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70-414

Implementing an Advanced Server Infrastructure

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Testlet 1

General Overview

Proseware Inc., is a manufacturing company that has 4,000 employees.

Proseware works with a trading partner named Fabrikam, Inc.

Physical Locations

Proseware has a main office and two branch offices. The main office is located in London. The branch offices are located in Madrid and Berlin. Proseware has a sales department based in the London office and a research department based in the Berlin office.

The offices connect to each other by using a WAN link. Each office connects directly to the Internet.

Proseware rents space at a hosting company. All offices have a dedicated WAN link to the hosting company. Web servers that are accessible from the Internet are located at the hosting company.

Active Directory

The Proseware network contains an Active Directory forest named proseware.com. The forest contains a single domain. The forest functional level is Windows Server 2012.

Each office contains three domain controllers. An Active Directory site is configured for each office.

System state backups are performed every day on the domain controllers by using System Center 2012 R2 Data Protection Manager (DPM).

Virtualization

Proseware has Hyper-V hosts that run Windows Server 2012 R2. Each Hyper-V host manages eight to ten virtual machines. The Hyper-V hosts are configured as shown in the following table.

Server name	Location
HyperV1	London
HyperV2	London
HyperV3	Madrid
HyperV4	Madrid
HyperV5	Berlin
HyperV6	Berlin
HyperV7	Hosting company
HyperV8	Hosting company
VDI1	London
VDI2	London

All of the Hyper-V hosts store virtual machines on direct-attached storage (DAS).

Servers

All servers run Windows Server 2012 R2. All of the servers are virtualized, except for the Hyper-V hosts.

VDI1 and VDI2 use locally attached storage to host virtual hard disk (VHD) files. The VHDs use the .vhd format.

A line-of-business application named SalesApp is used by the sales department and runs on a server named APP1. APP1 is hosted on HyperV2.

A server named CA1 has the Active Directory Certificate Services server role installed and is configured as an enterprise root certification authority (CA) named ProsewareCA.

Ten load-balanced web servers hosted on HyperV7 and HyperV8 run the Internet-facing web site that takes orders from Internet customers.

System Center 2012 R2 Operations Manager is used to monitor the health of the servers on the network.

All of the servers are members of the proseware.com domain, except for the servers located in the perimeter network.

Client Computers

All client computers run either Windows 8.1 or Windows 7. Some of the users in the London office connect to pooled virtual desktops hosted on VDI1 and VDI2.

Problem Statements

Proseware identifies the following issues on the network:

Virtualization administrators report that the load on the Hyper-V hosts is inconsistent. The virtualization administrators also report that administrators fail to account for host utilization when creating new virtual machines.

Users in the sales department report that they experience issues when they attempt to access SalesApp from any other network than the one in the London office.

Sometimes, configuration changes are not duplicated properly across the web servers, resulting in customer ordering issues. Web servers are regularly changed.

Demand for virtual desktops is increasing. Administrators report that storage space is becoming an issue as they want to add more virtual machines.

In the past, some personally identifiable information (PII) was exposed when paper shredding procedures were not followed.

Requirements

Planned Changes

Proseware plans to implement the following changes on the network:

- Implement a backup solution for Active Directory.
- Relocate the sales department to the Madrid office.
- Implement System Center 2012 R2 components, as required.
- Protect email attachments sent to Fabrikam that contain PII data so that the attachments cannot be printed.
- Implement System Center 2012 R2 Virtual Machine Manager (VMM) to manage the virtual machine infrastructure. Proseware does not plan to use private clouds in the near future.
- Deploy a new Hyper-V host named RESEARCH1 to the Berlin office. RESEARCH1 will be financed by the research department. All of the virtual machines deployed to RESEARCH1 will use VMM templates.

Technical Requirements

Proseware identifies the following virtualization requirements:

- The increased demand for virtual desktops must be met.
- Once System Center is deployed, all of the Hyper-V hosts must be managed by using VMM.
- If any of the Hyper-V hosts exceeds a set number of virtual machines, an administrator must be notified by email.
- Network administrators in each location must be responsible for managing the Hyper-V hosts in their respective location. The management of the hosts must be performed by using VMM.
- The network technicians in each office must be able to create virtual machines in their respective office. The network technicians must be prevented from modifying the host server settings.
- New virtual machines must be deployed to RESEARCH1 only if the virtual machine template used to create the machine has a value specified for a custom property named CostCenter' that matches Research'.

The web site configurations must be identical on all web servers.

Security Requirements

Proseware identifies the following security requirements:

- All email messages sent to and from Fabrikam must be encrypted by using digital certificates issued to users by the respective CA of their company. No other certificates must be trusted between the organizations.
- Microsoft Word documents attached to email messages sent from Proseware to Fabrikam must be protected.
- Privileges must be minimized, whenever possible.

QUESTION 1

You need to recommend changes to the existing environment to meet the web server requirement.

Which two actions should you recommend? Each correct answer presents part of the solution.

- A. On one web server, run the Start-DSCConfiguration cmdlet. Create and run a configuration script.
- B. On all of the web servers, install the Windows PowerShell Web Access feature, and then run the Set-DscLocalConfigurationManager cmdlet.
- C. On all of the web servers, configure the Local Configuration Manager settings, and then run the Set-DscLocalConfigurationManager cmdlet.
- D. On one web server, install the Windows PowerShell Desired State Configuration (DSC) feature. Create and run a configuration script.

Correct Answer: CD

Section: [none]

Explanation

Explanation/Reference:

QUESTION 2

You are evaluating the use of VMM to migrate APP1 for the sales users. You need to identify the effects of the migration.

What should you identify?



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- A. The VHDs and the virtual machine configuration files will move. The sales users' access to APP1 will be interrupted.
- B. The VHDs will move but the virtual machine configuration files will remain in the original location. The sales users will continue to have uninterrupted access to APP1.
- C. The virtual machine configuration files will move but the VHDs will remain in the original location. The sales users' access to APP1 will be interrupted.
- D. The VHDs and the virtual machine configuration files will move. The sales users will continue to have uninterrupted access to APP1.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

You need to recommend changes to the existing environment to meet the PII requirement.

What should you recommend?

- A. In the Default Domain Policy, configure auto-enrollment for the S/MIME certificates from ProsewareCA.
- B. Create an AD RMS cluster in Proseware, and then provision the user accounts in Proseware for the Fabrikam users.
- C. Configure Active Directory Federation Services (AD FS) in Fabrikam, and then install a web application proxy in Proseware.
- D. In the Default Domain Policy, configure auto-enrollment for the S/MIME certificates from FabrikamCA.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

You need to ensure that RESEARCH1 only contains the required virtual machines.

What should you do?

- A. Create an availability set.
- B. Create a custom placement rule.
- C. Set RESEARCH1 as a possible owner.

D. Set RESEARCH1 as a preferred owner.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

You need to recommend changes to the existing environment to meet the email requirement.

What should you recommend?

- A. Implement a two-way forest trust that has selective authentication.
- B. Implement qualified subordination.
- C. Deploy the FabrikamCA root certificate to all of the client computers.
- D. Deploy a user certificate from FabrikamCA to all of the users.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 6

You need to implement a solution for the email attachments.

Both organizations exchange root CA certificates and install the certificates in the relevant stores.

You duplicate the Enrollment Agent certificate template and generate a certificate based on the new template.

Which additional two actions should you perform? Each correct answer presents part of the solution.

- A. Request cross-certification authority certificates.
- B. Create Capolicy.inf files.
- C. Request subordinate CA certificates.
- D. Create Policy.inf files.

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

Testlet 1

Overview

Northwind Traders is an IT services and hosting provider.

Northwind Traders has two main data centers in North America. The data centers are located in the same city. The data centers connect to each other by using high-bandwidth, low-latency WAN links. Each data center connects directly to the Internet.

Northwind Traders also has a remote office in Asia that connects to both of the North American data centers by using a WAN link. The Asian office has 30 multipurpose servers.

Each North American data center contains two separate network segments. One network segment is used to host the internal servers of Northwind Traders. The other network segment is used for the hosted customer environments.

Existing Environment

Active Directory

The network contains an Active Directory forest named northwindtraders.com. The forest contains a single domain. All servers run Windows Server 2012 R2.

Server Environment

The network has the following technologies deployed:

- Service Provider Foundation
- Microsoft Azure Pack for Windows Server
- System Center 2012 R2 Virtual Machine Manager (VMM)
- An Active Directory Rights Management Services (AD RMS) cluster
- An Active Directory Certificate Services (AD CS) enterprise certification authority (CA)

All newly deployed servers will include the following components:

- Dual 10-GbE Remote Direct Memory Access (RDMA)-capable network adapters
- Dual 1-GbE network adapters
- 128 GB of RAM

Requirements

Business Goals

Northwind Traders will provide hosting services to two customers named Customer1 and Customer2. The internal network of each customer is configured as shown in the following table.

Infrastructure component	Customer1	Customer2
System Center 2012 R2 Virtual Machine Manager (VMM)	Yes	No
System Center 2012 R2 App Controller	Yes	No
Active Directory Certificate Services (AD CS)	No	No
Active Directory Rights Management Services (AD RMS)	Yes	Yes

Planned Changes

Northwind Traders plans to implement the following changes:

- Deploy System Center 2012 R2 Operations Manager.
- Deploy Windows Server 2012 R2 iSCSI and SMB-based storage.
- Implement Hyper-V Recovery Manager to protect virtual machines.
- Deploy a certificate revocation list (CRL) distribution point (CDP) on the internal network.
- For Customer 1, install server authentication certificates issued by the CA of Northwind Traders on the virtual machine in the hosting networks.

General Requirements

Northwind Traders identifies the following requirements:

- Storage traffic must use dedicated adapters.
- All storage and network traffic must be load balanced.
- The amount of network traffic between the internal network and the hosting network must be minimized.
- The publication of CRLs to CDPs must be automatic.
- Each customer must use dedicated Hyper-V hosts.
- Administrative effort must be minimized, whenever possible.
- All servers and networks must be monitored by using Operations Manager.
- Anonymous access to internal file shares from the hosting network must be prohibited.
- All Hyper-V hosts must use Cluster Shared Volume (CSV) shared storage to host virtual machines.
- All Hyper-V storage and network traffic must remain available if single network adapter fails.
- The Hyper-V hosts connected to the SMB-based storage must be able to make use of the RDMA technology.
- The number of servers and ports in the hosting environment to which the customer has access must be minimized.

Customer1 Requirements

Northwind Traders identifies the following requirements for Customer1:

- Customer1 must use SMB-based storage exclusively.
- Customer1 must use App Controller to manage hosted virtual machines.
- The virtual machines of Customer1 must be recoverable if a single data center fails.

- Customer1 must be able to delegate self-service roles in its hosted environment to its users.
- Customer1 must be able to check for the revocation of certificates issued by the CA of Northwind Traders.
- The users of Customer1 must be able to obtain use licenses for documents protected by the AD RMS of Northwind Traders.
- Certificates issued to the virtual machines of Customer1 that reside on the hosted networks must be renewed automatically.

Customer2 Requirements

Northwind Traders identifies the following requirements for Customer2:

- Customer2 must use iSCSI-based storage exclusively.
- All of the virtual machines of Customer2 must be migrated by using a SAN transfer.
- None of the metadata from the virtual machines of Customer2 must be stored in Microsoft Azure.
- The network configuration of the Hyper-V hosts for Customer2 must be controlled by using logical switches.
- The only VMM network port profiles and classifications allowed by Customer2 must be low-bandwidth, medium-bandwidth, or high-bandwidth.
- The users at Northwind Traders must be able to obtain use licenses for documents protected by the AD RMS cluster of Customer2. Customer2 plans to decommission its AD RMS cluster during the next year.

QUESTION 1

You need to recommend a monitoring solution for Northwind Traders.

What is the best approach to achieve the goal? More than one answer choice may achieve the goal. Select the **BEST** answer..



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- A. Three Operations Manager management servers and two Operations Manager gateway servers
- B. One Operations Manager management server
- C. Two Operations Manager management servers and three Operations Manager gateway servers
- D. Five Operations Manager management servers

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 2

You plan to implement a solution that meets the certificate requirements of Customer1.

You need to identify which role services must be deployed to the hosting environment.

Which two role services should you identify? Each correct answer presents part of the solution.

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

Correct Answer: CD

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

HOTSPOT

You need to recommend a network configuration for the newly deployed Hyper-V hosts used by Customer1.

On which network adapter should you recommend performing each configuration? To answer, select the appropriate network adapter for each configuration in the answer area.

