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**Vendor:**Microsoft

**Exam Code:**70-414

**Exam Name:**Implementing an Advanced Server  
Infrastructure

**Version:**Demo

### QUESTION 1

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

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### QUESTION 2

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

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

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

Application access must be based on device claims.

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

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

Hot Area:

**Answer Area**

Application access must be based on device claims:

Set-AdfsClaimsProviderTrust	
Set-AdfsGlobalAuthenticationPolicy	
Set-AdfsProperties	
Set-AdfsRelyingPartyTrust	

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

Set-AdfsClaimsProviderTrust	
Set-AdfsGlobalAuthenticationPolicy	
Set-AdfsProperties	
Set-AdfsRelyingPartyTrust	

Correct Answer:

**Answer Area**

Application access must be based on device claims:

Set-AdfsClaimsProviderTrust	
Set-AdfsGlobalAuthenticationPolicy	
Set-AdfsProperties	
Set-AdfsRelyingPartyTrust	

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

Set-AdfsClaimsProviderTrust	
Set-AdfsGlobalAuthenticationPolicy	
Set-AdfsProperties	
Set-AdfsRelyingPartyTrust	

**QUESTION 3**

You administer an Active Directory Domain Services environment. There are no certification authorities (CAs) in the environment.

You plan to implement a two-tier CA hierarchy with an offline root CA.

You need to ensure that the issuing CA is not used to create additional subordinate CAs.

What should you do?

- A. In the CAPolicy.inf file for the issuing CA, enter the following constraint: PathLength=1
- B. In the CAPolicy.inf file for the root CA, enter the following constraint: PathLength=1
- C. In the CAPolicy.inf file for the root CA, enter the following constraint: PathLength=2
- D. In the CAPolicy.inf file for the issuing CA, enter the following constraint: PathLength=2

Correct Answer: B

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#### QUESTION 4

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

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

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#### QUESTION 5

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

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 6

Your network contains an Active Directory domain named contoso.com. The domain contains two domain controllers named DC1 and DC2. The domain contains a server named Server1.

Server1 is a certification authority (CA). All servers run Windows Server 2012 R2.

You plan to deploy BitLocker Drive Encryption (BitLocker) to all client computers. The unique identifier for your organization is set to Contoso.

You need to ensure that you can recover the BitLocker encrypted data by using a BitLocker data recovery agent. You must be able to perform the recovery from any administrative computer.

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

Select and Place:

Actions	Answer Area
Request the new certificate and export the certificate as a .pfx file.	
Deploy the data recovery agent by using a Group Policy object (GPO).	
Install BitLocker on Server1.	
Copy the Basic EFS certificate template, modify the new template, and then publish the new template.	
Request the new certificate and export the certificate as a .cer file.	
Install BitLocker on a domain controller.	

Correct Answer:

Actions	Answer Area
Request the new certificate and export the certificate as a .pfx file.	Install BitLocker on a domain controller.
	Copy the Basic EFS certificate template, modify the new template, and then publish the new template.
Install BitLocker on Server1.	Request the new certificate and export the certificate as a .cer file.
	Deploy the data recovery agent by using a Group Policy object (GPO).

### QUESTION 7

Your network contains two servers named Server1 and Server2 that run Windows Server 2012. Server1 and Server2 have the Hyper-V server role installed and are members of a failover cluster.

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

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

Volume Shadow Copy Service (VSS).

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

Which three actions should you perform?

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

Select and Place:

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

Correct Answer:

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

### QUESTION 8

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?

- A. 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.
- B. 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.
- C. 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.
- D. 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

## QUESTION 9

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

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#### QUESTION 10

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 2014 Service Pack2 (SP2) 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 2014 Service Pack2 (SP2).

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

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.

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#### QUESTION 11

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

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>

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## QUESTION 12

Your network contains an Active Directory domain named contoso.com. You have a failover cluster named Cluster1 that contains two nodes named Server1 and Server2. Both servers run Windows

Server 2012 R2 and have the Hyper-V server role installed.

You plan to create two virtual machines that will run an application named App1. App1 will store data on a virtual hard drive named App1data.vhdx. App1data.vhdx will be shared by both virtual machines.

The network contains the following shared folders:

An SMB file share named Share1 that is hosted on a Scale-Out File Server.

An SMB file share named Share2 that is hosted on a standalone file server.

An NFS share named Share3 that is hosted on a standalone file server.

You need to ensure that both virtual machines can use App1data.vhdx simultaneously. What should you do? To answer, select the appropriate configurations in the answer area.

Hot Area:

Location of App1data.vhdx:

Share1
Share2
Share3

App1data.vhdx disk type:

Differencing
Dynamically expanding

Correct Answer:

Location of App1data.vhdx:

Share1
Share2
Share3

App1data.vhdx disk type:

Differencing
Dynamically expanding

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