

AZ-104

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AZ-104

Microsoft Azure Administrator



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Implement and manage storage

Question Set 1

QUESTION 1

HOTSPOT

You have an Azure Storage account named storage1.

You have an Azure Service app named App1 and an app named App2 that runs in an Azure container instance. Each app uses a managed identity.

You need to ensure that App1 and App2 can read blobs from storage1. The solution must meet the following requirements:

- Minimize the number of secrets used.
- Ensure that App2 can only read from storage1 for the next 30 days.

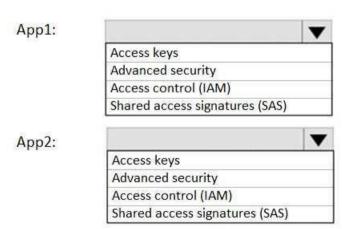
What should you configure in storage1 for each app? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



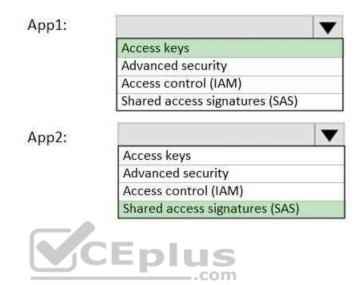
Answer Area





Correct Answer:

Answer Area



Section: (none) Explanation

Explanation/Reference:

Explanation:

App1: Access keys

App2: Shared access signature (SAS)

A shared access signature (SAS) provides secure delegated access to resources in your storage account without compromising the security of your data. With a SAS, you have granular control over how a client can access your data. You can control what resources the client may access, what permissions they have on those resources, and how long the SAS is valid, among other parameters.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview

QUESTION 2 HOTSPOT



You need to create an Azure Storage account that meets the following requirements: •

Minimizes costs

- Supports hot, cool, and archive blob tiers
- Provides fault tolerance if a disaster affects the Azure region where the account resides

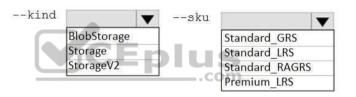
How should you complete the command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

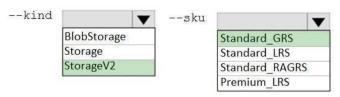
az storage account create -q RG1 -n storageaccount1



Correct Answer:

Answer Area

az storage account create -g RG1 -n storageaccount1



Section: (none) Explanation



Explanation/Reference:

Explanation:

Box 1: StorageV2

You may only tier your object storage data to hot, cool, or archive in Blob storage and General Purpose v2 (GPv2) accounts. General Purpose v1 (GPv1) accounts do not support tiering.

General-purpose v2 accounts deliver the lowest per-gigabyte capacity prices for Azure Storage, as well as industry-competitive transaction prices.

Box 2: Standard GRS

Geo-redundant storage (GRS): Cross-regional replication to protect against region-wide unavailability.

Incorrect Answers:

Locally-redundant storage (LRS): A simple, low-cost replication strategy. Data is replicated within a single storage scale unit.

Read-access geo-redundant storage (RA-GRS): Cross-regional replication with read access to the replica. RA-GRS provides read-only access to the data in the secondary location, in addition to geo-replication across two regions, but is more expensive compared to GRS.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-grs https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

QUESTION 3

You have an Azure subscription that contains the resources in the following table.

Name	Type Resource group	
RG1		
store1	Azure Storage account	
Sync1	Azure File Sync	

Store1 contains a file share named data. Data contains 5,000 files.

You need to synchronize the files in the file share named data to an on-premises server named Server1.

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

NOTE: Each correct selection is worth one point.

- A. Create a container instance
- B. Register Server1
- C. Install the Azure File Sync agent on Server1



D. Download an automation script

E. Create a sync group

Correct Answer: BCE

Section: (none) Explanation

Explanation/Reference:

Explanation:

Step 1 (C): Install the Azure File Sync agent on Server1

The Azure File Sync agent is a downloadable package that enables Windows Server to be synced with an Azure file share

Step 2 (B): Register Server1.

Register Windows Server with Storage Sync Service

Registering your Windows Server with a Storage Sync Service establishes a trust relationship between your server (or cluster) and the Storage Sync Service.

Step 3 (E): Create a sync group and a cloud endpoint.

A sync group defines the sync topology for a set of files. Endpoints within a sync group are kept in sync with each other. A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints. A server endpoint represents a path on registered server.

