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Topic 1, Case Study 1

Case study

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Overview

Fabrikam, Inc. is a manufacturing company that has a main office in Chicago and a branch office in Paris.

Existing Environment

Identity Infrastructure

Fabrikam has an Active Directory Domain Services (AD DS) forest that syncs with an Azure Active Directory (Azure AD) tenant. The AD DS forest contains two domains named corp.fabrikam.com and europe.fabrikam.com.

Chicago Office On-Premises Servers

The office in Chicago contains on-premises servers that run Windows Server 2016 as shown in the following table.

Name	Type	Configuration
HV1	Physical	Hyper-V host
HV2	Physical	Hyper-V host
APP1	Virtual machine	Application server
APP2	Virtual machine	Application server
APP3	Virtual machine	Application server
APP4	Virtual machine	Application server
DC1	Virtual machine	Domain controller
Archive1	Physical	File server
DHCP1	Virtual machine	DHCP server
Fileserver1	Virtual machine	File server
WEB1	Virtual machine	Web server
WEB2	Virtual machine	Web server
AADC1	Virtual machine	Azure AD Connect

All the servers in the Chicago office are in the corp.fabrikam.com domain.

All the virtual machines in the Chicago office are hosted on HV1 and HV2. HV1 and HV2 are nodes in a failover cluster named Cluster1.

WEB1 and WEB2 run an Internet Information Services (IIS) website. Internet users connect to the website by using a URL of <https://www.fabrikam.com>.

All the users in the Chicago office run an application that connects to a UNC path of \\Fileserver1\Data.

Paris On-Premises Servers

The office in Paris contains a physical server named dc2.europe.fabrikam.com that runs Windows Server 2016 and is a domain controller for the europe.fabrikam.com domain.

Network Infrastructure

The networks in both the Chicago and Paris offices have local internet connections. The Chicago and Paris offices are connected by using VPN connections.

The client computers in the Chicago office get IP addresses from DHCP1. Security Risks Fabrikam identifies the following security risks:

Some accounts connect to AD DS resources by using insecure protocols such as NTLMv1, SMB1, and unsigned LDAP.

Servers have Windows Defender Firewall enabled. Server administrators sometimes modify firewall rules and allow risky connections.

Requirements

Security Requirements

Fabrikam identifies the following security requirements:

Prevent server administrators from configuring Windows Defender Firewalls rules.

Encrypt all the data disks on the servers by using BitLocker Drive Encryption (BitLocker).

Ensure that only authorized applications can be installed or run on the servers in the forest.

Implement Microsoft Sentinel as a reporting solution to identify all connections to the domain controllers that use insecure protocols.

On-Premises Migration Plan

Fabrikam plans to migrate all the existing servers and identifies the following migration requirements:

Move the APP1 and APP2 virtual machines in the Chicago office to a new Hyper-V failover cluster named Cluster2 that will run Windows Server 2022. - Cluster2 will contain two new nodes named HV3 and HV4.

- All virtual machine files will be stored on a Cluster Shared Volume (CSV).

Migrate Archive1 to a new failover cluster named Cluster3 that will run Windows Server 2022.

- Cluster3 will contain two physical nodes named Node1 and Node2.

- The file shares on Cluster3 will be a failover cluster role in active-passive mode.

Migrate all users, groups, and client computers from europe.fabrikam.com to corp.fabrikam.com.

- The migration will be performed by using the Active Directory Migration Tool (ADMT).

- A computer named ADMTcomputer will be deployed to the corp.fabrikam.com domain to run ADMT migration procedures. - User accounts will retain their existing password.

Migrate the data share from Fileserver1 to a new server named Fileserver2 that will run Windows Server 2022. After the migration, the data share must be accessible by using the existing UNC path. Azure Migration Plan Fabrikam plans to migrate some resources to Azure and identifies the following migration requirements:

Create an Azure subscription named Sub1.

Create an Azure virtual network named Vnet1.

Use ExpressRoute to connect the Paris and Chicago offices to Vnet1.

License all servers for Microsoft Defender for servers.

Migrate APP3 and APP4 to Azure.

Migrate the www.fabrikam.com website to an Azure App Service web app named WebApp1. Decommission WEB1 and WEB2. DHCP Migration Plan Fabrikam plans to replace DHCP1 with a new server named DHCP2 and identifies the following migration requirements:

Ensure that DHCP2 provides the same IP addresses that are currently available from DHCP1.

Prevent DHCP1 from servicing clients once services are enabled on DHCP2. Ensure that the existing leases and reservations are migrated.

QUESTION 1

DRAG DROP

You are planning the implementation of Cluster2 to support the on-premises migration plan.

You need to ensure that the disks on Cluster2 meet the security requirements.

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

Select and Place:

Actions	Answer Area
Add a disk resource to the cluster.	
Enable BitLocker on the volume.	
Update the BitLockerProtectorInfo property of the volume.	
Create a Cluster Shared Volume (CSV).	
Put the disk in maintenance mode.	

ANSWER:

Actions	Answer Area
	Add a disk resource to the cluster.
	Create a Cluster Shared Volume (CSV).
	Put the disk in maintenance mode.
	Enable BitLocker on the volume.
	Update the BitLockerProtectorInfo property of the volume.

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/failover-clustering/bitlocker-on-csv-in-ws-2022>

QUESTION 2

HOTSPOT

You need to implement a security policy solution to authorize the applications. The solution must meet the security requirements.

Which service should you use to enforce the security policy, and what should you use to manage the policy settings? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Enforce the security policy:

	▼
Microsoft Defender Application Control	
Microsoft Defender Application Guard	
Microsoft Defender Credential Guard	
Microsoft Defender for Endpoint	

Manage the policy settings:

	▼
Configuration profiles in Microsoft Intune	
Compliance policies in Microsoft Intune	
Group Policy Objects (GPOs)	

ANSWER:

Answer Area

Enforce the security policy:

	▼
Microsoft Defender Application Control	
Microsoft Defender Application Guard	
Microsoft Defender Credential Guard	
Microsoft Defender for Endpoint	

Manage the policy settings:

	▼
Configuration profiles in Microsoft Intune	
Compliance policies in Microsoft Intune	
Group Policy Objects (GPOs)	

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-defender-application-control/wdacand-applocker-overview>

QUESTION 3

You are remediating the firewall security risks to meet the security requirements.

What should you configure to reduce the risks?

- A. a Group Policy Object (GPO)
- B. adaptive network hardening in Microsoft Defender for Cloud
- C. a network security group (NSG) in Sub1
- D. an Azure Firewall policy

ANSWER: A

Explanation:

Firewall rules configured in a Group Policy Object cannot be modified by local server administrators.

Reference: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-firewall/create-an-inbound-port-rule>

QUESTION 4

You are planning the deployment of Microsoft Sentinel.

Which type of Microsoft Sentinel data connector should you use to meet the security requirements?

- A. Threat Intelligence - TAXII
- B. Azure Active Directory
- C. Microsoft Defender for Cloud
- D. Microsoft Defender for Identity

ANSWER: D

Explanation:

Reference:

<https://docs.microsoft.com/en-us/defender-for-identity/cas-isp-legacy-protocols>

Topic 2, Case Study 2

Case study

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Overview

Contoso, Ltd. is a manufacturing company that has a main office in Seattle and branch offices in Los Angeles and Montreal.

Existing Environment

Active Directory Environment

Contoso has an on-premises Active Directory Domain Services (AD DS) domain named contoso.com that syncs with an Azure Active Directory (Azure AD) tenant. The AD DS domain contains the domain controllers shown in the following table.

Name	Operating system	Operation master role
DC1	Windows Server 2012 R2	RID master, schema master
DC2	Windows Server 2016	PDC emulator, infrastructure master
DC3	Windows Server 2016	Domain naming master

Contoso recently purchased an Azure subscription.

The functional level of the forest is Windows Server 2012 R2. The functional level of the domain is Windows Server 2012.

The forest has the Active Directory Recycle Bin enabled.

The contoso.com domain contains the users shown in the following table.

Name	Organizational unit (OU)/Container	Member of
User1	OU1	Group2, Group4
User2	Users	Group2
User3	OU1	Group3, Group4
Admin1	OU1	Domain Admins

The contoso.com domain has the Group Policy Objects (GPOs) shown in the following table.

Name	Minimum password length	Linked to
Default Domain Policy	8	contoso.com
GPO1	10	OU1

The contoso.com domain has the Password Settings Objects (PSOs) shown in the following table.

Name	Precedence	Minimum password length	Directly applies to
PSO1	10	9	Group2
PSO2	20	11	Group4

Server Infrastructure

The contoso.com domain contains servers that run Windows Server 2022 as shown in the following table.

Name	Description
Server1	Contains a shared named Share1
Server2	None
Server3	None
Server4	Has Remote Desktop enabled

By using Windows Firewall with Advanced Security, the servers have isolation connection security rules configured as shown in the following table.

Name	Endpoint1	Endpoint2	Authentication mode
Server1	Any	Any	Request inbound and outbound
Server2	Any	Any	Require inbound and request outbound
Server3	Any	Any	Require inbound and outbound
DC1	Any	Any	Request inbound and outbound
DC2	Any	Any	Request inbound and outbound
DC3	Any	Any	Request inbound and outbound

Server4 has no connection security rules.

Server4 Configurations

Server4 has the effective Group Policy settings for user rights as shown in the following table.

Policy	Security Setting
Access this computer from the network	Group1, Administrators, Backup Operators, Everyone, Users
Deny access to this computer from the network	Group4
Allow log on through Remote Desktop Services	Group2, Administrators, Remote Desktop Users
Deny log on through Remote Desktop Services	Group3

Server4 has the disk configurations shown in the following exhibit.



Virtualization Infrastructure

The contoso.com domain has the Hyper-V failover clusters shown in the following table.

Name	Number of nodes	Number of virtual machines
Cluster1	6	18
Cluster2	4	12
Cluster3	2	6

Technical Requirements

Contoso identifies the following technical requirements:

Promote a new server named DC4 that runs Windows Server 2022 to a domain controller.

Replicate the virtual machines from Cluster2 to an Azure Recovery Services vault.

Centrally manage performance alerts in Azure for all the domain controllers.

Ensure that User1 can recover objects from the Active Directory Recycle Bin.

Migrate Share1 to Server2, including all the share and folder permissions.

Back up Server4 and all data to an Azure Recovery Services vault.

Use Hyper-V Replica to protect the virtual machines in Cluster3.

Implement BitLocker Drive Encryption (BitLocker) on Server4. Whenever possible, use the principle of least privilege.

QUESTION 5

HOTSPOT


You need to configure BitLocker on Server4.

On which volumes can you turn on BitLocker, and on which volumes can you turn on auto-unlock? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

BitLocker: 

D only
C and D only
D, E, and F only
C, D, E, and F

Auto-unlock:

D only
C and D only
D, E, and F only
C, D, E, and F

ANSWER:

Answer Area

BitLocker:

	▼
D only	
C and D only	
D, E, and F only	
C, D, E, and F	

Auto-unlock:

	▼
D only	
C and D only	
D, E, and F only	
C, D, E, and F	

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/storage/refs/refs-overview>

<https://docs.microsoft.com/enus/powershell/module/bitlocker/enable-bitlockerautounlock?view=windowsserver2022-ps>

QUESTION 6

HOTSPOT

What is the effective minimum password length for User1 and Admin1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

User1:

8
9
10
11
12

Admin1:

8
9
10
11
12

ANSWER:

Answer Area

User1:

8
9
10
11
12

Admin1:

8
9
10
11
12

Explanation:

Box 1: 9

When multiple PSOs apply to a user, the PSO with the highest precedence (lowest precedence number) applies which in this case is PSO1.

Box 2: 8

There are no PSOs applied to Admin1 so the password policy from the Default Domain GPO applies.

The Minimum password length setting in GPO1 would only apply to local user accounts on computers in OU1. It does not apply to domain user accounts.

