

70-414_John

Number: 70-414
Passing Score: 700
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Update on 4/26/13

Change Log:

Upon further review - thanks to Nos, Phillip, voodoo32, The Corrector, and Neocortex - the following modifications have been made:

All are corrected answers unless otherwise specified.

Datum Q1
B Q6
D Q7
D Q11
D Q12
D Q27
A Q14
B Q10 - Returning to the original answer in Omar's VCE.
C Q2 - Additional info in explanation.

Update on 4/25/13

Change Log:

Exam A
Q1 No Change
Q2 Updated Explanation
Q3 Updated Explanation
Q4 No Change
Q5 Updated Explanation
Q6 Updated Explanation
Q7 Updated Explanation
Q8 Updated Explanation
Q9 Updated Explanation
Q10 Updated Explanation
Q11 Updated Explanation
Q12 Updated Explanation
Q13 Updated Answer/Explanation
Q14 Updated Answer
Q15 Updated Explanation

Exam B
Q1 No Change

Q2 Updated Explanation
Q3 Updated Explanation
Q4 Updated Explanation
Q5 No Change
Q6 New Answer
Q7 No Change
Q8 Updated Explanation
Q9 Updated Explanation
Q10 Updated Answer/Explanation
Q11 Updated Explanation
Q12 Updated Explanation
Q13 Updated Explanation
Q14 Updated Explanation
Q15 Updated Explanation
Q16 Updated Explanation

Exam C

Q1 Updated Explanation
Q2 Updated Explanation
Q3 No Change
Q4 Updated Explanation
Q5 Updated Explanation
Q6 Updated Explanation
Q7 New Answer
Q8 Updated Explanation
Q9 Updated Explanation
Q10 Updated Explanation
Q11 No Change
Q12 Updated Explanation
Q13 Updated Explanation

Exam D

Q1 No Change
Q2 No Change
Q3 Updated Explanation
Q4 No Change
Q5 Updated Answer
Q6 No Change
Q7 No Change
Q8 No Change
Q9 No Change
Q10 No Change
Q11 No Change
Q12 New Answer
Q13 No Change
Q14 No Change
Q15 No Change
Q16 Updated Explanation
Q17 No Change
Q18 New Answer
Q19 No Change
Q20 Updated Explanation
Q21 No Change
Q22 No Change
Q23 No Change
Q24 No Change
Q25 Updated Explanation
Q26 No Change
Q27 New Answer/Explanation

Contoso

Q1 Updated Explanation
Q2 Updated Explanation
Q3 Updated Explanation
Q4 Updated Explanation
Q5 No Change
Q6 Updated Explanation
Q7 Updated Explanation
Q8 Updated Explanation
Q9 Updated Explanation
Q10 Updated Explanation
Q11 Updated Explanation
Q12 Updated Explanation

Datum

Q1 Updated Explanation
Q2 Updated Explanation
Q3 Updated Explanation
Q4 Updated Explanation
Q5 Updated Explanation
Q6 Updated Explanation
Q7 Updated Explanation
Q8 Updated Explanation
Q9 Updated Explanation
Q10 Updated Explanation
Q11 Updated Explanation
Q12 Updated Explanation
Q13 Updated Explanation

By MFB March 7, 2013

I used this dump and passed my test on 3-6-13 Here are the details from my exam

39 questions 2 scenarios 6 questions each = 51 questions

4 categories

Manage and Maintain Server Infra. 25-30%

High Availability 25-30%

Hyper-V 25-30%

Identity and Access 20-25%

I passed with 790, approx 86% in 1, 83% in 2, 100% in 3, and 72% in 4. I came up with these percentages by measuring the progress bars on my results.

I had the following questions on my exam: A1,13,15 B1,2,3,5,6,7,8,9,10,11,14,15 C8,9,13 All 27 questions from D and Contoso 1,2,6,8,9,10 Datum 4,5,6,7,8,12

I know that I listed more than 51, but a lot of the questions in ABC and D are similar. But I assure you that I didn't have a question not on this list.

Case Study No 1: Contoso Ltd :

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 a 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.

Case Study 2: A. Datum (Case Study):

Overview

Datum Corporation is an accounting company.
The company has a main office and two branch offices. The main office is located in Miami. The branch offices are located in New York and Seattle.

Existing Environment

Network Infrastructure

The network contains an Active Directory domain named adatum.com. All servers run Windows Server 2008 R2.

The main office has the following servers and client computers:

- * Two domain controllers configured as DNS servers and DHCP servers
- * One file server that has multiples shares
- * One thousand client computers that run Windows 7
- * Each branch office has the following servers and client computers:
- * One domain controller configured as a DNS server and a DHCP server
- * Five hundred to 800 client computers that run Windows XP Each office has multiple subnets.

The network speed of the local area network (LAN) is 1 gigabit per second. The offices connect to each other by using a WAN link. The main office is connected to the Internet.

Current Issues

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.

Requirements

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 become 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. App2 will be used by users from a partner company named Trey Research. Trey Research has a single Active Directory domain named treyresearch.com. Treyresearch.com contains a server that has the Active Directory Federation Services server role and all of the Active Directory Federation Services (AD FS) role services installed.

Planned Changes

Datum plans to implement the following changes:

- * Replace all of the servers with new servers that run Windows Server 2012.
- * Implement a private cloud by using Microsoft System Center 2012 to host instances of Appl.
- * In the Miami office, deploy four new Hyper-V hosts to the perimeter network.
- * In the Miami office, deploy two new Hyper-V hosts to the local network.
- * In the Seattle office, deploy two new Hyper-V hosts.
- * In the Miami office, implement a System Center 2012 Configuration Manager primary site that has all of the system roles installed.
- * Implement a public key infrastructure (PKI).
- * Implement AD FS.

Notification Requirements

Datum identifies the following notification requirements:

Help desk tickets must be created and assigned automatically when an instance of App1 becomes unresponsive.

Customers who select the Enterprise service level must receive an email notification each time a help desk ticket for their instance of App1 is opened or closed.

Technical Requirements

Datum identifies the following technical requirements:

Minimize costs whenever possible.

Minimize the amount of WAN traffic.

Minimize the amount of administrative effort whenever possible.

Provide the fastest possible failover for the virtual machines hosting App2.

Ensure that administrators can view a consolidated report about the software updates in all of the offices.

Ensure that administrators in the Miami office can approve updates for the client computers in all of the offices.

Security Requirements

Datum identifies the following security requirements:

An offline root certification authority (CA) must be configured.

Client computers must be issued certificates by a server in their local office.

Changes to the CA configuration settings and the CA security settings must be logged.

Client computers must be able to renew certificates automatically over the Internet.

The number of permissions and privileges assigned to users must be minimized whenever possible.

Users from a group named Group1 must be able to create new instances of App1 in the private cloud.

Cent computers must be issued new certificates when the computers are connected to the local network only.

The virtual machines used to host App2 must use BitLocker Drive Encryption (BitLocker).

Users from Trey Research must be able to access App2 by using their credentials from treyresearch.com.

Sections

1. Exams A-D
2. Drag and Drop

Exam A

QUESTION 1

Your network contains an Active Directory domain named contoso.com. The domain contains a Microsoft System Center 2012 infrastructure.

All client computers have a custom application named App1 installed. App1 generates an Event ID 42 every time the application runs out of memory.

Users report that when App1 runs out of memory, their client computer runs slowly until they manually restart App1.

You need to recommend a solution that automatically restarts App1 when the application runs out of memory.

What should you include in the recommendation?

- A. From Configurations Manager, create a desired configuration management baseline,
- B. From Operations Manager, create an alert.
- C. From Windows System Resource Manager, create a resource allocation policy.
- D. From Event Viewer, attach a task to the event.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

Attaching a task to event 42 is the one possible from the choices in the question.

CM baseline is wrong because baselines are used for monitoring,

SRM is wrong because a resource allocation policy can only shut down a process, not restart it.

Alerts in Operations Manager is best choice because the question states that SC 2012 is already installed and this fix needs applied to all client computers. If this was an issue on only one sever, then Event viewer would be best action to take.

QUESTION 2

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

Cluster name	Resource	Node
Cluster1	Hyper-V	3
Cluster2	Distributed File System (DFS)	5

All of the servers in both of the clusters run Windows Server 2012.

You need to plan the application of Windows updates to the nodes in the cluster.

What should you include in the plan?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Cluster-Aware Updating (CAU) self-updating and downloaded updates from Windows Server Update Services (WSUS)
- B. Microsoft System Center 2012 Service Manager integrated with Windows Server Update Service (WSUS)
- C. A manual application of Windows updates on all of the cluster node
- D. Microsoft System Center 2012 Configuration Manager integrated with Windows Server Update Service (WSUS)

Correct Answer: A

Section: Exams A-D

Explanation

Explanation/Reference:

Cluster-Aware Updating Overview

2 out of 2 rated this helpful - [Rate this topic](#)

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.

<http://technet.microsoft.com/en-us/library/hh831694.aspx>

QUESTION 3

Your network contains an Active Directory domain named contoso.com. The domain contains 20 servers that run Windows Server 2012. The domain contains a Microsoft System Center 2012 infrastructure.

A web application named WebApp1 is installed on the 20 servers.

You plan to deploy a custom registry key for WebApp1 on the 20 servers. You need to deploy the registry key to the 20 servers.

The solution must ensure that you can verify whether the registry key was applied successfully to the servers.

What should you do?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. From Operations Manager, create a monitor.
- B. From the Group Policy Management console, create a Group Policy object (GPO).
- C. From Configuration Manager, create a Compliance Settings.
- D. From Orchestrator Runbook Designer, create a runbook.

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

Introduction to Compliance Settings in Configuration Manager

2 out of 3 rated this helpful - [Rate this topic](#)

Updated: August 1, 2012

Applies To: System Center 2012 Configuration Manager, System Center 2012 Configuration Manager SP1

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

Compliance settings in System Center 2012 Configuration Manager provides a unified interface and user experience that lets you manage the configuration and compliance of servers, laptops, desktop computers, and mobile devices in your organization. **Compliance settings** contains tools to help you to assess the compliance of users and client devices with regard to a number of configurations, such as whether the correct Windows operating system versions are installed and configured appropriately, whether all required applications are installed and configured correctly, whether optional applications are configured appropriately, and whether prohibited applications are installed. Additionally, you can check for compliance with software updates, security settings, and mobile devices. Configuration item settings of the type WMI, registry, script, and all mobile device settings in Configuration Manager let you automatically remediate noncompliant settings when they are found.

Compliance is evaluated by defining a configuration baseline that contains the configuration items that you want to evaluate and settings and rules that describe the level of compliance you require. You can import this configuration data from the web in Microsoft System Center Configuration Manager Configuration Packs as best practices that are defined by Microsoft and other vendors, defined in Configuration Manager, and defined externally, and that you then import into Configuration Manager. Or, an administrative user can create new configuration items and configuration baselines.

QUESTION 4

Your network contains an Active Directory domain named contoso.com.

The network contains a server named Server1 that has the Hyper-V server role installed.

Server1 hosts a virtual machine named VM1. You deploy a new standalone server named Server2. You install the Hyper-V server role on Server2.

Another administrator named Admin1 plans to create a replica of VM1 on Server2.

You need to ensure that Admin1 can configure Server2 to receive a replica of VM1.

To which group should you add Admin1?

- A. Server Operators
- B. Domain Admins
- C. Hyper-V Administrators
- D. Replicator

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 5

Your network contains an Active Directory domain named contoso.com. You plan to implement Microsoft System Center 2012. You need to identify which solution automates the membership of security groups for contoso.com.

The solution must use workflows that provide administrators with the ability to approve the addition of members to the security groups.



<http://www.gratisexam.com/>

Which System Center 2012 roles should you identify?

- A. Service Manager and Virtual Machine Manager (VMM)
- B. Configuration Manager and Orchestrator
- C. Operations Manager and Orchestrator
- D. Orchestrator and Service Manager

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

In this course, we will discuss how the System Center 2012 Orchestrator and Service Manager components enable you to deploy, **automate**, update, and manage service offerings within your private cloud. Microsoft's approach to self-service delivery will be discussed, and how System Center responds to end-user service requests. We will cover methods to challenging operational issues, and how using Orchestrator and Service Manager can allow the IT Pro to **automate**, standardize and offer self-service IT processes in the private cloud.

<http://www.microsoftvirtualacademy.com/tracks/system-center-2012-orchestra>

Microsoft Windows Server 2012 70-414

Designing an Administrative Model

Virtual Machine Manager:

Administrators
Delegated Administrators
Read-Only Administrators
Self-Service Users

(SPL) Tenant Administrator
(SPL) Fabric Administrator
(SPL) Read-Only Administrator
(SPL) Application Administrator

App Controller:

Administrators

Self-Service Users (a.k.a. Application Administrators)

Operations Manager:

Administrator
Advanced Operator
Application Monitoring Operator

Author
Operator
Read-Only Operator

Report Operator
Report Security Operator

Orchestrator:

Runbook Authors

Runbook Operators

Service Manager:

Activity Implementers
Administrators
Advanced Operators
Change Initiators
End Users

Read-Only Operators
Authors
Problem Analysts
Workflows
Incident Resolvers

Change Managers
Report Users
Release Managers
Service Request Analysts

Correct !

QUESTION 6

Your network contains an Active Directory domain named contoso.com. The network contains 15,000 client computers.

You plan to deploy an Active Directory Certificate Services (AD CS) infrastructure and issue certificates to all of the network devices. You need to recommend a solution to minimize the amount of network utilization caused by certificate revocation list (CRL) checking.

What should you include in the recommendation? More than one answer choice may achieve the goal. Select the BEST answer.

- A. The Network Device Enrollment Service role service
- B. An increase of the CRL validity period
- C. A reduction of the CRL validity period
- D. The Online Responder role service

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

Setting Up Online Responder Services in a Network

11 out of 12 rated this helpful - [Rate this topic](#)

Applies To: Windows Server 2008 R2

Setting up Online Responder services involves several interrelated steps. Several of these steps must be performed on the certification authority (CA) that will be used to issue the Online Certificate Status Protocol (OCSP) signing certificates needed for an Online Responder to function. These steps include configuring the appropriate certificate template, enabling the certificate template, and configuring and completing certificate autoenrollment so that the computer hosting the Online Responder has the certificates needed for the Online Responder to function.

Installation and configuration of an Online Responder involves using Server Manager to install the Online Responder service, the Certificate Templates snap-in to configure and publish OCSP Response Signing certificate templates, the Certification Authority snap-in to include OCSP extensions in the certificates that it will issue and to issue OCSP Response Signing certificates, and the Online Responder snap-in to create a revocation configuration.

The following topics describe the steps needed to complete these installation and configuration steps and how to verify that the installation was successful.

<http://technet.microsoft.com/en-us/library/cc753468.aspx>

QUESTION 7

Your network contains an Active Directory domain named contoso.com. You deploy Active Directory Certificate Services (AD CS). You plan to deploy 100 external Web servers that will be publicly accessible and will require Secure Sockets Layer (SSL) certificates.

You also plan to deploy 50,000 certificates for secure email exchanges with Internet-based recipients. You need to recommend a certificate services solution for the planned deployment.

What should you recommend? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Deploy a certification authority (CA) that is subordinate to an external root CA.
- B. Purchase 50,100 certificates from a trusted third-party root certification authority (CA).
- C. Distribute a copy of the root certification authority (CA) certificate to external relying parties.
- D. Instruct each user to request a Secure Email certificate from a trusted third-party root CA, and then purchase 100 Web server certificates.

Correct Answer: A

Section: Exams A-D

Explanation

Explanation/Reference:

Install a Subordinate Certification Authority

0 out of 2 rated this helpful - [Rate this topic](#)

Applies To: Windows Server 2008

After a root certification authority (CA) has been installed, many organizations will install one or more subordinate CAs to implement policy restrictions on the public key infrastructure (PKI) and to issue certificates to end clients. Using at least one subordinate CA can help protect the root CA from unnecessary exposure.

If a subordinate CA will be used to issue certificates to users or computers with accounts in an Active Directory domain, installing the subordinate CA as an enterprise CA allows you to use the client's existing account data in Active Directory Domain Services (AD DS) to issue and manage certificates and to publish certificates to AD DS.

Membership in local **Administrators**, or equivalent, is the minimum required to complete this procedure. If this will be an enterprise CA, membership in **Domain Admins**, or equivalent, is the minimum required to complete this procedure. For more information, see [Implement Role-Based Administration](#).

[http://technet.microsoft.com/en-us/library/cc772192\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc772192(v=ws.10).aspx)

QUESTION 8

Your network contains an Active Directory domain named contoso.com. The network has an Active Directory Certificate Services (AD CS) infrastructure. You need to issue a certificate to users to meet the following requirements:

Ensure that the users can encrypt files by using Encrypting File System (EFS).
Ensure that all of the users reenroll for their certificate every six months.

What should you do first?

- A. From the properties of the User certificate template, assign the Allow - Enroll permission to the Authenticated Users group.
- B. From the properties of the Basic EFS template, assign the Allow - Enroll permission to the Authenticated Users group.
- C. Create a copy of the User certificate template, and then modify the extensions of the copy.
- D. Create a copy of the Basic EFS certificate template, and then modify the validity period of the copy.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

Selecting Certificate Templates

1 out of 1 rated this helpful - [Rate this topic](#)

Updated: March 28, 2003

Applies To: Windows Server 2003, Windows Server 2003 R2, Windows Server 2003 with SP1, Windows Server 2003 with SP2

The certificate services that you deploy and the security requirements that are specific to your organization impact the type of certificates that you issue. You can issue multiple types of certificates to meet a variety of security requirements.

The certificate templates available with an enterprise CA in Windows Server 2000 and Windows Server 2003 provide the contents of all certificates that can be requested from a Windows enterprise CA. These certificate templates are stored in Active Directory and cannot be used with stand-alone CAs.

Certificate templates can serve a single purpose or multiple purposes. Single-purpose templates generate certificates that can be used for a single application. For example, the Smart Card Logon certificate template is designed for smart card logon only. Multipurpose templates generate certificates that can be used for a number of applications, such as Secure Sockets Layer (SSL), S/MIME, and EFS. For example, a user certificate can be used for both user authentication and EFS encryption.