Hot Area:

Answer Area

Create a team:

	▼
1-GbE network adapters	
10-GbE network adapters	

Create a virtual switch and virtual network adapters:

	▼
1-GbE network adapters	
10-GbE network adapters	

Assign IP addresses to the physical adapters:

	▼
1-GbE network adapters	
10-GbE network adapters	

Assign IP addresses to virtual adapters:

	▼
1-GbE network adapters	
10-GbE network adapters	

Correct Answer:

Answer Area

Create a team:

	▼
1-GbE network adapters	
10-GbE network adapters	

Create a virtual switch and virtual network adapters:

	▼
1-GbE network adapters	
10-GbE network adapters	

Assign IP addresses to the physical adapters:

	▼
1-GbE network adapters	
10-GbE network adapters	

Assign IP addresses to virtual adapters:

	▼
1-GbE network adapters	
10-GbE network adapters	

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

HOTSPOT

You need to recommend which setting must be applied to the virtualization infrastructure of Northwind Traders to minimize the impact of multiple virtual machines starting concurrently.

What command should you recommend running? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

(<input type="text"/>)	<input type="text"/>	=	<input type="text"/>
	Get-Cluster		BlockCacheSize		0
	Get-VMHost		ClusSvcReggroupOpeningTimeout		8192
	Set-ClusterParameter		ClusterGroupWaitDelay		Sfalse
	SetVMHost		HangRecoveryAction		Strue

Correct Answer:

Answer Area

(<input type="text"/>)	<input type="text"/>	=	<input type="text"/>
	Get-Cluster		BlockCacheSize		0
	Get-VMHost		ClusSvcReggroupOpeningTimeout		8192
	Set-ClusterParameter		ClusterGroupWaitDelay		Sfalse
	SetVMHost		HangRecoveryAction		Strue

Section: [none]

Explanation

Explanation/Reference:

Testlet 1

Overview

ADatum 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 multiple 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 App1. 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 App1. 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.

Planned Changes

ADatum 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 App1.
- 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).

Notification Requirements

ADatum 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

ADatum 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

ADatum 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.

QUESTION 1

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?

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

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 2

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

Which Certificate Services role services should you recommend?

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



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D. Certificate Enrollment Policy Web Service and Certification Authority Web Enrollment

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

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

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

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

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

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

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

You are evaluating the deployment of a multi-site Hyper-V failover cluster in the Miami office and the Seattle office to host App2.

You need to identify which changes must be made to support the use of the multi-site cluster.

Which changes should you identify?

- A. Configure all of the virtual machines to use dynamic memory. Implement Distributed File System (DFS) Replication and store the virtual machine files in a replicated folder.
- B. Implement Distributed File System (DFS) Replication and store the virtual machine files in a replicated folder. Upgrade the WAN link between the Miami and Seattle offices.
- C. Purchase a storage solution that replicates the virtual machines. Configure all of the virtual machines to use dynamic memory.
- D. Upgrade the WAN link between the Miami and Seattle offices. Purchase a storage solution that replicates the virtual machines.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 6

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.

What should you include in the recommendation?

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

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 7

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.

Solution: You recommend a scale-out file server that uses an SMB share.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 8

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.

Solution: You recommend a scale-out file server that uses an NFS share.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 9

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.

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: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

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

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 App1. 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 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.

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.

References: [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 10

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.

Solution: You recommend a file server that uses an SMB share.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Testlet 1

Background

Overview

Contoso, Ltd., is a software development company. The company has a main office in Seattle and branch offices that are located in Los Angeles and New Delhi. Contoso's sales staff are all located in the Los Angeles office. Contoso's software developers are all located in the New Delhi office.

Current Environment

The network for the Seattle office contains:

- 2 domain controllers with integrated DNS
- 200 Windows workstations
- 1 4-node Hyper-V cluster
- 1 file server with multiple shares
- 1 Active Directory Rights Management Services (AD RMS) cluster

The network for the Los Angeles office contains:

- 2 domain controllers with integrated DNS
- 100 Windows workstations
- 1 file server with multiple shares

The network for the New Delhi office contains:

- 2 domain controllers with integrated DNS
- 300 Windows workstations
- 10 Hyper-V servers that host 100 development virtual machines (VMs)
- 50 production virtual machines that are hosted in Azure

All the Contoso offices connect to each other by using VPN links, and each office is connected to the Internet.

Contoso has a single Active Directory Domain Services (AD DS) domain named contoso.com. Contoso.com has a configured certification authority (CA). Contoso currently leverages System Center Virtual Machine Manager 2012 R2 to manage its virtual environment servers.

Contoso uses an application named HRApp1 for its human resources (HR) department. HR users report that the application stops responding and must be restarted before they can continue their work.

Fabrikam, Inc.

Contoso has recently acquired Fabrikam, Inc. Fabrikam has a single office that is located in Seattle.

Fabrikam has a single AD DS domain named fabrikam.com.

The network for Fabrikam contains:

- 2 domain controllers with Active Directory-integrated DNS
- 150 Windows workstations
- 5 Hyper-V servers

- 1 file server with multiple shares

A two-way trust exists between Contoso.com and Fabrikam.com.

Business Requirements

Consolidation

Contoso must complete the consolidation of the Contoso and Fabrikam networks. The consolidation of the two networks must:

- Minimize all hardware and software costs.
- Minimize WAN traffic.
- Enable the users by providing self-service whenever possible.

Security

Contoso requires that all Windows client devices must be encrypted with BitLocker by using the Trusted Platform Module (TPM) and a personal identification number (PIN). While on the contoso.com network, contoso.com users must not be required to provide the BitLocker PIN during the system startup. However, users must provide the BitLocker PIN when working offline or on a foreign network.

The CA for the domain contoso.com must be designated as the resource forest. The domain fabrikam.com must leverage certificates that are issued by the domain contoso.com.

Other Information

HRApp1

- Each time HRApp1 stops responding and is restarted, an incident must be created and associated with the existing problem ticket.

Development environment

You have the following requirements:

- Developers must be able to manage their own VM checkpoints.
- You must implement a disaster recovery strategy for development virtual machines.

Technical Requirements

Windows System Updates

You have the following system update requirements:

- Consolidate reporting of all software updates in all offices.
- Software updates must be applied to all Windows devices.
- Ensure the ability to report on update compliance.

Monitoring

You have the following monitoring requirements:

- Each time HRApp1 shows performance problems, ensure that a ticket is created.
- When performance problems are resolved, ensure that the ticket closes automatically.

Security

You have the following security requirements:

- Ensure that all documents are protected.
- Ensure that contoso.com domain users get use licenses for RMS-protected documents from the domain contoso.com.
- Ensure that fabrikam.com domain users get use licenses for RMS-protected documents from the domain contoso.com.

QUESTION 1

You need to ensure that the developers can manage their own virtual machines.

Solution: You perform the following actions:

- In Virtual Machine Manager, you create a new user role named DevUsers that uses the Application Administrator profile.
- You grant Checkpoint permissions to the DevUsers role.
- You distribute the Self-Service Portal URL to the developers.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 2

This question consists of two statements: One is named Assertion and the other is named Reason. Both of these statements may be true; both may be false; or one may be true, while the other may be false.

To answer this question, you must first evaluate whether each statement is true on its own. If both statements are true, then you must evaluate whether the Reason (the second statement) correctly explains the Assertion (the first statement). You will then select the answer from the list of answer choices that matches your evaluation of the two statements.

Assertion:

You must implement Azure site recovery between the New Delhi and Seattle offices to meet the backup requirements.

Reason:

Azure site recovery allows replication and failover of virtual machines on host servers that are located in the Virtual Machine Manager cloud.

Evaluate the Assertion and Reason statements and choose the correct answer option.

- A. Both the **Assertion** and **Reason** are true, and the **Reason** is the correct explanation for the **Assertion**.
- B. Both the **Assertion** and **Reason** are true, but the **Reason** is not the correct explanation for the **Assertion**.
- C. The **Assertion** is true, but the **Reason** is false.
- D. The **Assertion** is false, but the **Reason** is true.
- E. Both the **Assertion** and the **Reason** are false.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

This question consists of two statements: One is named Assertion and the other is named Reason. Both of these statements may be true; both may be false; or one may be true, while the other may be false.

To answer this question, you must first evaluate whether each statement is true on its own. If both statements are true, then you must evaluate whether the Reason (the second statement) correctly explains the Assertion (the first statement). You will then select the answer from the list of answer choices that matches your evaluation of the two statements.

Assertion:

You must implement a Windows Server Gateway in the Seattle office.

Reason:

A Windows Server Gateway will prevent users from saving documents outside of the Seattle location.

Evaluate the Assertion and Reason statements and choose the correct answer option.



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- A. Both the **Assertion** and **Reason** are true, and the **Reason** is the correct explanation for the **Assertion**.
- B. Both the **Assertion** and **Reason** are true, but the **Reason** is not the correct explanation for the **Assertion**.
- C. The **Assertion** is true, but the **Reason** is false.
- D. The **Assertion** is false, but the **Reason** is true.
- E. Both the **Assertion** and the **Reason** are false.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

You need to design a solution that meets all of the software update requirements.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Implement System Center Service Manager.
- B. Deploy a configuration baseline to all devices.
- C. Implement System Center Operations Manager.
- D. Implement System Center Configuration Manager.

Correct Answer: BC

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

You need to design a solution that meets the monitoring requirements.

What should you do?

- A. In Operations Manager, create an override for the HR application monitor that will close any open HR application performance tickets in Service Manager.
- B. In Service Manager, create a queue that will open a new ticket or close any existing HR application performance ticket when the performance alert has been resolved in Operations Manager.

- C. In Service Manager, create a workflow that will open a new ticket or close any existing HR application performance ticket when the performance alert has been resolved in Operations Manager.
- D. In Service Manager, create an alert routing rule in the Operations Manager Alert connector that creates a new incident when the HR application produces a performance alert.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Scenario: You have the following monitoring requirements:

- Each time HRApp1 shows performance problems, ensure that a ticket is created.
- When performance problems are resolved, ensure that the ticket closes automatically.

In System Center 2012 – Service Manager, a workflow is a sequence of activities that automate a business process. Workflows can, for example, update incidents when various changes occur.

References: <https://technet.microsoft.com/en-us/library/hh495667.aspx>

QUESTION 6

You need to ensure that the developers can manage their own virtual machines.

Solution: You perform the following actions:

- In Virtual Machine Manager, you create a new user role named **DevUsers** that uses the Application Administrator profile.
- You create and publish a request offering that allows the DevUsers role to create checkpoints.
- You grant Checkpoint permissions to the DevUsers role.
- You distribute the Self-Service Portal to the developers.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Virtual Machine Manager Self-Service Portal

The VMM Self-Service Portal is an optional, Web-based component that a VMM administrator can install and configure to allow users to create and manage their own virtual machines within a controlled environment on a limited group of virtual machine hosts. The VMM administrator creates self-service user roles which determine the scope of the users' actions on their own virtual machines.

To create, operate, and manage virtual machines, self-service users use the Virtual Machine Manager Self-Service Portal. The administrator determines which host groups self-service users can create virtual machines on. When a self-service user creates a virtual machine, the virtual machine is automatically placed on the most suitable host in the host group based on host ratings.

References: <https://technet.microsoft.com/en-us/library/cc764267.aspx>

QUESTION 7

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to ensure that the developers can manage their own virtual machines.

Solution: You perform the following actions:

- In Virtual Machine Manager, you create a new user role named DevUsers that uses the Application Administrator profile.
- You add the virtual machines to the DevUsers role.
- You grant Checkpoint permissions to the DevUsers role.
- You distribute the Virtual Machine Manager console URL to the developers.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 8

You implement cross-forest enrollment between Contoso.com and Fabrikam.com.

You receive version errors when you deploy updated certificates from the Contoso domain to the Fabrikam domain.

You need to ensure that you can deploy the certificates to the fabrikam.com domain.

What should you do?

- A. Run the following Windows PowerShell script:
DumpADObj.ps1 –ForestName fabrikam.com
- B. Run the following Windows PowerShell script:
PKISync.ps1 -sourceforest contoso.com -targetforest fabricam.com -f
- C. Run the following Windows PowerShell command:
Get-CertificationAuthority contoso.com | Get-PendingRequest | Approve-CertificateRequest
- D. Run the following Windows PowerShell command:
Get-CertificationAuthority –Name contoso.com | Get-PolicyModuleFlag | Enable-PolicyModuleFlagEnableOCSPRevNoCheck, DisableExtensionList -RestartCA

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

In cross-forest Active Directory Certificate Services (AD CS) deployments, use DumpADObj.ps1 to troubleshoot certificate enrollment or PKI object synchronization problems.

References: [https://technet.microsoft.com/en-us/library/ff961505\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/ff961505(v=ws.10).aspx)

QUESTION 9

You need to recommend a solution to back up the domain controllers. The solution must meet the technical requirements.