QUESTION 7

HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
User1 can sign in to Server4 by using Remote Desktop.	<input type="radio"/>	<input type="radio"/>
User2 can sign in to Server4 by using Remote Desktop.	<input type="radio"/>	<input type="radio"/>
User3 can sign in to Server4 by using Remote Desktop.	<input type="radio"/>	<input type="radio"/>

ANSWER:

Statements	Yes	No
User1 can sign in to Server4 by using Remote Desktop.	<input type="radio"/>	<input checked="" type="radio"/>
User2 can sign in to Server4 by using Remote Desktop.	<input checked="" type="radio"/>	<input type="radio"/>
User3 can sign in to Server4 by using Remote Desktop.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

QUESTION 8

HOTSPOT

With which servers can Server1 and Server3 communicate? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Server1 can communicate with:

Server2 only
Server3 only
Server2 and Server3 only
Server2, Server3, and Server4
None of the servers

Server3 can communicate with:

Server2 only
Server1 and Server2 only
Server1 and Server4 only
Server1, Server2, and Server4
None of the servers

ANSWER:

Answer Area

Server1 can communicate with:

Server2 only
Server3 only
Server2 and Server3 only
Server2, Server3, and Server4
None of the servers

Server3 can communicate with:

Server2 only
Server1 and Server2 only
Server1 and Server4 only
Server1, Server2, and Server4
None of the servers

Topic 3, Case Study 3

Case study

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Active Directory Environment

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Server Infrastructure

The contoso.com domain contains servers that run Windows Server 2022 as shown in the following table.

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By using Windows Firewall with Advanced Security, the servers have isolation connection security rules configured as shown in the following table.

Name	Endpoint1	Endpoint2	Authentication mode
Server1	Any	Any	Request inbound and outbound
Server2	Any	Any	Require inbound and request outbound
Server3	Any	Any	Require inbound and outbound
DC1	Any	Any	Request inbound and outbound
DC2	Any	Any	Request inbound and outbound
DC3	Any	Any	Request inbound and outbound

Server4 has no connection security rules.

Server4 Configurations

Server4 has the effective Group Policy settings for user rights as shown in the following table.

Policy	Security Setting
Access this computer from the network	Group1, Administrators, Backup Operators, Everyone, Users
Deny access to this computer from the network	Group4
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Server4 has the disk configurations shown in the following exhibit.



Virtualization Infrastructure

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Technical Requirements

Contoso identifies the following technical requirements:

Promote a new server named DC4 that runs Windows Server 2022 to a domain controller.

Replicate the virtual machines from Cluster2 to an Azure Recovery Services vault.

Centrally manage performance alerts in Azure for all the domain controllers.

Ensure that User1 can recover objects from the Active Directory Recycle Bin.

Migrate Share1 to Server2, including all the share and folder permissions.

Back up Server4 and all data to an Azure Recovery Services vault.

Use Hyper-V Replica to protect the virtual machines in Cluster3.

Implement BitLocker Drive Encryption (BitLocker) on Server4. Whenever possible, use the principle of least privilege.

QUESTION 9

You need to back up Server 4 to meet the technical requirements.

What should you do first?

- A. Deploy Microsoft Azure Backup Server (MABS).
- B. Configure Windows Server Backup.
- C. Install the Microsoft Azure Recovery Services (MARS) agent.
- D. Configure Storage Replica.

ANSWER: C

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/backup/install-mars-agent>

QUESTION 10

You need to meet the technical requirements for Cluster3.

What should you include in the solution?

- A. Enable integration services on all the virtual machines.
- B. Add a Windows Server server role.
- C. Configure a fault domain doe the cluster.
- D. Add a failover cluster role.

ANSWER: D

Explanation:

The Hyper-V replica broker role is required on the cluster.

Reference: <https://docs.microsoft.com/en-us/virtualization/community/team-blog/2012/20120327-why-is-the-hyper-v-replicabroker-required>

QUESTION 11

DRAG DROP

You need to meet the technical requirements for Cluster2.

Which four actions should you perform in sequence before you can enable replication? 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
Create an Azure Recovery Services vault.	
Install Azure Connected Machine agents.	
Install and register Azure Site Recovery Providers.	
Create and associate replication policies.	
Create a Hyper-V site.	

ANSWER:

Actions	Answer Area
Install Azure Connected Machine agents.	Create an Azure Recovery Services vault.
	Create a Hyper-V site.
	Install and register Azure Site Recovery Providers.
	Create and associate replication policies.

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-tutorial>

Topic 4, Case Study 4

Case study

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Chicago Office On-Premises Servers

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Name	Type	Configuration
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HV2	Physical	Hyper-V host
APP1	Virtual machine	Application server
APP2	Virtual machine	Application server
APP3	Virtual machine	Application server
APP4	Virtual machine	Application server
DC1	Virtual machine	Domain controller
Archive1	Physical	File server
DHCP1	Virtual machine	DHCP server
Fileserver1	Virtual machine	File server
WEB1	Virtual machine	Web server
WEB2	Virtual machine	Web server
AADC1	Virtual machine	Azure AD Connect

All the servers in the Chicago office are in the corp.fabrikam.com domain.

All the virtual machines in the Chicago office are hosted on HV1 and HV2. HV1 and HV2 are nodes in a failover cluster named Cluster1.

WEB1 and WEB2 run an Internet Information Services (IIS) website. Internet users connect to the website by using a URL of <https://www.fabrikam.com>.

All the users in the Chicago office run an application that connects to a UNC path of \\Fileserver1\Data.

Paris On-Premises Servers

The office in Paris contains a physical server named dc2.europe.fabrikam.com that runs Windows Server 2016 and is a domain controller for the europe.fabrikam.com domain.

Network Infrastructure

The networks in both the Chicago and Paris offices have local internet connections. The Chicago and Paris offices are connected by using VPN connections.

The client computers in the Chicago office get IP addresses from DHCP1. Security Risks Fabrikam identifies the following security risks:

Some accounts connect to AD DS resources by using insecure protocols such as NTLMv1, SMB1, and unsigned LDAP.

Servers have Windows Defender Firewall enabled. Server administrators sometimes modify firewall rules and allow risky connections.

Requirements

Security Requirements

Fabrikam identifies the following security requirements:

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Encrypt all the data disks on the servers by using BitLocker Drive Encryption (BitLocker).

Ensure that only authorized applications can be installed or run on the servers in the forest.

Implement Microsoft Sentinel as a reporting solution to identify all connections to the domain controllers that use insecure protocols.

On-Premises Migration Plan

Fabrikam plans to migrate all the existing servers and identifies the following migration requirements:

Move the APP1 and APP2 virtual machines in the Chicago office to a new Hyper-V failover cluster named Cluster2 that will run Windows Server 2022. - Cluster2 will contain two new nodes named HV3 and HV4.

- All virtual machine files will be stored on a Cluster Shared Volume (CSV).

Migrate Archive1 to a new failover cluster named Cluster3 that will run Windows Server 2022.

- Cluster3 will contain two physical nodes named Node1 and Node2.

- The file shares on Cluster3 will be a failover cluster role in active-passive mode.

Migrate all users, groups, and client computers from europe.fabrikam.com to corp.fabrikam.com.

- The migration will be performed by using the Active Directory Migration Tool (ADMT).

- A computer named ADMTcomputer will be deployed to the corp.fabrikam.com domain to run ADMT migration procedures. - User accounts will retain their existing password.

Migrate the data share from Fileserver1 to a new server named Fileserver2 that will run Windows Server 2022. After the migration, the data share must be accessible by using the existing UNC path. Azure Migration Plan Fabrikam plans to migrate some resources to Azure and identifies the following migration requirements:

Create an Azure subscription named Sub1.

Create an Azure virtual network named Vnet1.

Use ExpressRoute to connect the Paris and Chicago offices to Vnet1.

License all servers for Microsoft Defender for servers.

Migrate APP3 and APP4 to Azure.

Migrate the www.fabrikam.com website to an Azure App Service web app named WebApp1. Decommission WEB1 and WEB2. DHCP Migration Plan Fabrikam plans to replace DHCP1 with a new server named DHCP2 and identifies the following migration requirements:

Ensure that DHCP2 provides the same IP addresses that are currently available from DHCP1.

Prevent DHCP1 from servicing clients once services are enabled on DHCP2. Ensure that the existing leases and reservations are migrated.

QUESTION 12

HOTSPOT

You are planning the www.fabrikam.com website migration to support the Azure migration plan.

How should you configure WebApp1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To enable WebApp1 to handle requests for the website:

- Add a custom domain name.
- Create a deployment slot.
- Create a private endpoint.

To point client connections to WebApp1:

- Add HTTP redirect rules on WEB1 and WEB2.
- Implement Azure Front Door.
- Implement Azure Traffic Manager.
- Modify a DNS record.

ANSWER:

Answer Area

To enable WebApp1 to handle requests for the website:

- Add a custom domain name.
- Create a deployment slot.
- Create a private endpoint.

To point client connections to WebApp1:

- Add HTTP redirect rules on WEB1 and WEB2.
- Implement Azure Front Door.
- Implement Azure Traffic Manager.
- Modify a DNS record.

Explanation:

Box 1: Add a custom domain name

To migrate www.fabrikam.com website to an Azure App Service web app, you need to add Fabrikam.com as a custom domain in Azure. This will make the domain name available to use in the web app.

Box 2: Modify a DNS record

You need to change the DNS record for www.fabrikam.com to point to the Azure web app. HTTP redirect rules won't work because WEB1 and WEB2 will be decommissioned.

Reference: <https://docs.microsoft.com/en-us/azure/app-service/app-service-web-tutorial-custom-domain?tabs=a%2Cazurecli>

QUESTION 13

HOTSPOT

You are planning the DHCP1 migration to support the DHCP migration plan.

Which two PowerShell cmdlets should you run on DHCP1, and which two PowerShell cmdlets should you run on DHCP2?

To answer, drag the appropriate cmdlets to the correct servers. Each cmdlet may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Cmdlets	Answer Area
Add-DhcpServerInDC	DHCP1: <input type="text" value="Cmdlet"/>
Add-DhcpServerv4Scope	<input type="text" value="Cmdlet"/>
Export-DhcpServer	DHCP2: <input type="text" value="Cmdlet"/>
Import-DhcpServer	<input type="text" value="Cmdlet"/>
Remove-DhcpServerInDC	
Remove-DhcpServerv4Scope	

ANSWER:

Cmdlets	Answer Area
Add-DhcpServerInDC	DHCP1: Export-DhcpServer
Add-DhcpServerv4Scope	Remove-DhcpServerInDC
Export-DhcpServer	
Import-DhcpServer	DHCP2: Add-DhcpServerInDC
Remove-DhcpServerInDC	Import-DhcpServer
Remove-DhcpServerv4Scope	

Explanation:

Reference: <https://theitbros.com/how-to-migrate-dhcp-to-windows-server-2016/>

QUESTION 14

You are planning the data share migration to support the on-premises migration plan.

What should you use to perform the migration?

- A. Storage Migration Service
- B. Microsoft File Server Migration Toolkit
- C. File Server Resource Manager (FSRM)
- D. Windows Server Migration Tools

ANSWER: A

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/storage/storage-migration-service/migrate-data>

QUESTION 15

HOTSPOT

You are planning the migration of APP3 and APP4 to support the Azure migration plan.

What should you do on Cluster1 and in Azure before you perform the migration? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

On Cluster1:

- ☐ Configure Azure Network Adapter.
- ☐ Create a Point-to-Site (P2S) VPN connection to Vnet1.
- ☐ Import the Azure Migrate appliance.
- ☐ Install the Azure File Sync agent.
- ☐ Install the Windows Server Migration Tools.

In Azure:

- ☐ Create a premium block blobs Azure Storage account.
- ☐ Create a private endpoint.
- ☐ Create a VPN gateway.
- ☐ Create an Azure Migrate project.

ANSWER:

Answer Area

On Cluster1:

- Configure Azure Network Adapter.
- Create a Point-to-Site (P2S) VPN connection to Vnet1.
- Import the Azure Migrate appliance.
- Install the Azure File Sync agent.
- Install the Windows Server Migration Tools.

In Azure:

- Create a premium block blobs Azure Storage account.
- Create a private endpoint.
- Create a VPN gateway.
- Create an Azure Migrate project.

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/migrate/tutorial-discover-hyper-v>

Topic 5, Case Study 5

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study.

Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Contoso, Ltd. is a manufacturing company that has a main office in Seattle and branch offices in Los Angeles and Montreal.

Existing Environment

Active Directory Environment

Contoso has an on-premises Active Directory Domain Services (AD DS) domain named contoso.com that syncs with an Azure Active Directory (Azure AD) tenant. The AD DS domain contains the domain controllers shown in the following table.

Name	Operating system	Operation master role
DC1	Windows Server 2012 R2	RID master, schema master
DC2	Windows Server 2016	PDC emulator, infrastructure master
DC3	Windows Server 2016	Domain naming master

Contoso recently purchased an Azure subscription.