Both Windows 2000 and Windows Server 2003 support single-purpose and multipurpose templates. However, Windows 2000 and Windows Server 2003 Standard Edition only support version 1 templates, which have read-only attributes that cannot be customized or extended. Windows Server 2003, Enterprise Edition supports version 2 templates, which allow you to create new certificate templates, clone an existing template, and replace templates that are already in use.

[http://technet.microsoft.com/en-us/library/cc786499\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc786499(v=ws.10).aspx)

<http://technet.microsoft.com/en-us/library/cc962118.aspx>

<http://technet.microsoft.com/en-us/library/cc962118.aspx>

User Certificates

Certificates with an object identifier of 1.3.6.1.4.1.311.10.3.4 in the Enhanced Key Usage field of the certificates are valid for EFS user operations. If an enterprise CA is available, EFS automatically requests an EFS certificate for users the first time that they encrypt a file or a folder. When the request is approved, the certificate is issued and placed in the user's personal certificate store. If no CA is available, EFS generates an EFS certificate and places it in the user's personal certificate store. EFS operations require users to have a valid EFS certificate in their personal certificate store. If the EFS user certificate has expired, EFS ensures that a new certificate is issued for the user with a new public key pair the next time an EFS operation is performed for that user.

QUESTION 9

Your network contains an Active Directory domain named contoso.com. The network has an Active Directory Certificate Services (AD CS) infrastructure. You deploy Active Directory Rights Management Services (AD RMS) on the network.

You provide several users on the network with the ability to protect content by using AD RMS. You need to recommend a solution to provide the members of a group named Audit with the ability to read and modify all of the AD RMS-protected content.

What should you recommend?

- A. Issue a CEP Encryption certificate to the members of the Audit group.
- B. Issue a key recovery agent certificate to the members of the Audit group.
- C. Add the Audit group as a member of the super users group.
- D. Add the Audit group as a member of the Domain Admins group.

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

Add the Federation Mailbox to the AD RMS Super Users Group

Exchange 2013 | Other Versions ▾ | This topic has not yet been rated - [Rate this topic](#)

Applies to: Exchange Server 2013

Topic Last Modified: 2012-10-12

For the following Microsoft Exchange Server 2013 Information Rights Management (IRM) features to be enabled, you must add the Federation mailbox (a system mailbox created by Exchange 2013 Setup) to the **super users** group on your organization's **Active Directory Rights Management Services (AD RMS)** cluster:

- IRM in Microsoft Office Outlook Web App
- IRM in Exchange ActiveSync
- Journal report decryption
- Transport decryption

You can configure a mail-enabled distribution group as a **super users** group in AD RMS. Members of the distribution group are granted an owner use license when they request a license from the AD RMS cluster. This allows them to decrypt all RM-protected content published by that cluster. Whether you use an existing distribution group or create a distribution group, configure it as the **super users** group in AD RMS, we recommend that you dedicate the distribution group for this purpose and configure the appropriate settings to approve, audit, and monitor membership changes.

Caution:

Configuring a **super users** group in AD RMS allows group members to decrypt IRM-protected content. We recommend that you take adequate measures to control and monitor group membership and enable auditing to track membership changes. You can also limit unwanted changes to group membership by configuring the group as a restricted group using Group Policy. For details, see [Restricted Groups Policy Settings](#).

<http://technet.microsoft.com/en-us/library/ee424431.aspx>

Your network contains an Active Directory domain named contoso.com. The network contains a perimeter network. The perimeter network and the internal network are separated by a firewall. On the perimeter network, you deploy a server named Server1 that runs Windows Server 2012.

You deploy Active Directory Certificate Services (AD CS). Each user is issued a smart card. Users report that when they work remotely, they are unable to renew their smart card certificate. You need to recommend a solution to ensure that the users can renew their smart card certificate from the Internet. What should you recommend implementing on Server1?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. The Certification Authority Web Enrollment role service and the Online Responder role service
- B. The Active Directory DS
- C. The Certificate Enrollment Policy Web Service role service and the Certificate Enrollment Web Service role service
- D. An additional certification authority (CA) and the Online Responder role service

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

Certificate Enrollment Policy Web Service Overview

2 out of 8 rated this helpful - [Rate this topic](#)

Applies To: Windows Server 2008 R2

The Certificate Enrollment Policy Web Service is an Active Directory Certificate Services (AD CS) role service that enables users and computers to obtain certificate enrollment policy information. Together with the Certificate Enrollment Web Service, this enables policy-based certificate enrollment when the client computer is not a member of a domain or when a domain member is not connected to the domain.

The Certificate Enrollment Policy Web Service uses the HTTPS protocol to communicate certificate policy information to network client computers. The Web service uses the LDAP protocol to retrieve certificate policy from Active Directory Domain Services (AD DS) and caches the policy information to service client requests. In previous versions of AD CS, certificate policy information can be accessed only by domain client computers that are using the LDAP protocol. This limits policy-based certificate issuance to the trust boundaries established by AD DS forests.

Publishing enrollment policy over HTTPS enables the following new deployment scenarios:

- Certificate enrollment across forest boundaries to reduce the number of certification authorities (CAs) in an enterprise.
- Extranet deployment to issue certificates to mobile workers and business partners.

<http://technet.microsoft.com/en-us/library/dd759230.aspx>

Your company, which is named Contoso, Ltd., has offices only in North America. The company has 2,000 users. The network contains an Active Directory domain named contoso.com.

You plan to deploy an Active Directory Certificate Services (AD CS) infrastructure and assign certificates to all client computers. You need to recommend a PKI solution to protect the private key of the root certification authority (CA) from being accessed by external users.

What should you recommend? More than one answer choice may achieve the goal. Select the BEST answer.

- A. An offline standalone root CA and an online enterprise issuing CA
- B. An online enterprise root CA and an online enterprise issuing CA
- C. An offline standalone root CA and an offline enterprise issuing CA
- D. An online enterprise root CA, an online enterprise policy CA, and an online enterprise issuing CA

Correct Answer: A

Section: Exams A-D

Explanation

Explanation/Reference:

Online Enterprise Issuing CAs (CorporateEnt1CA)

2 out of 3 rated this helpful - [Rate this topic](#)

Updated: August 13, 2009

Applies To: Windows Server 2003 with SP1

The **online enterprise issuing CA** is also referred to as "CorporateEnt1CA" in this document. The purpose of an enterprise to automate certificate enrollment without making compromises in the security and authentication of issued certificates.

Depending on the PKI topology that you implement, this CA might have at least one parent CA or, in a single tier topology, might be a self-signed CA.

When you set up either a Windows Server 2003 Server enterprise CA or Windows 2000 Server enterprise CA, it is important to note that domain controllers in an Active Directory environment automatically request certificates when an enterprise CA becomes available in the forest.

The automatic certificate request behavior is different between computers that are running Windows 2000 or Windows Server 2003 domain controllers. Windows 2000 domain controllers immediately start requesting certificates when the enrollment service is available; however, a Windows Server 2003 domain controller requests certificates according to the Autoenrollment configuration in Group Policy settings. Computers that are running Windows Server 2003 domain controllers and computers that are running Windows XP request certificates, according to the configuration of the Group Policy object (GPO). You must enable the request processing manually, by using the appropriate domain Group Policy. Note that domain controllers have their own GPO settings which are separate from the rest of the computers in the domain. To add an automatic request set for Windows 2000 domain controllers, create a new request object in the following GPO path using the following procedure:

[http://technet.microsoft.com/en-us/library/cc737481\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc737481(v=ws.10).aspx)

QUESTION 12

Your network contains an Active Directory domain. The domain contains a site named Site1. All of the client computers in Site1 use static IPv4 addresses on a single subnet. Site1 contains a Storage Area Network (SAN) device and two servers named Server1 and Server2 that run Windows Server 2012. You plan to implement a DHCP infrastructure that will contain Server1 and Server2.

The infrastructure will contain several IP address reservations. You need to recommend a solution for the DHCP infrastructure to ensure that clients can receive IP addresses from a DHCP server if either Server1 or Server2 fails.

What should you recommend? (Each correct answer is a complete solution. (Choose all that apply.)

- A. Configure all of the client computers to use IPv6 addresses, and then configure Server1 and Server2 to run DHCP in stateless mode.
- B. Configure Server1 and Server2 as members of a failover cluster, and then configure DHCP as a clustered resource.
- C. Configure a DHCP failover relationship that contains Server1 and Server2.
- D. Create a scope for each server, and then configure each scope to contain half of the IP addresses.

Correct Answer: BC

Section: Exams A-D

Explanation

Explanation/Reference:

Windows Server 2012 DHCP provides a new high availability mechanism addressing these critical aspects. DHCP servers can be set up to provide a highly available DHCP service by entering into a failover relationship. A failover relationship has a couple of parameters which govern the behavior of the DHCP servers as they orchestrate the failover. One of them is the *mode* of the failover operation – I will describe this shortly. The other is the set of scopes that are part of the failover relation. These scopes are set up identically between two servers when failover is configured. Once set up in this fashion, the DHCP servers replicate the IP address leases and associated client information between them and thereby have up-to-date information of all the clients on the network. So even when one of the servers goes down – either in a planned or in an unplanned manner – the other DHCP server has the required IP address lease data to continue serving the clients.

Modes of Failover Operation

There are two modes of configuring **DHCP failover** to cater to the various deployment topologies: *Load Balance* and *Hot Standby*. The Load Balance mode is essentially an Active-Active configuration wherein both DHCP servers serve client requests with a configured load distribution percentage. We will look at how the DHCP servers distribute client load in a later post.

Each correct answer is a complete solution. DHCP Failover is complete solution and so is DHCP Clustered resource. Two DHCP servers with a split scope does not account for the reservations and if one dhcp server fails, there may not be enough IP addresses available for all clients.

QUESTION 13

Your network contains an Active Directory domain named contoso.com. The domain contains four servers named Server1, Server2, Server3, and Server4 that run Windows Server 2012. Server1 and Server2 are configured as file servers and are part of a failover cluster named Cluster1. Server3 and Server4 have Microsoft SQL Server 2012 installed and are part of a failover cluster named Cluster2.

You add a disk named Disk1 to the nodes in Cluster1. Disk1 will be used to store the data files and log files used by SQL Server 2012. You need to configure the environment so that access to Disk1 remains available when a node on Cluster1 fails over or fails back. Which

three actions should you perform? To answer, move the three appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
From Failover Cluster Manager, configure the clustered File Server role of the File Server for scale-out application data type on Cluster2.	
From Failover Cluster Manager, add Disk1 to Cluster Shared Volumes (CSVs).	
From Cluster-Aware Updating, add Server1 and Server2.	
From Failover Cluster Manager, configure the clustered File Server role of the File Server for scale-out application data type on Cluster1.	
From Failover Cluster Manager, add Disk1 to Cluster1.	
From Failover Cluster Manager, add Disk1 to Cluster2.	

Correct Answer:

Actions

From Failover Cluster Manager, add Disk1 to Cluster1.
From Failover Cluster Manager, add Disk1 to Cluster Shared Volumes (CSVs).
From Failover Cluster Manager, add Disk1 to Cluster2.

Answer Area

From Failover Cluster Manager, add Disk1 to Cluster1.

From Failover Cluster Manager, add Disk1 to Cluster Shared Volumes (CSVs).

From Cluster-Aware Updating, add Disk1 to Cluster2.

Section: Drag and Drop

Explanation

Explanation/Reference:

<http://blogs.technet.com/b/josebda/archive/2012/08/23/windows-server-2012-for-sqlserver-2012-step-by-step-installation.aspx>

QUESTION 14

Your network contains an Active Directory domain named contoso.com. The network has an Active Directory Certificate Services (AD CS) infrastructure. You publish the certificate revocation list (CRL) to a farm of Web servers.

You are creating a disaster recovery plan for the AD CS infrastructure. You need to recommend which actions must be performed to restore certificate revocation checking if a certification authority (CA) is offline for an extended period of time.

Which three actions should you recommend? To answer, move the three appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
By using Certutil, republish the CRL.	
Restore a copy of the CA's private key, and then retrieve a copy of the CRL.	
Copy the CRL to the Web server farm.	
By using Certutil, resign the CRL, and then extend the validity period of the CRL.	
Restore a copy of the CA's public key and a copy of the CA's certificate.	

Correct Answer:

Actions	Answer Area
	By using Certutil, resign the CRL, and then extend the validity period of the CRL.
Restore a copy of the CA's private key, and then retrieve a copy of the CRL.	By using Certutil, republish the CRL.
	Copy the CRL to the Web server farm.
Restore a copy of the CA's public key and a copy of the CA's certificate.	

Section: Drag and Drop
Explanation

Explanation/Reference:
 Resign - Publish - Copy to Server Farm.

Certutil

11 out of 37 rated this helpful - [Rate this topic](#)

Updated: November 14, 2012

Applies To: Windows Server 2008 R2, Windows Server 2012

Certutil.exe is a command-line program that is installed as part of Certificate Services. You can use Certutil.exe to dump display certification authority (CA) configuration information, configure Certificate Services, back up and restore CA components, and verify certificates, key pairs, and certificate chains.

[http://technet.microsoft.com/en-us/library/cc732443\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc732443(v=ws.10).aspx)

I believe the correct answer is:

- 1-Restore copy of the CA private key and
- 2-By using Certutil, resign the CRL, and
- 3-By using Certutil, republish ...

or

- 1-By using Certutil, resign the CRL, and
- 2-Copy the CRL to the web server farm...
- 3-By using Certutil, republish ...

I didn't get this question on my exam ...

QUESTION 15

Your network contains an Active Directory domain named contoso.com. The domain contains multiple servers that are configured as Hyper-V hosts. You plan to implement four virtual machines.

The virtual machines will be configured as shown in the following table.

Virtual machine name	Configuration
VM1	Will host several shared folders that are accessed by users on the network.
VM2	Will be migrated to a host on the public cloud by using live migration.
VM3	Will run processes that must only be able to connect to shared resources on other virtual machines on the local Hyper-V host.
VM4	Will run processes that must only be able to connect to shared resources on the local Hyper-V host.

You need to identify which network must be added to each virtual machine. Which network types should you identify? To answer, drag the appropriate Network Type to the correct virtual machine in the answer area. Each Network Type may be used once, more than once, or not at all.

Additionally, you may need to drag the split bar between panes or scroll to view content.

Network Types	Answer Area
Private	VM1 Network
Internal	VM2 Network
External	VM3 Network
	VM4 Network

Select and Place:

Network Types	Answer Area
Private	VM1 Network
Internal	VM2 Network
External	VM3 Network
	VM4 Network

Correct Answer:

Network Types	Answer Area
Private	VM1 External
Internal	VM2 External
External	VM3 Private
	VM4 Internal

Section: Drag and Drop
Explanation

Explanation/Reference:

<http://blogs.technet.com/b/jhoward/archive/2008/06/17/hyper-v-what-are-the-ultimate-types-of-virtual-networks.aspx>

An external network, which provides communication between a virtual machine and a physical network by creating an association to a physical network adapter on the virtualization server.

An internal network, which provides communication between the virtualization server and virtual machines.

A private network, which provides communication between virtual machines only.

<http://technet.microsoft.com/en-us/library/cc732470%28v=WS.10%29.aspx>

Exam B

QUESTION 1

Your network contains the following:

- 20 Hyper-V hosts
- 100 virtual machines
- 2,000 client computers

You need to recommend an update infrastructure design to meet the following requirements:

Deploy updates to of the all virtual machines and the client computers from a single console. Generate reports that contain a list of the applied updates.

What should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. One Windows Server update Services (WSUS) server integrated with Microsoft System Center 2012 Configuration Manager and a second WSUS server that is integrated with Microsoft System Center 2012 Virtual Machine Manager (VMM)
- B. One Windows Server Update Services (WSUS) server integrated with Microsoft System Center 2012 Configuration Manager and Microsoft System Center 2012 Virtual Machine Manager (VMM)
- C. One Windows Server Update Services (WSUS) server integrated with Microsoft System Center 2012 Virtual Machine Manager (VMM)
- D. One Windows Server Update Services (WSUS) server integrated with Microsoft System Center 2012 Configuration Manager, a second WSUS server integrated with Microsoft System Center 2012 Virtual Machine Manager (VMM), and a third standalone WSUS server.

Correct Answer: B

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 2

Your network contains an Active Directory domain named contoso.com. The domain contains a Microsoft System Center 2012 infrastructure. You deploy a service named Service1 by using a service template. Service1 contains two virtual machines. The virtual machines are configured as shown in the following table.

Virtual machine name	Roles and software
VM1	Web server Windows Server 2012 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 Operations Manager agent Microsoft SQL Server 2012 Configuration Manager agent

You need to recommend a monitoring solution to ensure that an administrator can review the availability information of Service1. What should you do?

- A. From Configuration Manager, create a Collection and a Desired Configuration Management baseline.
- B. From Virtual Machine Manager (VMM), modify the properties of the service template.
- C. From Operations Manager, create a Distributed Application and a Monitor Override.
- D. From Operations Manager, create a Distributed Application and a Service Level Tracking object.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

- Display data through addition of widgets
- New web console
- Dashboards can be easily updated

Microsoft System Center Operations Manager 2012 offers significant new functionality, including enhanced network monitoring and application performance monitoring, as well as architectural changes to remove the root management server and to add management server pools. These capabilities are all important, but one of the most interesting investments is Operations Manager 2012's integrated dashboard functionality.

Defining a Service Level Objective Against an Application

This topic has not yet been rated - [Rate this topic](#)

Updated: September 10, 2012

Applies To: System Center 2012 - Operations Manager, System Center 2012 SP1 - Operations Manager

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

You can define a service level objective (SLO) to establish the availability and performance goals for an application. In the following procedure, you create a service level objective against a distributed application, define a monitor SLO that is based on availability (99.9% up-time), and define a collection rule SLO that is based on a performance rule (80% average processor time).

QUESTION 3

Your network contains an Active Directory domain named contoso.com.

You plan to implement Microsoft System Center 2012.

You need to identify which solution automates the membership of security groups for contoso.com. The solution must use workflows that provide administrators with the ability to approve the addition of members to the security groups.

Which System Center 2012 roles should you identify?