Which three actions should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Select the System state data source in the backup settings.
- B. Select the Bare Metal Recovery data source in the protection settings.
- C. Install the Microsoft System Center 2012 R2 Data Protection Manager (DPM) protection agent on each domain controller.
- D. Configure Windows Server Backup to perform backups of the domain controllers and store the backups in a share on a Microsoft System Center 2012 R2 Data Protection Manager (DPM) server.
- E. Create a new protection group that includes the domain controllers.
- F. Configure Wbadmin to back up the system state data.

Correct Answer: BCE

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/system-center/dpm/back-up-system-state-and-bare-metal?view=sc-dpm-1801>

QUESTION 10

You create a Group Policy object (GPO) that contains the computer configurations for the laptop computers.

You configure the Certificate Services Client – Auto-Enrollment properties as shown in the exhibit. (Click the **Exhibit** button.)



You duplicate the computer certificate template.

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

What should you recommend modifying on the new certificate template?

A. the request handling

- B. the extensions
- C. the issuance requirements
- D. the permissions

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/windows-server/networking/core-network-guide/cncg/server-certs/configure-the-server-certificate-template>

Question Set 1

QUESTION 1

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: [none]

Explanation

Explanation/Reference:

Explanation:

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 (IP-HTTPS)-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

QUESTION 2

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: [none]

Explanation

Explanation/Reference:

QUESTION 3

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

- E. the Microsoft System Center 2012 Service Manager and Microsoft System Center 2012 Configuration Manager collections
- F. the Microsoft System Center 2012 Orchestrator runbooks and Microsoft System Center 2012 Operation Manager management packs
- G. the Microsoft System Center 2012 Service Manager Self-Service Portal and Microsoft System Center 2012 App Controller

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

Your network contains an Active Directory domain named contoso.com. The domain contains 200 servers that run either Windows Server 2012 R2, Windows Server 2012, or Windows Server 2008 R2. The servers run the following enterprise applications:

- Microsoft Exchange Server 2013
- Microsoft SQL Server 2014

System Center 2012 R2 Operations Manager is deployed to the domain. Operations Manager monitors all of the servers in the domain. Audit Collection Services (ACS) is installed.

You need to recommend a monitoring strategy for the domain that meets the following requirements:

- A group of administrators must be notified when an error is written to the System log on the servers that run Exchange Server 2013.
- A group of administrators must be notified when a specific event is written to The Application log on the servers that run SQL Server 2014.

What is the best approach to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.



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- A. From Operations Manager, enable audit collection.
- B. From Operations Manager, implement two monitors.
- C. From Computer Management, implement one event subscription.
- D. From Operations Manager, implement two rules.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

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

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 6

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 all of the 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 Virtual Machine Manager (VMM)
- C. 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.
- D. One Windows Server Update Services (WSUS) server integrated with Microsoft System Center 2012 Configuration Manager and Microsoft System Center 2012 Virtual Machine Manager (VMM)

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 7

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. The solution must use the least amount of administrative effort.

What should you include in the recommendation?

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

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 8

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

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 9

You have a small Hyper-V cluster built on two hosts that run Windows Server 2012 R2 Hyper-V. You manage the virtual infrastructure by using System Center Virtual Machine Manager 2012.

Distributed Key Management is not installed. You have the following servers in the environment:

Server name	Role
DC1	Active Directory Domain Services domain controller
HYPERV1	Hyper-V host with 40 virtual machines
HYPERV2	Hyper-V host with 25 virtual machines
SQL1	SQL Server 2012 database
DPM1	Data Protection Manager (DPM) server
VMM1	Virtual Machine Manager (VMM) 2012
FILESERVER1	File server, shared folders
FILESERVER2	File server, VMM Library Server

You have the following requirements:

- You must back up virtual machines at the host level.
- You must be able to back up virtual machines that are configured for live migration.
- You must be able to restore the entire VMM infrastructure.

You need to design and implement the backup plan.

What should you do?

- A. Run the following Windows PowerShell command: `Checkpoint-VM -Name DPM1 -ComputerName SQL1`
- B. Install the DPM console on VMM1
- C. Configure backup for all disk volumes on FILESERVER1.
- D. Install the VMM console on DPM1.
- E. Configure System State Backup for DC1.
- F. Run the following Windows PowerShell command:
`Get-VM VMM1 | Checkpoint-VM -SnapshotName "VMM backup"`
- G. Run the following Windows PowerShell command:
`Checkpoint-VM -Name DPM1 -ComputerName SQL1`

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 10

You administer a group of servers that run Windows Server 2012 R2.

You must install all updates. You must report on compliance with the update policy on a monthly basis.

You need to configure updates and compliance reporting for new devices.

What should you do?

- A. Deploy the Microsoft Baseline Security Analyzer. Scan the servers and specify the /apply switch.
- B. In Configuration Manager, deploy a new Desired Configuration Management baseline that includes all required updates.
- C. Configure a new group policy to install updates monthly. Deploy the group policy to all servers.
- D. In Operations Manager, create an override that enables the software updates management pack. Apply the new override to the servers.
- E. In Orchestrator, create a software runbook that installs all required updates to the servers on a monthly schedule. Start the runbook
- F. Configure Windows Server Update Service (WSUS) to automatically approve all updates. Configure the servers to use the WSUS server for updates.
- G. In the Service Manager console, add all updates and servers to a new change request. Approve the change request.
- H. Configure a new group policy to install updates monthly. Deploy the group policy to all servers.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The question is asking for reporting only; reporting on “updates and compliance”. A Desired Configuration Management baseline can provide the required reporting.

QUESTION 11

You are an Active Directory administrator for Contoso, Ltd. You have a properly configured certification authority (CA) in the contoso.com Active Directory Domain Services (AD DS) domain. Contoso employees authenticate to the VPN by using a user certificate issued by the CA.

Contoso acquires a company named Litware, Inc., and establishes a forest trust between contoso.com and litwareinc.com. No CA currently exists in the

litwareinc.com AD DS domain. Litware employees do not have user accounts in contoso.com and will continue to use their litwareinc.com user accounts.

Litware employees must be able to access Contoso's VPN and must authenticate by using a user certificate that is issued by Contoso's CA.

You need to configure cross-forest certificate enrollment for Litware users.

Which two actions should you perform? Each correct answer presents part of the solution.



- A. Grant the litwareinc.com AD DS Domain Computers group permissions to enroll for the VPN template on the Contoso CA.
- B. Copy the VPN certificate template from contoso.com to litwareinc.com.
- C. Add Contoso's root CA certificate as a trusted root certificate to the Trusted Root Certification Authority in litware.com.
- D. Configure clients in litwareinc.com to use a Certificate Policy server URI that contains the location of Contoso's CA.

Correct Answer: AC

Section: [none]

Explanation

Explanation/Reference:

QUESTION 12

A company has data centers in Seattle and New York. A high-speed link connects the data centers. Each data center runs a virtualization infrastructure that uses Hyper-V Server 2012 and Hyper-V Server 2012 R2. Administrative users from the Seattle and New York offices are members of Active Directory Domain Services groups named SeattleAdmins and NewYorkAdmins, respectively.

You deploy one System Center Virtual Machine Manager (SCVMM) in the Seattle data center. You create two private clouds named SeattleCloud and NewYorkCloud in the Seattle and New York data centers, respectively.

You have the following requirements:

- Administrators from each data center must be able to manage the virtual machines and services from their location by using a web portal.
- Administrators must not apply new resource quotas or change resource quotas.
- You must manage public clouds by using the existing SCVMM server.
- You must use the minimum permissions required to perform the administrative tasks.

You need to configure the environment.

What should you do?

- A. For both the Seattle and New York admin groups, create a User Role and assign it to the Application Administrator profile. Add the Seattle and New York private clouds to the corresponding User Role.
- B. For both the Seattle and New York admin groups, create a User Role and assign it to the Delegated Administrator profile. Add the Seattle and New York private clouds to the corresponding User Role.
- C. For both the Seattle and New York admin groups, create a User Role and assign it to the Tenant Administrator profile. Add the Seattle and New York private clouds to the corresponding User Role.
- D. Add both SeattleAdmins and NewYorkAdmins to the Local Administrators group of each Hyper-V host in Seattle and New York, respectively.
- E. Install System Center App Controller.
- F. Add both SeattleAdmins and NewYorkAdmins to the Local Administrators group of the SCVMM server.
- G. Add both SeattleAdmins and NewYorkAdmins to the Virtual Machine Manager Servers local security group on SCVMM server.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 13

You administer an Active Directory Domain Services forest that includes an Active Directory Federation Services (AD FS) server and Azure Active Directory. The fully qualified domain name of the AD FS server is adfs.contoso.com.

You must implement single sign-on (SSO) for a cloud application that is hosted in Azure. All domain users must be able to use SSO to access the application.

You need to configure SSO for the application.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Use the Azure Active Directory Synchronization tool to configure user synchronization.
- B. Use the AD FS Configuration wizard to specify the domain and administrator for the Azure Active Directory service.
- C. Create a trust between AD FS and Azure Active Directory.
- D. In the Azure management portal, activate directory synchronization.

Correct Answer: AB

Section: [none]

Explanation

Explanation/Reference:

QUESTION 14

You manage a Hyper-V 2012 cluster by using System Center Virtual Machine Manager 2012 SP1. You need to ensure high availability for business-critical virtual machines (VMs) that host business-critical SQL Server databases.

Solution: You set the memory-weight threshold value to High for each business-critical VM. Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 15

You manage a Hyper-V 2012 cluster by using System Center Virtual Machine Manager 2012 SP1. You need to ensure high availability for business-critical virtual machines (VMs) that host business-critical SQL Server databases.

Solution: You configure preferred and possible owners for each business-critical VM.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 16

You plan to allow users to run internal applications from outside the company's network. You have a Windows Server 2012 R2 that has the Active Directory Federation Services (AD FS) role installed. You must secure on-premises resources by using multi-factor authentication (MFA). You need to design a solution to

enforce different access levels for users with personal Windows 8.1 or iOS 8 devices.

Solution: You migrate the AD FS server to Microsoft Azure and connect it to the internal Active Directory instance on the network. Then, you use the Workplace Join process to configure access for personal devices to the on-premises resources.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 17

You plan to allow users to run internal applications from outside the company's network. You have a Windows Server 2012 R2 that has the Active Directory Federation Services (AD FS) role installed. You must secure on-premises resources by using multi-factor authentication (MFA). You need to design a solution to enforce different access levels for users with personal Windows 8.1 or iOS 8 devices.

Solution: You install a local instance of the MFA Server. You connect the instance to the Microsoft Azure MFA provider and then you use Microsoft Intune to manage personal devices.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 18

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 R2 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 R2 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.

Solution: From Configuration Manager, you create a Collection and a Desired Configuration Management baseline.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 19

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 R2 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 R2 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.

Solution: From Operations Manager, you create a Distributed Application and a Monitor Override.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 20

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

An organization uses an Active Directory Rights Management Services (AD RMS) cluster names RMS1 to protect content for a project. You uninstall AD RMS when the project is complete. You need to ensure that the protected content is still available after AD RMS is uninstalled.

Solution: You run the following Windows PowerShell command:

Set-ItemProperty -Path <protected content>:\ -Name IsDecommissioned -Value \$true –EnableDecommission

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 21

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

An organization uses an Active Directory Rights Management Services (AD RMS) cluster named RMS1 to protect content for a project. You uninstall AD RMS when the project is complete. You need to ensure that the protected content is still available after AD RMS is uninstalled.

Solution: You add the backup service account to the SuperUsers group and back up the protected content. Then, you restore the content to a file server and apply the required NTFS permissions to the files.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 22

You install the Service Manager Self-Service Portal on a server named CONTOSOSSP1.

Users report that they receive access denied messages when they try to connect to the portal. You must grant users the minimum required permissions.

You need to ensure that all users in the Contoso domain can access the Service Manager Self-Service Portal.

What should you do?

- A. In Active Directory, create a new group named PortalUsers. Add the PortalUsers group to the Contoso\Domain Users group, and then add the group to the local users group on CONTOSOSSP1.
- B. Using the account that you used to install the Self-Service portal, grant the Contoso\Domain Users group Read permissions to the portal.
- C. In Service Manager, create a new user role named PortalUsers. Grant the PortalUsers role rights to all catalog items, and then add the Contoso\Domain Users Active Directory Domain Services group to the PortalUsers role.
- D. Using the account that you used to install the Self-Serviceportal, grant the Contoso\Domain Users group Contribute permissions to the portal.



Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 23

HOTSPOT

You need to create a script to deploy DFS replication.

Which Windows PowerShell commands should you add to the script? To answer, select the appropriate Windows PowerShell commands in each list in the answer area.