The functional level of the forest is Windows Server 2012 R2. The functional level of the domain is Windows Server 2012.

The forest has the Active Directory Recycle Bin enabled.

The contoso.com domain contains the users shown in the following table.

Name	Organizational unit (OU)/Container	Member of
User1	OU1	Group2, Group4
User2	Users	Group2
User3	OU1	Group3, Group4
Admin1	OU1	Domain Admins

The contoso.com domain has the Group Policy Objects (GPOs) shown in the following table.

Name	Minimum password length	Linked to
Default Domain Policy	8	contoso.com
GPO1	10	OU1

The contoso.com domain has the Password Settings Objects (PSOs) shown in the following table.

Name	Precedence	Minimum password length	Directly applies to
PSO1	10	9	Group2
PSO2	20	11	Group4

Server Infrastructure

The contoso.com domain contains servers that run Windows Server 2022 as shown in the following table.

Name	Description
Server1	Contains a shared named Share1
Server2	None
Server3	None
Server4	Has Remote Desktop enabled

By using Windows Firewall with Advanced Security, the servers have isolation connection security rules configured as shown in the following table.

Name	Endpoint1	Endpoint2	Authentication mode
Server1	Any	Any	Request inbound and outbound
Server2	Any	Any	Require inbound and request outbound
Server3	Any	Any	Require inbound and outbound
DC1	Any	Any	Request inbound and outbound
DC2	Any	Any	Request inbound and outbound
DC3	Any	Any	Request inbound and outbound

Server4 has no connection security rules.

Server4 Configurations

Server4 has the effective Group Policy settings for user rights as shown in the following table.

Policy	Security Setting
Access this computer from the network	Group1, Administrators, Backup Operators, Everyone, Users
Deny access to this computer from the network	Group4
Allow log on through Remote Desktop Services	Group2, Administrators, Remote Desktop Users
Deny log on through Remote Desktop Services	Group3

Server4 has the disk configurations shown in the following exhibit.



Virtualization Infrastructure

The contoso.com domain has the Hyper-V failover clusters shown in the following table.

Name	Number of nodes	Number of virtual machines
Cluster1	6	18
Cluster2	4	12
Cluster3	2	6

Technical Requirements

Contoso identifies the following technical requirements:

Promote a new server named DC4 that runs Windows Server 2022 to a domain controller.

Replicate the virtual machines from Cluster2 to an Azure Recovery Services vault.

Centrally manage performance alerts in Azure for all the domain controllers.

Ensure that User1 can recover objects from the Active Directory Recycle Bin.

Migrate Share1 to Server2, including all the share and folder permissions.

Back up Server4 and all data to an Azure Recovery Services vault.

Use Hyper-V Replica to protect the virtual machines in Cluster3.

Implement BitLocker Drive Encryption (BitLocker) on Server4. Whenever possible, use the principle of least privilege.

QUESTION 16

HOTSPOT

You need to implement alerts for the domain controllers. The solution must meet the technical requirements.

What should you do on the domain controllers, and what should you create on Azure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

On the domain controllers:

Create a Data Collector Set in Performance Monitor.
Modify the Performance Monitor Users group.
Install the Azure Monitor agent.

In Azure:

Create an Azure SQL database.
Create a Storage Sync Service.
Create an Azure Log Analytics workspace.
Create an Azure Storage account.

ANSWER:

Answer Area

On the domain controllers:

Create a Data Collector Set in Performance Monitor.
Modify the Performance Monitor Users group.
Install the Azure Monitor agent.

In Azure:

Create an Azure SQL database.
Create a Storage Sync Service.
Create an Azure Log Analytics workspace.
Create an Azure Storage account.

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/agents/azure-monitor-agentoverview?tabs=PowerShellWindows>

QUESTION 17

You need to meet the technical requirements for User1.

To which group in contoso.com should you add User1?

- A. Domain Admins
- B. Account Operators
- C. Schema Admins
- D. Backup Operators

ANSWER: A

Topic 6, Mixed Questions

QUESTION 18

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 have a server named Server1 that runs Windows Server.

You need to ensure that only specific applications can modify the data in protected folders on Server1.

Solution: From Virus & threat protection, you configure Controlled folder access.

Does this meet the goal?

- A. Yes
- B. No

ANSWER: A

Explanation:

Reference: <https://docs.microsoft.com/en-us/microsoft-365/security/defender-endpoint/customize-controlledfolders?view=o365-worldwide>

QUESTION 19

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 have a server named Server1 that runs Windows Server.

You need to ensure that only specific applications can modify the data in protected folders on Server1. Solution: From Virus & threat protection, you configure Tamper Protection Does this meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

Reference: <https://docs.microsoft.com/en-us/microsoft-365/security/defender-endpoint/customize-controlledfolders?view=o365-worldwide>

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.

You have a server named Server1 that runs Windows Server.

You need to ensure that only specific applications can modify the data in protected folders on Server1.

Solution: From App & browser control, you configure the Exploit protection settings.

Does this meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

Reference: <https://docs.microsoft.com/en-us/microsoft-365/security/defender-endpoint/customize-controlledfolders?view=o365-worldwide>

QUESTION 21

DRAG DROP

You have an on-premises Active Directory Domain Services (AD DS) domain that syncs with an Azure Active Directory (Azure AD) tenant.

The AD DS domain contains a domain controller named DC1. DC1 does NOT have internet access.

You need to configure password security for on-premises users. The solution must meet the following requirements:

Prevent the users from using known weak passwords.

Prevent the users from using the company name in passwords.

What should you do? To answer, drag the appropriate configurations to the correct targets. Each configuration may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Configurations	Answer Area
Configure Azure AD Identity Protection.	On DC1: Configuration
Configure Azure AD Password Protection.	On a member server: Configuration
Install the Azure AD Pass-through Authentication Agent.	In Azure: Configuration
Install the Azure AD Password Protection DC agent.	
Install the Azure AD Password Protection proxy service.	

ANSWER:

Configurations	Answer Area
Configure Azure AD Identity Protection.	
Configure Azure AD Password Protection.	On DC1: Install the Azure AD Password Protection DC agent.
Install the Azure AD Pass-through Authentication Agent.	On a member server: Install the Azure AD Password Protection proxy service.
Install the Azure AD Password Protection DC agent.	In Azure: Configure Azure AD Password Protection.
Install the Azure AD Password Protection proxy service.	

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-password-ban-bad-on-premisesdeploy>

QUESTION 22

HOTSPOT

The Default Domain Policy Group Policy Object (GPO) is shown in the GPO exhibit. (Click the GPO tab.)



Group Policy Management

File Action View Window Help

Group Policy Management

- Forest: Fabrikam.com
 - Domains
 - Fabrikam.com
 - Default Domain Policy**
 - Domain Controllers
 - ServiceAccounts
 - Group Policy Objects
 - WMI Filters
 - Starter GPOs
 - Sites
 - Group Policy Modeling
 - Group Policy Results

Default Domain Policy

Scope Details Settings Delegation

Default Domain Policy
Data collected on: 10/18/2021 9:06:02 PM [show all](#)

General [hide](#)

Details [show](#)

Links [show](#)

Security Filtering [show](#)

Delegation [show](#)

Computer Configuration (Enabled) [hide](#)

Policies [hide](#)

Windows Settings [hide](#)

Security Settings [hide](#)

Account Policies/Password Policy [hide](#)

Policy	Setting
Enforce password history	24 passwords remembered
Maximum password age	42 days
Minimum password age	1 days
Minimum password length	7 characters
Password must meet complexity requirements	Enabled
Store passwords using reversible encryption	Disabled

Account Policies/Account Lockout Policy [show](#)

Account Policies/Kerberos Policy [show](#)

Local Policies/Security Options [show](#)

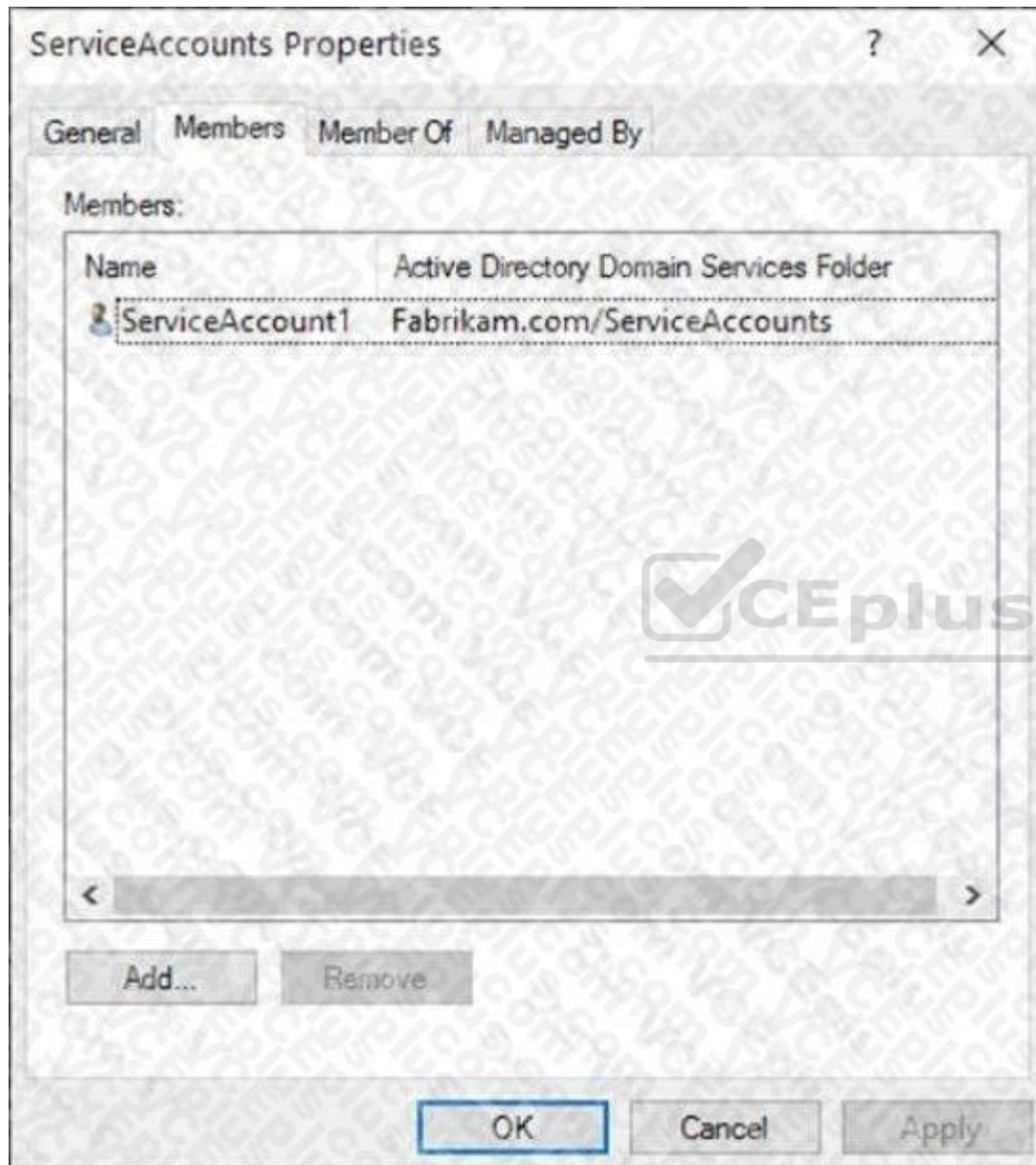
Public Key Policies/Encrypting File System [show](#)

User Configuration (Enabled) [hide](#)

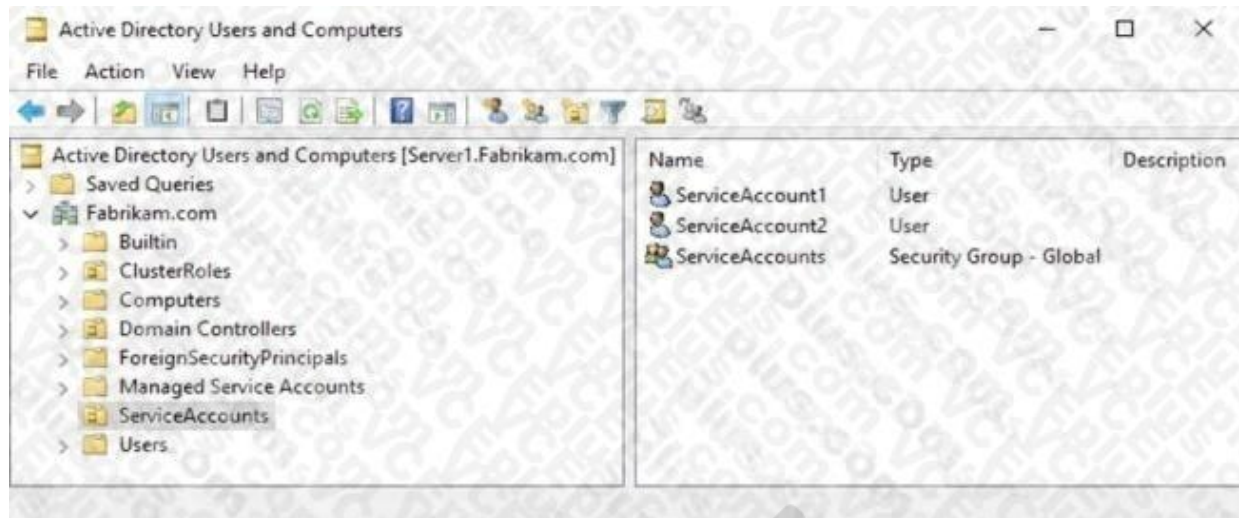
No settings defined.