- A. Service Manager and Virtual Machine Manager (VMM)

- B. Configuration Manager and Orchestrator
- C. Operations Manager and Orchestrator
- D. Orchestrator and Service Manager

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

In this course, we will discuss how the System Center 2012 Orchestrator and Service Manager components enable you to deploy, automate, update, and manage service offerings within your private cloud. Microsoft's approach to self-service delivery will be discussed, and how System Center responds to end-user service requests. We will cover methods to challenging operational issues, and how using Orchestrator and Service Manager can allow the IT Pro to automate, standardize and offer self-service IT processes in the private cloud.

<http://www.microsoftvirtualacademy.com/tracks/system-center-2012-orchestrator-service-manager>

QUESTION 4

Your network contains 10 servers that run Windows Server 2012. The servers have the Hyper-V server role installed.

The servers host a Virtual Desktop Infrastructure (VDI) that contains persistent virtual machines. Each virtual machine is assigned to a specific user. Users can install software on their specific virtual machine.

You need to implement a solution to generate monthly reports that contain a list of all the installed software on the virtual machines.

The solution must NOT require the installation of additional software on the virtual machines.

Which solution should you implement?

- A. A Microsoft System Center 2012 Configuration Manager software inventory
- B. A Microsoft System Center 2012 Configuration Manager hardware inventory
- C. Microsoft Assessment and Planning (MAP) Toolkit scans
- D. Microsoft Audit Collection Services (ACS) audit logs

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

To assist in the planning for a migration of existing Windows-based computers to Windows 7, MAP provides a readiness scenario to help assess which computers are capable of running Windows 7. After the environment scan has been completed, MAP looks at computers running earlier versions of Windows, such as Windows XP and Windows Vista, and compares CPU speed, memory and free disk attributes to the minimum and recommended system requirements. When a computer doesn't meet a specific requirement, such as that for installed memory, MAP provides a specific recommendation that indicates what action is required to bring the machine to the recommended level.

When the assessment is complete, the results are displayed in the MAP console, which is shown in **Figure 1**. For Windows 7, MAP displays the following four types of results in separate sections:

- Inventory Summary
- Before Hardware Upgrades
- After Hardware Upgrades
- Device Compatibility Summary

QUESTION 5

Your network contains 20 servers that run Windows Server 2012. The servers have the Hyper-V server role installed.

You plan to deploy a management solution.

You need to recommend which Microsoft System Center 2012 roles must be deployed to meet the following requirements:

- An administrator must be notified when an incident occurs, such as a serious error in the event log, on a Hyper-V host, or on a virtual machine.
- An administrator must be able to assign an incident to a specific administrator for resolution.
- An incident that remains unresolved for more than 10 hours must be escalated automatically to another administrator.
- Administrators must be able to generate reports that contain the details of incidents and escalations.

Which System Center 2012 roles should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Operations Manager and Service Manager
- B. Service Manager and Virtual Machine Manager (VMM)
- C. Configuration Manager and Service Manager
- D. Operations Manager and Orchestrator

Correct Answer: A

Section: Exams A-D

Explanation

Explanation/Reference:

Against my better judgement I chose OM&SM, I think correct is SM & VMM see this link <http://technet.microsoft.com/en-us/library/hh519785.aspx>

QUESTION 6

Your company has a human resources department, a finance department, a sales department, and an R&D

department. The company audits the access of documents that contain department-specific sensitive information.

You are planning an administrative model for the departments to meet the following requirements:

- Provide R&D managers with the ability to back up all the files of their department only.
- Provide finance managers with the ability to view the audit logs for the files of their department only.
- Provide human resources managers with the ability to view the audit logs for the files of their department only.
- Provide sales managers with the ability to modify the permissions on all the shared folders of their department only.

You need to identify the minimum amount of file servers required on the network to meet the requirements of each department.

How many file servers should you identify?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: C
Section: Exams A-D
Explanation

Explanation/Reference:

Leaving previous edits for reference. My thoughts are that Finance and HR needs auditing info for their own department - this requires 2 dedicated servers and the other groups cannot co-exist. Sales and R&D can coexist on 1 dedicated server because the requirements for each are file/folder types of access, not global access such as auditing. You *technically* could have Sales and R&D coexist with one of the others, but as the question states "The company audits the access of documents that contain department-specific sensitive information" so auditing is enabled everywhere. The answer is 3.

Finance managers & human resources (2 fileserver) need separate for sake of security. Sales managers R&D managers (1 fileserver) can work together (No contain sensitive information).

You only need two servers. finance on one, hr on the other, Only enable auditing on the finance and hr shares. Only put hr manager and finance manager in the read log group of the server that holds their files. Enable auditing on the advance page of the security tab of the property sheet of the folder you want to audit. sales files can go on either server, don't turn on auditing on sales shares and folders, Give sales manager full control of the sales shares and folders.

QUESTION 7

Your company has a main office and a branch office. Each office contains several hundred computers that run Windows 2012.

You plan to deploy two Windows Server Update Services (WSUS) servers. The WSUS servers will be configured as shown in the following table.

Server name	Office
Server1	Main
Server2	Branch

You need to implement the WSUS infrastructure to meet the following requirements:

- All updates must be approved from a server in the main office.
 - All client computers must connect to a WSUS server in their local office.
 -
 - What should you do? (Each correct answer presents part of the solution. (Choose all that apply.)
-
- A. Deploy a Group Policy object (GPO) that has the update location set to Server1.
 - B. On Server2, configure WSUS in Replica mode.
 - C. On Server1, configure WSUS in Replica mode.
 - D. On Server2, configure WSUS in Autonomous mode.
 - E. Deploy a Group Policy object (GPO) that has the update location set to Server2.
 - F. On Server1, configure WSUS in Autonomous mode.

Correct Answer: ABEF

Section: Exams A-D

Explanation

Explanation/Reference:

The upstream server doesn't get configured into a mode, only the down stream servers have a mode option

QUESTION 8

Your network contains an Active Directory domain named contoso.com. The domain contains a Microsoft System center 2012 infrastructure.

The domain contains the computers configured as shown in the following table.

Computer	Operating system
1,200 desktop computers	Windows 7
500 desktop computers	Windows 8
30 servers	Windows Server 2012
20 servers	Windows Server 2008 R2

You need to implement a monitoring solution that gathers the security logs from all of the computers in the domain.

Which monitoring solution should you implement?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Data Collector Sets (DCSs)
- B. Event subscriptions
- C. Desired Configuration Management in Configuration Manager
- D. Audit Collection Services (ACS) in Operations Manager

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

The actual tested worded the answer Systems Center with Audit Collection Services (ACS)

ACS Collector

The ACS collector receives and processes events from ACS forwarders and then sends this data to the ACS database. This processing includes disassembling the data so that it can be spread across several tables within the ACS database, minimizing data redundancy, and applying filters so that unnecessary events are not added to the ACS database.

The number of ACS forwarders that can be supported by a single ACS collector and ACS database can vary, depending on the number of events that your audit policy generates, the role of the computers that the ACS forwarders monitor (such as domain controller versus member server), the level of activities on the computer, and the hardware on which the ACS collector and ACS database run. If your environment contains too many ACS forwarders for a single ACS collector, you can install more than one ACS collector. Each ACS collector must have its own ACS database.

An ACS Collector must be installed on computers running Windows Server 2003 and later, and must have a minimum of 1 gigabyte (GB) of RAM, with 2 GB recommended. Also, it must have at least a 1.8 gigahertz (GHz) processor, with a 2.8 GHz processor recommended and 10 GB of hard disk space available, at a minimum, with 50 GB recommended. The computer you select as an ACS collector must be an Operations Manager 2007 management server and for security reasons, it must also be a member of an Active Directory domain.

On each computer on which you plan to install the ACS collector, you must download and install the latest version of the Microsoft Data Access Components (MDAC) from the Microsoft Web site. To learn more about MDAC, see "Learning Microsoft Data Access Components (MDAC)" at <http://go.microsoft.com/fwlink/?LinkId=74155>.

QUESTION 9

Your network contains two servers named Server1 and Server2 that run Windows Server 2012.

Server1 and Server2 have the Hyper-V server role installed and are members of a failover cluster.

The network contains a Storage Area Network (SAN) that has a LUN named LUN1. LUN1 is connected to a 12-TB disk on the SAN.

*Updated Explanation

You plan to host three new virtual machines on the failover cluster. Each virtual machine will store up to 4 TB of data on a single disk. The virtual machines will be backed up from the hosts by using the Volume Shadow Copy Service (VSS).

You need to ensure that Server1 and Server2 can store the new virtual machines on the SAN.

Which three actions should you perform?

To answer, move the three appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
Configure each virtual machine to use a VHDX disk.	
Create a Fibre Channel adapter on each virtual machine.	
Configure Server1 and Server2 to connect to LUN1.	
Create a Cluster Shared Volume (CSV).	
Configure each virtual machine to use a pass-through disk.	
Configure each virtual machine to use a VHD disk.	
Create a Virtual Fibre Channel SAN on Server1 and Server2.	

Correct Answer:

Actions	Answer Area
	Configure Server1 and Server2 to connect
Create a Fibre Channel adapter on each virtual machine.	Create a Cluster Shared Volume (CSV).
	Configure each virtual machine to use a V
Configure each virtual machine to use a pass-through disk.	
Configure each virtual machine to use a VHD disk.	
Create a Virtual Fibre Channel SAN on Server1 and Server2.	

Section: Drag and Drop

Explanation

Explanation/Reference:

- 1) Configure Server1 and Server2 to connect to LUN1
- 2) Create a Cluster Shared Volume (CSV)
- 3) Configure each virtual machine to use a VHDX disk.

Updated: February 29, 2012

Applies To: Windows Server 2012

As enterprise workloads for virtual environments grow in size and in performance demands, virtual hard disk (VHD) formats need to accommodate them. Hyper-V in Windows Server 2012 introduces a new version of the VHD format called VHDX, which is designed to handle current and future workloads.

VHDX has a much larger storage capacity than the older VHD format. It also provides data corruption protection during power failures and optimizes structural alignments of dynamic and differencing disks to prevent performance degradation on new, large-sector physical disks.

<http://technet.microsoft.com/en-us/library/hh831446.aspx>

QUESTION 10

Your network contains servers that run Windows Server 2012. The network contains two servers named Server1 and Server2 that are connected to a SAS storage device. The device only supports two connected computers.

Server1 has the iSCSI Target Server role service installed. Ten application servers use their iSCSI Initiator to connect to virtual disks in the SAS storage device via iSCSI targets on Server1. Currently, Server2 is used only to run backup software.

You install the iSCSI Target Server role service on Server2. You need to ensure that the iSCSI targets are available if Server1 fails.

Which five actions should you perform?

To answer, move the five appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
Add the iSCSI Target Server cluster role.	
Create a cluster.	
Install the Failover Clustering feature.	
Install the Network Load Balancing (NLB) feature.	
Reconfigure the iSCSI Initiator settings.	
Install the DFS Replication role service.	
Create iSCSI targets.	

Correct Answer:

Actions	Answer Area
	Install the Failover Clustering feature.
Install the DFS Replication role service.	Create a cluster.
	Add the iSCSI Target Server cluster role.
Install the Network Load Balancing (NLB) feature.	Create iSCSI targets.
	Reconfigure the iSCSI Initiator settings.

Section: Drag and Drop
Explanation

Explanation/Reference:

Reconfigure the iSCSI Initiator settings.
Install the DFS Replication role service.
Create a cluster.
Create iSCSI targets.
Add the iSCSI Target Server cluster role.

<http://blogs.msdn.com/b/clustering/archive/2012/05/01/10299698.aspx>

QUESTION 11

Your network contains two servers named Server1 and Server2 that run Windows Server 2012. Server1 and Server2 are connected to a Fibre Channel Storage Area Network (SAN). Server1 and Server2 are members of a failover cluster named Cluster1.

You plan to host the clustered File Server role on the nodes in Cluster1. Cluster1 will store application databases in shared folders.

You need to implement a storage solution for Cluster1. The solution must minimize the amount of time the shared folders are unavailable during a failover. What should you implement?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. An iSCSI Target Server cluster role in Cluster1
- B. The Multi Path I/O (MPIO) feature on Server1 and Server2
- C. A Virtual Fibre Channel SAN on Server1 and Server2
- D. A Cluster Shared Volume (CSV) in Cluster1

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

Use Cluster Shared Volumes in a Windows Server 2012 Failover Cluster

1 out of 1 rated this helpful - [Rate this topic](#)

Published: August 29, 2012

Updated: August 29, 2012

Applies To: Windows Server 2012

Cluster Shared Volumes (CSVs) in a Windows Server 2012 failover cluster allow multiple nodes in the cluster to simultaneously have read-write access to the same LUN (disk) that is provisioned as an NTFS volume. With CSVs, clustered roles can fail over quickly from one node to another node without requiring a change in drive ownership, or dismounting and remounting a volume. CSVs also help simplify managing a potentially large number of LUNs in a failover cluster.

CSVs provide a general-purpose, clustered file system in Windows Server 2012, which is layered above NTFS. They are not restricted to specific clustered workloads. (In Windows Server 2008 R2, CSVs only supported the Hyper-V workload.) CSV applications include:

- Clustered virtual hard disk (VHD) files for clustered Hyper-V virtual machines
- Scale-out file shares to store application data for the Scale-Out File Server role. Examples of the application data for this role include Hyper-V virtual machine files and **Microsoft SQL Server data**. For more information about Scale-Out File Server, see [Scale-Out File Server for Application Data Overview](#).

<http://technet.microsoft.com/en-us/library/jj612868.aspx>

QUESTION 12

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

Cluster name	Resource	Node
Cluster1	Hyper-V	3
Cluster2	Distributed File System (DFS)	5

All of the servers in both of the clusters run Windows Server 2012. You need to plan the application of Windows updates to the nodes in the cluster.

What should you include in the plan?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Cluster-Aware Updating (CAU) self-updating and downloaded updates from Windows Server Update Services (WSUS)
- B. Microsoft System Center 2012 Service Manager integrated with Windows Server Update Service (WSUS)
- C. A manual application of Windows updates on all of the cluster node

D. Microsoft System Center 2012 Configuration Manager integrated with Windows Server Update Service (WSUS)

Correct Answer: A

Section: Exams A-D

Explanation

Explanation/Reference:

Cluster-Aware Updating Overview

2 out of 2 rated this helpful - [Rate this topic](#)

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.

<http://technet.microsoft.com/en-us/library/hh831694.aspx>

QUESTION 13

Your network contains an Active Directory domain named contoso.com. The domain contains 20 servers that run Windows Server 2012. The domain contains a Microsoft System Center 2012 infrastructure. A web application named WebApp1 is installed on the 20 servers.

You plan to deploy a custom registry key for WebApp1 on the 20 servers. You need to deploy the registry key to the 20 servers. The solution must ensure that you can verify whether the registry key was applied successfully to the servers.

What should you do? More than one answer choice may achieve the goal. Select the BEST answer.

- A. From Operations Manager, create a monitor.
- B. From the Group Policy Management console, create a Group Policy object (GPO).
- C. From Configuration Manager, create a Compliance Settings.
- D. From Orchestrator Runbook Designer, create a runbook.

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

Introduction to Compliance Settings in Configuration Manager

2 out of 3 rated this helpful - [Rate this topic](#)

Updated: August 1, 2012

Applies To: System Center 2012 Configuration Manager, System Center 2012 Configuration Manager SP1

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

Compliance settings in System Center 2012 Configuration Manager provides a unified interface and user experience that lets you manage the configuration and compliance of servers, laptops, desktop computers, and mobile devices in your organization. **Compliance settings** contains tools to help you to assess the compliance of users and client devices with regard to a number of configurations, such as whether the correct Windows operating system versions are installed and configured appropriately, whether all required applications are installed and configured correctly, whether optional applications are configured appropriately, and whether prohibited applications are installed. Additionally, you can check for compliance with software updates, security settings, and mobile devices. Configuration item settings of the type WMI, registry, script, and all mobile device settings in Configuration Manager let you automatically remediate noncompliant settings when they are found.

Compliance is evaluated by defining a configuration baseline that contains the configuration items that you want to evaluate and settings and rules that describe the level of compliance you require. You can import this configuration data from the web in Microsoft System Center Configuration Manager Configuration Packs as best practices that are defined by Microsoft and other vendors, defined in Configuration Manager, and defined externally, and that you then import into Configuration Manager. Or, an administrative user can create new configuration items and configuration baselines.

<http://technet.microsoft.com/en-us/library/gg682139.aspx>

QUESTION 14

Your network contains five servers that run Windows Server 2012.

You install the Hyper-V server role on the servers. You create an external virtual network switch on each server.

You plan to deploy five virtual machines to each Hyper-V server. Each virtual machine will have a virtual network adapter that is connected to the external virtual network switch and that has a VLAN identifier of 1.

Each virtual machine will run Windows Server 2012. All of the virtual machines will run the identical web application.

You plan to install the Network Load Balancing (NLB) feature on each virtual machine and join each virtual machine to an NLB cluster.

The cluster will be configured to use unicast only.

You need to ensure that the NLB feature can distribute connections across all of the virtual machines.

What should you do?

- A. From the properties of each virtual machine, add a second virtual network adapter. Connect the new virtual network adapters to the external virtual network switch. Configure the new virtual network adapters to use a VLAN identifier of 2.
- B. On each Hyper-V server, create a new private virtual network switch. From the properties of each virtual machine, add a second virtual network adapter. Connect the new virtual network adapters to the new private virtual network switches.
- C. On each Hyper-V server, create a new external virtual network switch. From the properties of each virtual machine, add a second virtual network adapter.

Connect the new virtual network adapters to the new external virtual network switches.

- D. From the properties of each virtual machine, enable MAC address spoofing for the existing virtual network adapter.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

MAC spoofing

The changing of the assigned MAC address may allow the bypassing of servers or routers, either hiding a computer on a network or allowing it to impersonate a network device. A user may wish to legitimately spoof the MAC address of a device in order to reacquire connectivity after hardware failure.

addresses. Therefore, if a malicious VM starts sending out packets with a **MAC address** owned by another machine, it causes the switch to re-learn. This in turn can cause DoS (Denial of Service) attacks, and the potential for the malicious virtual machine to see packets which weren't destined for it. Hence, in our security recommendations, we state that as a security best practice, you should consider (in Hyper-V v1 at least) placing virtual machines of a similar security integrity level on the same virtual switch and not share the switch with virtual machines of a different security integrity level.