Hot Area:

```
New-DfsReplicationGroup -GroupName "RG-HR" | New-DfsReplicatedFolder  
-FolderName "HR Data"  
  
New-DfsReplicatedFolder -GroupName "RG-HR" -FolderName "HR Data" |  
New-DfsReplicationGroup -GroupName "RG-HR"
```

```
Add-DfsrMember -GroupName "RG-HR" -ComputerName "DAL-FS1","DAL-FS2"  
Add-DfsrMember -GroupName "RG-HR" -ComputerName "SERVER1","SERVER2"
```

```
Add-DfsrConnection -GroupName "RG-HR" -SourceComputerName "DAL-FS1"  
-DestinationComputerName "DAL-FS2"  
  
Add-DfsrConnection -GroupName "RG-HR" -SourceComputerName "SERVER1"  
-DestinationComputerName "SERVER2"
```

```
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"DAL-FS1" -DestinationComputerName "DAL-FS2"  
  
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"DAL-FS1" -DestinationComputerName "DAL-FS2"  
  
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"SERVER1" -DestinationComputerName "SERVER2"  
  
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"SERVER1" -DestinationComputerName "SERVER2"
```

Correct Answer:

```
New-DfsReplicationGroup -GroupName "RG-HR" | New-DfsReplicatedFolder  
-FolderName "HR Data"  
New-DfsReplicatedFolder -GroupName "RG-HR" -FolderName "HR Data" |  
New-DfsReplicationGroup -GroupName "RG-HR"
```

```
Add-DfsrMember -GroupName "RG-HR" -ComputerName "DAL-FS1","DAL-FS2"  
Add-DfsrMember -GroupName "RG-HR" -ComputerName "SERVER1","SERVER2"
```

```
Add-DfsrConnection -GroupName "RG-HR" -SourceComputerName "DAL-FS1"  
-DestinationComputerName "DAL-FS2"  
Add-DfsrConnection -GroupName "RG-HR" -SourceComputerName "SERVER1"  
-DestinationComputerName "SERVER2"
```

```
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"DAL-FS1" -DestinationComputerName "DAL-FS2"  
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"DAL-FS1" -DestinationComputerName "DAL-FS2"  
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"SERVER1" -DestinationComputerName "SERVER2"  
Set-DfsrConnectionSchedule -GroupName "RG-HR" -SourceComputerName  
"SERVER1" -DestinationComputerName "SERVER2"
```

Section: [none]
Explanation

Explanation/Reference:

QUESTION 24

You plan to implement a two-tier certification authority (CA) hierarchy with an offline root CA. You install the root CA, and then copy the certificate to the server that will become the new issuing CA. You have a file named rootca1_ContosoRootCA.crt that contains the root CA certificate. Client devices in the Active Directory Domain Services (AD DS) domain do not currently trust the root CA.

All clients in the AD DS domain must trust the root CA.

You need to install the issuing CA.

What should you do?

- A. Run the following command from an administrative command prompt: certutil -pulse rootca1_ContosoRootCA.crt TrustedRoot
- B. Run the following command from an administrative command prompt: certutil -dspublish -f rootca1_ContosoRootCA.crt RootCA
- C. On the domain controller, use Windows Explorer to open the rootca1_ContosoRootCA.crt file and add the root CA to the Trusted Root Certification Authorities store.
- D. On the domain controller, use Windows Explorer to open the rootca1_ContosoRootCA.crt file and add the root CA to the Intermediate Certification Authorities store.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

<https://www.experts-exchange.com/articles/701/Certification-Authority-CA-setup-tips-and-tricks.html>

QUESTION 25

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

The network contains a server named Hyper1 that has the Hyper-V server role installed.

Hyper 1 hosts a virtual machine named Computer1.

You deploy a new standalone server named Server8. You install the Hyper-V server role on Server 8.

Another administrator named VMAdmin plans to create a replica of Computer 1 on Server8.

You need to ensure that VMAdmin can configure Server8 to receive a replica of Computer1.

To which group should you add VMAdmin?

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

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 26

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. Create one alias (CNAME) record named Intranet. Map the CNAME record to 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: [none]

Explanation

Explanation/Reference:

Explanation:

We are currently using Round Robin. We therefore have two host (A) records named "intranet" in DNS: one pointing to the IP address of Web1 and one pointing to the IP address of Web2.

To move to Network Load Balancing (NLB), we just need one host (A) record pointing to the NLB cluster IP address. Therefore, the solution is to delete one of the "intranet" host (A) records and point the remaining "intranet" host (A) record to the NLB cluster IP address.

QUESTION 27

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:

- CPU maximum capacity set to 20%
- The product key entered

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.

Which three templates or profiles should you create? Each correct answer presents part of the solution.

- A. a service template
- B. a Hardware Profile
- C. a Guest OS Profile
- D. a capability profile
- E. a VM Template

Correct Answer: BCE

Section: [none]

Explanation

Explanation/Reference:

QUESTION 28

This question consists of two statements: One is named Assertion and the other is named Reason. Both of these statements may be true; both may be false; or one may be true, while the other may be false.

To answer this question, you must first evaluate whether each statement is true on its own. If both statements are true, then you must evaluate whether the Reason (the second statement) correctly explains the Assertion (the first statement). You will then select the answer from the list of answer choices that matches your evaluation of the two statements.

Assertion:

A company can share virtual hard disk files (.vhdx) to create a guest failover cluster without presenting the storage topology to the virtual machines.

Reason:

Failover Cluster Manager creates shared virtual hard disks automatically when you configure a guest failover cluster.

Evaluate the Assertion and Reason statements and choose the correct answer option.

- A. Both the Assertion and Reason are true, and the Reason is the Correct explanation for the Assertion.
- B. Both the Assertion and Reason are true, but the Reason is not the correct explanation for the Assertion.
- C. The Assertion is true, but the Reason is false.
- D. The assertion is false, but the Reason is true.
- E. Both the Assertion and the Reason are false.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 29

Your network contains an Active Directory domain named adatum.com. All servers run Windows Server 2012.

The network contains a Fibre Channel Storage Area Network (SAN) named SAN1.

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

Only the members of Cluster2 can connect to SAN1.

You plan to implement 20 highly available virtual machines on Cluster1. All of the virtual machines must be stored in a single shared folder.

You need to ensure that the VHD files of the virtual machines can be stored on SAN1. VHD files must be available from any node in Cluster2.

What two actions should you take on Cluster2? Each correct answer presents a complete solution.

- A. Configure the clustered File Server role of the File Server for general use.
- B. Add the Storage Services role service.
- C. Add the iSCSI Target Server cluster role.

D. Configure the clustered File Server role of the Scale-Out File Server for application data.

Correct Answer: BD

Section: [none]

Explanation

Explanation/Reference:

QUESTION 30

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. BIOS
- B. Startup RAM
- C. Processor
- D. Integration Services

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 31

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. Create a service locator (SRV) record for each Web server.
- B. Create one alias (CNAME) record named Intranet. Map the CNAME record to Intranet.
- C. Delete one of the host (A) records named Intranet. Modify the remaining host (A) named Intranet.
- D. Create a new host (A) record named Intranet. Remove both host (A) records for Web1 and Web2.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 32

You have an Active Directory domain named adatum.com. All servers run Windows Server 2012.

You have a failover cluster named FC1 that contains two servers named Node1 and Node2. Node1 and Node 2 are connected to an iSCSI Storage Area Network (SAN).

You plan to deploy a shared folder named Share1 to FC1.

You need to recommend which cluster resource must be created to ensure that the shared folder can be accessed from both nodes of FC1 simultaneously.

What should you recommend?

- A. the clustered File Server role of the File Server for general use type
- B. the Generic Application cluster role
- C. the clustered File Server role of the File Server for scale-out application data type
- D. the DFS Namespace Server cluster role

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 33

Your network contains an Active Directory domain named contoso.com. The domain contains multiple servers that run Windows Server 2012. All client computers run Windows 7.

The network contains two data centers.

You plan to deploy one file server to each data center.

You need to recommend a solution to provide redundancy for shared folders if a single data center fails.

What should you recommend?

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

- A. A Distributed File System (DFS) namespace and DFS Replication
- B. Cluster Shared Volumes (CSVs)
- C. The clustered File Server role of the File Server for general use type
- D. The clustered File Server role of the File Server scale-out application data type

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 34

Your network contains an Active Directory domain named adatum.com. The network contains two servers named File1 and File2 that run Windows Server 2012.

File1 has the Multipath I/O (MPIO) feature installed.

File 2 has the iSCSI Target Server role service installed and is configured to have five iSCSI virtual disks.

From the MPIO snap-in on File1, you add support for iSCSI devices.

You need to ensure that File1 can connect to the five iSCSI disks. The solution must ensure that File1 uses MPIO to access the disks.

Which three actions should you perform? Each correct answer presents part of the solution.

- A. On File2, from the iSCSI Initiator Properties, click **Connect**, and then select **Enable multi-path**.
- B. On File1, from the iSCSI Initiator Properties, click **Connect**, and then select **Enable multi-path**.
- C. On File2, add the initiator ID of File1.

- D. On File1, add the initiator ID of File2.
- E. On File1, from the iSCSI initiator Properties, run **Quick Connect**.

Correct Answer: BCE

Section: [none]

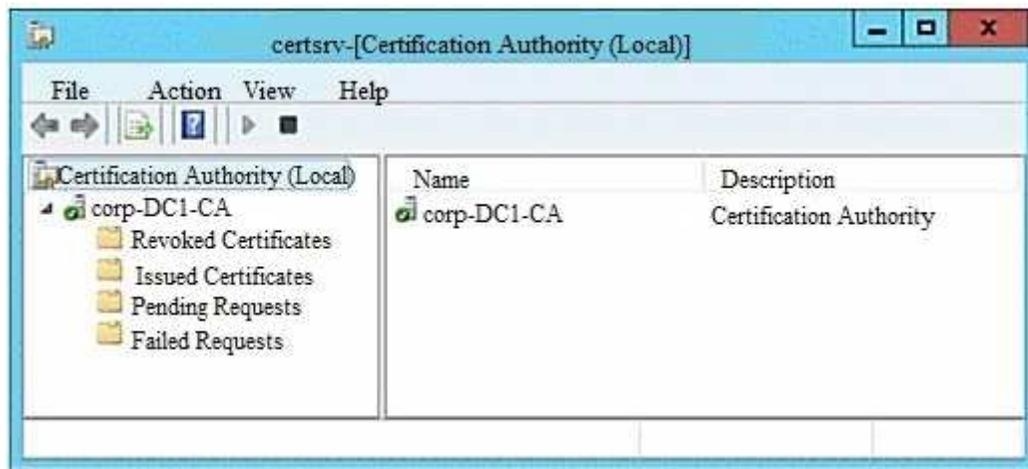
Explanation

Explanation/Reference:

QUESTION 35

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, uninstall, and then reinstall AD CS.
- B. On Server1, install the Certificate Enrollment Policy Web Service role service.
- C. Configure Server2 as a standalone root CA.
- D. On Server1, run the Add-CertificateEnrollmentPolicy cmdlet.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Need to reinstall the CA as an Enterprise CA.

QUESTION 36

Your network contains the following roles and applications:

- Microsoft SQL Server 2012
- File and Storage Services
- Active Directory Domain Services (AD DS)
- Active Directory Certificate Services (AD CS)
- Web Server (IIS)

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. File and Storage Services
- B. AD CS
- C. Microsoft SQL Server 2012
- D. IIS
- E. AD DS

Correct Answer: CE

Section: [none]

Explanation

Explanation/Reference:

QUESTION 37

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 Power Optimization threshold
- C. The Aggressiveness level
- D. The Dynamic Optimization threshold

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 38

Your network contains an Active Directory domain. The domain contains 10 file servers. The file servers connect to a Fibre Channel SAN. You plan to implement 20 Hyper-V hosts in a failover cluster.

The Hyper-V hosts will not have host bus adapters (HBAs).

You need to recommend a solution for the planned implementation that meets the following requirements:

- The virtual machines must support live migration.
- The virtual hard disks (VHDs) must be stored on the file servers.

Which two technologies achieve the goal? Each correct answer presents a complete solution.

- A. Cluster Shared Volume (CSV)
- B. An NFS share
- C. Storage pools
- D. SMB 3.0 shares

Correct Answer: CD

Section: [none]

Explanation

Explanation/Reference:

QUESTION 39

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

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 40

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

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 41

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

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 42

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 Template1 in both System Center 2012 infrastructures.

For self-service users, you create a service offering for Template1. 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. Overwrite the current service template.
- B. Change the name of the service template.
- C. Create a new service template.
- D. Change the release number of the service template.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 43

Your network contains an Active Directory domain named contoso.com. The domain contains four servers on a test network. The servers are configured as shown in the following table.

Server name	Role
Server1	Hyper-V
Server2	File and Storage Services
Server3	File and Storage Services
Server4	File and Storage Services



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

Server1 uses the storage shown in the following table.