The members of a group named Service Accounts are shown in the Group exhibit. (Click the Group tab.)

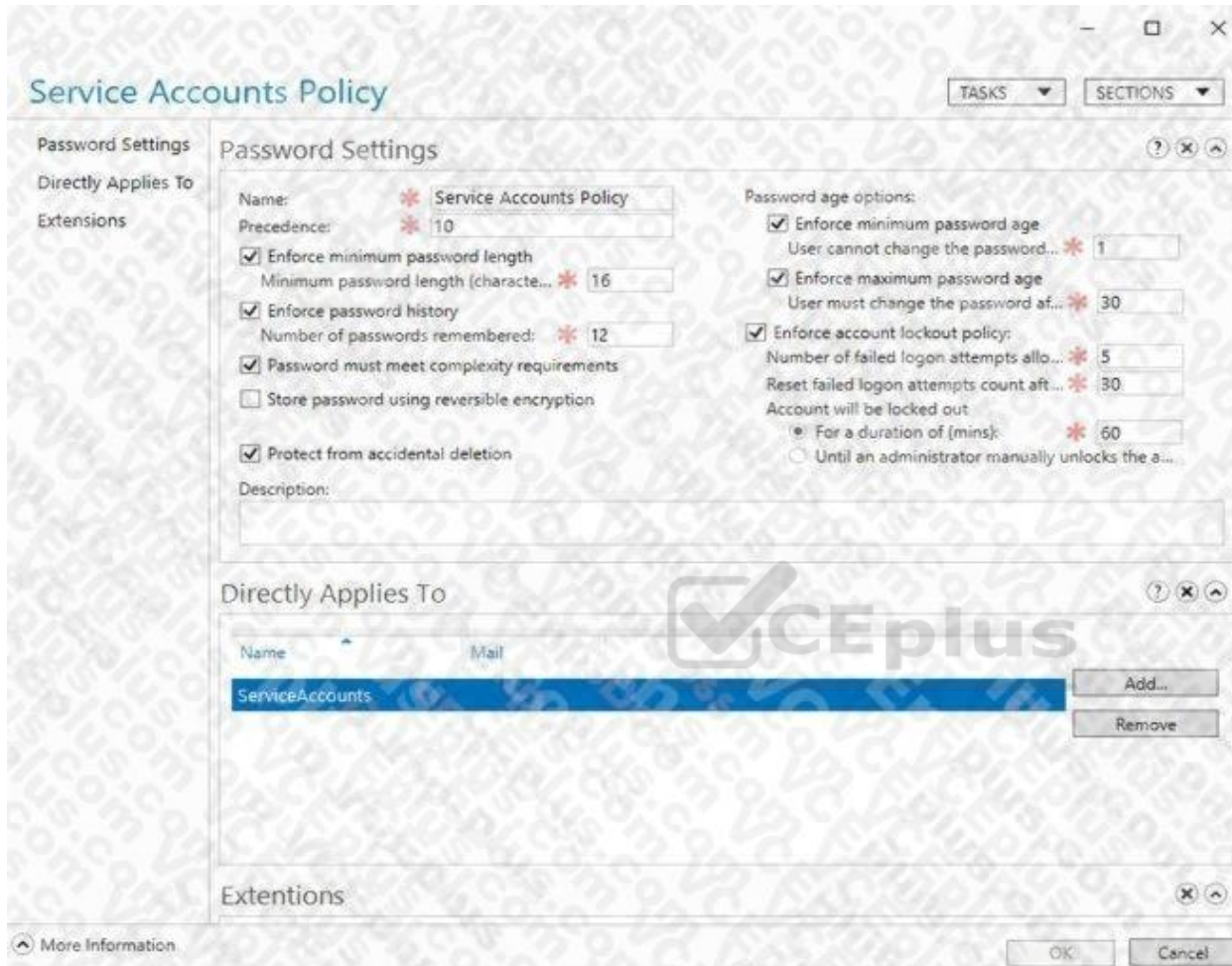




An organizational unit (OU) named ServiceAccounts is shown in the OU exhibit. (Click the OU tab.)



You create a Password Settings Object (PSO) as shown in the PSO exhibit. (Click the PSO tab.)



Service Accounts Policy

TASKS SECTIONS

Password Settings

Name: Service Accounts Policy

Precedence: 10

☒ Enforce minimum password length
Minimum password length (character... 16

☒ Enforce password history
Number of passwords remembered: 12

☒ Password must meet complexity requirements

☐ Store password using reversible encryption

☒ Protect from accidental deletion

Description:

Password age options:

☒ Enforce minimum password age
User cannot change the password... 1

☒ Enforce maximum password age
User must change the password af... 30

☒ Enforce account lockout policy:
Number of failed logon attempts allo... 5
Reset failed logon attempts count aft... 30
Account will be locked out
• For a duration of (mins): 60
• Until an administrator manually unlocks the a...

Directly Applies To

Name	Mail
ServiceAccounts	

Add... Remove

Extentions

More Information OK Cancel

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
The password of ServiceAccount1 must be at least 16 characters long.	<input type="radio"/>	<input type="radio"/>
The password of ServiceAccount2 must be at least 16 characters long.	<input type="radio"/>	<input type="radio"/>
Accounts that have the Service Accounts Policy applied can change their password to P@\$\$w0rd1.	<input type="radio"/>	<input type="radio"/>

ANSWER:

Statements	Yes	No
The password of ServiceAccount1 must be at least 16 characters long.	<input checked="" type="radio"/>	<input type="radio"/>
The password of ServiceAccount2 must be at least 16 characters long.	<input type="radio"/>	<input checked="" type="radio"/>
Accounts that have the Service Accounts Policy applied can change their password to P@\$\$w0rd1.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Reference: https://docs.microsoft.com/en-us/windows-server/identity/ad-ds/get-started/adac/introduction-to-active-directoryadministrative-center-enhancements--level-100-#fine_grained_pswd_policy_mgmt

QUESTION 23

DRAG DROP

Your network contains an Active Directory Domain Services (AD DS) domain.

You need to implement a solution that meets the following requirements:

Ensures that the members of the Domain Admins group are allowed to sign in only to domain controllers Ensures that the lifetime of Kerberos Ticket Granting Ticket (TGT) for the members of the Domain Admins group is limited to one hour Which three 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
Create a Dynamic Access Control central access policy.	
Configure the Kerberos Policy settings for the Default Domain Policy Group Policy Object (GPO).	
Create a Dynamic Access Control claim type.	
Create an authentication policy.	
Assign the authentication policy silo to user and computer accounts.	
Create an authentication policy silo.	

ANSWER:

Actions	Answer Area
Create a Dynamic Access Control central access policy.	Create an authentication policy.
Configure the Kerberos Policy settings for the Default Domain Policy Group Policy Object (GPO).	Create an authentication policy silo.
Create a Dynamic Access Control claim type.	Assign the authentication policy silo to user and computer accounts.
Create an authentication policy.	
Assign the authentication policy silo to user and computer accounts.	
Create an authentication policy silo.	

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/identity/ad-ds/manage/how-to-configure-protected-accounts>

QUESTION 24

You have an Azure virtual machine named VM1 that runs Windows Server.

You plan to deploy a new line-of-business (LOB) application to VM1.

You need to ensure that the application can create child processes.

What should you configure on VM1?

- A. Microsoft Defender Credential Guard
- B. Microsoft Defender Application Control
- C. Microsoft Defender SmartScreen
- D. Exploit protection

ANSWER: D

Explanation:

Reference: <https://docs.microsoft.com/en-us/microsoft-365/security/defender-endpoint/customize-exploitprotection?view=o365-worldwide>

QUESTION 25

HOTSPOT

Your network contains an Active Directory Domain Services (AD DS) domain named contoso.com. The domain contains the organizational units (OUs) shown in the following table.

Name	Contents
Domain Controllers	All the domain controllers in the domain
Domain Servers	All the servers that run Windows Server in the domain
Domain Client Computers	All the client computers that run Windows 10 in the domain
Domain Users	All the users in the domain

In the domain, you create the Group Policy Objects (GPOs) shown in the following table.

Name	IPsec setting
GPO1	Require authentication by using Kerberos V5 for inbound connections
GPO2	Request authentication by using Kerberos V5 for inbound connections
GPO3	Require authentication by using X.509 certificates for inbound connections
GPO4	Request authentication by using X.509 certificates for inbound connections

You need to implement IPsec authentication to ensure that only authenticated computer accounts can connect to the members in the domain. The solution must minimize administrative effort.

Which GPOs should you apply to the Domain Controllers OU and the Domain Servers OU? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Domain Controllers:

▼
GPO1
GPO2
GPO3
GPO4

Domain Servers:

▼
GPO1
GPO2
GPO3
GPO4

ANSWER:

Answer Area

Domain Controllers:

▼
GPO1
GPO2
GPO3
GPO4

Domain Servers:

▼
GPO1
GPO2
GPO3
GPO4

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-firewall/configure-authenticationmethods>

QUESTION 26

You have 100 Azure virtual machines that run Windows Server. The virtual machines are onboarded to Microsoft Defender for Cloud.

You need to shut down a virtual machine automatically if Microsoft Defender for Cloud generates the "Antimalware disabled in the virtual machine" alert for the virtual machine.

What should you use in Microsoft Defender for Cloud?

- A. a logic app
- B. a workbook
- C. a security policy
- D. adaptive network hardening

ANSWER: A

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/defender-for-cloud/managing-and-responding-alerts>

QUESTION 27

You have a Microsoft Sentinel deployment and 100 Azure Arc-enabled on-premises servers. All the Azure Arc-enabled resources are in the same resource group.

You need to onboard the servers to Microsoft Sentinel. The solution must minimize administrative effort.

What should you use to onboard the servers to Microsoft Sentinel?

- A. Azure Automation
- B. Azure Policy
- C. Azure virtual machine extensions
- D. Microsoft Defender for Cloud

ANSWER: B

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/manage/hybrid/server/best-practices/arcpolicies-mma>

QUESTION 28

You have an on-premises Active Directory Domain Services (AD DS) domain that syncs with an Azure Active Directory (Azure AD) tenant by using password hash synchronization.

You have a Microsoft 365 subscription.

All devices are hybrid Azure AD-joined.

Users report that they must enter their password manually when accessing Microsoft 365 applications.

You need to reduce the number of times the users are prompted for their password when they access Microsoft 365 and Azure services.

What should you do?

- A. In Azure AD, configure a Conditional Access policy for the Microsoft Office 365 applications.
- B. In the DNS zone of the AD DS domain, create an autodiscover record.
- C. From Azure AD Connect, enable single sign-on (SSO).
- D. From Azure AD Connect, configure pass-through authentication.

ANSWER: C

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sso-quick-start>

QUESTION 29

You have an Azure subscription that has Microsoft Defender for Cloud enabled.

You have 50 Azure virtual machines that run Windows Server.

You need to ensure that any security exploits detected on the virtual machines are forwarded to Defender for Cloud.

Which extension should you enable on the virtual machines?

