## Practice Exam Questions



AZ-801

Configuring Windows Server Hybrid Advanced Services



# **Microsoft**

### Exam AZ-801

### **Configuring Windows Server Hybrid Advanced Services**

Version: 7.0

[ Total Questions: 128 ]

### Topic break down

Topic	No. of Questions
Topic 1: Fabrikam inc	10
Topic 2: Contoso, Ltd	12
Topic 3: Misc. Questions	106

#### Topic 1, Fabrikam inc

#### 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.

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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:

- 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:

- ## 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.
- Migrate Archive1 to a new failover cluster named Cluster3 that will run Windows Server 2022.
- Migrate all users, groups, and client computers from europe.fabrikam.com to corp.fabrikam.com.
- 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:

- Migrate the www.fabrikam.com website to an Azure App Service web app named WebApp1.

#### **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.

- # Ensure that the existing leases and reservations are migrated.

#### **Question No: 1 HOTSPOT - (Topic 1)**

You are planning the europe.fabrikam.com migration to support the on-premises migration plan-Where should you install the Password Export Server (PES) service, where should you generate the encryption key? To answer, select the appropriate options in the answer area.

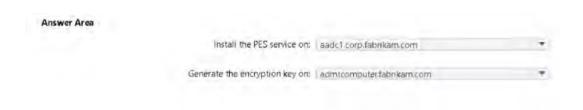
NOTE: Each correct selection is worth one point.



#### **Answer:**



#### **Explanation:**

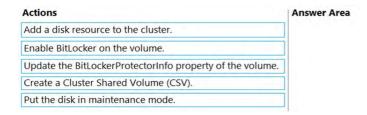


#### **Question No: 2 DRAG DROP - (Topic 1)**

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.



#### **Answer:**

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

#### **Explanation:**

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.

Graphical user

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#### Question No: 3 - (Topic 1)

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

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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 No: 4 HOTSPOT - (Topic 1)**

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.



#### **Answer:**



#### **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.

#### Question No : 5 - (Topic 1)

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**

Reference:

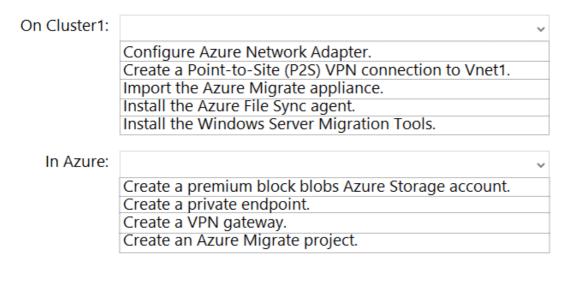
https://docs.microsoft.com/en-us/defender-for-identity/cas-isp-legacy-protocols

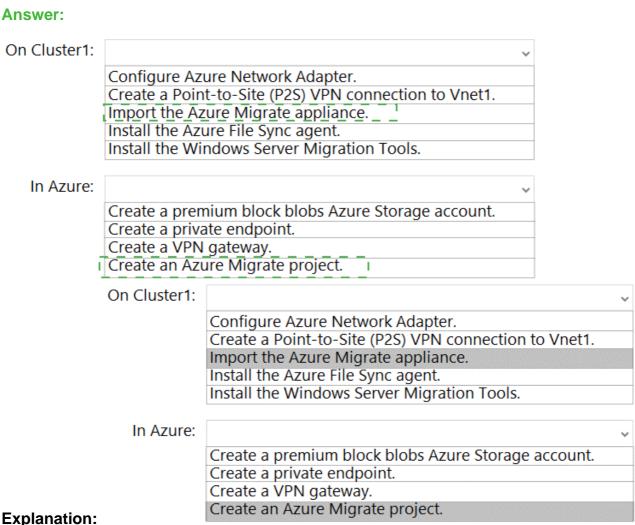
#### **Question No: 6 HOTSPOT - (Topic 1)**

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.