Drive name	Type
C	Locally attached IDE disk
D	Locally attached SCSI disk
E	Tiered storage space from locally attached SCSI and SSD drives

You perform the following tasks:

- On Server2, you create an advanced SMB share named Share2A and an applications SMB share named Share2B.
- On Server3, you create an advanced SMB share named Share3.
- On Server4, you create an applications SMB share named Share4.
- You add Server3 and Server4 to a new failover cluster named Clus1.
- On Clus1, you configure the File Server for general use role, you create a quick SMB share named Share5A, and then you create an applications SMB share named Share5B.

You plan to create a failover cluster of two virtual machines hosted on Server1. The clustered virtual machines will use shared .vhdx files.

You need to recommend a location to store the shared .vhdx files.

Where should you recommend placing the virtual hard disk (VHD)?

- A. \\Server3\Share3
- B. \\Server2\Share2B
- C. \\Clus1\Share5B
- D. \\Server4\Share4

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 44

Your company has data centers in Seattle and New York. A high-speed link connects the data centers. Each data center runs a virtualization infrastructure that uses Hyper-V Server 2012 and Hyper-V Server 2012 R2. Administrative users from the Seattle and New York offices are members of Active Directory Domain Services groups named SeattleAdmins and NewYorkAdmins, respectively.

You deploy one System Center Virtual Machine Manager (SCVMM) in the Seattle data center. You create two private clouds named SeattleCloud and NewYorkCloud in the Seattle and New York data centers, respectively.

You have the following requirements:

- Administrators from each data center must be able to manage the virtual machines and services from their location by using a web portal.
- Administrators must not apply new resource quotas or change resource quotas.
- You must manage public clouds by using the existing SCVMM server.
- You must use the minimum permissions required to perform the administrative tasks.

You need to configure the environment.

What should you do?

- A. For both the Seattle and New York admin groups, create a User Role and assign it to the Application Administrator profile. Add the Seattle and New York private clouds to the corresponding User Role.
- B. For both the Seattle and New York admin groups, create a User Role and assign it to the Tenant Administrator profile. Add the Seattle and New York private clouds to the corresponding User Role.
- C. Add both SeattleAdmins and NewYorkAdmins to the Local Administrators group of each Hyper-V host in Seattle and New York, respectively.
- D. Add both SeattleAdmins and NewYorkAdmins to the Local Administrators group of the SCVMM server.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Members of the Application Administrator (Self-Service User) role can create, deploy, and manage their own virtual machines and services by using the VMM console or a Web portal.

QUESTION 45

You have a Windows Server 2012 R2 failover cluster that contains four nodes. The cluster has Dynamic Optimization enabled.

You deploy three highly available virtual machines to the cluster by using System Center 2012 R2 Virtual Machine Manager (VMM).

You need to prevent Dynamic Optimization from placing any of the three virtual machines in the same node.

What should you do?

- A. From the Virtual Machine Manager console, modify the Compatibility settings in the Hardware Configuration properties of the virtual machines.
- B. Set the DefaultOwner property of the virtual machine cluster role.
- C. From the Virtual Machine Manager console, modify the Servicing Windows settings of the virtual machines.
- D. From the Virtual Machine Manager console, modify the Availability settings in the Hardware Configuration properties of the virtual machines.
- E. From the Virtual Machine Manager console, modify the Custom Properties of the virtual machines.
- F. Set the PersistentState property of the virtual machine cluster role.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 46

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. Create a service locator (SRV) record. Map the SRV record to Intranet.
- B. Delete both host (A) records named Intranet. Create a pointer (PTR) record for each Web server.
- C. Remove both host (A) records named Intranet. Create a new host (A) record named Intranet.
- D. Delete both host (A) records named Intranet. Create two new alias (CNAME) records named Intranet. Map each CNAME record to a Web server name.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

We are currently using Round Robin. We therefore have two host (A) records named “intranet” in DNS: one pointing to the IP address of Web1 and one pointing to the IP address of Web2.

To move to Network Load Balancing (NLB), we just need one host (A) record pointing to the NLB cluster IP address. Therefore, the solution is to delete the existing “intranet” host (A) records and create another “intranet” host (A) record pointing to the NLB cluster IP address.

QUESTION 47

DRAG DROP

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.

Select and Place:

Number of Disks

Two disks

Three disks

Four disks

Five disks

Answer Area

VD 1

Number of disks

VD 2

Number of disks

VD 3

Number of disks

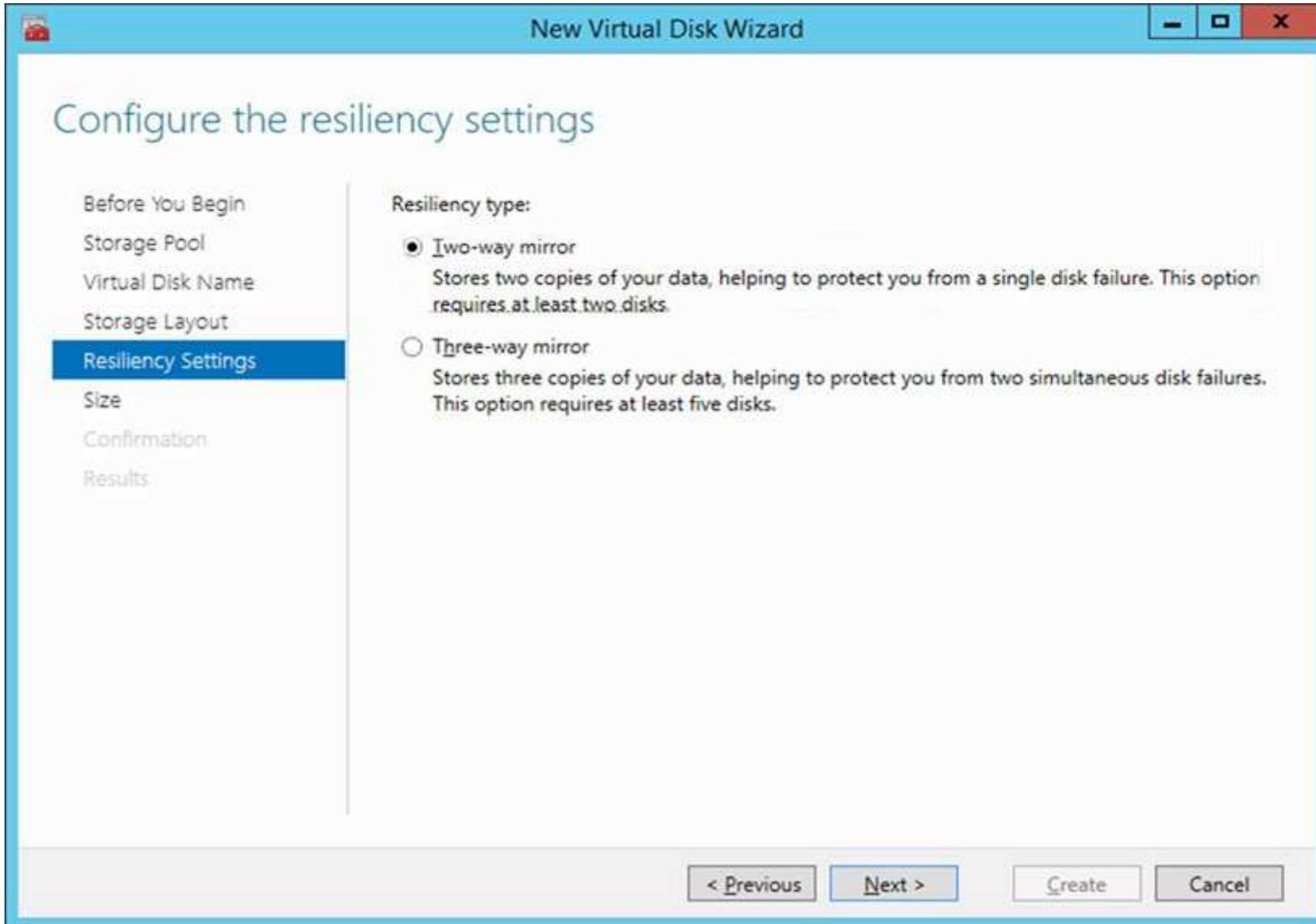
Correct Answer:

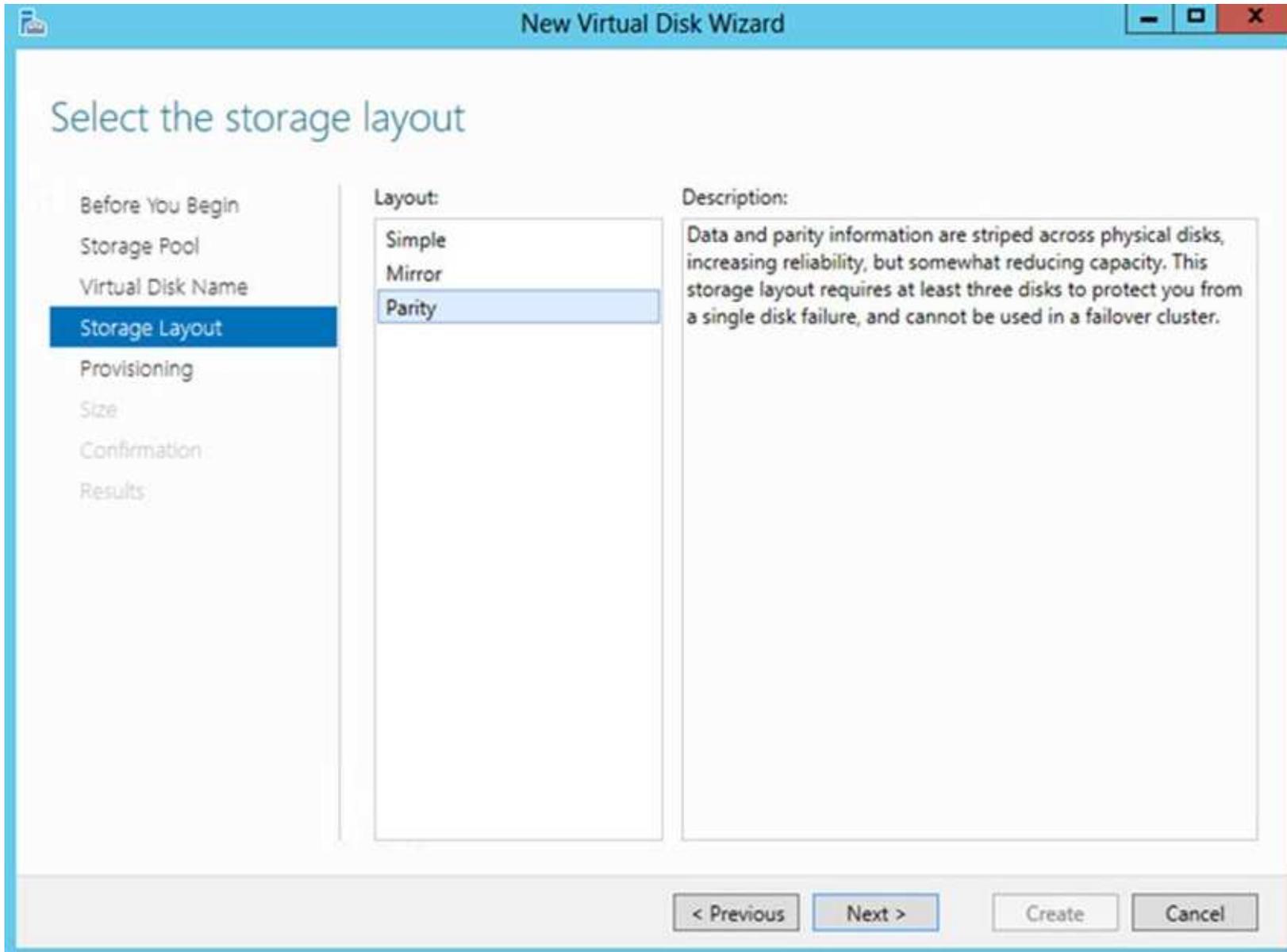
Number of Disks	Answer Area
	VD 1 Two disks
	VD 2 Three disks
Four disks	VD 3 Five disks

Section: [none]
Explanation

Explanation/Reference:
Explanation:

They are not talking about Clusters, a single server only, so a standalone server.





References: <http://technet.microsoft.com/es-es/library/jj822938.aspx>

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

QUESTION 48

Your Active Directory currently contains five virtualized domain controllers that run Windows Server 2012 R2.

The system state of each domain controller is backed up daily. The backups are shipped to a remote location weekly.

Your company recently implemented a disaster recovery site that contains several servers. The servers run Windows Server 2012 R2 and have the Hyper-V server role installed. The disaster recovery site has a high-speed WAN link to the main office.