- A. Vulnerability assessment for machines

- B. Microsoft Dependency agent
- C. Log Analytics agent for Azure VMs
- D. Guest Configuration agent

ANSWER: A

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/defender-for-cloud/deploy-vulnerability-assessment-vm>

QUESTION 30

HOTSPOT

Your network contains an Active Directory Domain Services (AD DS) forest. The forest contains the domains shown in the following table.

Name	Domain controller	Configuration
fabrikam.com	DC1	PDC emulator
	DC2	Infrastructure master
	DC3	Read-only domain controller (RODC)
eu.fabrikam.com	DC4	PDC emulator
	DC5	Infrastructure master
	DC6	Read-only domain controller (RODC)

You are implementing Microsoft Defender for Identity sensors.

You need to install the sensors on the minimum number of domain controllers. The solution must ensure that Defender for Identity will detect all the security risks in both the domains.

What should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Domain controllers that require the sensors:

<input type="checkbox"/> DC1 and DC4 only <input type="checkbox"/> DC2 and DC5 only <input type="checkbox"/> DC1, DC2, DC4, and DC5 only <input type="checkbox"/> All the domain controllers in the forest

Authentication information that must be provided during the sensor installation:

<input type="checkbox"/> An AD DS group managed service account (gMSA) <input type="checkbox"/> A cloud-only user from Azure Active Directory (Azure AD) <input type="checkbox"/> The access key generated by the Microsoft Defender for Identity portal

ANSWER:

Answer Area

Domain controllers that require the sensors:

<input type="checkbox"/> DC1 and DC4 only <input type="checkbox"/> DC2 and DC5 only <input checked="" type="checkbox"/> DC1, DC2, DC4, and DC5 only <input type="checkbox"/> All the domain controllers in the forest

Authentication information that must be provided during the sensor installation:

<input type="checkbox"/> An AD DS group managed service account (gMSA) <input type="checkbox"/> A cloud-only user from Azure Active Directory (Azure AD) <input checked="" type="checkbox"/> The access key generated by the Microsoft Defender for identity portal

Explanation:

Reference:

<https://docs.microsoft.com/en-us/defender-for-identity/technical-faq#deployment> <https://docs.microsoft.com/en-us/defenderfor-identity/install-step4>

QUESTION 31

You have 10 servers that run Windows Server in a workgroup.

You need to configure the servers to encrypt all the network traffic between the servers. The solution must be as secure as possible.

Which authentication method should you configure in a connection security rule?

- A. NTLMv2
- B. pre-shared key
- C. Kerberos V5
- D. computer certificate

ANSWER: D

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-firewall/create-an-authenticationrequest-rule>

QUESTION 32

You have an Azure virtual machine named VM1 that runs Windows Server.

You need to encrypt the contents of the disks on VM1 by using Azure Disk Encryption.

What is a prerequisite for implementing Azure Disk Encryption?

- A. Customer Lockbox for Microsoft Azure
- B. an Azure key vault
- C. a BitLocker recovery key
- D. data-link layer encryption in Azure

ANSWER: B

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disk-encryption-overview>

QUESTION 33

Your network contains an Active Directory Domain Services (AD DS) domain. The domain contains two servers named Server1 and Server2 that run Windows Server.

You need to ensure that you can use the Computer Management console to manage Server2. The solution must use the principle of least privilege.

Which two Windows Defender Firewall with Advanced Security rules should you enable on Server2? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the COM+ Network Access (DCOM-In) rule
- B. all the rules in the Remote Event Log Management group
- C. the Windows Management Instrumentation (WMI-In) rule
- D. the COM+ Remote Administration (DCOM-In) rule
- E. the Windows Management Instrumentation (DCOM-In) rule

ANSWER: A B

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/administration/server-manager/configure-remote-managementin-server-manager>

QUESTION 34

You have a server that runs Windows Server. The server is configured to encrypt all incoming traffic by using a connection security rule.

You need to ensure that Server1 can respond to the unencrypted tracert commands initiated from computers on the same network.

What should you do from Windows Defender Firewall with Advanced Security?

- A. From the IPsec Settings, configure IPsec defaults.
- B. Create a new custom outbound rule that allows ICMPv4 protocol connections for all profiles.

- C. Change the Firewall state of the Private profile to Off.
- D. From the IPsec Settings, configure IPsec exemptions.

ANSWER: D

QUESTION 35

You have an Azure virtual machine named VM1.

You enable Microsoft Defender SmartScreen on VM1.

You need to ensure that the SmartScreen messages displayed to users are logged.

What should you do?

- A. From a command prompt, run WinRM quickconfig.
- B. From the local Group Policy, modify the Advanced Audit Policy Configuration settings.
- C. From Event Viewer, enable the Debug log.
- D. From the Windows Security app, configure the Virus & threat protection settings.

ANSWER: C

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows/security/threat-protection/microsoft-defender-smartscreen/microsoftdefender-smartscreen-overview>

QUESTION 36

You are planning the migration of Archive1 to support the on-premises migration plan.

What is the minimum number of IP addresses required for the node and cluster roles on Cluster3?

- A. 2
- B. 3

C. 4

D. 5

ANSWER: B

Explanation:

One IP for each of the two nodes in the cluster and one IP for the cluster virtual IP (VIP).

QUESTION 37

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 have a failover cluster named Cluster1 that hosts an application named App1.

The General tab in App1 Properties is shown in the General exhibit. (Click the General tab.)



App1 Properties

General Failover

 App1

Name:
App1

Preferred Owners
Select the preferred owners for this clustered role. Use the buttons to list them in order from most preferred at the top to least preferred at the bottom.

☐ Server1
☐ Server2

Up
Down

Priority: Medium

Status: Running

Node: Server2

OK Cancel Apply

The Failover tab in App1 Properties is shown in the Failover exhibit. (Click the Failover tab.)



App1 Properties

General Failover

Failover

Specify the number of times the Cluster service will attempt to restart or fail over the clustered role in the specified period.

If the clustered role fails more than the maximum in the specified period, it will be left in the failed state.

Maximum failures in the specified period: 3

Period (hours): 6

Failback

Specify whether the clustered role will automatically fail back to the most preferred owner (which is set on the General tab).

☐ Prevent failback

☒ Allow failback

☒ Immediately

☐ Failback between 0 and 0 hours

OK Cancel Apply

Server1 shuts down unexpectedly.

You need to ensure that when you start Server1, App1 continues to run on Server2.

Solution: From the Failover settings, you select Prevent failback.

Does this meet the goal?

A. Yes

B. No

ANSWER: A

Explanation:

The Prevent failback setting will prevent the cluster failing back to Server1.

QUESTION 38

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 have a failover cluster named Cluster1 that hosts an application named App1.

The General tab in App1 Properties is shown in the General exhibit. (Click the General tab.)

App1 Properties

General Failover

 App1

Name:
App1

Preferred Owners
Select the preferred owners for this clustered role. Use the buttons to list them in order from most preferred at the top to least preferred at the bottom.

<input type="checkbox"/> Server1	Up Down
<input type="checkbox"/> Server2	

Priority: Medium

Status: Running

Node: Server2

OK Cancel Apply

The Failover tab in App1 Properties is shown in the Failover exhibit. (Click the Failover tab.)



App1 Properties

General | Failover

Failover

Specify the number of times the Cluster service will attempt to restart or fail over the clustered role in the specified period.

If the clustered role fails more than the maximum in the specified period, it will be left in the failed state.

Maximum failures in the specified period: 3

Period (hours): 6

Failback

Specify whether the clustered role will automatically fail back to the most preferred owner (which is set on the General tab).

☐ Prevent failback

☒ Allow failback

☒ Immediately

☐ Failback between 0 and 0 hours

OK Cancel Apply

Server1 shuts down unexpectedly.

You need to ensure that when you start Server1, App1 continues to run on Server2.

Solution: You increase Maximum failures in the specified period for the App1 cluster role.

Does this meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

The Maximum failures setting is used to determine when the cluster determines that a node is offline. It does not affect whether a cluster will fail back when a node comes online.

QUESTION 39

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 have a failover cluster named Cluster1 that hosts an application named App1.

The General tab in App1 Properties is shown in the General exhibit. (Click the General tab.)

App1 Properties

General Failover

 App1

Name:
App1

Preferred Owners
Select the preferred owners for this clustered role. Use the buttons to list them in order from most preferred at the top to least preferred at the bottom.

☐ Server1
☐ Server2

Up
Down

Priority: Medium

Status: Running

Node: Server2

OK Cancel

The Failover tab in App1 Properties is shown in the Failover exhibit. (Click the Failover tab.)



App1 Properties

General Failover

Failover

Specify the number of times the Cluster service will attempt to restart or fail over the clustered role in the specified period.

If the clustered role fails more than the maximum in the specified period, it will be left in the failed state.

Maximum failures in the specified period: 3

Period (hours): 6

Failback

Specify whether the clustered role will automatically fail back to the most preferred owner (which is set on the General tab).

☐ Prevent failback

☒ Allow failback

☒ Immediately

☐ Failback between 0 and 0 hours

OK Cancel Apply

Server1 shuts down unexpectedly.

You need to ensure that when you start Server1, App1 continues to run on Server2.

Solution: From the General settings, you move Server2 up.

Does this meet the goal?

A. Yes

B. No

ANSWER: B

Explanation:

Server1 and Server2 are both unticked so the order they are listed in has no effect on whether the cluster will fail back.

QUESTION 40

You have a failover cluster named Cluster1 that has the following configurations:

Number of nodes: 6

Quorum: Dynamic quorum

Witness: File share, Dynamic witness

What is the maximum number of nodes that can fail simultaneously while maintaining quorum?

A. 1

B. 2

C. 3

D. 4

E. 5

ANSWER: C

Explanation:

Note this question is asking about nodes failing 'simultaneously', not nodes failing one after the other.

With six nodes and one witness, there are seven votes. To maintain quorum there needs to be four votes available (four votes is the majority of seven). This means that a minimum of three nodes plus the witness need to remain online for the cluster to function. Therefore, the maximum number of simultaneous failures is three.

Reference: <https://docs.microsoft.com/en-us/windows-server/storage/storage-spaces/understand-quorum>

QUESTION 41

HOTSPOT

You have a failover cluster named FC1 that contains two nodes named Server1 and Server2. FC1 is configured to use a file share witness.

You plan to configure FC1 to use a cloud witness.

You need to configure Azure Storage accounts for the cloud witness.

Which storage account type and authorization method should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Storage account type:

Authentication method:

Premium block blobs
Premium file shares
Premium page blobs
Standard

Access key
Shared access signature (SAS)
System-assigned managed identity in Azure Active Directory (Azure AD)
User-assigned managed identity in Azure Active Directory (Azure AD)

ANSWER:

Answer Area

Storage account type:

Premium block blobs
Premium file shares
Premium page blobs
Standard

Authentication method:

Access key
Shared access signature (SAS)
System-assigned managed identity in Azure Active Directory (Azure AD)
User-assigned managed identity in Azure Active Directory (Azure AD)

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/failover-clustering/deploy-cloud-witness>

QUESTION 42

Your company uses Storage Spaces Direct.

You need to view the available storage in a Storage Space Direct storage pool.

What should you use?

- A. System Configuration
- B. File Server Resource Manager (FSRM)
- C. the Get-StorageFileServer cmdlet
- D. Failover Cluster Manager

ANSWER: D

Explanation:

If Failover Cluster Manager, select the Storage Space Direct storage pool. The information displayed in the main window includes the free space and used space.

QUESTION 43

DRAG DROP

You have three servers named Server1, Server2, Server3 that run Windows Server and have the Hyper-V server role installed.

You plan to create a hyper-converged cluster to host Hyper-V virtual machines.

You need to ensure that you can store virtual machines in Storage Spaces Direct.

Which three 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
Create a failover cluster.	
Create a Distributed File System (DFS) namespace.	
Enable Storage Spaces Direct.	
Create a volume.	
Add a Scale-Out File Server for application role.	
Create a file share.	

ANSWER:

Actions	Answer Area
Create a Distributed File System (DFS) namespace.	Create a failover cluster.
Add a Scale-Out File Server for application role.	Enable Storage Spaces Direct.
Create a file share.	Create a volume.

Explanation:

Reference: <https://docs.microsoft.com/en-us/system-center/vmm/s2d-hyper-converged?view=sc-vmm-2019>

QUESTION 44

You have a Storage Spaces Direct configuration that has persistent memory and contains the data volumes shown in the following table.