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#### Question No: 7 - (Topic 1)

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**

Reference:

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

#### **Question No: 8 HOTSPOT - (Topic 1)**

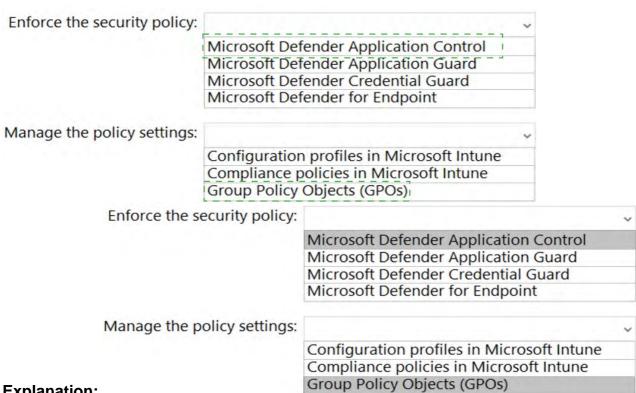
You need to implement a security policy solution to authorize the applications. The solution must meet the security requirements.

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.



#### **Answer:**



#### **Explanation:**

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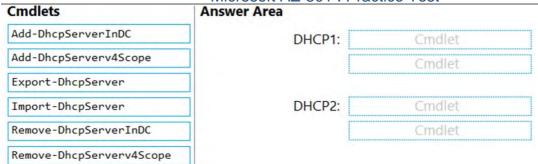
#### **Question No: 9 DRAG DROP - (Topic 1)**

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

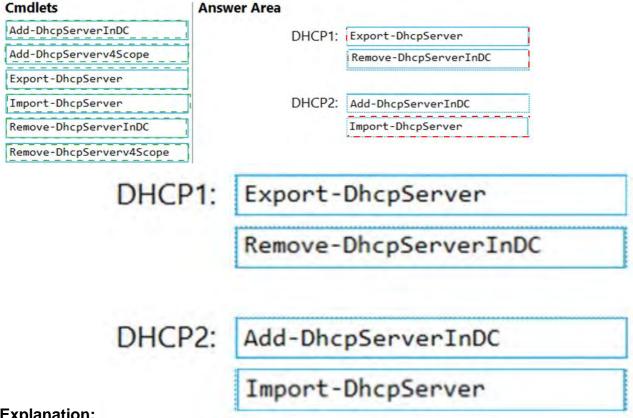
Which two PowerShell cmdlets should you run on DHCP1, and which two PowerShell cmdlets should you run on DHCP2? To answer, drag the appropriate cmdlets to the correct servers. Each cmdlet may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

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#### **Answer:**



#### **Explanation:**

Graphical user interface, text, application, chat or text message

Description automatically generated

```
Question No: 10 - (Topic 1)
```

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

#### **Topic 2, Contoso, Ltd**

#### 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	001	Group2, Group4
User2	Users	Group2
User3	QU1	Group3, Group4
Admin1	CUI	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	DUT

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 share 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	Endpoint 1	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

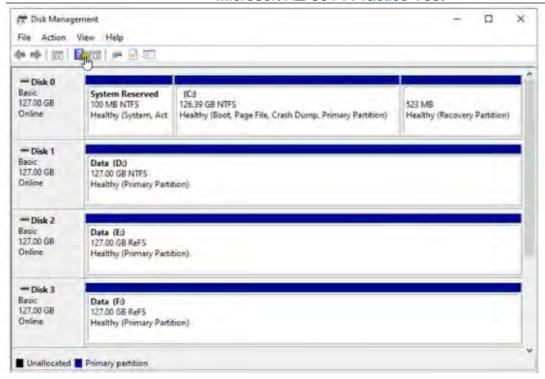
Server4 has no connection security rules.

#### **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:

- # Replicate the virtual machines from Cluster2 to an Azure Recovery Services vault.
- # 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.
- # Whenever possible, use the principle of least privilege.

**Question No: 11 HOTSPOT - (Topic 2)** 

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

NOTE: Each correct selection is worth one point.

Statements		No
User1 can sign in to Server4 by using Remote Desktop.	0	0
User2 can sign in to Server4 by using Remote Desktop.	0	0
User3 can sign in to Server4 by using Remote Desktop.	0	0

