group structure in System Center 2012 –
Virtual Machine Manager (VMM), and how to configure host group properties. You can use host groups to group virtual machine hosts in meaningful ways, often based on physical site location and resource allocation. When you design a host group structure, consider the following:

Reference: http://technet.microsoft.com/en-us/library/gg610645.aspx.

Question: 10

You need to recommend an automated remediation solution for the ReliableTimeSource registry value. The solution must meet the technical requirements.
What should you include in the recommendation?

A. A System Center 2102 Configuration Manager configuration baseline.
B. A System Center 2012 Operations Manager performance counter rule.
C. A System Center 2012 Configuration Manager maintenance task.
D. A System Center 2012 Operations Manager event rule.

Answer: A

Explanation:

Business Requirements	Technical Requirements	Virtualization Requirements	All

The company identifies the following technical requirements:
- Provide a highly available DHCP solution.
- Maintain a central database that contains the security events from all of the servers. The database must be encrypted.
- Ensure that an administrator in the main office can manage the approval of Windows updates and updates to third-party applications for all of the users.
- Ensure that all of the domain controllers have the ReliableTimeSource registry value in HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Param eters set to 1, even if an administrator changes that value manually.

- View configuration baselines that have been deployed to the client, initiate compliance evaluation, and view compliance reports.

Reference: http://technet.microsoft.com/en-US/library/gg682106.aspx

Question: 11

You need to create a service template for the web servers used by the CRM application.
What should you include in the service template?

A. A VIP template
B. A host profile
C. Guest OS profile
D. A capability profile

Answer: A

Explanation:

Overview	Existing Environment Network Infrastructure	Current Issues	Planned Changes

The company plans to implement the following changes:
- Replace all of the domain controllers with new servers that run Windows Server 2012.
- Upgrade the CRM application to use a web-based application that connects to the current CRM database. The web application will store session data in the memory of each web server.
- Initially, deploy two front-end web servers to two virtual machines. Additional virtual web servers will be deployed in the future.
- Monitor the availability of the CRM application and create alerts when the overall availability is less than 99 percent.
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Business Requirements	Technical Requirements	Virtualization Requirements	All

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- On the failover cluster in the main office, apply limited distribution release (LDR) updates to the virtualization hosts without disrupting the virtual machines hosted on the virtualization hosts.

Updated: September 10, 2012

Applies To: System Center 2012 - Virtual Machine Manager, System Center 2012 SP1 - Virtual Machine Manager

[This topic is pre-release documentation and is subject to change in future releases. Blank topics are included as placeholders.]

You can use the following procedure to create a virtual IP (VIP) template for a hardware load balancer. A virtual IP template contains load balancer-related configuration settings for a specific type of network traffic. For example, you could create a template that specifies the load balancing behavior for HTTPS traffic on a specific load balancer manufacturer and model. These templates represent the best practices from a load balancer configuration standpoint.

Note

For information about how to create a virtual IP template for Microsoft Network Load Balancing (NLB), see How to Create VIP Templates for Network Load Balancing (NLB) in VMM.

Reference: http://technet.microsoft.com/library/gg610569.aspx

Question: 12

You need to recommend a solution for deploying the web servers for the CRM application.
The solution must meet the visualization requirements.
What should you include in the recommendation?

A. Network Load Balancing (NLB) without affinity
B. Failover Clustering with one active node
C. Failover Clustering with two active nodes
D. Network Load Balancing (NLB) with client affinity

Answer: D

Explanation:

| Business Requirements | Technical Requirements | Virtualization Requirements | All |

The company identifies the following virtualization requirements:
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Reference: http://technet.microsoft.com/library/hh831698

Question: 13

You need to deploy the dedicated storage servers to support the new web application servers.
What should you do?

A. Install Windows Storage Server 2012 R2 Standard on STORAGE1 and STORAGE2. Use STORAGE1 and STORAGE2 as iSCSI target servers.
B. Install Windows Storage Server 2012 R2 Standard on STORAGE1 and STORAGE2. Use STORAGE1 and STORAGE2 as scale-out file servers.
C. Install Windows Storage Server 2012 R2 Workgroup on STORAGE1 and STORAGE2. Use STORAGE1 and STORAGE2 as scale-out file servers.
D. Install Windows Storage Server 2012 R2 Workgroup on STORAGE1 and STORAGE2. Use STORAGE1 and STORAGE2 as iSCSI target servers.

Answer: C

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