In Windows Server 2008 R2, we introduced several changes in the switch to make it smarter. Each virtual switch port has a new property (exposed in our WMI model as AllowMacSpoofing) which is off by default. We also expose this property in the settings page for a virtual machine. Note that to see this setting, you must be using the UI from Windows Server 2008 R2 or RSAT in Windows 7 Client.

Network Adapter

Specify the configuration of the network adapter or remove the network adapter.

Network:
New Virtual Network

MAC Address

☒ Dynamic
☐ Static

00 - 15 - 5D - E2 - 7D - 00

☐ Enable spoofing of MAC addresses

☐ Enable virtual LAN identification

VLAN ID
The VLAN identifier specifies the virtual LAN that this virtual machine will use for all network communications through this network adapter.
2

To remove the network adapter from this virtual machine, click Remove.

Remove

Use a legacy network adapter instead of this network adapter to perform a network-based installation of the guest operating system or when integration services are not installed in the guest operating system.

When the checkbox is not checked (i.e. the port is in "secure" mode):

1. The **MAC address** set in the Virtual NIC settings page (either static or the dynamically assigned on) is

<http://blogs.technet.com/b/jhoward/archive/2009/05/21/new-in-hyper-v-windows-part-2-macspoofing.aspx>

<http://blogs.msdn.com/b/clustering/archive/2010/07/01/10033544.aspx>

QUESTION 15

Your network contains an Active Directory domain named contoso.com. You currently have an intranet web site that is hosted by two Web servers named Web1 and Web2.

Web1 and Web2 run Windows Server 2012. Users use the name intranet.contoso.com to request the web site and use DNS round robin.

You plan to implement the Network Load Balancing (NLB) feature on Web1 and Web2. You need to recommend changes to the DNS records for the planned implementation.

What should you recommend?

- A. Remove both host (A) records for Web1 and Web2, Create a new host (A) record named Intranet
- B. Delete both host (A) records named Intranet. Create a pointer (PTR) record for each Web server.
- C. Create a new host (A) record named Intranet. Remove both host (A) records for Web1 and Web2.
- D. Delete one of the host (A) records named Intranet. Modify the remaining host (A) record named Intranet.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

Add the new cluster IP address to your DNS and you're good to go. I tested the load balance using the default website created during the IIS installation and failed some of the servers to make sure the load balance was performing correctly.

<http://blogs.interfacett.com/remotely-installing-simple-network-load-balance-using-powershell>

This wasn't an option on the first original dump, but it was on my real test. It made the most sense. Delete the existing intranet records(also removing the round robin settings with them). Then make the new a record for the NLB intanet.

QUESTION 16

Your network contains a server named Server1 that runs Windows Server 2012. Server1 is configured as a Hyper-V host.Server1 hosts a virtual machine named VM1.

VM1 is configured as a file server that runs Windows Server 2012. VM1 connects to a shared storage device by using the iSCSI Initiator. You need to back up the files and the folders in the shared storage used by VM1. The solution must ensure that open files are included in the backup.

What should you do?

- A. From Hyper-V Manager, create a snapshot of VM1.
- B. From Server1, perform a backup by using Windows Server Backup.
- C. From VM1, perform a backup by using Windows Server Backup.
- D. From Microsoft System Center 2012 Virtual Machine Manager (VMM), create a copy of VM1.

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

Caption: After doing a backup using Windows Server Backup – I can now restore a specific virtual machine... I am showing the backup contains the ID's of all the VM's for the Hyper-V "application"... (see the post by Rob Hefner linked to below to enable Hyper-V in WSB)

<http://blogs.msdn.com/b/taylorb/archive/2008/08/20/backing-up-hyper-v-virtual-machine-with-windows-server-backup.aspx>

Exam C

QUESTION 1

You plan to delegate the management of virtual machines to five groups by using Microsoft System Center 2012 Virtual Machine Manager (VMM).

The network contains 20 Hyper-V hosts in a host group named HostGroup1.

You identify the requirements for each group as shown in the following table.

Group name	Requirement
VMAdmins1	Must only be able to manage the virtual machines hosted in HostGroup1.
VMAdmins2	Must only be able to manage the virtual machines that the group creates.
VMAdmins3	Must only be able to view the status of the hosts in HostGroup1.
VMAdmins4	Must be able to manage all of the hosts in all of the host groups.

You need to identify which user role must be assigned to each group. Which user roles should you identify?

To answer, drag the appropriate user role to the correct group in the answer area. Each user role may be used once, more than once, or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.

User roles

Administrators

Delegated Administrators

Read-Only Administrators

Self-Service Users

Answer Area

VMAdmins1

VMAdmins2

VMAdmins3

VMAdmins4

User role

User role

User role

User role

Select and Place:

User roles	Answer Area	
Administrators	VMAdmins1	User role
Delegated Administrators	VMAdmins2	User role
Read-Only Administrators	VMAdmins3	User role
Self-Service Users	VMAdmins4	User role

Correct Answer:

User roles	Answer Area	
	VMAdmins1	Delegated Administrators
	VMAdmins2	Self-Service Users
	VMAdmins3	Read-Only Administrators
	VMAdmins4	Administrators

Section: Drag and Drop
Explanation

Explanation/Reference:

You can create **user roles** in System Center 2012 – Virtual Machine Manager (VMM) to define the objects that users can manage and the management operations that users can perform. The following table summarizes the capabilities of each **user role** in VMMM :

User Role Descriptions for VMM

VMM User Role

Capabilities

Members of the Administrators **user role** can perform all administrative actions on all objects that VMM manages. Administrators have sole responsibility for these features of VMM:

[http://mountainss.wordpress.com/2011/11/19/user-roles-in-system-center-vi
manager-2012/](http://mountainss.wordpress.com/2011/11/19/user-roles-in-system-center-vi-manager-2012/)

<http://technet.microsoft.com/en-us/library/gg696971.aspx>

QUESTION 2

Your network contains multiple servers that run Windows Server 2012. You plan to implement three virtual disks. The virtual disks will be configured as shown in the following table.

Virtual disk name	Configuration
VD1	Two-way mirror
VD2	Parity
VD3	Three-way mirror

You need to identify the minimum number of **physical disks** required for each virtual disk. How many disks should you identify? To answer, drag the appropriate number of disks to the correct virtual disk in the answer area. Each number of disks may be used once, more than once, or not at all.

Additionally, you may need to drag the split bar between panes or scroll to view content.

Number of Disks	Answer Area	
two disks	VD1	Number of disks
three disks	VD2	Number of disks
four disks	VD3	Number of disks
five disks		

Select and Place:

Number of Disks	Answer Area	
two disks	VD1	Number of disks
three disks	VD2	Number of disks
four disks	VD3	Number of disks
five disks		

Correct Answer:

Number of Disks	Answer Area	
two disks	VD1	two disks
three disks	VD2	three disks
four disks	VD3	three disks
five disks		

Section: Drag and Drop

Explanation

Explanation/Reference:

What to keep in mind on this question is that clustering or similar technologies are not specified, being the simplest design there will be one column in this design. Since this is the case, the answer is 2,3,3.

Example 2: A Three-Column Parity Space

Another example is a three-column parity space (with a 256 KB stripe interleave), the simplest form of a parity space.

For the first stripe of data in this example, Storage Spaces writes 256 KB of data to the first disk (column), 256 KB of data to the second disk, and 256 KB of parity to the third disk. This yields a stripe size of 768 KB (3 columns * 256 KB of interleaved data). As more data is written to the parity space, it rotates the column for the parity information among all three disks.

Example 3: A Two-Column Two-Way Mirror Space

Another example is a two-column two-way mirror space. Mirror spaces add a layer of data copies below the stripe, which means that one column, two-way mirror space duplicates each individual column's data onto two disks.

For the first stripe of data in this example, Storage Spaces writes 256 KB of data to the first column, which is written in duplicate to the first two disks. For the second column of data, Storage Spaces writes 256 KB of data to the second column, which is written in duplicate to the next two disks. The column-to-disk correlation of a two-way mirror is 1:2; a three-way mirror, the correlation is 1:3.

Resiliency type	Minimum number of columns	Column-to-disk correlation	Minimum number of disks
Simple (no resiliency)	1	1:1	1
Two-way mirror	1	1:2	2
Three-way mirror	1	1:3	3
Parity	3	1:1	3

http://social.technet.microsoft.com/wiki/contents/articles/11382.storage-spaces-questions-faq.aspx#What_are_columns_and_how_does_Storage_Spaces_decide_

QUESTION 3

You are configuring the Certification Authority role service. From the Certification Authority console, you enable logging. You need to ensure that configuration changes to the certification authority (CA) are logged.

Which audit policy should you configure?

- A. Audit policy change
- B. Audit privilege use
- C. Audit system events
- D. Audit object access

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

<http://technet.microsoft.com/en-us/library/cc739760%28v=ws.10%29.aspx>

QUESTION 4

Your network contains two servers named Server1 and Server2 that run Windows Server 2012. Server1 and Server2 are members of a failover cluster named Cluster1 and are connected to an iSCSI Storage Area Network (SAN).

You need to ensure that you can implement the clustered File Server role of the File Server for scale-out application data type for Cluster1.

What should you install?

- A. The iSCSI Target Server cluster role
- B. The Distributed Transaction Coordinator (DTC) cluster role
- C. The DFS Namespace Server cluster role
- D. A Cluster Shared Volume (CSV)

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

Applies To: Windows Server 2012

Cluster Shared Volumes (CSVs) in a Windows Server 2012 failover cluster allow multiple nodes in the cluster to simultaneously have read-write access to the same LUN (disk) that is provisioned as an NTFS volume. With CSVs, clustered roles can fail over quickly from one node to another node without requiring a change in drive ownership, or dismounting and remounting a volume. CSVs also help simplify managing a potentially large number of LUNs in a failover cluster.

CSVs provide a general-purpose, clustered file system in Windows Server 2012, which is layered above NTFS. They are not restricted to specific clustered workloads. (In Windows Server 2008 R2, CSVs only supported the Hyper-V workload.) CSV applications include:

- Clustered virtual hard disk (VHD) files for clustered Hyper-V virtual machines
- Scale-out file shares to store application data for the **Scale-Out File Server** role. Examples of the application data for this role include Hyper-V virtual machine files and Microsoft SQL Server data. For more information about Scale-Out File Server, see [Scale-Out File Server for Application Data Overview](#).

<http://technet.microsoft.com/en-us/library/jj612868.aspx>

QUESTION 5

Your network contains a main data center and a disaster recovery data center. Each data center contains a Storage Area Network (SAN). The main data center contains a two-node failover cluster named Cluster1 that hosts a Microsoft SQL Server 2012 database named DB1.

The database files in DB1 are stored on the SAN in the main office. The disaster recovery data center contains a server that runs SQL Server 2012. You need to recommend a disaster recovery solution for the SQL Server database.

The solution must ensure that the database remains available if the main data center fails. What should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Deploy Distributed File System (DFS) Replication.
- B. Extend the failover cluster to the disaster recovery data center.
- C. Implement a Cluster Shared Volume (CSV) and move the database files to the CSV.
- D. Implement SQL Server database replication between the two data centers.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

SQL Server Replication

SQL Server 2012 | Other Versions → | 25 out of 37 rated this helpful - Rate this topic

Replication is a set of technologies for copying and distributing data and database objects from one database to another and then synchronizing between databases to maintain consistency. Using replication, you can distribute data to different locations and to remote or mobile users over local and wide area networks, dial-up connections, wireless connections, and the Internet.

Transactional replication is typically used in server-to-server scenarios that require high throughput, including: improving scalability and availability; data warehousing and reporting; integrating data from multiple sites; integrating heterogeneous data; and offloading batch processing. Merge replication is primarily designed for mobile applications or distributed server applications that have possible data conflicts. Common scenarios include: exchanging data with mobile users; consumer point of sale (POS) applications; and integration of data from multiple sites. Snapshot replication is used to provide the initial data set for transactional and merge replication; it can also be used when complete refreshes of data are appropriate. With these three types of replication, SQL Server provides a powerful and flexible system for synchronizing data across your enterprise.

<http://technet.microsoft.com/en-us/library/ms151198.aspx>

QUESTION 6

Your network contains a Microsoft System Center 2012 Virtual Machine Manager (VMM) infrastructure. You plan to provide self-service users with the ability to create virtual machines that run Windows Server 2012 and have the following configurations:

- 8 GB of memory
- The File Server server role
- Windows Internal Database
- A local Administrator password set to 'P@\$\$w0rd'



<http://www.gratisexam.com/>

You have a VHD that contains a generalized version of Windows Server 2012. You need to ensure that the self-service users can provision virtual machines that are based on the VHD.

What should you create? (Each correct answer presents part of the solution. Choose all that apply.)

- A. A Hardware Profile
- B. An Application Profile
- C. An Application Host Profile
- D. A VM Template
- E. A Guest OS Profile

Correct Answer: ADE

Section: Exams A-D

Explanation

Explanation/Reference:

<http://technet.microsoft.com/en-us/library/hh368987.aspx>

Creating Profiles in VMM

0 out of 1 rated this helpful - [Rate this topic](#)

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.]

A profile contains configuration settings that you can apply to a new virtual machine template or virtual machine. The following table lists the types of **profiles** that you can create in System Center 2012 – Virtual Machine Manager (VMM).

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

About Virtual Machine Templates

2 out of 3 rated this helpful - [Rate this topic](#)

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](#).

QUESTION 7

Your network contains a Hyper-V cluster named Cluster1. You install Microsoft System Center 2012 Virtual Machine Manager (VMM). You create a user account for another administrator named User1.

You plan to provide User1 with the ability to manage only the virtual machines that User1 creates. You need to identify what must be created before you delegate the required permissions.

What should you identify?

- A. A cloud
- B. A service template
- C. A host group
- D. A Delegated Administrator

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

See <http://blogs.technet.com/b/danstolts/archive/2010/04/18/hyper-v-security-101-virtualization-administration-delegation-of-hyper-v-and-scvm.aspx>

QUESTION 8

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 servers and 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

Section: Exams A-D

Explanation

Explanation/Reference:

Configuring Dynamic Optimization and Power Optimization in VMM

0 out of 1 rated this helpful - [Rate this topic](#)

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.]

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.

<http://searchsystemschannel.techtarget.com/feature/Using-Microsoft-Cluster-S-machineclustering>

Unlike NLB clusters, server clusters are used solely for the sake of availability. Server clusters do not provide performance enhancements outside of high availability. In a typical server cluster, multiple nodes are configured to be able to own a service or application resource, but only one node owns the resource at a given time. Server clusters are most often used for applications like Microsoft Exchange, Microsoft SQL Server, and DHCP services, which each share a need for a common datastore. The common datastore houses the information accessible by the node that is online and currently owns the resource, as well as the other possible owners that could assume ownership in the event of failure. Each node requires at least two network connections: one for the production network and one for the cluster service heartbeat between nodes. Figure 11.2 details the structure of a server cluster.

QUESTION 9

Your network contains two servers that run Windows Server 2012. The servers are members of a failover cluster. Each server has 32 GB of RAM and has the Hyper-V server role installed.

Each server hosts three highly available virtual machines. All of the virtual machines have an application named App1 installed.

Each of the virtual machines is configured to have 4 GB of memory.

During regular business hours, the virtual machines use less than 2 GB of memory. Each night, App1 truncates its logs and uses almost 4 GB of memory.

You plan to add another three virtual machines to each host. The new virtual machines will run the same load as the existing virtual machines. You need to ensure that all of the virtual machines can run on one of the Hyper-V hosts if a single host fails.

'What should you do?

- A. From the properties of each Hyper-V host, modify the Allow virtual machines to span NUMA nodes.
- B. From the properties of each virtual machine, modify the NUMA Configuration - Maximum amount of memory setting.
- C. From the properties of each virtual machine, modify the Smart Paging File Location.
- D. From the properties of each virtual machine, modify the Dynamic Memory settings.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

With the **Dynamic Memory** improvements for Hyper-V in Windows Server 2012, you can attain higher consolidation numbers with improved reliability for restart operations. This can lead to lower costs, especially in environments that have many idle or low-load virtual machines, such as pooled VDI environments. **Dynamic Memory** run-time configuration changes can reduce downtime and provide increased agility to respond to requirement changes.

Technical overview

Dynamic Memory, introduced in Windows Server 2008 R2 Service Pack 1 (SP1), defined startup memory as the minimum amount of memory that a virtual machine can have. However, Windows requires more memory during startup than the steady state. As a result, administrators sometimes assign extra memory to a virtual machine because Hyper-V cannot reclaim memory from these virtual machines after startup. In Windows Server 2012, **Dynamic Memory** introduces a minimum memory setting, which allows Hyper-V to reclaim the unused memory from the virtual machines. This is reflected as increased virtual machine consolidation numbers, especially in Virtual Desktop Infrastructure (VDI) environments.

Windows Server 2012 also introduces Smart Paging for reliable virtual machine restart operations. Although minimum memory increases virtual machine consolidation numbers, it also brings a challenge. If a virtual machine has a smaller amount of memory than its startup memory and if it is restarted, Hyper-V needs additional memory to restart the virtual machine. Due to host memory pressure or virtual machine states, Hyper-V may not always have additional memory available. This can cause sporadic virtual machine restart failures. Smart Paging is used to bridge the memory gap between minimum memory and startup memory, and allow virtual machines to restart reliably.

<http://technet.microsoft.com/en-us/library/hh831766.aspx>

Your network contains an Active Directory domain named contoso.com. The domain contains a Hyper-V host named Server1. Server1 has an offline virtual machine named VM1 that is stored on a virtual hard disk named VML.vhd.

You plan to implement multiple virtual machines that have the same configurations as VM1. You need to recommend a virtual hard disk solution for the planned implementation. The solution must meet the following requirements:

- Minimize the amount of time required to create the new virtual machines.
- Minimize the amount of storage space required on Server1.

What should you include in the recommendation?