#### **Answer:**

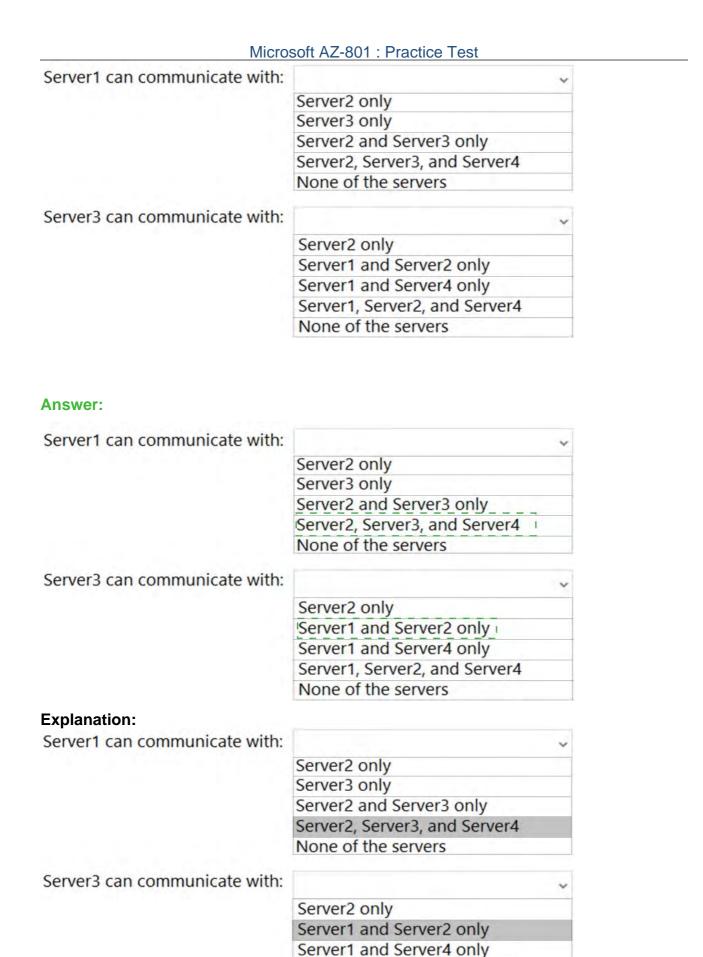
	Statements	Yes	No		
User1 can s	sign in to Server4 by using Remote Desktop.	0	0		
User2 can sign in to Server4 by using Remote Desktop.					
User3 can s	sign in to Server4 by using Remote Desktop.	0	0		
	Statements			Yes	No
User1 can sign in to Server4 by using Remote Desktop.					0
User2 can sign in to Server4 by using Remote Desktop.					0
Explanation: User3 can sign in to Server4 by using Remote Desktop.			0	0	
Text					

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#### **Question No : 12 HOTSPOT - (Topic 2)**

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.



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None of the servers

Server1, Server2, and Server4

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#### Question No: 13 - (Topic 2)

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**

Reference:

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

#### Question No : 14 - (Topic 2)

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** 

#### **Question No: 15 HOTSPOT - (Topic 2)**

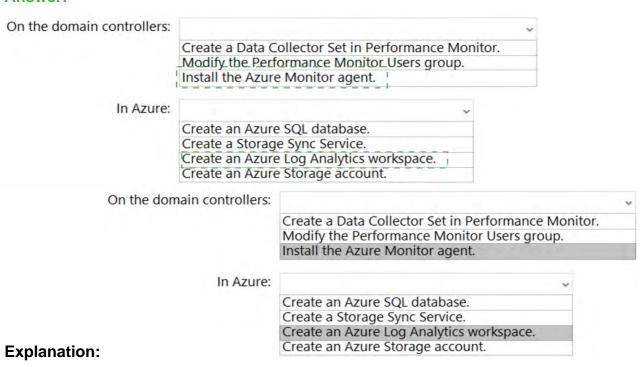
You need to implement alerts for the domain controllers. The solution must meet the technical requirements.

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.



#### **Answer:**



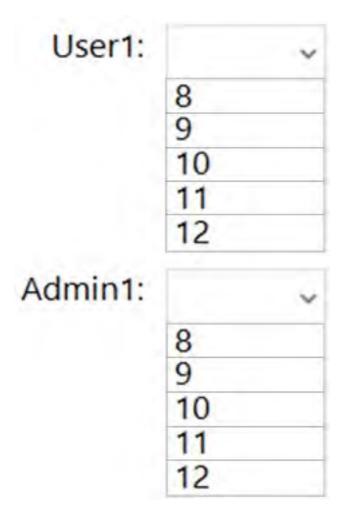
Text

Description automatically generated

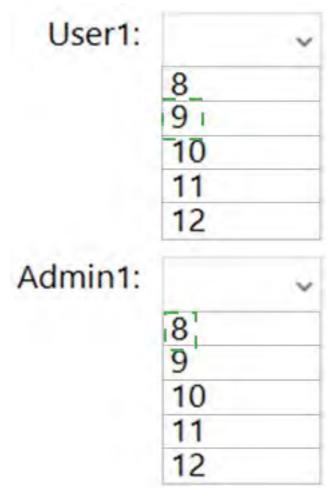
#### **Question No : 16 HOTSPOT - (Topic 2)**