Name	File system
Volume1	NTFS
Volume2	ReFS

You plan to add data volumes to Storage Spaces Direct as shown in the following table.

Name	File system
Volume3	NTFS
Volume4	ReFS

On which volumes can you use direct access (DAX)?

A. Volume3 only

- B. Volume4 only
- C. Volume1 and Volume3 only
- D. Volume2 and Volume4 only
- E. Volume3 and Volume4 only

ANSWER: A

Explanation:

DAX can only be used on one volume and the volume has to be NTFS. You could configure DAX on Volume1 (although that would require reformatting the volume) or Volume3. However, 'Volume1 only' isn't an answer option so Volume3 is the correct answer.

'Volume1 and Volume3' is incorrect because of the single volume limitation.

Reference: <https://docs.microsoft.com/en-us/windows-server/storage/storage-spaces/persistent-memory-direct-access>

QUESTION 45

HOTSPOT

You have a failover cluster named Cluster1 that contains three nodes.

You plan to add two file server cluster roles named File1 and File2 to Cluster1. File1 will use the File Server for general use role. File2 will use the Scale-Out File Server for application data role.

What is the maximum number of nodes for File1 and File2 that can concurrently serve client connections? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

File1:

	▼
1	
2	
3	

File2:

	▼
1	
2	
3	

ANSWER:

Answer Area

File1:

	▼
1	
2	
3	

File2:

	▼
1	
2	
3	

Explanation:

Reference:

<https://docs.microsoft.com/en-us/windows-server/failover-clustering/sofs-overview>

QUESTION 46

HOTSPOT

You have a Hyper-V failover cluster named Cluster1 at a main datacenter. Cluster1 contains two nodes that have the Hyper- V server role installed. Cluster1 hosts 10 highly available virtual machines.

You have a cluster named Cluster2 in a disaster recovery site. Cluster2 contains two nodes that have the Hyper-V server role installed.

You plan to use Hyper-V Replica to replicate the virtual machines from Cluster1 to Cluster2.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Cluster role to create on Cluster2:

<input type="checkbox"/> Distributed Transaction Coordinator (DTC)
<input type="checkbox"/> Generic Script
<input type="checkbox"/> Hyper-V Replica Broker
<input type="checkbox"/> Virtual machine

Replication target name to specify:

<input type="checkbox"/> Cluster2
<input type="checkbox"/> The name of a node on Cluster2
<input type="checkbox"/> The name of each virtual machine
<input type="checkbox"/> The name of the Hyper-V Replica Broker

ANSWER:

Answer Area

Cluster role to create on Cluster2:

▼
Distributed Transaction Coordinator (DTC)
Generic Script
Hyper-V Replica Broker
Virtual machine

Replication target name to specify:

▼
Cluster2
The name of a node on Cluster2
The name of each virtual machine
The name of the Hyper-V Replica Broker

Explanation:

Reference: <https://docs.microsoft.com/en-us/virtualization/community/team-blog/2012/20120327-why-is-the-hyper-v-replicabroker-required>**QUESTION 47**

You have two servers named Server1 and Server2 that run Windows Server. Both servers have the Hyper-V server role installed.

Server1 hosts three virtual machines named VM1, VM2, and VM3. The virtual machines replicate to Server2.

Server1 experiences a hardware failure.

You need to bring VM1, VM2, and VM3 back online as soon as possible.

From the Hyper-V Manager console on Server2, what should you run for each virtual machine?

- A. Start
- B. Move
- C. Unplanned Failover

D. Planned Failover

ANSWER: C

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/virtualization/hyper-v/manage/set-up-hyper-v-replica>

QUESTION 48

HOTSPOT

You have a Hyper-V failover cluster named Cluster1 that uses a cloud witness. Cluster1 hosts a virtual machine named VM1 that runs Windows Server.

You need to fail over VM1 automatically to a different node when a service named Service1 on VM1 fails.

What should you do on Cluster1 and VM1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Cluster1:	<div>▼</div> <div>Modify the settings of the VM1 cluster role.</div> <div>Configure monitoring of the VM1 cluster role.</div> <div>Change the startup priority of the VM1 cluster role.</div>
VM1:	<div>▼</div> <div>Configure the Startup Type of Service1.</div> <div>Configure the Recovery settings of Service1.</div> <div>Configure the Startup and Recovery settings.</div> <div>Install and configure the Azure Monitor agent.</div>

ANSWER:

Answer Area

Cluster1:	<div>▼</div> <div>Modify the settings of the VM1 cluster role.</div> <div>Configure monitoring of the VM1 cluster role.</div> <div>Change the startup priority of the VM1 cluster role.</div>
VM1:	<div>▼</div> <div>Configure the Startup Type of Service1.</div> <div>Configure the Recovery settings of Service1.</div> <div>Configure the Startup and Recovery settings.</div> <div>Install and configure the Azure Monitor agent.</div>

Explanation:

QUESTION 49

DRAG DROP

You have two physical servers named AppSrv1 and AppSrv2 and an unconfigured server named Server1. All the servers run Windows Server. Only Server1 can access the internet.

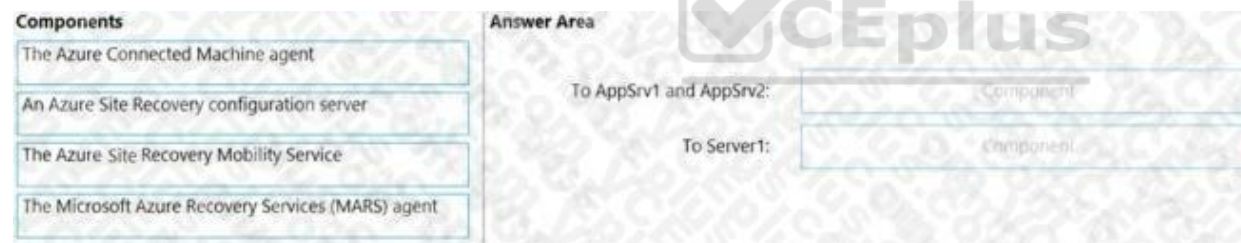
You plan to use Azure Site Recovery to replicate AppSrv1 and AppSrv2 to Azure.

You need to deploy the required components to AppSrv1, AppSrv2, and Server1.

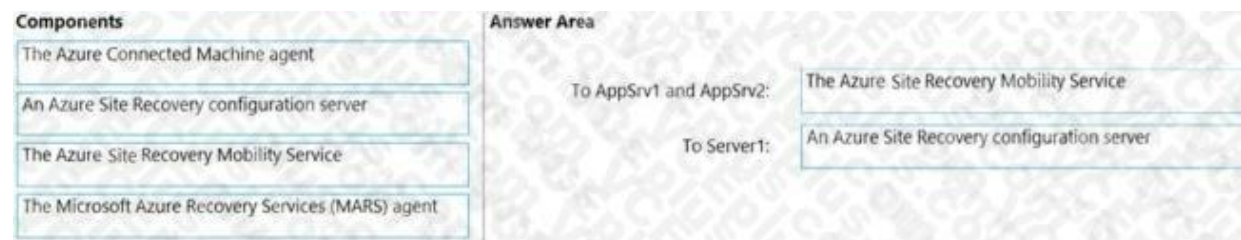
Which components should you deploy? To answer, drag the appropriate components to the correct servers. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/site-recovery/physical-azure-architecture> <https://docs.microsoft.com/en-us/azure/site-recovery/physical-azure-set-up-source>

QUESTION 50


DRAG DROP

You have two Azure virtual machines named VM1 and VM2. VM1 is backed up to an Azure Recovery Services vault daily and retains backups for 30 days.

You need to restore an individual file named C:\Data\Important.docx from VM1 to VM2. The solution must minimize administrative effort.

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
Unmount the disks.	
Download the file recovery script for VM1.	
Copy the file by using Azure Storage Explorer.	
Copy the file by using File Explorer.	
Restore the file by using Windows Server Backup.	
Run the file recovery script on VM2.	

ANSWER:

Actions	Answer Area
Unmount the disks.	Download the file recovery script for VM1.
Download the file recovery script for VM1.	Run the file recovery script on VM2.
Copy the file by using Azure Storage Explorer.	Copy the file by using File Explorer.
Copy the file by using File Explorer.	Unmount the disks.
Restore the file by using Windows Server Backup.	
Run the file recovery script on VM2.	

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/backup/backup-azure-restore-files-from-vm>

QUESTION 51

HOTSPOT

You have three servers named Host1, Host2, and VM1 that run Windows Server. Host1 and Host2 have the Hyper-V server role installed. VM1 is a virtual machine hosted on Host1.

You configure VM1 to replicate to Host2 by using Hyper-V Replica.

Which types of failovers can you perform on VM1 on each host? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

VM1 on Host1:

	▼
Failover only	
Test Failover only	
Planned Failover only	
Failover and Planned Failover only	
Test Failover and Failover only	

VM1 on Host2:

	▼
Failover only	
Test Failover only	
Planned Failover only	
Failover and Planned Failover only	
Test Failover and Failover only	

ANSWER:

Answer Area

VM1 on Host1:

	▼
Failover only	
Test Failover only	
Planned Failover only	
Failover and Planned Failover only	
Test Failover and Failover only	

VM1 on Host2:

	▼
Failover only	
Test Failover only	
Planned Failover only	
Failover and Planned Failover only	
Test Failover and Failover only	

Explanation:

QUESTION 52

You have three Azure virtual machines named VM1, VM2, and VM3 that host a multitier application.

You plan to implement Azure Site Recovery.

You need to ensure that VM1, VM2, and VM3 fail over as a group.

What should you configure?

- A. an availability zone
- B. a recovery plan
- C. an availability set

ANSWER: B

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview>

QUESTION 53

DRAG DROP

You have an Azure subscription that contains an Azure Recovery Services vault.

You have an on-premises physical server that runs Windows Server.

You need to back up the server daily to Azure.

Which three 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
On Server1, install and register the Azure Connected Machine agent.	
Schedule a backup.	
On Server1, install and register the Azure Site Recovery Mobility service agent.	
Download the Vault Credentials file.	
Install and register the Microsoft Azure Recovery Services (MARS) agent.	
Create a recovery plan.	

ANSWER:

Actions	Answer Area
On Server1, install and register the Azure Connected Machine agent.	Download the Vault Credentials file.
	Install and register the Microsoft Azure Recovery Services (MARS) agent.
On Server1, install and register the Azure Site Recovery Mobility service agent.	Schedule a backup.
Create a recovery plan.	

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/backup/tutorial-backup-windows-server-to-azure>

QUESTION 54

DRAG DROP

Your network contains an Active Directory Domain Services (AD DS) domain that has the Active Directory Recycle Bin enabled. The domain contains two domain controllers named DC1 and DC2. The system state of the domain controllers is backed up daily at 23:00 by using Windows Server Backup.

You have an organizational unit (OU) named ParisUsers that contains 1,000 users.


At 08:00, DC1 shuts down for hardware maintenance. The maintenance completes, but DC1 remains shut down.

At 09:00, an administrative error causes the manager attribute of each user in ParisUsers to be deleted.

You need to recover the user account details as quickly as possible. The solution must minimize data loss.

Which three 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
Start DC1 normally.	
Perform an authoritative restore on DC1.	
Recover all the user objects in the Active Directory Recycle Bin.	
Start DC1 by using the Last Known Good Configuration.	
Start DC1 in Directory Services Restore Mode.	
Perform a system state restore on DC1.	

ANSWER:

Actions	Answer Area
Start DC1 normally.	Start DC1 in Directory Services Restore Mode.
Recover all the user objects in the Active Directory Recycle Bin.	Perform a system state restore on DC1.
Start DC1 by using the Last Known Good Configuration.	Perform an authoritative restore on DC1.

Explanation:

QUESTION 55

You have an on-premises server named Server1 that runs Windows Server and has the Hyper-V server role installed.

You have an Azure subscription.

You plan to back up Server1 to Azure by using Azure Backup.

Which two Azure Backup options require you to deploy Microsoft Azure Backup Server (MABS)? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Bare Metal Recovery
- B. Files and folders
- C. System State
- D. Hyper-V Virtual Machines

ANSWER: A C

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/backup/backup-mabs-system-state-and-bmr>

QUESTION 56

DRAG DROP

Your network contains an Active Directory Domain Services (AD DS) domain that has the Active Directory Recycle Bin enabled. All domain controllers are backed up daily.