- A. Differencing VHD disks
- B. Dynamically expanding VHD disks
- C. Dynamically expanding VHDX disks
- D. Differencing VHDX disks

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

<http://lynxcdup.com/2012/06/creating-hyper-v-3-differencing-disks-in-server-2012-with-gui-andpowershell/>

/** VHDX has better performance and differencing are smaller the Dynamic because they only contain the changes from the base image **/

Somebody please find out ... is it possible to create differencing VHDX from master VHD ??? My opinion is no ...

QUESTION 11

Your network contains three networks named LAN1, LAN2, and LAN3.

You have a Hyper-V host named Hyper1 that has Windows Server 2012 installed.

Hyper1 has three network adapters. The network adapters are configured as shown in the following table.

Network adapter name	Network
NIC1	LAN1
NIC2	LAN1
NIC3	LAN2

Hyper1 hosts 10 virtual machines. A virtual machine named VM1 runs a line-of-business application that is used by all of the users of LAN1. All of the other virtual machines are connected to LAN2.

You need to implement a solution to ensure that users can access VM1 if either NIC1 or NIC2 fails.

What should you do?

- A. From the properties of each virtual network adapter, enable network adapter teaming, and then modify the bandwidth management settings.
- B. From the properties of each virtual network adapter, enable network adapter teaming, and then enable virtual LAN identification.

- C. From the properties of each physical network adapter, enable network adapter teaming, and then add a second legacy network adapter to VM1.
- D. From the properties of each physical network adapter, enable network adapter teaming, and then create a virtual switch.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 12

Your network contains an Active Directory domain named contoso.com.

You deploy Microsoft System Center 2012 Virtual Machine Manager (VMM).

The network contains five physical servers. The servers are configured as shown in the following table.

Server name	Operating system	Disks	Memory	CPU
Server1	Windows Server 2008	C: 100 GB D: 2 TB	4 GB	X86
Server2	Windows Server 2003 R2 Service Pack 2 (SP2)	C: 40 GB D: 4 TB	2 GB	X86
Server3	Windows Server 2008 R2 Service Pack 1 (SP1)	C: 100 GB D: 2.5 TB	8 GB	X64
Server4	Windows Server 2008 R2	C: 100 GB D: 1 TB	16 GB	X64
Server5	Windows Server 2003 R2 Service Pack 2 (SP2)	C: 100 GB D: 2 TB E: 2 TB	4 GB	X86

You plan to use VMM to convert the existing physical servers to virtual machines.

You need to identify which physical servers can be converted to virtual machines.

Which servers should you identify? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Server1
- B. Server2
- C. Server3
- D. Server4
- E. Server5

Correct Answer: ADE

Section: Exams A-D
Explanation

Explanation/Reference:

<http://technet.microsoft.com/en-us/systemcenter/hh278293.aspx>

QUESTION 13

Your network contains the following roles and applications:

- Microsoft SQL Server 2012
- Distributed File System (DFS) Replication
- Active Directory Domain Services (AD DS)
- Active Directory Rights Management Services (AD RMS)
- Active Directory Lightweight Directory Services (AD LDS)

You plan to deploy Active Directory Federation Services (AD FS). You need to identify which deployed services or applications can be used as attribute stores for the planned AD FS deployment.

What should you identify? (Each correct answer presents a complete solution. (Choose all that apply.)

- A. DFS
- B. AD RMS
- C. Microsoft SQL Server 2012
- D. AD LDS
- E. AD DS

Correct Answer: CDE

Section: Exams A-D

Explanation

Explanation/Reference:

AD FS 2.0 Deployment Guide

2 out of 3 rated this helpful - [Rate this topic](#)

Updated: April 28, 2011

Applies To: Active Directory Federation Services (AD FS) 2.0

You can use Active Directory® Federation Services (AD FS) 2.0 with the Windows Server® 2008 operating system to build a federated identity management solution that extends distributed identification, authentication, and authorization services to Web-based applications across organization and platform boundaries. By deploying AD FS 2.0, you can extend your organization's existing identity management capabilities to the Internet.

You can deploy AD FS 2.0 to:

- Provide your employees or customers with a Web-based, single-sign-on (SSO) experience when they need remote access to internally hosted Web sites or services.
- Provide your employees or customers with a Web-based, SSO experience when they access cross-organizational Web sites or services from within the firewalls of your network.
- Provide your employees or customers with seamless access to Web-based resources in any federation partner organization on the Internet without requiring employees or customers to log on more than once.
- Retain complete control over your employee or customer identities without using other sign-on providers (*Windows Live ID, Liberty Alliance, and others*).

[http://technet.microsoft.com/library/dd807092\(v=ws.10\).aspx](http://technet.microsoft.com/library/dd807092(v=ws.10).aspx)

Exam D

QUESTION 1

Your Company has a main Office and a branch Office.

You plan to implement a failover cluster named Cluster1 to host an application named App1. The data of App1 will replicate to all of the nodes in Cluster1.

Cluster1 will contain two servers. The servers will be configured as shown in the following table.

Server name	Office
Server1	Main
Server2	Main

The cluster nodes will not use shared storage.

The branch Office contains two file servers named Server3 and Server4.

You need to ensure that App1 fails over automatically to another Server if a single node in Cluster1 fails. What should you do?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Add Server1,Server2,and Server3 to a Network Load Balancing (NLB)cluster.
- B. Add Server3 as a file share witness for Cluster1.
- C. Add Server3 and Server4 to a new failover cluster named Cluster2. Install App1 on Cluster2.
- D. Add Server3 as a node in Cluster1.

Correct Answer: B

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 2

Your company has three main offices named Main1, Main2, and Main3.

The network contains an Active Directory domain named contoso.com.

Each Office contains a help desk group.

You plan to deploy Microsoft System Center 2012 Configuration Manager to meet the following requirements:

- The members of the Domain Admins group must be able to manage all of the Configuration Manager settings.
- The help desk groups must be able to manage only the client Computers in their respective Office by using Configuration Manager.

You need to recommend a Configuration Manager infrastructure to meet the requirements.

Which infrastructure should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. One site that contains a collection for each Office
- B. Three sites that each contain one collection
- C. Three sites that contain one collection for each Office
- D. Three sites that contain one collection for each Office

Correct Answer: A

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 3

Your network contains an Active Directory domain named contoso.com. The domain contains several domain Controllers. The domain Controllers run either Windows Server 2012 or Windows Server 2008 R2.

The domain functional level is Windows Server 2008 R2. The forest functional level is Windows Server 2008.

The corporate compliance policy states that all items deleted from Active Directory must be recoverable from a Recycle Bin.

You need to recommend changes to the current environment to meet the compliance policy.

Which changes should you recommend? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Raise the forest functional level to Windows Server 2008 R2
- B. Run the Enable-ADOptionalFeature cmdlet.
- C. Run the New-ADObject cmdlet.
- D. Run the Set-Server cmdlet
- E. Raise the domain functional level to Windows Server 2012.

Correct Answer: AB

Section: Exams A-D

Explanation

Explanation/Reference:

You can enable Active Directory Recycle Bin only if the forest functional level of your environment is set to Windows Server 2008 R2.

B: Enabling Active Directory Recycle Bin

After the forest functional level of your environment is set to Windows Server 2008 R2, you can enable Active Directory Recycle Bin by using the following methods:

/ Enable-ADOptionalFeature Active Directory module cmdlet (This is the recommended method.)

/ Ldp.exe

Note: By default, Active Directory Recycle Bin in Windows Server 2008 R2 is disabled.

Reference: Enable Active Directory Recycle Bin

QUESTION 4

Your network contains an internal network and a perimeter network. The internal network contains an Active Directory domain named contoso.com. All client Computers in the perimeter network are part of a workgroup.

The internal network contains a Microsoft System Center 2012 infrastructure.

You plan to implement an update infrastructure to update the following:

- Windows Server 2012
- System Center 2012
- Windows Server 2003
- Microsoft SQL Server 2012
- Third-party virtualization hosts
- Microsoft SharePoint Server 2010

Another administrator recommends implementing a single WSUS Server to manage all of the Updates.

You need to identify which Updates can be applied by using the recommended deployment of WSUS.

What should you identify? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Third-party virtualization hosts
- B. System Center 2012
- C. Windows Server 2012
- D. SharePoint Server 2010
- E. Windows Server 2003
- F. SQL Server 2012

Correct Answer: BCDEF

Section: Exams A-D

Explanation

Explanation/Reference:

Windows Sharepoint Services updates are released in the Operating System product category, so if you are running WSS on Windows Server 2008 R2, and have the OS synchronized, they should already be synchronized and detected. Microsoft Office Sharepoint Server updates are released in the Office product category associated with the release version. (E.g. MOSS 2007 updates will be found in the Office 2007 product category.)

<http://social.technet.microsoft.com/Forums/da/winserverwsus/thread/b6d908a9-6fce-43e6-88b2-d38a5d8e029e>

QUESTION 5

Your network contains two servers named Server1 and Server2 that run Windows Server 2012. Server 1 has the iSCSI Target Server role Service installed and is configured to have five iSCSI virtual disks.

You install the Multipath I/O (MPIO) feature on Server2.

From the MPIO snap-in, you add support for iSCSI devices.

You need to ensure that Server2 can connect to the five iSCSI disks. The solution must ensure that Server2 uses MPIO to access the disks.

Which three actions should you perform?

To answer, move the three appropriate actions from the list of actions to the answer area and arrange them in the correct order.

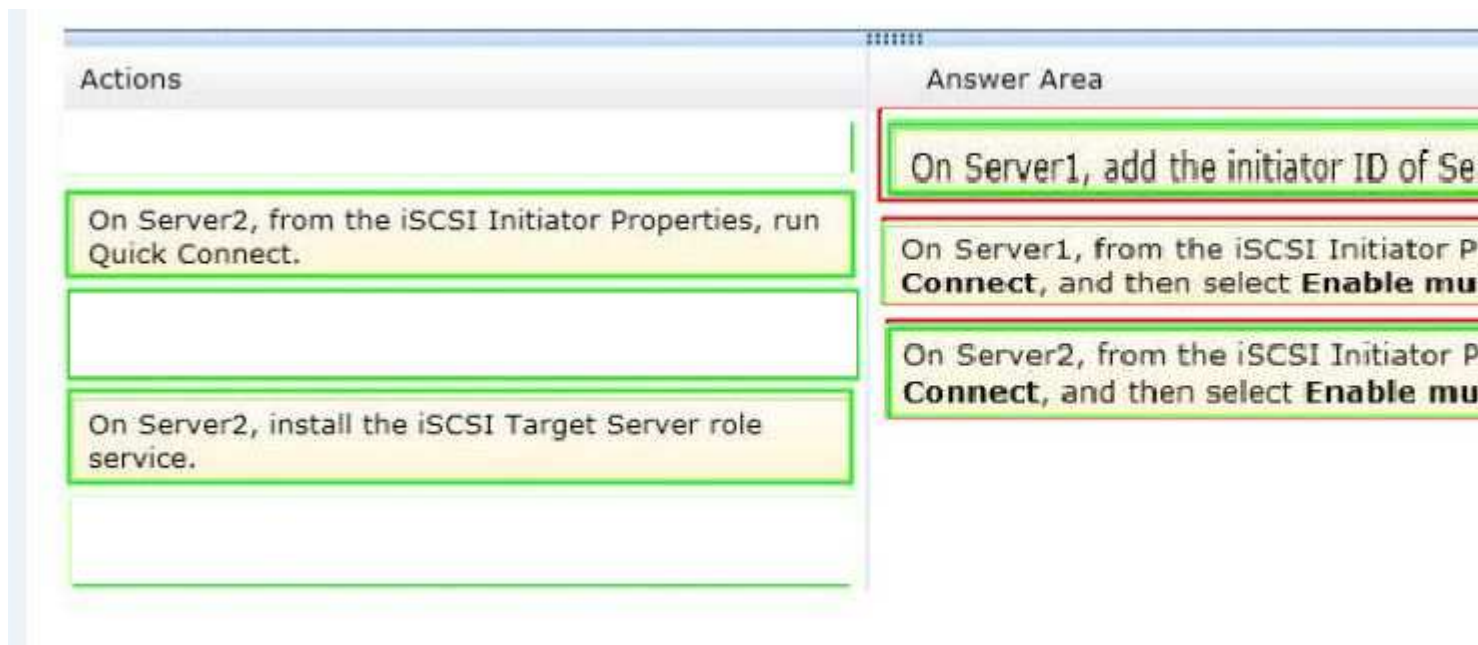
Exhibit:

Actions	Answer Area
On Server1, add the initiator ID of Server2.	
On Server2, from the iSCSI Initiator Properties, run Quick Connect.	
On Server1, from the iSCSI Initiator Properties, click Connect , and then select Enable multi-path .	
On Server2, install the iSCSI Target Server role service.	
On Server2, from the iSCSI Initiator Properties, click Connect , and then select Enable multi-path .	

Select and Place:

Actions	Answer Area
On Server1, add the initiator ID of Server2.	
On Server2, from the iSCSI Initiator Properties, run Quick Connect.	
On Server1, from the iSCSI Initiator Properties, click Connect , and then select Enable multi-path .	
On Server2, install the iSCSI Target Server role service.	
On Server2, from the iSCSI Initiator Properties, click Connect , and then select Enable multi-path .	

Correct Answer:



Section: Drag and Drop

Explanation

Explanation/Reference:

On Server1, add the initiator ID of Server2.

On Server1, from the iSCSI Initiator Properties, click Connect, and then select Enable multi-path.

On Server2, from the iSCSI Initiator Properties, click Connect, and then select Enable multi-path.

Note:

* (Step 1) On the Specify Access Servers page, click Add to specify the iSCSI initiator that will access your iSCSI virtual disk. Doing this opens the Add Initiator ID dialog box

* (Step 2): CONFIGURE ISCSI INITIATOR ON CLUSTER-NODES

Start the iScsi Initiator control panel by running iscsicpl on the command line. You will see a warning about the iScsi Initiator Service. Click Yes to start the service.

The properties screen will appear. Type the Target Server (in this scenario the DC) IP address in the Target box and click Quick Connect.

The two targets are shown in the dialog box. Click **Done**.

In the iScsi Initiator Properties screen you see the two targets with status Inactive. Highlight the first one and click the **Properties** button.

In the Properties screen click the **Add Session** button. In the **Connect to Target** popup window you will get select Enable multi-path and click **Advanced**. (Step 3).

Reference: Creating a Windows Server 2012 Multipath I/O iScsi Fail-over Cluster

QUESTION 6

Your network contains five Active Directory forests.

You plan to protect the resources in one of the forests by using Active Directory Rights Management Services (AD RMS)

Users in all of the forests will access the protected resources.

You need to identify the minimum number of AD RMS Clusters required for the planned deployment.

What should you identify?

- A. One root cluster and five licensing clusters
- B. One licensing cluster and five root clusters
- C. Five root clusters
- D. Five licensing clusters

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 7

Your network contains an Active Directory domain named contoso.com. The network contains a Server named Server1 that runs Windows Server 2012. Server1 has the Active Directory Certificate Services Server role installed. Server1 is configured as an offline standalone root certification authority (CA).

You install the Active Directory Certificate Services Server role on Server2 and configure the Server as an enterprise subordinate CA.

You need to ensure that the certificate issued to Server2 is valid for 10 years.

What should you do first?

- A. Modify the registry on Server1.
- B. Modify the registry on Server2.
- C. Modify the CAPolicy.inf file on Server2.
- D. Modify the subordinate CA certificate template.
- E. Modify the CAPolicy.inf file on Server1.

Correct Answer: B

Section: Exams A-D

Explanation

Explanation/Reference:

I am quick to agree with you on the ca policy changes. But investigating turned up

<http://technet.microsoft.com/en-us/library/jj125373.aspx>

and

you must prepare the CAPolicy.inf file before installing Active Directory Certificate Services.

Since AD CS is already installed I am leaning towards editing the registry? I am really more confused than ever now. I realize my initial link was for 2003, but that doesn't mean that is not still valid on 2012.

<http://social.technet.microsoft.com/forums/en-us/winserversecurity/thread/CE001D8F-C722-4429-83CB-328B92876292>

QUESTION 8

Your network contains an Active Directory domain named contoso.com. The domain contains a Microsoft System center 2012 infrastructure. You deploy a second System Center 2012 infrastructure in a test environment.

You create a Service template named Template 1 in both System Center 2012 infrastructures.

For self-service users, you create a Service offering for Template 1. The users create 20 instances of Template1.

You modify Template1 in the test environment. You export the Service template to a file named Template1.xml.

You need to ensure that the changes to Template1 can be applied to the existing instances in the production environment.

What should you do when you import the template?

- A. Create a new Service template.
- B. Overwrite the current Service template.
- C. Change the release number of the Service template.
- D. Change the name of the service template

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 9

Your network contains multiple servers that run Windows Server 2012.

The network contains a Storage Area Network (SAN) that only supports Fibre Channel connections.

You have two failover clusters. The failover clusters are configured as shown in the following table.

Failover cluster name	Role	Members
Cluster1	File Services	Two nodes
Cluster2	Hyper-V hosting	Six nodes

You plan to implement 15 highly available virtual machines on Cluster2. All of the virtual machines will be stored in a single shared folder.

You need to ensure that the VHD files of the virtual machines can be stored on the SAN.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. From a node in Cluster2, create a Virtual Fibre Channel SAN
- B. From a node in Cluster1, create a Virtual Fibre Channel SAN
- C. From Cluster1, add the iSCSI Target Server cluster role.
- D. From Cluster1, configure the clustered File Server role of the File Server for scale-out application data type.

Correct Answer: CD

Section: Exams A-D
Explanation

Explanation/Reference:

QUESTION 10

Your network contains a data center named DataCenter1 that contains multiple servers. The servers are configured as Hyper-V hosts. Your Company deploys a disaster recovery site. The disaster recovery site has a dedicated connection to DataCenter1.

The network is connected to the disaster recovery site by using a dedicated link.

DataCenter1 contains 10 business critical virtual machines that run a line-of-business application named App1.

You need to recommend a business continuity solution to ensure that users can connect to App1 within two hours if DataCenter1 fails.

What should you include in the recommendation?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. From Microsoft System Center 2012 Virtual Machine Manager (VMM), implement live migration on the virtual machines.
- B. From Hyper-V Manager, create snapshots of the virtual machines.
- C. From Microsoft System Center 2012 Data Protection Manager, implement a protection group.
- D. From Hyper-V Manager, implement Hyper-V replicas

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 11

Your network contains an Active Directory domain named contoso.com.