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

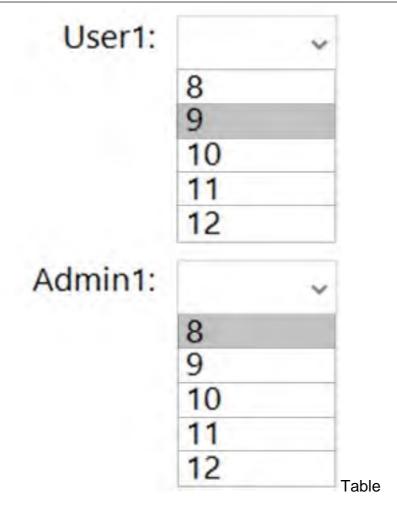
NOTE: Each correct selection is worth one point.



**Answer:** 



### **Explanation:**



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#### 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 No: 17 - (Topic 2)

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** 

Reference:

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

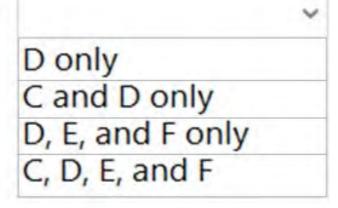
Question No : 18 HOTSPOT - (Topic 2)

You need to configure BitLocker on Server4.

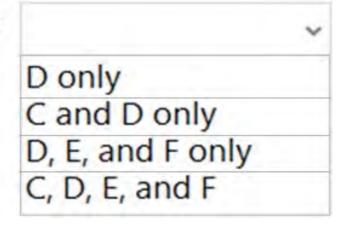
On which volumes can you turn on BitLocker, and on which volumes can you turn on autounlock? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### BitLocker:



## Auto-unlock:



#### **Answer:**

BitLocker:

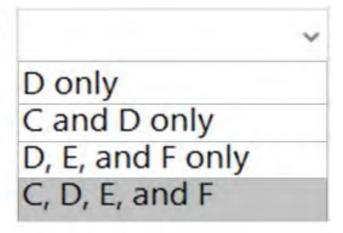
D only
C and D only
D, E, and F only
C, D, E, and F

Auto-unlock:

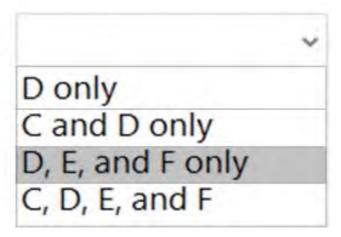
D only
C and D only
D, E, and F only
C, D, E, and F

#### **Explanation:**

### BitLocker:



### Auto-unlock:



**Question No: 19 DRAG DROP - (Topic 2)** 

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.

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			
Create an Azure Recovery Services vault.	Create an Azure Recovery Services vault.			
Install Azure Connected Machine agents.	Create a Hyper-V site.			
Install and register Azure Site Recovery Providers.	<u> </u>			
Create and associate replication policies.	Install and register Azure Site Recovery Providers.			
Create a Hyper-V site.	Create and associate replication policies.			

Create an Azure Recovery Services vault.

Create a Hyper-V site.

Install and register Azure Site Recovery Providers.

Create and associate replication policies.

#### **Explanation:**

Text

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#### Question No : 20 - (Topic 2)

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-replica-broker-required

#### Question No : 21 - (Topic 2)

You are evaluating the technical requirements tor Cluster2.

What is the minimum number of Azure Site Recovery Providers that you should install?

- **A**. 1
- **B**. 4
- **C**. 12
- **D**. 16

**Answer: B** 

#### Question No : 22 - (Topic 2)

Which domain controller should be online to meet the technical requirements for DC4?

- A. DC1
- B. DC2
- **C.** DC3

**Answer: B** 

#### **Topic 3, Misc. Questions**

#### Question No : 23 - (Topic 3)

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.