You accidentally remove all the users from a domain group.

You need to get a list of the users that were previously in the group.

Which four actions should you perform in sequence from a domain controller? 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:

Action	Answer Area
Mount Active Directory to port 51389.	
View the membership of the group.	
Restore the system state to an alternate location.	
From the Deleted Objects container in Active Directory Administrative Center, run the Restore task.	
From Active Directory Users and Computers, change the domain controller to localhost:51389.	
Restore the group from the Active Directory Recycle Bin.	

ANSWER:

Action	Answer Area
	Restore the system state to an alternate location.
	Mount Active Directory to port 51389.
	From Active Directory Users and Computers, change the domain controller to localhost:51389.
From the Deleted Objects container in Active Directory Administrative Center, run the Restore task.	View the membership of the group.
Restore the group from the Active Directory Recycle Bin.	

Explanation:

Reference: <http://sysadmindoc.blogspot.com/2018/10/mount-active-directory-database-from.html>

QUESTION 57

DRAG DROP

You have a server that runs Windows Server.

You plan to back up the server to an Azure Recovery Services vault once per week starting on the next Saturday.

You need to schedule the weekly backup and perform the initial backup as soon as possible.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer are and arrange them in the correct order.

Select and Place:

Actions	Answer Area
Run the Register Server Wizard.	
From Microsoft Azure Backup, run the Schedule Backup Wizard.	
From Microsoft Azure Backup, run the Back Up Now Wizard.	
Download the Microsoft Azure Recovery Services (MARS) agent and the Vault Credentials file.	
Run the Microsoft Azure Recovery Services Agent Setup Wizard.	

ANSWER:

Actions	Answer Area
	Download the Microsoft Azure Recovery Services (MARS) agent and the Vault Credentials file.
	Run the Microsoft Azure Recovery Services Agent Setup Wizard.
	Run the Register Server Wizard.
	From Microsoft Azure Backup, run the Schedule Backup Wizard.
	From Microsoft Azure Backup, run the Back Up Now Wizard.

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/backup/install-mars-agent#download-the-mars-agent>

<https://docs.microsoft.com/en-us/azure/backup/backup-windows-with-mars-agent>

QUESTION 58

You have 200 Azure virtual machines.

You create a recovery plan in Azure Site Recovery to fail over all the virtual machines to an Azure region. The plan has three manual actions.

You need to replace one of the manual actions with an automated process.

What should you use?

- A. an Azure Desired State Configuration (DSC) virtual machine extension
- B. an Azure Automation runbook
- C. an Azure PowerShell function
- D. a Custom Script Extension on the virtual machines

ANSWER: B

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/site-recovery/recovery-plan-overview>

QUESTION 59

You have a server named Server1 that runs Windows Server and has the Hyper-V server role installed. You have a Hyper-V failover cluster named Cluster1. All servers are members of the same domain.

You need to ensure that you use Hyper-V Replica with Kerberos authentication on the default port to replicate virtual machines from Cluster1 to Server1.

What should you do on Server1?

- A. Add primary servers to the Hyper-V Replica Broker configuration.
- B. From Hyper-V Settings, select Enable incoming and outgoing live migrations.
- C. From Windows Defender Firewall with Advanced Security, enable the Hyper-V Replica HTTPS Listener (TCP-In) rule.
- D. From Windows Defender Firewall with Advanced Security, enable the Hyper-V Replica HTTP Listener (TCP-In) rule.

ANSWER: D

Explanation:

Reference:

<https://docs.microsoft.com/en-us/windows-server/virtualization/hyper-v/manage/set-up-hyper-v-replica>

QUESTION 60

You need to meet technical requirements for Share1.

What should you use?

- A. Storage Migration Service
- B. File Server Resource Manager (FSRM)
- C. Server Manager
- D. Storage Replica

ANSWER: A

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/storage/storage-migration-service/overview>

QUESTION 61

DRAG DROP

You manage 200 physical servers that run Windows Server.

You plan to migrate the servers to Azure.

You need to prepare for discovery of the servers by using Azure Migrate.

Which three actions should you perform in sequence on a physical server? 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
Download and extract the Azure Migrate installer script ZIP file.	
Download and extract the Azure Migrate Appliance VHD file.	
Run AzureMigrateInstaller.ps1.	
Import a virtual machine.	
Configure the appliance and register the appliance with Azure Migrate.	

ANSWER:

Actions	Answer Area
	Download and extract the Azure Migrate installer script ZIP file.
Download and extract the Azure Migrate Appliance VHD file.	Run AzureMigrateInstaller.ps1.
	Configure the appliance and register the appliance with Azure Migrate.
Import a virtual machine.	

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/migrate/tutorial-discover-physical>

QUESTION 62

DRAG DROP

Your network contains an Active Directory Domain Services (AD DS) domain named contoso.com. The functional level of the forest and the domain is Windows Server 2012 R2. The domain contains the domain controllers shown in the following table.

Name	Operating system	FSMO role
DC1	Windows Server 2012 R2	All
DC2	Windows Server 2022	None
DC3	Windows Server 2019	None

You need to raise the forest functional level to Windows Server 2016. The solution must meet the following requirements:

Ensure that there are three domain controllers after you raises the level. Minimize how long the FSMO roles are unavailable.

Which three 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

Install the Active Directory Migration Tool (ADMT).

Deploy an additional domain controller.

Raise the domain and forest functional level.


Upgrade DC3.

Migrate computer accounts by using the Active Directory Migration Tool (ADMT).

Upgrade DC1.

Create a custom AD DS partition.

Move the FSMO roles to DC2.

Answer Area


ANSWER:

Actions	Answer Area
Install the Active Directory Migration Tool (ADMT).	Move the FSMO roles to DC2.
Deploy an additional domain controller.	Upgrade DC1.
Upgrade DC3.	Raise the domain and forest functional level.
Migrate computer accounts by using the Active Directory Migration Tool (ADMT).	
Create a custom AD DS partition.	

Explanation:

QUESTION 63

You have an on-premises server that runs Windows Server and has the Web Server (IIS) server role installed. The server hosts a web app that connects to an on-premises Microsoft SQL Server database.

You plan to migrate the web app to an Azure App Services web app. The database will remain on-premises.

You need to ensure that the migrated web app can access the database.

What should you configure in Azure?

- A. an Azure SQL managed instance
- B. an on-premises data gateway
- C. Azure Extended Network
- D. a Hybrid Connection

ANSWER: D

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/app-service/app-service-hybrid-connections>

QUESTION 64

You have two file servers named Server1 and Server2 that run Windows Server. Server1 contains a shared folder named Data. Data contains 10 TB of data.

You plan to decommission Server1.

You need to migrate the files from Data to a new shared folder on Server2. The solution must meet the following requirements:

Ensure that share, file, and folder permissions are copied.

After the initial copy occurs, ensure that changes in \\Server1\Data can be synced to the destination without initiating a full copy. Minimize administrative effort.

What should you use?

- A. xcopy
- B. Storage Replica
- C. Storage Migration Service
- D. azcopy

ANSWER: C

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/storage/storage-migration-service/overview#why-use-storagemigration-service>

QUESTION 65

HOTSPOT

Your network contains an Active Directory Domain Services (AD DS) domain. The domain contains the servers shown in the following table.

Name	Operating system	Server role
Server1	Windows Server 2019	DHCP Server
Server2	Windows Server 2022	DHCP Server
Server3	Windows Server 2019	File Server

Server3 contains a share named Share1.

On Server1, DHCP has the following configurations:

Conflict detection attempts: 3

An IPv4 scope named Scope1 that has the following settings: 1. Address Pool: 172.16.10.100 - 172.16.10.130 2. Address Leases:

- 172.16.10.100 computer1.contoso.com

- 172.16.10.101 computer2.contoso.com

Reservations: 172.16.10.101 computer2.contoso.com Policies: Policy1

You perform the following actions:

On Server1, you run

Export-DhcpServer -File \\Server3\Share1\File1.xml.

On Server2, you run

Import-DhcpServer -File \\Server3\Share1\File1.xml -BackupPath \\Server3\Share1.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
On Server2, Conflict detection attempts is set to 3.	<input type="radio"/>	<input type="radio"/>
On Server2, there is a reservation for computer2.contoso.com.	<input type="radio"/>	<input type="radio"/>
On Server2, Policy1 is applied to Scope1.	<input type="radio"/>	<input type="radio"/>

ANSWER:

Statements	Yes	No
On Server2, Conflict detection attempts is set to 3.	<input checked="" type="radio"/>	<input type="radio"/>
On Server2, there is a reservation for computer2.contoso.com.	<input type="radio"/>	<input checked="" type="radio"/>
On Server2, Policy1 is applied to Scope1.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Reference: <https://docs.microsoft.com/en-us/powershell/module/dhcpserver/export-dhcpserver?view=windowsserver2022-ps>

<https://docs.microsoft.com/en-us/powershell/module/dhcpserver/import-dhcpserver?view=windowsserver2022-ps>

QUESTION 66

DRAG DROP

You have a server named Server1 that runs Windows Server and has the Web Server (IIS) server role installed. Server1 hosts an ASP.NET Core web app named WebApp1 and the app's source files.

You install Docker on Server1.

You need to ensure that you can deploy WebApp1 to an Azure App Service web app from the Azure Container Registry.

Which three 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
Run the <code>docker push</code> command.	
Run the <code>docker run</code> command.	
Run the <code>docker build</code> command.	
Create a Dockerfile.	
Create an Azure Resource Manager (ARM) template.	
Run the <code>docker pull</code> command.	

ANSWER:

Actions	Answer Area
	Create a Dockerfile.
Run the <code>docker run</code> command.	Run the <code>docker build</code> command.
	Run the <code>docker push</code> command.
Create an Azure Resource Manager (ARM) template.	
Run the <code>docker pull</code> command.	

Explanation:

Step 1: Create a Dockerfile. This file contains instructions for the build process.

Step 2: Run the docker build command to create a container image.

Step 3: Run the docker push command to upload the image to Azure Container Registry.

QUESTION 67

HOTSPOT

You have two servers that have the Web Server (IIS) server role installed. The servers are configured as shown in the following table.

Name	Operating system
Server1	Windows Server 2016
Server2	Windows Server 2022

Both servers are configured to enable website deployment by using the Web Deployment Tool. Server1 hosts a website named Site1 that has Web Deploy Publishing configured.

You plan to migrate Site1 to Server2.

You need to perform a pull synchronization of Site1 by using the Web Deployment Agent Service.

How should you complete the command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

<code>msdeploy -verb:sync -source:</code>	<code>-dest:</code>
<code>apphostconfig="Site1"</code>	<code>apphostconfig="Site1"</code>
<code>apphostconfig="Site1",computername=Server1</code>	<code>apphostconfig="Site1",computername=Server1</code>
<code>apphostconfig="Site1",computername=Server2</code>	<code>apphostconfig="Site1",computername=Server2</code>
<code>package=c:\site1.zip</code>	<code>package=c:\site1.zip</code>

ANSWER:

Answer Area	
msdeploy -verb:sync -source:	-dest:
apphostconfig="Site1"	apphostconfig="Site1"
apphostconfig="Site1",computername=Server1	apphostconfig="Site1",computername=Server1
apphostconfig="Site1",computername=Server2	apphostconfig="Site1",computername=Server2
package=c:\site1.zip	package=c:\site1.zip

Explanation:

Reference: <https://docs.microsoft.com/en-us/iis/publish/using-web-deploy/synchronize-iis>

QUESTION 68

HOTSPOT

You have a server that runs Windows Server and has the Web Server (IIS) server role installed. Server1 hosts a single website that has the following configurations:

Is accessible by using a URL of <https://www.contoso.com:8443> and has an SSL certificate that was issued by a third-party certification authority (CA) in the Microsoft Trusted Root Program Uses anonymous authentication Was developed by using PHP You plan to use APP Service Migration Assistant to migrate the website to Azure App Service.

You need to migrate the website. The solution must minimize the number of changes made to the existing website.