Reference: https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

QUESTION 4

HOTSPOT

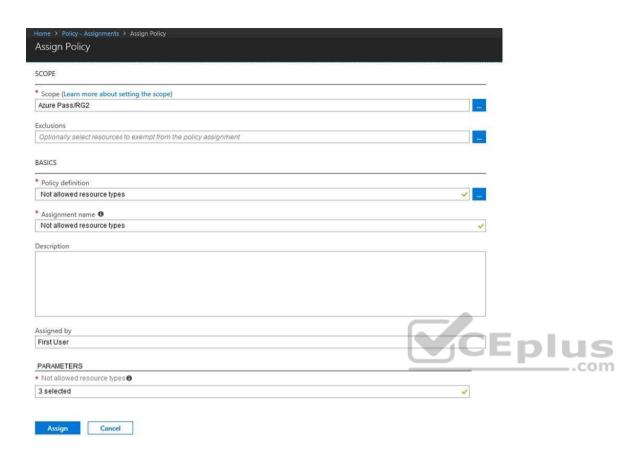
You have an Azure subscription that contains the resources shown in the following table.

Name	Туре	Resource group
VNET1	Virtual network	RG1
VNET2	Virtual network	RG2
VM1	Virtual machine	RG2

The status of VM1 is Running.

You assign an Azure policy as shown in the exhibit. (Click the Exhibit tab.)





You assign the policy by using the following parameters:

Microsoft.ClassicNetwork/virtualNetworks
Microsoft.Network/virtualNetworks
Microsoft.Compute/virtualMachines

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:



Answer Area

	Statements	Yes	No
	An administrator can move VNET1 to RG2	O	0
	The state of VM1 changed to deallocated	0	0
	An administrator can modify the address space of VNET2	0	0
Answer Area			
	Statements	Yes	No
	Statements An administrator can move VNET1 to RG2	Yes	No
	An administrator can move VNET1 to RG2 The state of VM1 changed to deallocated	Yes	No
	An administrator can move VNET1 to RG2	Yes	No O

Section: (none) Explanation

Correct Answer:

Explanation/Reference:

QUESTION 5DRAG DROP

You have an Azure subscription that contains a storage account.

You have an on-premises server named Server1 that runs Windows Server 2016. Server1 has 2 TB of data.

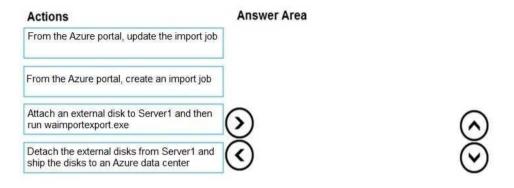
You need to transfer the data to the storage account by using the Azure Import/Export service.



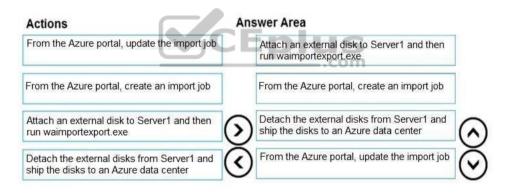
In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:



Correct Answer:



Section: (none) Explanation

Explanation/Reference:

Explanation:

At a high level, an import job involves the following steps:

Step 1: Attach an external disk to Server1 and then run waimportexport.exe



Determine data to be imported, number of drives you need, destination blob location for your data in Azure storage. Use the WAImportExport tool to copy data to disk drives. Encrypt the disk drives with BitLocker.

Step 2: From the Azure portal, create an import job.

Create an import job in your target storage account in Azure portal. Upload the drive journal files.

Step 3: Detach the external disks from Server1 and ship the disks to an Azure data center.

Provide the return address and carrier account number for shipping the drives back to you.

Ship the disk drives to the shipping address provided during job creation.

Step 4: From the Azure portal, update the import job

Update the delivery tracking number in the import job details and submit the import job.

The drives are received and processed at the Azure data center.

The drives are shipped using your carrier account to the return address provided in the import job.

 $\textbf{Reference:} \ \underline{\text{https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service}$

QUESTION 6

HOTSPOT

You have Azure subscription that includes following Azure file shares:

Name	In storage account	Location
share1	storage1	West US
share2	storage1	West US

You have the following on-premises servers:

Name	Folders
Server1	D:\Folder1, E:\Folder2
Server2	D:\Data

You create a Storage Sync Service named Sync1 and an Azure File Sync group named Group1. Group1 uses share1 as a cloud endpoint.