You need to create an Active Directory recovery plan that meets the following requirements:

- Restores the Active Directory if a catastrophe prevents all access to the main office.
- Minimizes data loss.

What should you include in the plan?

- A. Hyper-V replicas
- B. Live migration
- C. Virtual machine checkpoints
- D. System state restores

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 49

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: [none]

Explanation

Explanation/Reference:

Explanation:

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.

QUESTION 50

Your network contains 500 client computers that run Windows 7 and a custom application named App1. App1 uses data stored in a shared folder.

You have a failover cluster named Cluster1 that contains two servers named Server1 and Server2.

Server1 and Server2 run Windows Server 2012 and are connected to an iSCSI Storage Area Network (SAN).

You plan to move the shared folder to Cluster1.

You need to recommend which cluster resource must be created to ensure that the shared folder can be accessed from Cluster1.

What should you recommend?

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

- A. The Generic Application cluster role
- B. The DFS Namespace Server cluster role
- C. The clustered File Server role of the File Server for general use type
- D. The clustered File Server role of the File Server for scale-out application data type

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 51

Your network contains five servers that run Windows Server 2012 R2.

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 R2. 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.

Solution: From the properties of each virtual machine, you enable MAC address spoofing for the existing virtual network adapter.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 52

Your network contains five servers that run Windows Server 2012 R2.

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 R2. 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.

Solution: On each Hyper-V server, you create a new external virtual network switch. From the properties of each virtual machine, you add a second virtual network adapter and connect the new virtual network adapters to the new external virtual network switches.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 53

Your network contains five servers that run Windows Server 2012 R2.

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 R2. 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.

Solution: On each Hyper-V server, you create a new private virtual network switch. From the properties of each virtual machine, you add a second virtual network adapter and connect the new virtual network adapters to the new private virtual network switches.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 54

Your network contains five servers that run Windows Server 2012 R2.

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 R2. 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.

Solution: From the properties of each virtual machine, you add a second virtual network adapter. You connect the new virtual network adapters to the external virtual network switch and configure the new virtual network adapters to use a VLAN identifier of 2.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 55

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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 R2 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 R2 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.

Solution: From Configuration Manager, you create a Collection and a Desired Configuration Management baseline.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 56

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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 R2 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 R2 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.

Solution: From Virtual Machine Manager (VMM), you modify the properties of the service template.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 57

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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 R2 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 R2 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.

Solution: From Operations Manager, you create a Distributed Application and a Service Level Tracking object.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 58

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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 R2 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 R2 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.

Solution: From Operations Manager, you create a Distributed Application and a Monitor Override.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 59

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.

Solution: You create a copy of the User certificate template, and then you modify the extensions of the copy.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 60

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.

Solution: From the properties of the Basic EFS template, you assign the Allow - Enroll permission to the Authenticated Users group.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 61

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.

Solution: You create a copy of the Basic EFS certificate template, and then you modify the validity period of the copy.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 62

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.

Solution: From the properties of the User certificate template, you assign the Allow - Enroll permission to the Authenticated Users group.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 63

Your network contains an Active Directory forest named contoso.com. The forest contains multiple servers that run Windows Server 2012. The network contains 1,000 client computers that run Windows 7. Two hundred remote users have laptop computers and only work from home.

The network does not provide remote access to users.

You need to recommend a monitoring solution to meet the following requirements:

- Generate a list of updates that are applied successfully to all computers.
- Minimize the amount of bandwidth used to download updates.
- An administrator must approve the installation of an update on any client computer.

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

- A. Microsoft Asset Inventory Service (AIS)
- B. Windows Intune
- C. Windows Server Update Services (WSUS)
- D. Active Directory Federation Services (AD FS)
- E. Microsoft System Center 2012 Service Manager

Correct Answer: ABC

Section: [none]

Explanation

Explanation/Reference:

QUESTION 64

You have an Active Directory domain named adatum.com. The domain contains a Microsoft System Center 2012 infrastructure. All servers run Windows Server 2012.

You have a server named VMM1 that has Virtual Machine Manager (VMM) installed. VMM1 manages 15 Hyper-V hosts.

You deploy a Windows Server Update Services (WSUS) server named WSUS1.

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. Configure the Hyper-V hosts to download Windows updates from WSUS1 by using a Group Policy object (GPO).
- B. Install the WSUS Administration console on VMM1, and then add WSUS1 to the fabric.
- C. Install the Virtual Machine Manager console on WSUS1, and then add WSUS1 to the fabric.
- D. Configure the Hyper-V hosts to download Windows updates from VMM1 by using a Group Policy object (GPO).

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 65

Your network contains an Active Directory domain named contoso.com. The domain contains a System Center 2012 R2 Virtual Machine Manager (VMM) deployment.

The domain contains 20 Hyper-V hosts that run Windows Server 2012 R2. Currently, the computer accounts of all of the Hyper-V hosts are in organizational unit (OU) named Virtualization.

You plan to create two private clouds by using VMM named Cloud1 and Cloud2. The virtual machines for Cloud1 will be hosted on two Hyper-V hosts named Server1 and Server2. The virtual machines for Cloud2 will be hosted on two Hyper-V hosts named Server3 and Server4.

You need to recommend an administrative model for Cloud1 and Cloud2.

Which technology best achieves the goal? More than one answer choice may achieve the goal. Select the BEST answer.



- A. Two sites and two Application Administrator (Self-Service User) user roles
- B. Two host groups and two Application Administrator (Self-Service User) user roles
- C. Two OUs and two Application Administrator (Self-Service User) user roles
- D. Two logical units and two Tenant Administrator user roles

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 66

Your company has three offices. The offices are located in Seattle, London, and Tokyo.

The network contains an Active Directory domain named northwindtraders.com. Each office is configured as an Active Directory site.

System Center 2012 R2 Operations Manager is deployed to the domain. The servers in all three sites are monitored by using Operations Manager.

The company has a web site for its customers. The web site requires users to sign-in.

You need to recommend a solution to monitor the web site.

The solution must meet the following requirements:

- Monitor the availability of the web site from locations in North America, Europe, Asia, and Australia.
- Monitor multi-step requests to the web site.
- Use a central console for monitoring.

What should you include in the recommendation?

- A. Import the System Center Global Services Monitoring Management Pack and add the Web Application Availability Monitoring monitoring type.
- B. Add the Web Application Transaction monitoring type and configure watcher nodes.
- C. Add the TCP Port monitoring type and configure watcher nodes.
- D. Import the System Center Global Services Monitor Management Pack and add the Visual Studio Web Test Monitoring monitoring type.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 67

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

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 68

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: [none]

Explanation

Explanation/Reference:

QUESTION 69

You have a System Center 2012 R2 Configuration Manager deployment.

All users have client computers that run Windows 8.1. The users log on to their client computers as standard users.

An application named App1 is deployed to the client computers by using System Center.

You need to recommend a solution to validate a registry key used by App1. If the registry key has an incorrect value, the value must be changed. The registry key must be validated every day. The solution must generate a report on non-compliant computers.

What is the best approach to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Group Policy preferences
- B. A desired configuration baseline
- C. The Windows PowerShell Desired State Configuration (DSC) feature
- D. The Microsoft Baseline Security Analyzer (MBSA)

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 70

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

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 71

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 four actions should you take? Each correct answer presents part of the solution.

- 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: [none]

Explanation

Explanation/Reference:

QUESTION 72

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 NTFS 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: [none]

Explanation

Explanation/Reference:

QUESTION 73

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
- B. BIOS
- C. Integration Services
- D. Processor

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 74

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

Your company works with a partner company that has an Active Directory forest named fabrikam.com. Both forests contain domain controllers that run only Windows Server 2012 R2.

The certification authority (CA) infrastructure of both companies is configured as shown in the following table.

Forest	Server name	Role
Contoso.com	Server1	Issuing enterprise root CA
Fabrikam.com	Server2	Offline root CA
Fabrikam.com	Server3	Enterprise issuing CA

You need to recommend a certificate solution that meets the following requirements:

- Server authentication certificates issued from fabrikam.com must be trusted automatically by the computers in contoso.com.
- The computers in contoso.com must not trust automatically any other type of certificates issued from the CA hierarchy in fabrikam.com.

What should you include in the recommendation?

- Deploy a Group Policy object (GPO) that defines intermediate CAs. Import a certificate that has an application policy object identifier (OID) of CA Encryption Certificate.
- Deploy a Group Policy object (GPO) that defines an enterprise trust. Import a certificate that has an application policy object identifier (OID) of Microsoft Trust List Signing.
- Deploy a Group Policy object (GPO) that defines an enterprise trust. Import a certificate that has an application policy object identifier (OID) of CA Encryption Certificate.
- Deploy a Group Policy object (GPO) that defines intermediate CAs. Import a certificate that has an application policy object identifier (OID) of Microsoft Trust List Signing.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 75

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

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 76

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

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 77

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. All servers run Windows Server 2012 R2.

You need to identify which 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. The Windows Identity Foundation 3.5 feature

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

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.
- If the AD FS configuration database will be stored in an 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.

QUESTION 78

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 and minimize administrative effort.

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 Enterprise Trust store by using Group Policy objects (GPOs).
- C. Implement cross-certification in each company.
- D. 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).

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 79

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.

What should you recommend installing?

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

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 80

HOTSPOT

Your network contains an Active Directory domain named contoso.com. All servers run Windows Server 2012 R2. System Center 2012 R2 Virtual Machine Manager (VMM) is deployed to the domain.

In VMM, you create a host group named HostGroup1. You add a 16-node Hyper-V failover cluster to HostGroup1. From Windows PowerShell, you run the following commands:

```

PS C:\> $HostGroup = Get-SCVMHostGroup "HostGroup1"
PS C:\> $DoConfig = Get-SCDynamicOptimizationConfiguration -VMHostGroup $HostGroup
PS C:\> $PORange = Get-SCPowerOptimizationRange -DynamicOptimizationConfiguration $DoConfig
PS C:\> $DoConfig | ft Automatic,Aggressiveness,FrequencyMinutes,EnablePowerOptimization,Name,ReadOnly,ConnectedHostGroup

```

```

Automatic Aggressiveness FrequencyMinu EnablePowerOp Name ReadOnly ConnectedHost
          tes timization Group
-----
True 5 10 False HostGroup1 False All Hosts\...

```

```

PS C:\> Get-SCHostReserve -VMHostGroup $HostGroup | ft CPUReserveOff,CPUPlacementLevel,CPUStartOptimizationLevel,MemoryReserveOff,MemoryReserveMode,MemoryPlacementLevel,MemoryStartOptimizationLevel

```

```

CPUReserveOff CPUPlacementLe CPUStartOptim MemoryReserve MemoryReserve MemoryPlaceme MemoryStartOp
vel izationLevel Off Mode ntLevel timizationLev
el
-----
False 50 40 False Megabyte 6144 4096

```

```

PS C:\> $PORange | ft DayOfWeek,BeginHour,EndHour,Name,ObjectType

```

```

DayOfWeek BeginHour EndHour Name ObjectType
-----
Friday 0 23 HostGroup1 ...ptimizationRange
Saturday 0 23 HostGroup1 ...ptimizationRange
Tuesday 0 23 HostGroup1 ...ptimizationRange
Thursday 0 23 HostGroup1 ...ptimizationRange
Wednesday 0 23 HostGroup1 ...ptimizationRange
Sunday 0 23 HostGroup1 ...ptimizationRange

```

Use the drop-down menus to select the answer choice that completes each statement.

Hot Area:

Answer Area

If node utilization is 5 percent on Tuesday, the node will **[answer choice]**

remain on
be turned off
be put into drain mode

The hosts will **[answer choice]**

never be considered for optimization
only be considered for optimization if the memory is less than 4,096 MB
only be considered for optimization if the memory is less than 6,144 MB

Correct Answer:

Answer Area

If node utilization is 5 percent on Tuesday, the node will **[answer choice]**

remain on
be turned off
be put into drain mode

The hosts will **[answer choice]**

never be considered for optimization
only be considered for optimization if the memory is less than 4,096 MB
only be considered for optimization if the memory is less than 6,144 MB

Section: [none]
Explanation

Explanation/Reference:

QUESTION 81

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

Only the members of Cluster1 can connect to the SAN.

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: AD

Section: [none]

Explanation

Explanation/Reference:

QUESTION 82

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, implement Hyper-V replicas.
- C. From Microsoft System Center 2012 Data Protection Manager, implement a protection group.
- D. From Hyper-V Manager, create snapshots of the virtual machines.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 83

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

You plan to implement Network Load Balancing (NLB).

You need to identify which network services and applications can be load balanced by using NLB.

Which three services and applications should you identify?