The corporate security policy states that when new user accounts, Computer accounts, and contacts are added to an organizational unit (OU) named Secure, the addition must be audited.

You need to recommend an auditing solution to meet the security policy.

What should you include in the recommendation? (Each answer presents part of the solution. Choose all that apply.)

- A. From the Default Domain Controllers Policy, enable the Audit directory services setting.
- B. Create a new Group Policy object (GPO) that is linked to the Secure OU, and then modify the Audit directory services setting
- C. From the Secure OU, modify the Auditing settings.
- D. From the Default Domain Controllers Policy, enable the Audit object access setting.
- E. From the Secure OU, modify the Permissions settings.
- F. Create a new Group Policy object (GPO) that is linked to the Secure OU, and then modify the Audit object access setting.

Correct Answer: AB
Section: Exams A-D
Explanation

Explanation/Reference:

C is not valid, we need to modify the GPO and not the OU

D is not valid we need to target the Secure OU not DC's

E is not valid we need to modify GPO, permission modifications or delegation will not achieve the requirements

F is not valid, Object Access will not audit moves, adds, changes to the OU

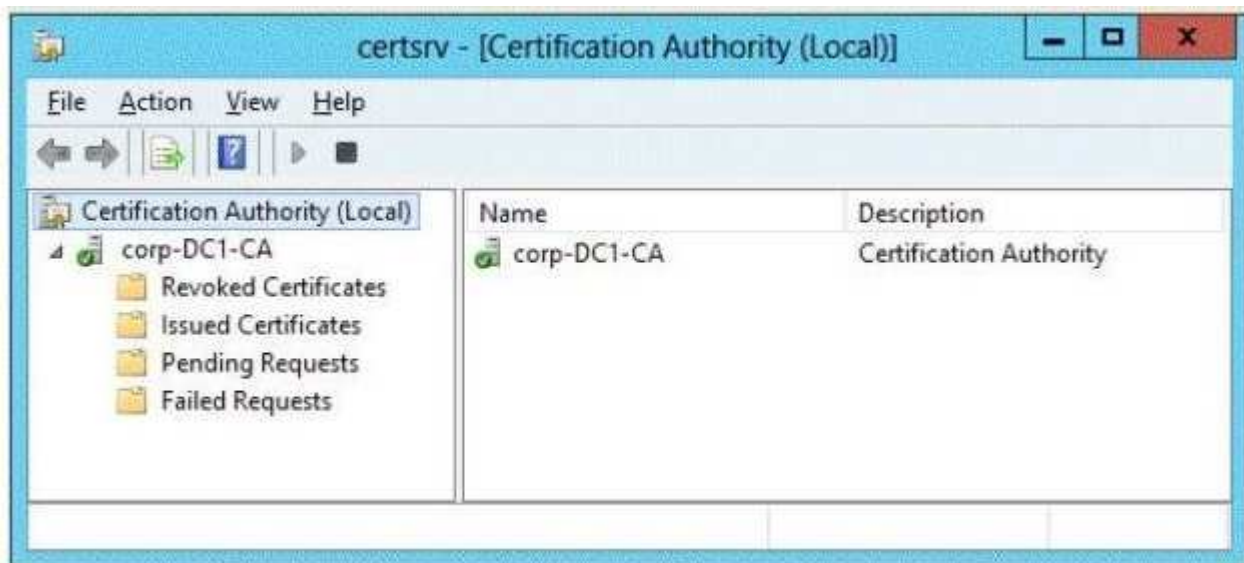
* Creating a New Object: Resulting in multiple Event ID 5137 entries containing all attributes provided explicitly by the security principal that invoked the operation (but not those automatically generated by the system). Note that similar information also gets recorded if audit of User Account Management or Directory Service Access is enabled.

<http://technet.microsoft.com/en-us/library/cc731607%28v=ws.10%29.aspx>

QUESTION 12

Your network contains an Active Directory domain named contoso.com. The network contains two servers named Server1 and Server2.

You deploy Active Directory Certificate Services (AD CS). The certification authority (CA) is configured as shown in the exhibit. (Click the Exhibit button.)



You need to ensure that you can issue certificates based on certificate templates. What should you do?

- A. On Server1, install the Network Device Enrollment Service role Service.
- B. Configure Server1 as a standalone root CA.
- C. Configure Server2 as an Enterprise CA
- D. On Server1, run the Add-CertificateEnrollmentPolicyServer cmdlet.

Correct Answer: D
Section: Exams A-D

Explanation

Explanation/Reference: (Questionable Answer)

<http://social.technet.microsoft.com/wiki/contents/articles/7734.certificate-enrollment-web-services-in-active-directory-certificate-services.aspx>

Reinstall ADCS as an Enterprise CA , cert templates are not available on standalone CAs

QUESTION 13

Your Company has 10,000 users located in 25 different sites.

All servers run Windows Server 2012. All client Computers run either Windows 7 or Windows 8.

You need to recommend a solution to provide self-service password reset for all of the users.

What should you include in the recommendation?

- A. The Microsoft System Center 2012 Service Manager Self-Service Portal and Microsoft System Center 2012 Operation Manager management packs
- B. Microsoft System Center 2012 Operations Manager management packs and Microsoft System Center 2012 Configuration Manager collections
- C. Microsoft System Center 2012 App Controller and Microsoft System Center 2012 Orchestrator runbooks
- D. The Microsoft System Center 2012 Service Manager Self-Service Portal and Microsoft System Center 2012 Orchestrator runbooks

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 14

Your network contains a Hyper-V host named Host1. Host1 hosts 25 virtual machines. All of the virtual machines are configured to Start automatically when Host1 restarts.

You discover that some of the virtual machines fail to Start automatically when Host1 restarts and require an administrator to Start them manually.

You need to modify the settings of the virtual machines to ensure that they automatically restart when Host1 restarts.

Which settings should you modify?

- A. Memory weight
- B. Maximum RAM
- C. Startup RAM
- D. Minimum RAM

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

<http://technet.microsoft.com/en-us/library/hh831766.aspx>

QUESTION 15

You have a Hyper-V host named Hyper1 that has Windows Server 2012 Installed. Hyper1 hosts 20 virtual machines.

Hyper1 has one physical network adapter.

You need to implement a networking solution that evenly distributes the available bandwidth on Hyper1 to all of the virtual machines.

What should you modify?

- A. The Quality of Service (QoS) Packet Scheduler settings of the physical network adapter
- B. The settings of the network adapter
- C. The settings of the virtual switch
- D. The settings of the legacy network adapter

Correct Answer: B

Section: Exams A-D

Explanation**Explanation/Reference:**

I believe The settings of the virtual switch is wrong because it doesn't have any options to modify you can check it by yourself if you like ...

The settings of the network adapter is the only correct answer ...

QUESTION 16

Your network contains an Active Directory domain named contoso.com.

You plan to deploy an Active Directory Federation Services (AD FS) farm that will contain eight federation servers.

You need to identify which technology or technologies must be deployed on the network before you install the federation servers. Which technology or technologies should you identify? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Network Load Balancing (NLB)
- B. Microsoft Forefront Identity Manager (FIM) 2010
- C. The Windows Internal Database feature
- D. Microsoft SQL Server 2012
- E. The Windows Identity Foundation 3.5 feature

Correct Answer: AD

Section: Exams A-D

Explanation**Explanation/Reference:**

Best practices for deploying a federation server farm

We recommend the following best practices for deploying a federation server in a production environment:

* (A) Use NLB or some other form of clustering to allocate a single IP address for many federation

server computers.

* (D) If the AD FS configuration database will be stored in a SQL database, avoid editing the SQL database from multiple federation servers at the same time.

* If you will be deploying multiple federation servers at the same time or you know that you will be adding more servers to the farm over time, consider creating a server image of an existing federation server in the farm and then installing from that image when you need to create additional federation servers quickly.

* Reserve a static IP address for each federation server in the farm and, depending on your Domain Name System (DNS) configuration, insert an exclusion for each IP address in Dynamic Host Configuration Protocol (DHCP). Microsoft NLB technology requires that each server that participates in the NLB cluster be assigned a static IP address.

Reference: When to Create a Federation Server Farm

QUESTION 17

Your company has a human resources department and a finance department.

You are planning an administrative model for both departments to meet the following requirements:

- Provide human resources managers with the ability to view the audit logs for the files of their department
- Ensure that only domain administrators can view the audit logs for the files of the finance department.

You need to recommend a solution for the deployment of file servers for both departments.

What should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Deploy two file servers. Add the human resources managers to the local Administrators group on one of the servers.
- B. Deploy two file servers. Add the human resources managers to the local Event Log Readers group on one of the servers .
- C. Deploy one file Server. Add the human resources managers to the local Administrators group.
- D. Deploy one file Server. Add the human resources managers to the local Event Log Readers group.

Correct Answer: B

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 18

Your network contains an Active Directory domain named contoso.com.

Your Company has an enterprise root certification authority (CA) named CA1.

You plan to deploy Active Directory Federation Services (AD FS) to a Server named Server1.

The Company purchases a Microsoft Office 365 subscription.

You plan register the company's SMTP domain for Office 365 and to configure single sign-on for all users.

You need to identify which certificate or certificates are required for the planned deployment.

Which certificate or certificates should you identify? (Each correct answer presents a complete solution.

Choose all that apply.)

- A. Server authentication certificate that is issued by a trusted third-party root CA and that contains the subject name serverl.contoso.com
- B. Server authentication certificate that is issued by CA1 and that contains the subject name Serverl
- C. Server authentication certificate that is issued by a trusted third-party root CA and that contains the subject name Serverl
- D. Server authentication certificate that is issued by CA1 and that contains the subject name serverl.contoso.com
- E. self-signed server authentication certificates for serverl.contoso.com

Correct Answer: AE

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 19

Your network contains an Active Directory domain named contoso.com.

You deploy Active Directory Certificate Services (AD CS).

Your Company, which is named Contoso, Ltd., has a partner Company named Fabrikam, Inc. Fabrikam also deploys AD CS.

Contoso and Fabrikam plan to exchange signed and encrypted email messages.

You need to ensure that the client Computers in both Contoso and Fabrikam trust each other's email certificates. The solution must prevent other certificates from being trusted.

What should you do?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Implement an online responder in each Company.
- B. Exchange the root certification authority (CA) certificates of both Companies, and then deploy the certificates to the Trusted Root Certification Authorities store by using Group Policy objects (GPOs).
- C. Exchange the root certification authority (CA) certificates of both Companies, and then deploy the certificates to the Enterprise Trust store by using Group Policy objects (GPOs).
- D. Implement cross-certification in each Company.

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

<http://technet.microsoft.com/en-us/library/cc759308%28v=ws.10%29.aspx>

Cross-Certification The process of issuing subordinate CA certificates for existing CAs that link two root CAs.

QUESTION 20

You have a failover cluster named Cluster1 that contains four Hyper-V hosts. Cluster1 hosts 20 virtual machines.

You deploy a new failover cluster named Cluster2.

You plan to replicate the virtual machines from Cluster1 to Cluster2.

You need to recommend which actions must be performed on Cluster2 for the planned deployment.

Which three actions should you recommend?

To answer, move the three appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
Install the Hyper-V server role.	
Deploy Microsoft System Center 2012 Virtual Machine Manager (VMM).	
Create replicas of the virtual machines.	
Create a snapshot of each virtual machine.	
Install the Hyper-V Replica Broker cluster role.	

Answer:

Correct Answer:

Actions	Answer Area
	Install the Hyper-V server role.
Deploy Microsoft System Center 2012 Virtual Machine Manager (VMM).	Install the Hyper-V Replica Broker cluster
	Create replicas of the virtual machines.
Create a snapshot of each virtual machine.	

Answer:

Section: Drag and Drop
Explanation

Explanation/Reference:

Box 1: Install the Hyper-V server role

Box 2: Install the Hyper-V Replicate Broker cluster role.

Box 3: Create replicas of the virtual machines..

Note:

* Windows Server 2012 Hyper-V Role introduces a new capability, Hyper-V Replica, as a built-in replication mechanism at a virtual machine (VM) level. Hyper-V Replica can asynchronously replicate a selected VM running at a primary site to a designated replica site across LAN/WAN.

*Step 1: Prepare to Deploy Hyper-V Replica

1.1. Make basic planning decisions

1.2. Install the Hyper-V server role

1.3. Configure the firewall

1.4. Configure Hyper-V Replica Broker

Step2: Step 2: Enable Replication

2.1 Configure the Replica server

2.2. Configure a Replica server that is part of a failover cluster (optional)

2.3 Enable replication for virtual machines

Each virtual machine that is to be replicated must be enabled for replication.

2.4 Configure primary server to receive replication

Reference: Deploy Hyper-V Replica

<http://blogs.technet.com/b/virtualization/archive/2012/03/27/why-is-the-quot-hyper-v-replica-broker-quot-required.aspx>

QUESTION 21

Your network contains an Active Directory Rights Management Services (AD RMS) cluster named Cluster1.

You plan to change Cluster1 to a new AD RMS cluster named Cluster2.

You need to ensure that all users retrieve the location of the AD RMS templates from Cluster2.

What should you do?

- A. Create an alias (CNAME) record named cluster1.contoso.com that points to Cluster2.
- B. Modify the Service Connection Point (SCP).
- C. Modify the templates file location of the rights policy templates.
- D. Modify the exclusion policies.

Correct Answer: B

Section: Exams A-D

Explanation

Explanation/Reference:

<http://social.technet.microsoft.com/wiki/contents/articles/710.the-ad-rms-service-connection-point.aspx>

QUESTION 22

Your network contains two servers named Server1 and Server2 that run Windows Server 2012. Server1 and Server2 have the Hyper-V Server role installed and are part of a host group named Group1 in Microsoft System Center 2012 Virtual Machine Manager (VMM).

Server1 and Server2 have identical hardware, Software, and settings.

You configure VMM to migrate virtual machines if the CPU utilization on a host exceeds 65 percent. The current load on the servers is shown following table.

Server	Virtual machine	CPU utilization
Server1	VM1	20 percent
Server1	VM2	20 percent
Server1	VM3	15 percent
Server2	VM4	15 percent
Server2	VM5	15 percent
Server2	VM6	15 percent
Server2	VM7	15 percent

You Start a new virtual machine on Server2 named VM8. VM8 has a CPU utilization of 20 percent. You discover that none of the virtual machines hosted on Server2 are migrated to Server1.

You need to ensure that the virtual machines hosted on Server2 are migrated to Server1.

What should you modify from the Dynamic Optimization configuration?

- A. The Host Reserve threshold
- B. The Aggressiveness level
- C. The Dynamic Optimization threshold
- D. The Power Optimization threshold

Correct Answer: B

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 23

Your network contains two data centers named DataCenter1 and DataCenter2. The two data centers are connected by using a low-latency high-speed WAN link.

Each data center contains multiple Hyper-V hosts that run Windows Server 2012. All servers connect to a Storage Area Network (SAN) in their local data center.

You plan to implement 20 virtual machines that will be hosted on the Hyper-V hosts.

You need to recommend a hosting solution for the virtual machines. The solution must meet the following requirements:

-
- Virtual machines must be available automatically on the network if a single Hyper-V host fails.
- Virtual machines must be available automatically on the network if a single data center fails.

What should you recommend?

- A. One failover cluster and one Distributed File System (DFS) Replication group in each data center
- B. One failover cluster in DataCenter1 and Hyper-V replicas to DataCenter2
- C. One failover cluster that spans both data centers and SAN replication between the data centers

D. One failover cluster in DataCenter2 and one DFS Replication group in DataCenter 1

Correct Answer: C

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 24

Your network contains a Microsoft System Center 2012 Virtual Machine Manager (VMM) Server named Server1.

You use Server1 to manage 20 Hyper-V hosts.

The network also contains five Citrix XenServer virtualization hosts.

You need to recommend which installation is required to manage the XenServer servers from Server1.

- A. The Citrix XenServer - Microsoft System Center Integration Pack on Server1 or Citrix Essentials for Hyper-V on Server1
- B. Citrix Essentials for Hyper-V on Server1
- C. Citrix Essentials for Hyper-V on the Citrix XenServer hosts
- D. The Citrix XenServer - Microsoft System Center Integration Pack on the Citrix XenServer hosts

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 25

Your Company has an Office in New York.

Many users connect to the Office from home by using the Internet.

You deploy an Active Directory Certificate Services (AD CS) infrastructure that contains an enterprise certification authority (CA) named CA1. CA1 is only available from hosts on the internal network.

You need to ensure that the certificate revocation list (CRL) is available to all of the users.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Create a scheduled task that copies the CRL files to a Web Server.
- B. Run the Install-ADCSWebEnrollment cmdlet.
- C. Run the Install-EnrollmentPolicyWebService cmdlet.
- D. Deploy a Web Server that is accessible from the Internet and the internal network.
- E. Modify the location of the Authority Information Access (AIA).
- F. Modify the location of the CRL distribution point (CDP).

Correct Answer: ADF

Section: Exams A-D

Explanation

Explanation/Reference:

access to CRLs for the 'Internet scenario' is fully supported and includes the following features:

CRLs will be located on Web servers which are Internet facing.

CRLs will be accessed using the HTTP retrieval protocol.

CRLs will be accessed using an external URL of <http://dp1.pki.contoso.com/pki>

F: To successfully authenticate an Internet Protocol over Secure Hypertext Transfer Protocol (IPHTTPS)-based connection, DirectAccess clients must be able to check for certificate revocation of the secure sockets layer (SSL) certificate submitted by the DirectAccess server. To successfully perform intranet detection, DirectAccess clients must be able to check for certificate revocation of the SSL certificate submitted by the network location server. This procedure describes how to do the following:

Create a Web-based certificate revocation list (CRL) distribution point using Internet Information Services (IIS)

Configure permissions on the CRL distribution shared folder

Publish the CRL in the CRL distribution shared folder

Reference: Configure a CRL Distribution Point for Certificates

Install-ADCSWebEnrollment and Install-EnrollmentPolicyWebService are not needed, Those feature are for issuing certificates, not publishing CRLs

I added "Create a scheduled task that copies the CRL files to a Web Server" ...