You register Server1 and Server2 in Sync1. You add D:\Folder1 on Server1 as a server endpoint of Group1.

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:

Answer Area

Statements	Yes	No
share2 can be added as a cloud endpoint for Group1	0	0
E:\Folder2 on Server1 can be added as a server endpoint for Group1	0	0
D:\Data on Server2 can be added as a server endpoint for Group1	0	0

Correct Answer:

Answer Area

Statements	Yes	No
share2 can be added as a cloud endpoint for Group1	0	0
E:\Folder2 on Server1 can be added as a server endpoint for Group1	0	0
D:\Data on Server2 can be added as a server endpoint for Group1	0	0

Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: No

Group1 already has a cloud endpoint named Share1.

A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints.

Box 2: Yes

Yes, one or more server endpoints can be added to the sync group.

Box 3: Yes



Yes, one or more server endpoints can be added to the sync group.

Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

QUESTION 7

DRAG DROP

You have an Azure subscription named Subscription1.

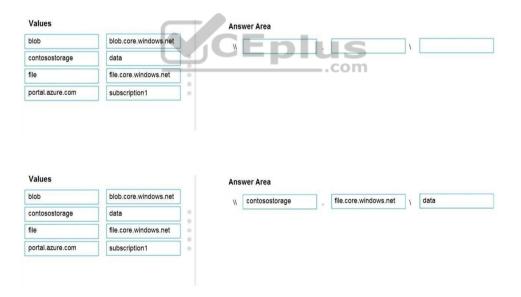
You create an Azure Storage account named contosostorage, and then you create a file share named data.

Which UNC path should you include in a script that references files from the data file share? To answer, drag the appropriate values to the correct targets. Each value 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:

Correct Answer:



Section: (none) Explanation



Explanation/Reference:

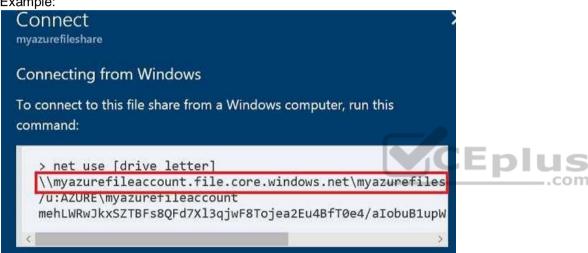
Explanation:

Box 1: contosostorage The name of account Box 2: file.core.windows.net

Box 3: data

The name of the file share is data.

Example:



Reference: https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-fileswindows

QUESTION 8

HOTSPOT

You have an Azure subscription that contains an Azure Storage account.

You plan to copy an on-premises virtual machine image to a container named vmimages.

You need to create the container for the planned image.

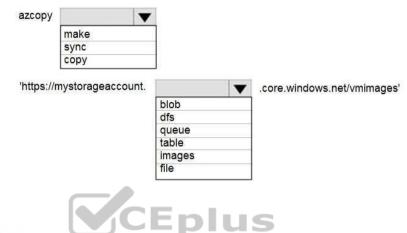
Which command should you run? To answer, select the appropriate options in the answer area.



NOTE: Each correct selection is worth one point.

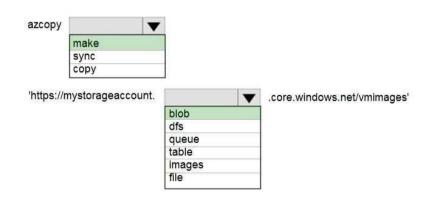
Hot Area:

Answer Area



Correct Answer:

Answer Area



Section: (none) Explanation



Explanation/Reference:

QUESTION 9

HOTSPOT

You have an Azure File sync group that has the endpoints shown in the following table.

Name	Туре
Endpoint1	Cloud endpoint
Endpoint2	Server endpoint
Endpoint3	Server endpoint

Cloud tiering is enabled for Endpoint3.

You add a file named File1 to Endpoint1 and a file named File2 to Endpoint2.