- A. Microsoft SQL Server 2012 Reporting Services
- B. Microsoft Exchange Server 2010 Client Access servers
- C. A DHCP server
- D. Microsoft Exchange Server 2010 Mailbox server
- E. file servers
- F. Microsoft SharePoint Server 2010 front-end Web server

Correct Answer: ABF

Section: [none]

Explanation

Explanation/Reference:

QUESTION 84

DRAG DROP

Your network contains an Active Directory domain named adatum.com. All servers run Windows Server 2012.

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 30 Hyper-V hosts in a host group named HG1.

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

Group name	Requirement
Group1	Must only be able to view the status of the hosts in HG1.
Group2	Must be able to manage all of the hosts in all of the host groups.
Group3	Must only be able to manage the virtual machines hosted in HG1.
Group4	Must only be able to manage the virtual machines that the group creates.

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.

Select and Place:

User roles

- Administrators
- Delegated Administrators
- Read-only Administrators
- Self-Service Users

Answer Area

Group1

User role

Group2

User role

Group3

User role

Group4

User role

Correct Answer:

User roles

Answer Area

Group1

Read-only Administrators

Group2

Administrators

Group3

Delegated Administrators

Group4

Self-Service Users

Section: [none]

Explanation

Explanation/Reference:

QUESTION 85

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

- VMWare ESX
- Citrix XenServer
- System Center 2012
- Windows Server 2003
- Microsoft SQL Server 2008 R2
- 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 three updates should you identify? Each correct answer presents part of the solution.

- A. VMWare ESX
- B. Windows Server 2003
- C. SharePoint Server 2010
- D. Citrix XenServer
- E. System Center 2012
- F. SQL Server 2008 R2

Correct Answer: BDE

Section: [none]

Explanation

Explanation/Reference:

QUESTION 86

Your network contains the following roles and applications:

- Web Server (IIS)
- File and Storage Services
- Microsoft SQL Server 2008 R2
- Active Directory Domain Services (AD DS)
- Active Directory Certificate Services (AD CS)

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.

Which two services or applications should you identify? Each correct answer presents a complete solution.

- A. AD DS
- B. AD CS
- C. File and Storage Services
- D. Microsoft SQL Server 2008 R2
- E. IIS

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/technical-reference/the-role-of-attribute-stores#attribute-stores-that-are-supported-by-ad-fs>

QUESTION 87

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.



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

- A. Cluster-Aware Updating (CAU) self-updating and downloaded updates from Windows Server Update Services (WSUS)
- B. Microsoft System Center 2016 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 Configuration Manager (Current Branch) integrated with Windows Server Update Service (WSUS)

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 88

Your network contains an Active Directory domain named contoso.com. The domain contains 20 servers that run Windows Server 2012 R2. The domain contains a

Microsoft System Center 2012 R2 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: [none]

Explanation

Explanation/Reference:

Explanation:

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 access 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, defines in Configuration Manager, and defines externally, and that you then import into Configuration Manager. Or, an administrative user can create new configuration items and configuration baselines.

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

QUESTION 89

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: [none]

Explanation

Explanation/Reference:

Explanation:

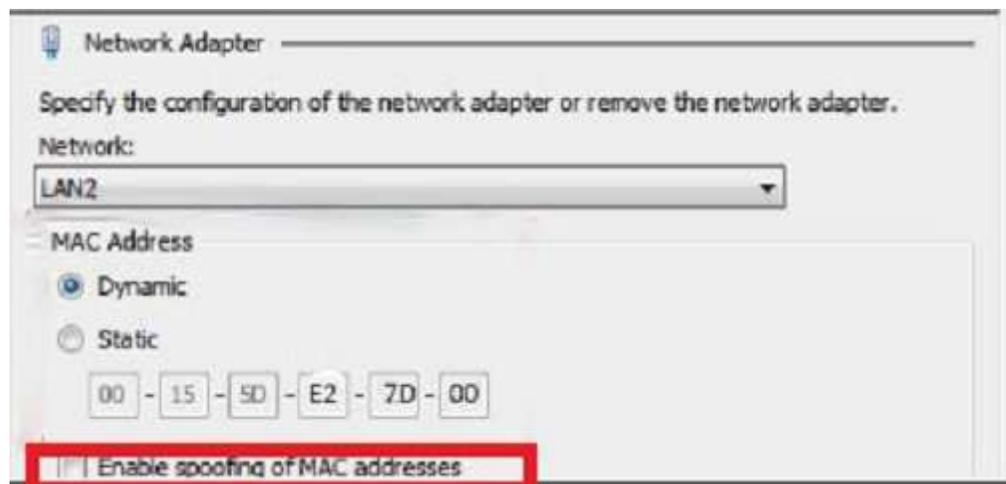
MAC spoofing

The changing of the assigned MAC address may allow the bypassing of access control lists on servers or routers, either hiding a computer on a network or allowing it to impersonate another network device.

A user may wish to legitimately spoof the MAC address of a previous hardware device in order to reacquire connectivity after hardware failure.

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 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 VMI 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.



References: <http://blogs.technet.com/b/jhoward/archive/2009/05/21/new-in-hyper-v-windows-server-2008-r2-part-2-macspoofing.aspx>

QUESTION 90

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 checkpoint 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 R2 Virtual Machine Manager (VMM), create a copy of VM1.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Backing Up Hyper-V Virtual Machines Using Windows Server Backup

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 enabled Hyper-V in WSB).

References: <http://blogs.msdn.com/b/taylorb/archive/2008/08/20/backing-up-hyper-v-virtual-machines-usingwindowsserver-backup.aspx>

QUESTION 91

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. 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?

Network adapter name	Network
NIC1	LAN1
NIC2	LAN1
NIC3	LAN2

- 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: [none]

Explanation

Explanation/Reference:

QUESTION 92

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 R2 Service Pack 1 (SP1)	C: 100 GB D: 3 TB	8 GB	X64
Server2	Windows Server 2003 R2 Service Pack 2 (SP2)	C: 100 GB D: 4 TB	2 GB	X86
Server3	Windows Server 2008 R2 Service Pack 1 (SP1)	C: 500 GB D: 2.5 TB	8 GB	X64
Server4	Windows Server 2012	C: 75 GB D: 2 TB	16 GB	X64
Server5	Windows Server 2003 R2 Service Pack 2 (SP2)	C: 50 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: DE

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The physical computer to be converted cannot have any volumes larger than 2040 GB.

References:

[https://technet.microsoft.com/en-us/library/hh427286\(v=sc.12\).aspx](https://technet.microsoft.com/en-us/library/hh427286(v=sc.12).aspx)

[https://technet.microsoft.com/en-us/library/hh427293\(v=sc.12\).aspx](https://technet.microsoft.com/en-us/library/hh427293(v=sc.12).aspx)

QUESTION 93

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: [none]

Explanation

Explanation/Reference:

Explanation:

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 the 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 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 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.

References: <http://technet.microsoft.com/en-us/library/bb381373.aspx>

QUESTION 94

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: [none]

Explanation

Explanation/Reference:

Explanation:

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. 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 95

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 R2 Operations Manager agent Configuration Manager agent
VM2	Windows Server 2012 R2 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: [none]

Explanation

Explanation/Reference:

Explanation:

- 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.

QUESTION 96

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: [none]

Explanation

Explanation/Reference:

Explanation:

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 necessary 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 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 OCSP Response Signing certificates, and the Online Responder snap-in to create a revocation configuration.

QUESTION 97

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: [none]

Explanation

Explanation/Reference:

Explanation:

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.

QUESTION 98

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: [none]

Explanation

Explanation/Reference:

Explanation:

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 an email-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 RMS-protected content published by that cluster. Whether you use an existing distribution group or create a distribution group and 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.

Note: 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.

QUESTION 99

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: BCD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Windows Server 2012 DHCP provides a new high availability mechanism addressing these critical aspects. Two 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 the 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.

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.

QUESTION 100

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: [none]

Explanation

Explanation/Reference:

Explanation:

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.

QUESTION 101

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'

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: [none]

Explanation

Explanation/Reference:

Explanation:

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

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.

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

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

QUESTION 102

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

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

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

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

What should you recommend?

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

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Configuring Dynamic Optimization and Power Optimization in VMM

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

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

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

VMM can help to save power in a virtualized environment by turning off hosts when they are not needed and turning the hosts back on when they are needed.

References: <http://searchsystemschannel.techtarget.com/feature/Using-Microsoft-Cluster-Services-for-virtualmachineclustering>

QUESTION 103

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:

Explanation:

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.

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.

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

QUESTION 104

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: [none]

Explanation

Explanation/Reference:

Explanation:

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.

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

QUESTION 105

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: [none]

Explanation

Explanation/Reference:

Explanation:

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.

QUESTION 106

Your network contains an Active Directory domain named contoso.com. The domain contains Server 2012 R2 and has the Hyper-V server role installed.

You need to log the amount of system resources used by each virtual machine.

What should you do?

- A. From Windows PowerShell, run the Enable-VMResourceMetering cmdlet.
- B. From Windows System Resource Manager, enable Accounting.
- C. From Windows System Resource Manager, add a resource allocation policy.
- D. From Windows PowerShell, run the Measure-VM cmdlet.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The Enable-VMResourceMetering cmdlet collects resource utilization data for a virtual machine or resource pool.

QUESTION 107

Your network contains an Active Directory domain named contoso.com. The domain contains a member server named HVServer1. HVServer1 runs Windows Server 2012 R2 and has the Hyper-V server role installed. HVServer1 hosts 10 generation 1 virtual machines. All of the virtual machines connect to a virtual switch named Switch1. Switch1 is configured as a private network. All of the virtual machines have the DHCP guard and the router guard settings enabled.

You install the DHCP server role on a virtual machine named Server1. You authorize Server1 as a DHCP server in contoso.com. You create an IP scope. You discover that the virtual machines connected to Switch1 do not receive IP settings from Server1.

You need to ensure that the virtual machines can use Server1 as a DHCP server.

What should you do?

- A. Enable MAC address spoofing on Server1.
- B. Enable single-root I/O visualization (SR-IOV) on Server1.
- C. Disable the DHCP guard on Server1.
- D. Disable the DHCP guard on all of the virtual machines that are DHCP clients.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

DHCP guard setting

This setting stops the virtual machine from making DHCP offers over this network interface.

To be clear this does not affect the ability to receive a DHCP offer (i.e. if you need to use DHCP to acquire an IP address that will work) it only blocks the ability for the virtual machine to act as a DHCP server.

QUESTION 108

You have a server named Server1 that runs Windows Server 2012 R2. You plan to enable Hyper-V Network Virtualization on Server1. You need to install the Windows Network Virtualization Filter Driver on Server1.

Which Windows PowerShell cmdlet should you run?

- A. Set-NetVirtualizationGlobal
- B. Enable-NetAdapterBinding
- C. Add - WindowsFeature
- D. Set-NetAdapterVmq

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Hyper-V Network Virtualization runs multiple virtual networks on a physical network. And each virtual network operates as if it is running as a physical network.

The The Set-NetAdaptercmdlet sets the basic properties of a network adapter such as virtual LAN (VLAN) identifier (ID) and MAC address.

Thus if you add the binding parameter to the command then you will be able to install the Windows Network Virtualization Filter Driver.

Step one: Enable Windows Network Virtualization (WNV). This is a binding that is applied to the NIC that your External Virtual Switch is bound to.

This can be a physical NIC, it can be an LBFO NIC team. Either way, it is the network adapter that your External Virtual Switch uses to exit the server.

This also means that if you have multiple virtual networks or multiple interfaces that you can pick and choose and it is not some global setting.

If you have one External Virtual Switch this is fairly easy:

```
$vSwitch = Get-VMSwitch -SwitchType External# Check if Network Virtualization is bound# This could be done by checking for the binding and seeing if it is
```

```
enabledForEach-Object - InputObject $vSwitch {if ((Get-NetAdapterBinding -ComponentID "ms_netwnv" -
```

```
InterfaceDescription$_.NetAdapterInterfaceDescription).Enabled -eq $false){ # Lets enable itEnable-NetAdapterBinding -InterfaceDescription
```

```
$.NetAdapterInterfaceDescription - ComponentID "ms_netwv"}}
```

QUESTION 109

Your network contains an Active Directory domain named contoso.com. You install Windows Server 2012 R2 on a new server named Server1 and you join Server1 to the domain. You need to ensure that you can view processor usage and memory usage information in Server Manager.

What should you do?

- A. From Server Manager, click Configure Performance Alerts.
- B. From Performance Monitor, create a Data Collector Set (DCS).
- C. From Performance Monitor, start the System Performance Data Collector Set (DCS).
- D. From Server Manager, click Start Performance Counters.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You should navigate to the Server Manager snap-in and there click on All Servers, and then Performance Counters. The Performance Counters, when started can be set to collect and display data regarding processor usage, memory usage, amongst many other resources like disk- related and security related data, that can be monitored.