QUESTION 26

Your network contains a Microsoft System Center 2012 infrastructure.

You use Virtual Machine Manager (VMM) to manage 20 Hyper-V hosts.

You deploy a Windows Server Update Services (WSUS) Server.

You need to automate the remediation of non-compliant Hyper-V hosts. The solution must minimize the amount of time that virtual machines are unavailable.

What should you do first?

- A. Install the WSUS Administration console on the VMM Server, and then add the WSUS Server to the fabric.
- B. Configure the Hyper-V hosts to download Windows Updates from the WSUS Server by using a Group Policy object (GPO).
- C. Configure the Hyper-V hosts to download Windows Updates from the VMM Server by using a Group Policy object (GPO).
- D. Install the Virtual Machine Manager console on the WSUS Server, and then add the WSUS Server to the fabric.

Correct Answer: A

Section: Exams A-D

Explanation

Explanation/Reference:

QUESTION 27

You plan to implement a virtualization solution to host 10 virtual machines. All of the virtual machines will be hosted on servers that run Windows Server 2012.

You need to identify which servers must be deployed for the planned virtualization solution.

The solution must meet the following requirements:

- Minimize the number of servers.
- Ensure that live migration can be used between the hosts.

Which server option should you identify?



Answer Area

Option 1

Server name	Windows components
-------------	--------------------

Server1	Hyper-V server role
---------	---------------------

Server2	Hyper-V server role
---------	---------------------

Option 2

Server name	Windows Components
-------------	--------------------

Server1	Hyper-V server role, Failover
---------	-------------------------------

Server2	Hyper-V server role, Failover
---------	-------------------------------

Server3	Hyper-V server role
---------	---------------------

Option 3

Server name	Windows components
-------------	--------------------

Server1	Hyper-V server role
---------	---------------------

Server2	Hyper-V server role
---------	---------------------

Server3	File Server role service
---------	--------------------------

Server4	Network Load Balancing feature
---------	--------------------------------

Option 4

Server name	Windows components
-------------	--------------------

Server1	Hyper-V server role, Failover
---------	-------------------------------

Server2	Hyper-V server role, Failover
---------	-------------------------------

Server3	iSCSI Target Server role serv
---------	-------------------------------

- A. OPTION 1
- B. OPTION 2
- C. OPTION 3
- D. OPTION 4

Correct Answer: D

Section: Exams A-D

Explanation

Explanation/Reference:

Option 1 is incorrect because there is not shared storage.

Option 2 is incorrect because the 3rd server does not have shared storage

Option 3 is incorrect, there is shared storage but Option 4 is a simpler solution

http://technet.microsoft.com/en-us/library/hh848268.aspx#BKMK_Step3

Answer Area																			
<p>Option 1</p> <table> <tr> <th>Server name</th><th>Windows components</th></tr> <tr> <td>Server1</td><td>Hyper-V server role</td></tr> <tr> <td>Server2</td><td>Hyper-V server role</td></tr> </table>	Server name	Windows components	Server1	Hyper-V server role	Server2	Hyper-V server role	<p>Option 2</p> <table> <tr> <th>Server name</th><th>Windows Components</th></tr> <tr> <td>Server1</td><td>Hyper-V server role, Failover Clustering feature</td></tr> <tr> <td>Server2</td><td>Hyper-V server role, Failover Clustering feature</td></tr> <tr> <td>Server3</td><td>Hyper-V server role</td></tr> </table>	Server name	Windows Components	Server1	Hyper-V server role, Failover Clustering feature	Server2	Hyper-V server role, Failover Clustering feature	Server3	Hyper-V server role				
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Server3	Hyper-V server role																		
<p>Option 3</p> <table> <tr> <th>Server name</th><th>Windows components</th></tr> <tr> <td>Server1</td><td>Hyper-V server role</td></tr> <tr> <td>Server2</td><td>Hyper-V server role</td></tr> <tr> <td>Server3</td><td>File Server role service</td></tr> <tr> <td>Server4</td><td>Network Load Balancing feature</td></tr> </table>	Server name	Windows components	Server1	Hyper-V server role	Server2	Hyper-V server role	Server3	File Server role service	Server4	Network Load Balancing feature	<p>Option 4</p> <table> <tr> <th>Server name</th><th>Windows components</th></tr> <tr> <td>Server1</td><td>Hyper-V server role, Failover Clustering feature</td></tr> <tr> <td>Server2</td><td>Hyper-V server role, Failover Clustering feature</td></tr> <tr> <td>Server3</td><td>iSCSI Target Server role service</td></tr> </table>	Server name	Windows components	Server1	Hyper-V server role, Failover Clustering feature	Server2	Hyper-V server role, Failover Clustering feature	Server3	iSCSI Target Server role service
Server name	Windows components																		
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Server name	Windows components																		
Server1	Hyper-V server role, Failover Clustering feature																		
Server2	Hyper-V server role, Failover Clustering feature																		
Server3	iSCSI Target Server role service																		

<http://technet.microsoft.com/en-us/library/hh831435.aspx>

Common requirements for any form of live migration:

Two (or more) servers running Hyper-V that:

Support hardware virtualization.

Are using processors from the same manufacturer (for example, all AMD or all

Belong to either the same Active Directory domain, or to domains that trust ea

Virtual machines must be configured to use virtual hard disks or virtual Fibre C
physical disks).

Use of a private network is recommended for live migration network traffic.

Contoso

QUESTION 1

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 visualization requirements.

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.

What should you include in the recommendation?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none"> - 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. 			

System Center 2012 – Operations Manager provides infrastructure monitoring that is flexible and cost-effective, helps ensure the predictable performance and availability of vital applications, and offers comprehensive monitoring for your datacenter and cloud, both private and public.

<http://technet.microsoft.com/en-us/library/jj656649.aspx>

QUESTION 2

You need to recommend a solution for managing updates. The solution must meet the technical requirements.

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.

What should you include in the recommendation?

- A System Center 2012 Configuration Manager management point in the main office and a System Center 2012 Configuration Manager distribution point in each office.
- A System Center 2012 Configuration Manager management point in the main office and a WSUS downstream server in each office.
- 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.
- A WSUS upstream server in and a WSUS downstream server in each office.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Overview	Existing Environment Network Infrastructure	Current Issues	Planned Changes
<p>The company identifies the following technical requirements:</p> <ul style="list-style-type: none"> - 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. 			
<p>The company plans to implement the following changes:</p> <ul style="list-style-type: none"> - 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. 			
Distribution point	A site system role that contains source files for clients to download, such as application content, software packages, software updates, operating system images, and boot images.		

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

QUESTION 3

You need to ensure that Group1 can perform the required tasks. The solution must meet the virtualization requirements.

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.

What should you create?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none">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.			

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:

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

QUESTION 4

You need to recommend a solution for updating the virtualization hosts. The solution must meet the virtualization requirements.

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.

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none">- 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.			

Cluster-Aware Updating Overview

2 out of 2 rated this helpful - [Rate this topic](#)

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.

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

QUESTION 5

You need to recommend a solution that resolves the current file server issue. The solution must meet the business requirements.

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 a Internet link fails.

What should you include in the recommendation?

- A. Distributed File System (DFS)
- B. BranchCache in distributed cache mode

- C. BranchCache in hosted cache mode
- D. A storage pool

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

You need to create a service template for the web servers used by the CRM application.

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.

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.

What should you include in the service template?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Overview	Existing Environment Network Infrastructure	Current Issues	Planned Changes
<p>The company plans to implement the following changes:</p> <ul style="list-style-type: none"> 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	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none"> 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. 			

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](#).

<http://technet.microsoft.com/library/gg610569.aspx>

<http://technet.microsoft.com/en-us/library/hh335098.aspx>

QUESTION 7

You need to recommend a solution that meets the technical requirements for DHCP.

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.

What should you include in the recommendation for each office?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following technical requirements:</p> <ul style="list-style-type: none">· 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.			

New functionality in DHCP Server for Windows Server 2012 includes the following.

- **DHCP failover:** This feature provides the ability to have two DHCP servers serve IP addresses and option configuration to the same subnet or scope, providing for continuous availability of DHCP service to clients. The two DHCP servers replicate lease information between them, allowing one server to assume responsibility for servicing of clients for the entire subnet when the other server is unavailable. It is also possible to configure failover in a load-balancing configuration with client requests distributed between the two servers in a failover relationship. For more information about **DHCP failover**, see [Step-by-Step: Configure DHCP for Failover](#)

<http://technet.microsoft.com/en-us/library/jj200226.aspx>

QUESTION 8

You need to recommend an automated remediation solution for the ReliableTimeSource registry value. The solution must meet the technical requirements.

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.

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following technical requirements:</p> <ul style="list-style-type: none">- 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.			
<ul style="list-style-type: none">- View configuration baselines that have been deployed to the client, initiate compliance evaluation, and view compliance reports.			

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

QUESTION 9

You need to recommend a solution for deploying the web servers for the CRM application. The solution must meet the virtualization requirements.

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.

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none">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.			

<http://technet.microsoft.com/library/hh831698>

QUESTION 10

You are planning the delegation for the virtualization environment. The delegation must meet the visualization requirements.

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.

Which user role profile should you select for Group2?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none">- 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.			
<p>• Only administrators can add a Windows Server Update Services (WSUS) server to VMM to enable updates of the VMM fabric through VMM.</p>			

QUESTION 11

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

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.

What should you use?

- A. An .iso image
- B. A virtual machine

- C. A Windows PowerShell script
- D. A virtual hard disk (VHD)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none"> · 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](#).

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

QUESTION 12

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 visualization requirements.

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.

What should you include in the recommendation?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Business Requirements	Technical Requirements	Virtualization Requirements	All
<p>The company identifies the following virtualization requirements:</p> <ul style="list-style-type: none">- 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.			

System Center 2012 – Operations Manager provides infrastructure monitoring that is flexible and cost-effective, helps ensure the predictable performance and availability of vital applications, and offers comprehensive monitoring for your datacenter and cloud, both private and public.

<http://technet.microsoft.com/en-us/library/jj656649.aspx>

Datum

QUESTION 1

What is the minimum number of certificate servers you need to deploy?

- A. 2
- B. 3
- C. 4
- D. 5

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

2 Locations, Miami and Seattle - one Certificate Server per location.

Planned Changes	Notification Requirements	Technical Requirements	Security Requirements	All
<p>A. Datum identifies the following security requirements:</p> <ul style="list-style-type: none">- An offline root certification authority (CA) must be configured.- Client computers must be issued certificates by a server in their local office.- Changes to the CA configuration settings and the CA security settings must be logged.- Client computers must be able to renew certificates automatically over the Internet.- The number of permissions and privileges assigned to users must be minimized whenever possible.- Users from a group named Group1 must be able to create new instances of App1 in the private cloud.- Cent computers must be issued new certificates when the computers are connected to the local network only.- The virtual machines used to host App2 must use BitLocker Drive Encryption (BitLocker).- Users from Trey Research must be able to access App2 by using their credentials from treyresearch.com.				

Planned Changes	Notification Requirements	Technical Requirements	Security Requirements	All
<p>A. Datum plans to implement the following changes:</p> <ul style="list-style-type: none">- Replace all of the servers with new servers that run Windows Server 2012.- Implement a private cloud by using Microsoft System Center 2012 to host instances of Appl.- In the Miami office, deploy four new Hyper-V hosts to the perimeter network.- In the Miami office, deploy two new Hyper-V hosts to the local network.- In the Seattle office, deploy two new Hyper-V hosts. In the Miami office, implement a System Center 2012 Configuration Manager primary site that has all of the system roles installed.- Implement a public key infrastructure (PKI).- Implement AD FS.				

QUESTION 2

You need to recommend a software update solution that meets the technical requirements.

Technical Requirements

Datum identifies the following technical requirements:

- Minimize costs whenever possible.
- Minimize the amount of WAN traffic.
- Minimize the amount of administrative effort whenever possible.
- Provide the fastest possible failover for the virtual machines hosting App2.
- Ensure that administrators can view a consolidated report about the software updates in all of the offices.
- Ensure that administrators in the Miami office can approve updates for the client computers in all of the offices.

What should you recommend deploying to each branch office?

- A. An endpoint protection point
- B. A distribution point
- C. A management point
- D. An enrollment proxy point

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Planned Changes	Notification Requirements	Technical Requirements	Security Requirements	All
<p>A. Datum identifies the following technical requirements:</p> <ul style="list-style-type: none"> · Minimize costs whenever possible. · Minimize the amount of WAN traffic. · Minimize the amount of administrative effort whenever possible. · Provide the fastest possible failover for the virtual machines hosting App2. · Ensure that administrators can view a consolidated report about the software updates in all of the offices. · Ensure that administrators in the Miami office can approve updates for the client computers in all of the offices. 				

Updated: November 1, 2012

Applies To: System Center 2012 Configuration Manager, System Center 2012 Configuration Manager SP1

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

Content management in System Center 2012 Configuration Manager provides the tools for you to manage content files for applications, packages, software updates, and operating system deployment. Configuration Manager uses **distribution points** to store files required for software to run on client computers. These **distribution points** function as distribution centers for the content files and let users download and run the software. Clients must have access to at least one **distribution point** from which they can download the files.

<http://technet.microsoft.com/en-us/library/gg712321.aspx>

QUESTION 3

You have a service template to deploy Appl. You are evaluating the use of Network Load Balancing (NLB) for

the front-end servers used by Appl. You need to recommend which component must be added to the service template.

What should you recommend?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

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.

App2 will be used by users from a partner company named Trey Research. Trey Research has a single Active Directory domain named treyresearch.com. Treyresearch.com contains a server that has the Active Directory Federation Services server role and all of the Active Directory Federation Services (AD FS) role services installed.

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.

QUESTION 4

You need to recommend a solution that meets the notification requirements.

Notification Requirements

Datum identifies the following notification requirements:

- Help desk tickets must be created and assigned automatically when an instance of App1 becomes unresponsive.
- Customers who select the Enterprise service level must receive an email notification each time a help desk ticket for their instance of App1 is opened or closed.

Which System Center 2012 components should you include in the recommendation?

- A. Operations Manager, Service Manager and Orchestrator
- B. Configuration Manager, Service Manager and Orchestrator
- C. App Controller, Configuration Manager and Operations Manager
- D. Service Manager, Orchestrator and App Controller

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Planned Changes	Notification Requirements	Technical Requirements	Security Requirements	All
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A. Datum identifies the following notification requirements:

- Help desk tickets must be created and assigned automatically when an instance of App1 becomes unresponsive.
- Customers who select the Enterprise service level must receive an email notification each time a help desk ticket for their instance of App1 is opened or closed.

Applies To: System Center 2012 - Operations Manager, System Center 2012 SP1 - Operations Manager

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

System Center 2012 – Operations Manager provides infrastructure monitoring that is flexible and cost-effective, helps ensure the predictable performance and availability of vital applications, and offers comprehensive monitoring for your datacenter and cloud, both private and public.

In this course, we will discuss how the System Center 2012 Orchestrator and Service Manager components enable you to deploy, automate, update, and manage service offerings within your private cloud. Microsoft's approach to self-service delivery will be discussed, and how System Center responds to end-user service requests. We will cover methods to challenging operational issues, and how using Orchestrator and Service Manager can allow the IT Pro to automate, standardize and offer self-service IT processes in the private cloud.

QUESTION 5

You need to recommend a solution that meets the security requirements for Group1. To which System Center 2012 Virtual Machine Manager (VMM) group should you assign Group1?

Security Requirements

Datum identifies the following security requirements:

- An offline root certification authority (CA) must be configured.
- Client computers must be issued certificates by a server in their local office.
- Changes to the CA configuration settings and the CA security settings must be logged.
- Client computers must be able to renew certificates automatically over the Internet.

The number of permissions and privileges assigned to users must be minimized whenever possible.
Users from a group named Group1 must be able to create new instances of App1 in the private cloud.
Cent computers must be issued new certificates when the computers are connected to the local network only.
The virtual machines used to host App2 must use BitLocker Drive Encryption (BitLocker).
Users from Trey Research must be able to access App2 by using their credentials from treyresearch.com.

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

A. Datum identifies the following security requirements:

- An offline root certification authority (CA) must be configured.
- Client computers must be issued certificates by a server in their local office.
- Changes to the CA configuration settings and the CA security settings must be logged.
- Client computers must be able to renew certificates automatically over the Internet.
- The number of permissions and privileges assigned to users must be minimized whenever possible.
- Users from a group named Group1 must be able to create new instances of App1 in the private cloud.
- Client computers must be issued new certificates when the computers are connected to the local network only.
- The virtual machines used to host App2 must use BitLocker Drive Encryption (BitLocker).
- Users from Trey Research must be able to access App2 by using their credentials from treyresearch.com.

Application Administrator (Self-Service User)	<p>Members of the Self-Service User role can create, deploy, and manage their own virtual machines and services by using the VMM console or a Web portal. The Self-Service user role can do the following:</p> <ul style="list-style-type: none"> • Specify the private clouds to which self-service user virtual machines and services are deployed and the actions that self-service users can take. • Grant access to logical and physical resources in the library and on self-service users own user data paths. • Set quotas on virtual machines and computing resources. • Specify whether PRO tips can be viewed and implemented.
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<http://mountainss.wordpress.com/2011/11/19/user-roles-in-system-center-virtual-machine-manager-2012/http://technet.microsoft.com/en-us/library/gg696971.aspx>

QUESTION 6

You need to recommend which Certificate Services role service must be deployed to the perimeter network. The solution must meet the technical requirements.

Technical Requirements

Datum identifies the following technical requirements:

- Minimize costs whenever possible.
- Minimize the amount of WAN traffic.
- Minimize the amount of administrative effort whenever possible.
- Provide the fastest possible failover for the virtual machines hosting App2.

- Ensure that administrators can view a consolidated report about the software updates in all of the offices.
- Ensure that administrators in the Miami office can approve updates for the client computers in all of the offices.

Which Certificate Services role services should you recommend?

- A. Certificate Enrollment Web Service and Certificate Enrollment Policy Web Service
- B. Certificate Enrollment Policy Web Service and Certification Authority Web Enrollment
- C. Online Responder and Network Device Enrollment Service
- D. Online Responder and Certificate Enrollment Web Service

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

A. Datum identifies the following technical requirements:

- Minimize costs whenever possible.
- Minimize the amount of WAN traffic.
- Minimize the amount of administrative effort whenever possible.
- Provide the fastest possible failover for the virtual machines hosting App2.
- Ensure that administrators can view a consolidated report about the software updates in all of the offices.
- Ensure that administrators in the Miami office can approve updates for the client computers in all of the offices.