On which endpoints will File1 and File2 be available within 24 hours of adding the files? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area



File1:

Endpoint1 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

File2:

Endpoint2 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

Correct Answer:



Answer Area

Endpoint1 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

File2:

Endpoint2 only
Endpoint3 only
Endpoint2 and Endpoint3 only
Endpoint1, Endpoint2, and Endpoint3

Section: (none) Explanation

Explanation/Reference:

Explanation:

File1: Endpoint3 only

Cloud Tiering: A switch to enable or disable cloud tiering. When enabled, cloud tiering will tier files to your Azure file shares. This converts on-premises file shares into a cache, rather than a complete copy of the dataset, to help you manage space efficiency on your server. With cloud tiering, infrequently used or accessed files can be tiered to Azure Files.

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File2: Endpoint1, Endpoint2, and Endpoint3

Reference:

 $\underline{https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-cloud-tiering}$

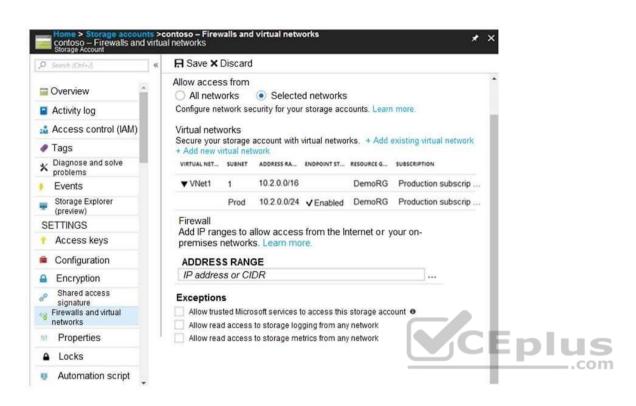
QUESTION 10

HOTSPOT

You have several Azure virtual machines on a virtual network named VNet1.

You configure an Azure Storage account as shown in the following exhibit.





Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

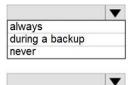
Hot Area:



Answer Area

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account [answer choice].

Azure Backup will be able to back up the unmanaged hard disks of the virtual machines in the storage account [answer choice].



always during a backup

never

Correct Answer:

Answer Area

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account [answer choice].

Azure Backup will be able to back up the unmanaged hard disks of the virtual machines in the storage account [answer choice].

always during a backup never

always during a backup never

Section: (none) Explanation

Explanation/Reference:

Explanation:

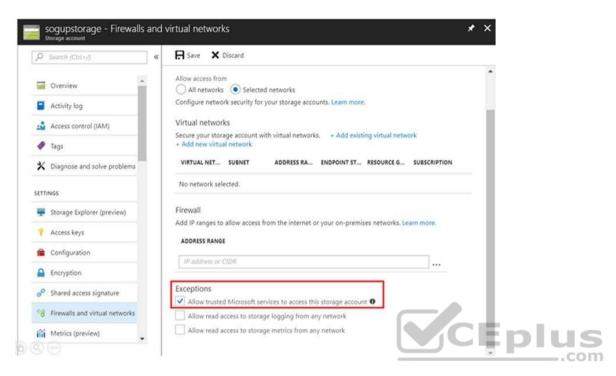
Box 1: always

Endpoint status is enabled.

Box 2: Never

After you configure firewall and virtual network settings for your storage account, select Allow trusted Microsoft services to access this storage account as an exception to enable Azure Backup service to access the network restricted storage account.





Reference: https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-windows https://docs.microsoft.com/en-us/blog/azure-backup-now-supports-storage-accounts-secured-with-azure-storage-firewalls-and-virtual-networks/

QUESTION 11

HOTSPOT

You have a sync group named Sync1 that has a cloud endpoint. The cloud endpoint includes a file named File1.txt.

Your on-premises network contains servers that run Windows Server 2016. The servers are configured as shown in the following table.

Name	Share	Share contents
Server1	Share1	File1.txt, File2.txt
Server2	Share2	File2.txt, File3.txt

You add Share1 as an endpoint for Sync1. One hour later, you add Share2 as an endpoint for Sync1.