References: <http://technet.microsoft.com/en-us/library/bb734903.aspx>

QUESTION 110

Your network contains an Active Directory domain named contoso.com. The domain contains a server named Server1 that runs Windows Server 2012 R2. Server1 has the Hyper-V server role installed. The domain contains a virtual machine named VM1. A developer wants to attach a debugger to VM1.

You need to ensure that the developer can connect to VM1 by using a named pipe.

Which virtual machine setting should you configure?

- A. BIOS
- B. Network Adapter
- C. COM 1
- D. Processor

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Named pipes can be used to connect to a virtual machine by configuring COM 1.

References:<http://support.microsoft.com/kb/819036>

<http://support.microsoft.com/kb/141709>

QUESTION 111

Your network contains an Active Directory domain named contoso.com. The domain contains two member servers named Server1 and Server2. All servers run Windows Server 2012 R2.

Server1 and Server2 have the Failover Clustering feature installed.

The servers are configured as nodes in a failover cluster named Cluster1. Cluster1 has access to four physical disks. The disks are configured as shown in the following table.

You need to ensure that all of the disks can be added to a Cluster Shared Volume (CSV).

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Enable BitLocker on Disk4.
- B. Disable BitLocker on Disk1.
- C. Format Disk2 to use NTFS.
- D. Format Disk3 to use NTFS.

Correct Answer: CD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You cannot use a disk for a CSV that is formatted with FAT, FAT32, or Resilient File System (ReFS).

QUESTION 112

Your network contains three servers named HV1, HV2, and Server1 that run Windows Server 2012 R2. HV1 and HV2 have the Hyper-V server role installed.

Server1 is a file server that contains 3 TB of free disk space.

HV1 hosts a virtual machine named VM1. The virtual machine configuration file for VM1 is stored in D:\VM and the virtual hard disk file is stored in E:\VHD.

You plan to replace drive E with a larger volume. You need to ensure that VM1 remains available from HV1 while drive E is being replaced. You want to achieve this goal by using the minimum amount of administrative effort.

What should you do?

- A. Perform a live migration to HV2.
- B. Add HV1 and HV2 as nodes in a failover cluster. Perform a storage migration to HV2.
- C. Add HV1 and HV2 as nodes in a failover cluster. Perform a live migration to HV2.
- D. Perform a storage migration to Server1.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 113

You have a Hyper-V host named Server1 that runs Windows Server 2012 R2. Server1 hosts 50 virtual machines that run Windows Server 2012 R2.

Your company uses smart cards for authentication. You need to ensure that you can use smart card authentication when you connect to the virtual machine by using Virtual Machine Connection.

What should you configure?



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

- A. The NUMA Spanning settings
- B. The RemoteFX settings
- C. The Enhanced Session Mode Policy
- D. The Integration Services settings

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 114

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 R2.

All servers have the Hyper-V server role and the Failover Clustering feature installed.

You need to replicate virtual machines from Cluster1 to Cluster2.

Which three actions should you perform? (Each correct answer presents part of the solution. Choose three.)

- A. From Hyper-V Manager on a node in Cluster2, create three virtual machines.
- B. From Cluster2, add and configure the Hyper-V Replica Broker role.
- C. From Failover Cluster Manager on Cluster1, configure each virtual machine for replication.
- D. From Cluster1, add and configure the Hyper-V Replica Broker role.
- E. From Hyper-V Manager on a node in Cluster2 modify the Hyper-V settings.

Correct Answer: BCD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

These are two clusters, to replicate any VM to a cluster you need to configure the Replica Broker role on each cluster the last step should be enabling replication on the VMs.

QUESTION 115

A company has offices in Seattle and Shanghai. You use Hyper-V Server 2012 R2 as the server virtualization platform. Each office has a secured server room where all the servers are located. Eighty percent of the company's servers are virtual. The company signs a data center services agreement with a vendor that is located in New York. The agreement includes a 1 GB per second link to the collocation facility in New York.

The link between the Seattle and Shanghai offices is slow and unreliable. You must design and implement a cost-effective data recovery solution to replicate virtual servers from Seattle to both the New York and Shanghai locations.

The solution must support the following requirements:

- Perform failover replication from Seattle to New York.
- Perform scheduled replication between as many locations as possible.
- In case of a disaster, a fast failover should be possible to the replicated servers with minimal changes required to the existing infrastructure.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Use Hyper-V Replica unplanned failovers.
- B. Configure the Seattle Hyper-V server as the primary replica server and the Shanghai Hyper-V server as the secondary replica server.
- C. Use Hyper-V Replica planned failovers.
- D. Configure the Seattle Hyper-V server as the primary replica server and the New York Hyper-V server as the secondary replica server.

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

A: Unplanned Failover is an operation initiated on the replica VM when the primary VM/site is hit by a disaster.

Incorrect Answers:

B: We should not use Shanghai as the secondary replica server as the link between the Seattle and Shanghai offices is slow and unreliable.

C: We must protect against disaster, so we cannot use planned failovers.

References: Types of failover operations in Hyper-V Replica—Part III - Unplanned Failover

<http://blogs.technet.com/b/virtualization/archive/2012/08/08/types-of-failover-operations-in-hyper-v-replica-part-iii-unplanned-failover.aspx>

QUESTION 116

Your network contains servers that run only Windows Server 2012.

You have five storage pools. The storage pools are configured as shown in the following table.

Storage pool name	Contents
StoragePool1	<ul style="list-style-type: none"> • Two SATA disks • One SAS disk
StoragePool2	<ul style="list-style-type: none"> • Two iSCSI disks • One USB disk
StoragePool3	<ul style="list-style-type: none"> • Five SAS disks • Two iSCSI disks
StoragePool4	<ul style="list-style-type: none"> • Three SAS disks
StoragePool5	<ul style="list-style-type: none"> • Two iSCSI disks

You need to identify which storage pools can be used as clustered disk resources.

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

- A. StoragePool1
- B. StoragePool2
- C. StoragePool3
- D. StoragePool4
- E. StoragePool5

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The clustered storage pool MUST be comprised of Serial Attached SCSI (SAS) connected physical disks.

Note: SAS, Serial Attached SCSI, is an evolution of parallel SCSI into a point-to-point serial peripheral interface in which controllers are linked directly to disk drives.

Incorrect Answers:

B, C, E: iSCSI and Fibre Channel controllers are not supported.

References: <https://technet.microsoft.com/en-us/library/jj822937.aspx>

QUESTION 117

An organization uses an Active Directory Rights Management Services (AD RMS) cluster named RMS1 to protect content for a project. You uninstall AD RMS when the project is complete. You need to ensure that the protected content is still available after AD RMS is uninstalled.

Solution: You run the following command from an administrative command prompt:

```
cipher /a /d /s:<protected share name>
```

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

If you plan to remove Active Directory Rights Management Services from your organization, you should first decommission the AD RMS cluster. This allows your AD RMS users to remove AD RMS protection from existing content. If you uninstall AD RMS without first decommissioning it, your protected content will no longer be accessible.

References: <http://blogs.technet.com/b/rms/archive/2012/04/29/decommissioning-ad-rms.aspx>

QUESTION 118

Your network contains an Active Directory domain named adatum.com. The domain contains a server named ADFS1.

You plan to deploy Active Directory Federation Services (AD FS) to ADFS1.

You plan to 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. a certificate that is issued by an internal certification authority and that contains the subject name ADFS1
- B. a certificate that is issued by an internal certification authority and that contains the subject name adfs1.adatum.com.
- C. a certificate that is issued by a trusted third-party root certification authority and that contains the subject name ADFS1
- D. self-signed certificates for adfs1.adatum.com
- E. a certificate that is issued by a trusted third-party root certification authority and that contains the subject name adfs1.adatum.com

Correct Answer: AE

Section: [none]

Explanation

Explanation/Reference:

Explanation:

E (not C, not D): Setting up AD FS requires the use of a third party SSL certificate. Make sure you match the certificate's subject name with the Fully Qualified Domain Name of the server.

References: <https://technet.microsoft.com/en-us/magazine/jj631606.aspx>

QUESTION 119

You manage a Hyper-V 2012 cluster by using System Center Virtual Machine Manager 2012 SP1. You need to ensure high availability for business-critical virtual machines (VMs) that host business-critical SQL Server databases.

Solution: You create a custom placement rule and apply it to all business-critical VMs.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 120

You have a properly configured certification authority in an Active Directory Domain Services domain.

You must implement two-factor authentication and use virtual smart cards to secure user sessions.

You need to implement two-factor authentication for each client device.

What should you install on each client device?

- A. a smart card reader
- B. a user certificate issued by a certification authority
- C. a Trusted Platform Module (TPM) chip
- D. a local computer certificate issued by a certificate authority

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Smart cards and their associated personal identification numbers (PINs) are an increasingly popular, reliable, and cost-effective form of two-factor authentication. With the right controls in place, a user must have the smart card and know the PIN to gain access to network resources. When a user needs to log on to a system, she places the smart card in a smart card reader or simply swipes it across the reader itself. The certificate is read, and the user is prompted only for a PIN, which is uniquely assigned to each user. After the PIN and the certificate are verified, the user is logged on to the domain.

References: <http://blog.windowsserversecurity.com/2012/01/17/a-complete-guide-on-active-directory-certificate-services-in-windows-server-2008-r2/>

QUESTION 121

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. Run the Set-ADForestMode cmdlet.
- B. Run the New-ADObject cmdlet.
- C. Run the Set-ADObject cmdlet.
- D. Run the Set-ADDomainMode cmdlet.

E. Run the Enable-ADOptionalFeature cmdlet.

Correct Answer: AE

Section: [none]

Explanation

Explanation/Reference:

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

The Set-ADForestMode cmdlet sets the Forest mode for an Active Directory forest. You specify the forest mode by setting the ForestMode parameter. Here we should set it to Windows 2008 R2 Forest.

E: 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

QUESTION 122

You manage a Hyper-V 2012 cluster by using System Center Virtual Machine Manager 2012 SP1. You need to ensure high availability for business-critical virtual machines (VMs) that host business-critical SQL Server databases.

Solution: You create an availability set and place each business-critical VM in the set.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

When you place multiple virtual machines in an availability set, VMM will attempt to keep those virtual machines on separate hosts and avoid placing them together on the same host whenever possible. This helps to improve continuity of service.

References: <https://technet.microsoft.com/en-us/library/jj628163.aspx>

QUESTION 123

You have a server named Host1 that runs Windows Server 2012 and has the Hyper-V server role installed.

Host1 has one physical network adapter. You plan to deploy 15 virtual machines on Host1.

You need to implement a networking solution that ensures that all of the virtual machines use PXE to boot when they connect to Windows Deployment Server (WDS).

What should you do?

- A. Install legacy network adapters for each virtual machine.
- B. Modify the settings of the virtual switch.
- C. Modify the settings of the network adapter for each virtual machine.
- D. Install a second physical network adapter.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Since Windows Server 2012 R2 (WS2012 R2) Hyper-V and Windows 8.1 Client Hyper-V, there are two generations of virtual machine hardware specification. Generation 1 virtual machines (the only generation on legacy versions of Hyper-V) make things a little tricky when it comes to PXE booting. The default (and better performing) synthetic Network Adapter (that leverages the Hyper-V integration components) does not support booting off of the network in Generation 1 virtual machines. If you do want to boot this type of virtual hardware using PXE then you must add an emulated Legacy Network Adapter.

References: <https://www.petri.com/boot-hyper-v-virtual-machine-using-pxe>

QUESTION 124

You plan to allow users to run internal applications from outside the company's network. You have a Windows Server 2012 R2 that has the Active Directory Federation Services (AD FS) role installed. You must secure on-premises resources by using multi-factor authentication (MFA). You need to design a solution to enforce different access levels for users with personal Windows 8.1 or iOS 8 devices.

Solution: You install a local instance of MFA Server and connect it to your Microsoft Azure MFA provider. Then, you use the Workplace Join process to configure access for personal devices to the on-premises resources.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

References: <https://azure.microsoft.com/en-gb/documentation/articles/active-directory-conditional-access-on-premises-setup/>

QUESTION 125

You network contains an Active Directory domain named adatum.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 the default key length is 4096 bits for all users.
- Ensure that the domain administrator can recover EFS encrypted files.

What should you do first?

- A. Create a copy of the Key Recovery Agent certificate template, and then modify the permissions of the copy.
- B. From the properties of the Basic EFS template, assign the Full Control permission to the Domain Admins group.
- C. From the properties of the EFS Recovery Agent certificate template, assign the Allow-Enroll permission to the Domain Admins group.
- D. Create a copy of the basic EFS certificate template, and then modify the key length of the copy.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:



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