Certificate Enrollment Policy Web Service Overview

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Applies To: Windows Server 2008 R2

The **Certificate Enrollment Policy Web Service** is an Active Directory Certificate Services (AD CS) role service that enables users and computers to obtain certificate enrollment policy information. Together with the Certificate Enrollment Web Service, this enables policy-based certificate enrollment when the client computer is not a member of a domain or when a domain member is not connected to the domain.

The **Certificate Enrollment Policy Web Service** uses the HTTPS protocol to communicate certificate policy information to network client computers. The Web service uses the LDAP protocol to retrieve certificate policy from Active Directory Domain Services (AD DS) and caches the policy information to service client requests. In previous versions of AD CS, certificate policy information can be accessed only by domain client computers that are using the LDAP protocol. This limits policy-based certificate issuance to the trust boundaries established by AD DS forests.

Publishing enrollment policy over HTTPS enables the following new deployment scenarios:

- Certificate enrollment across forest boundaries to reduce the number of certification authorities (CAs) in an enterprise.
- Extranet deployment to issue certificates to mobile workers and business partners.

<http://technet.microsoft.com/en-us/library/dd759230.aspx>

QUESTION 7

You need to recommend a storage solution for the App1 VHDs. The solution must minimize downtime if a Hyper-V host fails.

What should you include in the recommendation?

- A. Distributed File System (DFS) Replication
- B. A clustered file server of the File Server for general use type
- C. A Distributed File System (DFS) namespace
- D. clustered file server of the File Server for scale-out application data type

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Overview	Existing Environment Network Infrastructure	Current Issues	Application Requirements
<p>The company is developing an application named Appl. App1 is a multi-tier application that will be sold as a service to customers.</p> <p>Each instance of App1 is comprised of the following three tiers:</p> <ul style="list-style-type: none">- A web front end- A middle tier that uses Windows Communication Foundation (WCF)- A Microsoft SQL Server 2008 R2 database on the back end <p>Each tier will be hosted on one or more virtual machines. Multiple-tiers cannot coexist on the same virtual machine.</p> <p>When customers purchase App1, they can select from one of the following service levels:</p> <ul style="list-style-type: none">- 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. <p><u>All virtual hard disk (VHD) files for App1 will be stored in a file share. The VHDs must be available if a server fails.</u></p> <p>You plan to deploy an application named App2. App2 is comprised of the following two tiers:</p> <ul style="list-style-type: none">- A web front end- A dedicated SQL Server 2008 R2 database on the back end <p>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.</p> <p>App2 will be used by users from a partner company named Trey Research. Trey Research has a single Active Directory domain named treyresearch.com. Treyresearch.com contains a server that has the Active Directory Federation Services server role and all of the Active Directory Federation Services (AD FS) role services installed.</p>			

Applies To: Windows Server 2012

In Windows Server 2012, the following clustered file servers are available:

- **Scale-Out File Server for application data (Scale-Out File Server)** This clustered file server is introduced in Windows Server 2012 and lets you store server application data, such as Hyper-V virtual machine files, on file shares, and obtain a similar level of reliability, availability, manageability, and high performance that you would expect from a storage area network. All file shares are online on all nodes simultaneously. File shares associated with this type of clustered file server are called scale-out file shares. This is sometimes referred to as active-active.
- **File Server for general use** This is the continuation of the clustered file server that has been supported in Windows Server since the introduction of Failover Clustering. This type of clustered file server, and thus all the shares associated with the clustered file server, is online on one node at a time. This is sometimes referred to as active-passive or dual-active. File shares associated with this type of clustered file server are called clustered file shares.

<http://technet.microsoft.com/en-us/library/hh831349.aspx>

QUESTION 8

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. Purchase a storage solution that replicates the virtual machines.
Configure all of the virtual machines to use dynamic memory.
- B. Upgrade the WAN link between the Miami and Seattle offices.
Purchase a storage solution that replicates the virtual machines.
- C. 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.
- D. 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.

Correct Answer: B

Section: (none)

Explanation

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
<p>The company is developing an application named Appl. App1 is a multi-tier application that will be sold as a service to customers.</p> <p>Each instance of App1 is comprised of the following three tiers:</p> <ul style="list-style-type: none">- A web front end- A middle tier that uses Windows Communication Foundation (WCF)- A Microsoft SQL Server 2008 R2 database on the back end <p>Each tier will be hosted on one or more virtual machines. Multiple tiers cannot coexist on the same virtual machine.</p> <p>When customers purchase App1, they can select from one of the following service levels:</p> <ul style="list-style-type: none">- 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. <p>All virtual hard disk (VHD) files for App1 will be stored in a file share. The VHDs must be available if a server fails.</p> <p>You plan to deploy an application named App2. App2 is comprised of the following two tiers:</p> <ul style="list-style-type: none">- A web front end- A dedicated SQL Server 2008 R2 database on the back end <p>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.</p>			

You must have a Fast WAN for Multisite clustering and DFS doesn't work for multisite hyperv clusters see <http://technet.microsoft.com/en-us/library/dd197575%28v=ws.10%29.aspx>

QUESTION 9

Your network contains two servers that run Windows Server 2012. The servers are members of a failover cluster. Each server has 32 GB of RAM and has the Hyper-V server role installed. Each server hosts three highly available virtual machines.

All of the virtual machines have an application named App1 installed. Each of the virtual machines is configured to have 4 GB of memory. During regular business hours, the virtual machines use less than 2 GB of memory. Each night, App1 truncates its logs and uses almost 4 GB of memory.

You plan to add another three virtual machines to each host. The new virtual machines will run the same load as the existing virtual machines. You need to ensure that all of the virtual machines can run on one of the Hyper-V hosts if a single host fails.

What should you do?

- A. From the properties of each Hyper-V host, modify the Allow virtual machines to span NUMA nodes.
- B. From the properties of each virtual machine, modify the NUMA Configuration - Maximum amount of memory setting.
- C. From the properties of each virtual machine, modify the Smart Paging File Location.
- D. From the properties of each virtual machine, modify the Dynamic Memory settings.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

With the **Dynamic Memory** improvements for Hyper-V in Windows Server 2012, you can attain higher consolidation numbers with improved reliability for restart operations. This can lead to lower costs, especially in environments that have many idle or low-load virtual machines, such as pooled VDI environments. **Dynamic Memory** run-time configuration changes can reduce downtime and provide increased agility to respond to requirement changes.

Technical overview

Dynamic Memory, introduced in Windows Server 2008 R2 Service Pack 1 (SP1), defined startup memory as the minimum amount of memory that a virtual machine can have. However, Windows requires more memory during startup than the steady state. As a result, administrators sometimes assign extra memory to a virtual machine because Hyper-V cannot reclaim memory from these virtual machines after startup. In Windows Server 2012, **Dynamic Memory** introduces a minimum memory setting, which allows Hyper-V to reclaim the unused memory from the virtual machines. This is reflected as increased virtual machine consolidation numbers, especially in Virtual Desktop Infrastructure (VDI) environments.

Windows Server 2012 also introduces Smart Paging for reliable virtual machine restart operations. Although minimum memory increases virtual machine consolidation numbers, it also brings a challenge. If a virtual machine has a smaller amount of memory than its startup memory and if it is restarted, Hyper-V needs additional memory to restart the virtual machine. Due to host memory pressure or virtual machine states, Hyper-V may not always have additional memory available. This can cause sporadic virtual machine restart failures. Smart Paging is used to bridge the memory gap between minimum memory and startup memory, and allow virtual machines to restart reliably.

<http://technet.microsoft.com/en-us/library/hh831766.aspx>

QUESTION 10

In adatum.com, you install and configure a server that has the Active Directory Federation Services server role

and all of the AD FS role services installed.

You need to recommend which AD FS configurations must be performed in adatum.com to meet the security requirements.

Security Requirements

Datum identifies the following security requirements:

- An offline root certification authority (CA) must be configured.
- Client computers must be issued certificates by a server in their local office.
- Changes to the CA configuration settings and the CA security settings must be logged.
- Client computers must be able to renew certificates automatically over the Internet.
- The number of permissions and privileges assigned to users must be minimized whenever possible.
- Users from a group named Group1 must be able to create new instances of App1 in the private cloud.
- Client computers must be issued new certificates when the computers are connected to the local network only.
- The virtual machines used to host App2 must use BitLocker Drive Encryption (BitLocker).
- Users from Trey Research must be able to access App2 by using their credentials from treyresearch.com.

Which configurations should you recommend before creating a trust policy?

- A. Export the server authentication certificate and provide the certificate to Trey Research.
Import the token-signing certificate from Trey Research.
- B. Export the server authentication certificate and provide the certificate to Trey Research.
Import the server authentication certificate from Trey Research.
- C. Export the token-signing certificate and provide the certificate to Trey Research.
Import the server authentication certificate from Trey Research.
- D. Export the token-signing certificate and provide the certificate to Trey Research.
Import the token-signing certificate from Trey Research.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Planned Changes	Notification Requirements	Technical Requirements	Security Requirements
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A. Datum identifies the following security requirements:

- An offline root certification authority (CA) must be configured.
- Client computers must be issued certificates by a server in their local office.
- Changes to the CA configuration settings and the CA security settings must be logged.
- Client computers must be able to renew certificates automatically over the Internet.
- The number of permissions and privileges assigned to users must be minimized whenever possible.
- Users from a group named Group1 must be able to create new instances of App1 in the private cloud.
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- The virtual machines used to host App2 must use BitLocker Drive Encryption (BitLocker).
- Users from Trey Research must be able to access App2 by using their credentials from treyresearch.com.

Overview	Existing Environment Network Infrastructure	Current Issues	Application Requirements
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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.

App2 will be used by users from a partner company named Trey Research. Trey Research has a single Active Directory domain named treyresearch.com. Treyresearch.com contains a server that has the Active Directory Federation Services server role and all of the Active Directory Federation Services (AD FS) role services installed.

Updated: May 5, 2010

Applies To: Active Directory Federation Services (AD FS) 2.0

Every federation server in an Active Directory Federation Services (AD FS) 2.0 farm must have access to the private key of the server **authentication** certificate. If you are implementing a server farm of federation servers or Web servers, you must have a single **authentication** certificate. This certificate must be issued by an enterprise certification authority (CA), and it must have an exportable private key. The private key of the server **authentication** certificate must be exportable so that it can be made available to all the servers in the farm.

This same concept is true of federation server proxy farms in the sense that all federation server proxies in a farm must share the private key portion of the same server **authentication** certificate.

[http://technet.microsoft.com/en-us/library/dd807097\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/dd807097(v=ws.10).aspx)

QUESTION 11

You need to recommend which type of clustered file server and which type of file share must be used in the Hyper-V cluster that hosts App2. The solution must meet the technical requirements and the security requirements.

Technical Requirements

Datum identifies the following security requirements:

Minimize costs whenever possible.

Minimize the amount of WAN traffic.

Minimize the amount of administrative effort whenever possible.

Provide the fastest possible failover for the virtual machines hosting App2.

Ensure that administrators can view a consolidated report about the software updates in all of the offices.

Ensure that administrators in the Miami office can approve updates for the client computers in all of the offices.

What should you recommend?

- A. A scale-out file server that uses an NFS share
- B. A file server that uses an SMB share
- C. A scale-out file server that uses an SMB share
- D. A file server that uses an NFS share

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Planned Changes	Notification Requirements	Technical Requirements	Security Requirements
<p>A. Datum identifies the following technical requirements:</p> <ul style="list-style-type: none"> Minimize costs whenever possible. Minimize the amount of WAN traffic. Minimize the amount of administrative effort whenever possible. Provide the fastest possible failover for the virtual machines hosting App2. Ensure that administrators can view a consolidated report about the software updates in all of the offices. Ensure that administrators in the Miami office can approve updates for the client computers in all of the offices. 			

Applies To: Windows Server 2012

In Windows Server 2012, the following clustered file servers are available:

- **Scale-Out File Server for application data (Scale-Out File Server)** This clustered file server is introduced in Windows Server 2012 and lets you store server application data, such as Hyper-V virtual machine files, on file shares, and obtain a similar level of reliability, availability, manageability, and high performance that you would expect from a storage area network. All file shares are online on all nodes simultaneously. File shares associated with this type of clustered file server are called scale-out file shares. This is sometimes referred to as active-active.
- **File Server for general use** This is the continuation of the clustered file server that has been supported in Windows Server since the introduction of Failover Clustering. This type of clustered file server, and thus all the shares associated with the clustered file server, is online on one node at a time. This is sometimes referred to as active-passive or dual-active. File shares associated with this type of clustered file server are called clustered file shares.

<http://technet.microsoft.com/en-us/library/hh831349.aspx>

QUESTION 12

You need to recommend a solution to maintain a copy of App2. The solution must meet the application requirements and must minimize additional hardware purchases.

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. App2 will be used by users from a partner company named Trey Research. Trey Research has a single Active Directory domain named treyresearch.com. Treyresearch.com contains a server that has the Active Directory Federation Services server role and all of the Active Directory Federation Services (AD FS) role services installed.

What should you include in the recommendation?

- A. Multi-site Failover Clustering
- B. Hyper-V replicas
- C. Single-site Failover Clustering
- D. Distributed File System (DFS) Replication

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Overview	Existing Environment	Network Infrastructure	Current Issues	Application Requirements
<p>The company is developing an application named Appl. App1 is a multi-tier application that will be sold as a service to customers.</p> <p>Each instance of App1 is comprised of the following three tiers:</p> <ul style="list-style-type: none"> - A web front end - A middle tier that uses Windows Communication Foundation (WCF) - A Microsoft SQL Server 2008 R2 database on the back end <p>Each tier will be hosted on one or more virtual machines. Multiple tiers cannot coexist on the same virtual machine.</p> <p>A. Datum identifies the following notification requirements:</p> <p>When customers purchase App1, they can select from one of the following service levels:</p> <ul style="list-style-type: none"> - 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. <p>All virtual hard disk (VHD) files for App1 will be stored in a file share. The VHDs must be available if a server fails.</p> <p>You plan to deploy an application named App2. App2 is comprised of the following two tiers:</p> <ul style="list-style-type: none"> - A web front end - A dedicated SQL Server 2008 R2 database on the back end <p>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.</p> <p>App2 will be used by users from a partner company named Trey Research. Trey Research has a single Active Directory domain named treyresearch.com. Treyresearch.com contains a server that has the Active Directory Federation Services server role and all of the Active Directory Federation Services (AD FS) role services installed.</p>				

In this course, we will discuss how the System Center 2012 Orchestrator and Service Manager components enable you to deploy, automate, update, and manage service offerings within your private cloud. Microsoft's approach to self-

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.

QUESTION 13

From the Certification Authority console, you enable logging.

You need to ensure that configuration changes to the certification authority (CA) are logged.

Which audit policy should you configure?

- A. Audit policy change
- B. Audit privilege use
- C. Audit system events

D. Audit object access

Correct Answer: D

Section: (none)

Explanation

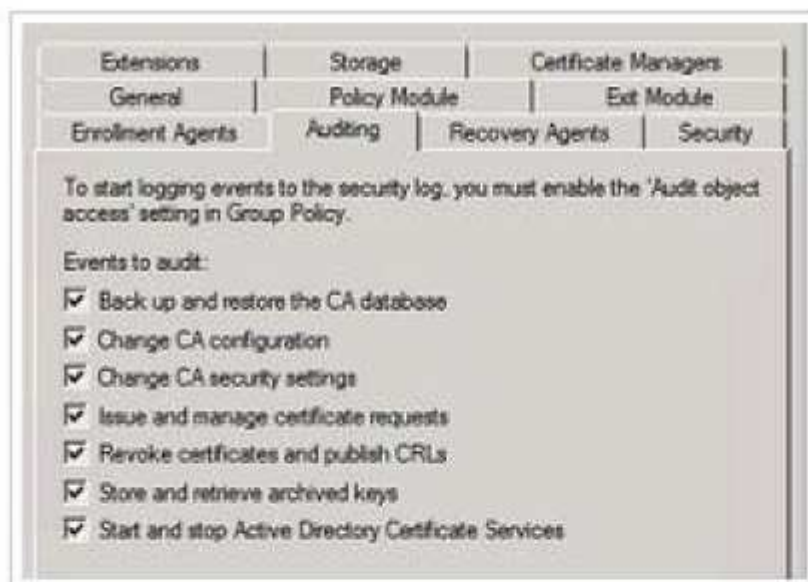
Explanation/Reference:

Planned Changes	Notification Requirements	Technical Requirements	Security Requirements
A. Datum identifies the following security requirements:			
- An offline root certification authority (CA) must be configured.			
- Client computers must be issued certificates by a server in their local office.			
- Changes to the CA configuration settings and the CA security settings must be logged.			
- Client computers must be able to renew certificates automatically over the Internet.			
- The number of permissions and privileges assigned to users must be minimized whenever possible.			
- Users from a group named Group1 must be able to create new instances of App1 in the private cloud.			
- Client computers must be issued new certificates when the computers are connected to the local network only.			
- The virtual machines used to host App2 must use BitLocker Drive Encryption (BitLocker).			
- Users from Trey Research must be able to access App2 by using their credentials from treyresearch.com.			

How to enable Certification Authority Auditing on Windows Server

By default, the Auditing function is not enabled on the CA server. After the auditing is enabled, all the events will be logged in the "Security log". To enable the auditing, I need to modify the following settings.

1. On the CA server, log in as Administrator.
2. Launch "Certification Authority".
3. Right-click the name of the CA, select "Properties".
4. Select "Auditing" tab.
5. Check the events which you want to audit.



6. Click "OK".
7. Launch "Local Group Policy Editor".
8. Expand "Computer Configuration > Windows Settings > Security Settings > Local Policies > Audit Policy".
9. Double-click "Audit **object access**".
10. Check "Success" and "Failure".

<http://terrytislau.tls1.cc/2012/05/how-to-enable-certification-authority.html>



<http://www.gratisexam.com/>