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



					P
NOTE: Each correct selection is worth o	ne point.				
Hot Area:					
	Answer Area				
	Statements	Yes	No		
	On the cloud endpoint, File1.txt is overwritten by File1.txt from Share1.	0	0		
	On Server1, File1.txt is overwritten by File1.txt from the cloud endpoint.	0	0		
	File1.txt from Share1 replicates to Share2.	0	0		
Correct Answer:					
	Answer Area				
	Statements	Yes	No		
	On the cloud endpoint, File1.txt is overwritten by File1.txt from Share1.	0	0		
	On Server1, File1.txt is overwritten by File1.txt from the cloud endpoint.	0	0		
	File1.txt from Share1 replicates to Share2.	0	0		
Section: (none) Explanation					
Explanation/Reference: Explanation:					
Box 1: Yes If you add an Azure file share that has a on other endpoints in the sync group.	n existing set of files as a cloud endpoint to a sync group, the ex	kisting files	s are merged with any ot	ther files that are alrea	ady
Box 2: No					
Box 3: Yes					



Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-planning

QUESTION 12

You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Kind	Performance	Replication	Access tier
storage1	Storage (general purpose v1)	Premium	Geo-redundant storage (GRS)	None
storage2	StorageV2 (general purpose v2)	Standard	Locally-redundant storage (LRS)	Cool
storage3	StorageV2 (general purpose v2)	Premium	Read-access geo- redundant storage (RA-GRS)	Hot
storage4	BlobStorage	Standard	Locally-redundant storage (LRS)	Hot

You need to identify which storage account can be converted to zone-redundant storage (ZRS) replication by requesting a live migration from Azure support.

What should you identify?

A. storage1

B. storage2

C. storage3

D. storage4

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

ZRS currently supports standard general-purpose v2, FileStorage and BlockBlobStorage storage account types.

Incorrect Answers:

A, not C: Live migration is supported only for storage accounts that use LRS replication. If your account uses GRS or RA-GRS, then you need to first change your account's replication type to LRS before proceeding. This intermediary step removes the secondary endpoint provided by GRS/RA-GRS.

Also, only standard storage account types support live migration. Premium storage accounts must be migrated manually.

D: ZRS currently supports standard general-purpose v2, FileStorage and BlockBlobStorage storage account types.



Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-zrs

QUESTION 13

You have an Azure subscription that contains a storage account named account1.

You plan to upload the disk files of a virtual machine to account1 from your on-premises network. The on-premises network uses a public IP address space of 131.107.1.0/24.

You plan to use the disk files to provision an Azure virtual machine named VM1. VM1 will be attached to a virtual network named VNet1. VNet1 uses an IP address space of 192.168.0.0/24.

You need to configure account1 to meet the following requirements:

- Ensure that you can upload the disk files to account1.
- Ensure that you can attach the disks to VM1. •

Prevent all other access to account1.

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

NOTE: Each correct selection is worth one point.

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- A. From the Firewalls and virtual networks blade of account1, select Selected networks.
- B. From the Firewalls and virtual networks blade of account1, select Allow trusted Microsoft services to access this storage account.
- C. From the Firewalls and virtual networks blade of account1, add the 131.107.1.0/24 IP address range.
- D. From the Firewalls and virtual networks blade of account1, add VNet1.
- E. From the Service endpoints blade of VNet1, add a service endpoint.

Correct Answer: AE Section: (none) Explanation

Explanation/Reference:

Explanation:

A: By default, storage accounts accept connections from clients on any network. To limit access to selected networks, you must first change the default action. Azure portal

- 1. Navigate to the storage account you want to secure.
- 2. Click on the settings menu called Firewalls and virtual networks.



- 3. To deny access by default, choose to allow access from 'Selected networks'. To allow traffic from all networks, choose to allow access from 'All networks'.
- 4. Click Save to apply your changes.

E: Grant access from a Virtual Network

Storage accounts can be configured to allow access only from specific Azure Virtual Networks.

By enabling a Service Endpoint for Azure Storage within the Virtual Network, traffic is ensured an optimal route to the Azure Storage service. The identities of the virtual network and the subnet are also transmitted with each request.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-network-security

QUESTION 14

DRAG DROP

You have an on-premises file server named Server1 that runs Windows Server 2016.

You have an Azure subscription that contains an Azure file share.

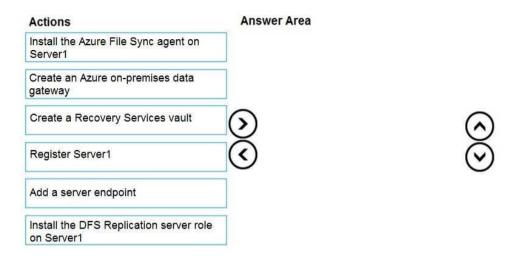
You deploy an Azure File Sync Storage Sync Service, and you create a sync group.

You need to synchronize files from Server1 to Azure.