What should you do manually to ensure that the website migration is successful? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

On Server1:	<div>▼</div> <div>Change the authentication method.</div> <div>Change the listening port of the website.</div> <div>Redevelop the website code by using ASP.NET.</div>
In Azure:	<div>▼</div> <div>Create an App Service plan.</div> <div>Copy the source files of the website.</div> <div>Configure a certificate and a custom domain name.</div>

ANSWER:

**Answer Area**

On Server1:	<div>▼</div> <div>Change the authentication method.</div> <div>Change the listening port of the website.</div> <div>Redevelop the website code by using ASP.NET.</div>
In Azure:	<div>▼</div> <div>Create an App Service plan.</div> <div>Copy the source files of the website.</div> <div>Configure a certificate and a custom domain name.</div>

Explanation:

Reference:

<https://docs.microsoft.com/en-us/learn/modules/migrate-app-service-migration-assistant/3-understand-assessment>

<https://docs.microsoft.com/en-us/learn/modules/migrate-app-service-migration-assistant/5-understand-migration>

QUESTION 69

DRAG DROP

Your network contains an Active Directory Domain Services (AD DS) domain. The domain contains a print server named Server1. All printers are deployed to users by using a Group Policy Object (GPO) named GPO1.

You deploy a new server named Server2.

You need to decommission Server1. The solution must meet the following requirements:

Migrate the shared printers to Server2 by using the Printer Migration Wizard.

Ensure that the users use the printers on Server2. Minimize downtime for the users.

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
Decommission Server1.	
Import the printers on Server2.	
Deploy Windows Server Hybrid Cloud Print.	
Export the printers on Server1.	
Update the service principal name (SPN) of each printer.	
Modify GPO1.	

ANSWER:

Actions	Answer Area
	Export the printers on Server1.
	Import the printers on Server2.
Deploy Windows Server Hybrid Cloud Print.	Modify GPO1.
	Decommission Server1.
Update the service principal name (SPN) of each printer.	

Explanation:

Reference: <https://docs.microsoft.com/en-us/archive/blogs/canitpro/step-by-step-migrating-print-servers-from-windowsserver-2008-to-windows-server-2012>

QUESTION 70

You have a server named Server1 that runs Windows Server and has the Hyper-V server role installed.

You import the Azure Migrate appliance as VM1.

You need to register VM1 with Azure Migrate.

What should you do in Azure Migrate? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create a project.
- B. Add a migration tool.
- C. Add an assessment tool.
- D. Generate a project key.
- E. Download the Azure Migrate installer script ZIP file.

ANSWER: A D E

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/migrate/how-to-set-up-appliance-hyper-v>

QUESTION 71

You have two servers that run Windows Server as shown in the following table.

Name	Location	Domain/workgroup
Server1	On-premises	Domain
Server2	Azure virtual machine	Workgroup

You need to copy the contents of volume E from Server1 to Server2. The solution must meet the following requirements:

Ensure that files in-use are copied. Minimize administrative effort.

What should you use?

A. Storage Migration Service

B. Azure File Sync

C. Azure Backup

D. Storage Replica

ANSWER: A

QUESTION 72

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 a single-domain Active Directory Domain Services (AD DS) forest named contoso.com. The functional level of the forest is Windows Server 2012 R2. All domain controllers run Windows Server 2012 R2.

Sysvol replicates by using the File Replication Service (FRS).

You plan to replace the existing domain controllers with new domain controllers that will run Windows Server 2022.

You need to ensure that you can add the first domain controller that runs Windows Server 2022.

Solution: You migrate sysvol from FRS to Distributed File System (DFS) Replication.

Does this meet the goal?

A. Yes

B. No

ANSWER: A

Explanation:

Reference:

<https://www.rebeladmin.com/2021/09/step-by-step-guide-active-directory-migration-from-windows-server-2008-r2-to-windows-server-2022/>

QUESTION 73

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 a single-domain Active Directory Domain Services (AD DS) forest named contoso.com. The functional level of the forest is Windows Server 2012 R2. All domain controllers run Windows Server 2012 R2.

Sysvol replicates by using the File Replication Service (FRS).

You plan to replace the existing domain controllers with new domain controllers that will run Windows Server 2022.

You need to ensure that you can add the first domain controller that runs Windows Server 2022.

Solution: You upgrade the PDC emulator.

Does this meet the goal?

A. Yes

B. No

ANSWER: B

QUESTION 74

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 a single-domain Active Directory Domain Services (AD DS) forest named contoso.com. The functional level of the forest is Windows Server 2012 R2. All domain controllers run Windows Server 2012 R2.

Sysvol replicates by using the File Replication Service (FRS).

You plan to replace the existing domain controllers with new domain controllers that will run Windows Server 2022.

You need to ensure that you can add the first domain controller that runs Windows Server 2022.

Solution: You run the Active Directory Migration Tool (ADMT).

Does this meet the goal?

A. Yes

B. No

ANSWER: B

QUESTION 75

You have an on-premises network and an Azure virtual network.

You establish a Site-to-Site VPN connection from the on-premises network to the Azure virtual network, but the connection frequently disconnects.

You need to debug the IPsec tunnel from Azure.

Which Azure VPN Gateway diagnostic log should you review?

- A. GatewayDiagnosticLog
- B. RouteDiagnosticLog
- C. IKEDiagnosticLog
- D. TunnelDiagnosticLog

ANSWER: D

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/vpn-gateway/troubleshoot-vpn-with-azure-diagnostics>

QUESTION 76

You have an Azure virtual machine named VM1 that has the Web Server (IIS) server role installed. VM1 hosts a critical lineof- business (LOB) application.

After the security team at your company deploys a new security baseline to VM1, users begin reporting that the application is unresponsive.

You suspect that the security baseline has caused networking issues.

You need to perform a network trace on VM1.

What should you do?

- A. From VM1, run netstat.
- B. From Performance Monitor on VM1, create a Data Collector Set.
- C. From the Azure portal, configure the Diagnostics settings for VM1.
- D. From the Azure portal, configure the Performance diagnostics settings for VM1.

ANSWER: D

Explanation:

Reference: <https://docs.microsoft.com/en-us/troubleshoot/azure/virtual-machines/performance-diagnostics>

QUESTION 77

You have an Azure virtual machine named VM1. Crash dumps for a process named Process1 are enabled for VM1.

When process1.exe on VM1 crashes, a technician must access the memory dump files on the virtual machine. The technician must be prevented from accessing the virtual machine.

To what should you provide the technician access?

- A. an Azure file share
- B. an Azure Log Analytics workspace
- C. an Azure Blob Storage container
- D. a managed disk

ANSWER: C

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/agents/diagnostics-extension-overview>

QUESTION 78

You have a server named Server1 that runs the Remote Desktop Session Host role service. Server1 has five custom applications installed.

Users who sign in to Server1 report that the server is slow. Task Manager shows that the average CPU usage on Server1 is above 90 percent. You suspect that a custom application on Server1 is consuming excessive processor capacity.

You plan to create a Data Collector Set in Performance Monitor to gather performance statistics from Server1.

You need to view the resources used by each of the five applications.

Which object should you add to the Data Collector Set?

- A. Processor information
- B. Processor
- C. Process
- D. Processor performance

ANSWER: C

QUESTION 79

You plan to deploy the Azure Monitor agent to 100 on-premises servers that run Windows Server.

Which parameters should you provide when you install the agent?

- A. the client ID and the secret of an Azure service principal
- B. the name and the access key of an Azure Storage account
- C. a connection string for an Azure SQL database
- D. the ID and the key of an Azure Log Analytics workspace

ANSWER: D

Explanation:

Reference: <https://docs.microsoft.com/en-us/windows-server/storage/storage-spaces/configure-azure-monitor>

QUESTION 80

Your on-premises network contains two subnets. The subnets contain servers that run Windows Server as shown in the following table.

Name	IP address
Server1	192.168.1.10
Server2	192.168.0.250
Server3	192.168.0.240
Server4	192.168.0.10

Server4 has the following IP configurations:

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . . :

IPv4 Address : 192.168.0.10

Subnet Mask : 255.255.255.0

Default Gateway : 192.168.0.1



From Server4, you can ping Server1 and Server2 successfully. When you ping Server3, you get a Request timed out response.

From Server2, you can ping Server1 and Server3 successfully.

The misconfiguration of which component on Server3 can cause the Request timed out response?

- A. default gateway
- B. IP address
- C. subnet mask
- D. DNS server

ANSWER: C

QUESTION 81

You have five Azure virtual machines.

You need to collect performance data and Windows Event logs from the virtual machines. The data collected must be sent to an Azure Storage account.

What should you install on the virtual machines?

- A. the Azure Connected Machine agent
- B. the Azure Monitor agent
- C. the Dependency agent
- D. the Telegraf agent
- E. the Azure Diagnostics extension

ANSWER: E

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/agents/diagnostics-extension-overview>

QUESTION 82

HOTSPOT

You have a server named Server1 that runs Windows Server.

On Server1, you create a Data Collector Set named CollectorSet1 based on the Basic template.

You need to configure CollectorSet1 to meet the following requirements:

Older performance counter logs must be overwritten by new ones.

Performance counter logging must stop if there is less than 500 MB of free disk space.

What should you configure for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Older performance counter logs must be overwritten by new ones:

- ☐ The Configuration properties
- ☐ The Data Manager properties
- ☐ The Performance Counter properties

Performance counter logging must stop if there is less than 500 MB of free disk space:

- ☐ The Configuration properties
- ☐ The Data Manager properties
- ☐ The Performance Counter properties

ANSWER:

Answer Area

Older performance counter logs must be overwritten by new ones:

- ☐ The Configuration properties
- ☐ The Data Manager properties
- ☒ The Performance Counter properties

Performance counter logging must stop if there is less than 500 MB of free disk space:

- ☐ The Configuration properties
- ☒ The Data Manager properties
- ☐ The Performance Counter properties

Explanation:

QUESTION 83

You have an Azure virtual machine named VM1.

You install an application on VM1, and then restart the virtual machine.

After the restart, you get the following error message: “Boot failure. Reboot and Select proper Boot Device or Insert Boot Media in selected Boot Device.” You need to mount the operating system disk offline from VM1 to a temporary virtual machine to troubleshoot the issue.

Which command should you run in Azure CLI?

- A. az vm repair create
- B. az vm boot-diagnostics enable
- C. az vm capture
- D. az vm disk attach

ANSWER: A

Explanation:

Reference:

<https://docs.microsoft.com/en-us/cli/azure/vm/repair?view=azure-cli-latest>

QUESTION 84

You have a Site-to-Site VPN between an on-premises network and an Azure VPN gateway. BGP is disabled for the Site-to-Site VPN.

You have an Azure virtual network named Vnet1 that contains a subnet named Subnet1. Subnet1 contains a virtual machine named Server1.

You can connect to Server1 from the on-premises network.

You extend the address space of Vnet1. You add a subnet named Subnet2 to Vnet1. Subnet2 uses the extended address space. You deploy an Azure virtual machine named Server2 to Subnet2.

You cannot connect to Server2 from the on-premises network. Server1 can connect to Server2.

You need to ensure that you can connect to Subnet2 from the on-premises network.

What should you do?

- A. Add an additional Site-to-Site VPN between the on-premises network and Vnet1.

- B. Add a private endpoint to Subnet2.
- C. To Subnet2, add a route table that contains a user-defined route.
- D. Update the routing information on the on-premises routers.

ANSWER: D

QUESTION 85

DRAG DROP

You have an Azure virtual machine named VM1 that runs Windows Server. VM1 has boot diagnostics configured to use a managed storage account.

You are troubleshooting connectivity issue on VM1.

You need to run a PowerShell cmdlet on VM1 by using the Azure Serial Console.

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
From the Azure portal, configure the Boot diagnostics settings for VM1 to use a custom storage account.	
From the Azure portal, open the Run command blade.	
From the Azure portal, open the Serial console blade of VM1.	
From the Azure portal, enable just in time (JIT) VM access to VM1.	
From the Serial console, run <code>ch -si 1</code> and sign in by using a local account.	
From the Serial console, run <code>cmd</code> .	

ANSWER:

Actions	Answer Area
From the Azure portal, open the Run command blade.	From the Azure portal, configure the Boot diagnostics settings for VM1 to use a custom storage account.
	From the Azure portal, open the Serial console blade of VM1.
	From the Serial console, run <code>cmd</code> .
From the Azure portal, enable just in time (JIT) VM access to VM1.	From the Serial console, run <code>ch -si 1</code> and sign in by using a local account.

Explanation:

Reference:

<https://docs.microsoft.com/en-us/troubleshoot/azure/virtual-machines/serial-console-overview> <https://docs.microsoft.com/en-us/troubleshoot/azure/virtual-machines/serial-console-windows>