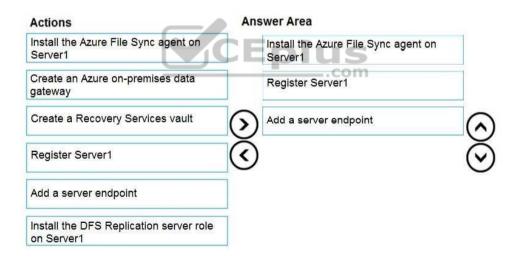
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:





Correct Answer:



Section: (none) Explanation

Explanation/Reference:

Explanation:



Step 1: Install the Azure File Sync agent on Server1 The Azure File Sync agent is a downloadable package that enables Windows Server to be synced with an Azure file share

Step 2: Register Server1.

Register Windows Server with Storage Sync Service

Registering your Windows Server with a Storage Sync Service establishes a trust relationship between your server (or cluster) and the Storage Sync Service.

Step 3: Add a server endpoint

Create a sync group and a cloud endpoint.

A sync group defines the sync topology for a set of files. Endpoints within a sync group are kept in sync with each other. A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints. A server endpoint represents a path on registered server.

Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

QUESTION 15

HOTSPOT

You plan to create an Azure Storage account in the Azure region of East US 2.

You need to create a storage account that meets the following requirements:

Replicates synchronously.

• Remains available if a single data center in the region fails.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Replication:

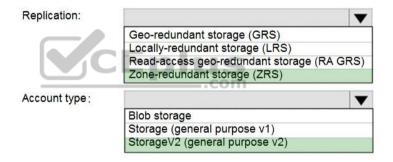
Geo-redundant storage (GRS)
Locally-redundant storage (LRS)
Read-access geo-redundant storage (RA GRS)
Zone-redundant storage (ZRS)

Account type:

Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Correct Answer:

Answer Area



Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: Zone-redundant storage (ZRS)

Zone-redundant storage (ZRS) replicates your data synchronously across three storage clusters in a single region.

LRS would not remain available if a data center in the region fails GRS and RA GRS use asynchronous replication.



Box 2: StorageV2 (general purpose V2)

ZRS only support GPv2.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-zrs

QUESTION 16

You plan to use the Azure Import/Export service to copy files to a storage account.

Which two files should you create before you prepare the drives for the import job? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. an XML manifest file

B. a dataset CSV file

C. a JSON configuration file

D. a PowerShell PS1 file

E. a driveset CSV file

Correct Answer: DE Section: (none) Explanation



Explanation/Reference:

Explanation:

D: Modify the dataset.csv file in the root folder where the tool resides. Depending on whether you want to import a file or folder or both, add entries in the dataset.csv

file

E: Modify the driveset.csv file in the root folder where the tool resides.

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-to-files

QUESTION 17

You have a Recovery Service vault that you use to test backups. The test backups contain two protected virtual machines.

You need to delete the Recovery Services vault.



What should you do first?

- A. From the Recovery Service vault, delete the backup data.
- B. Modify the disaster recovery properties of each virtual machine.
- C. Modify the locks of each virtual machine.
- D. From the Recovery Service vault, stop the backup of each backup item.

Correct Answer: D Section: (none) Explanation

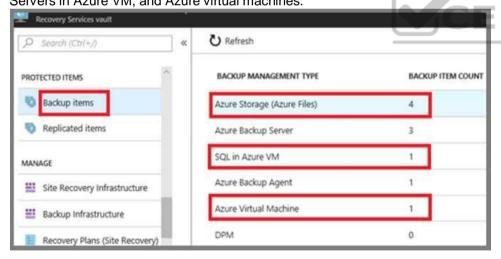
Explanation/Reference:

Explanation:

You can't delete a Recovery Services vault if it is registered to a server and holds backup data. If you try to delete a vault, but can't, the vault is still configured to receive backup data.

Remove vault dependencies and delete vault

In the vault dashboard menu, scroll down to the Protected Items section, and click Backup Items. In this menu, you can stop and delete Azure File Servers, SQL Servers in Azure VM, and Azure virtual machines.



Reference:

https://docs.microsoft.com/en-us/azure/backup/backup-azure-delete-vault



QUESTION 18

HOTSPOT

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Type	Location	Resource group
RG1	Resource group	West US	Not applicable
RG2	Resource group	West US	Not applicable
Vault1	Recovery Services vault	Central US	RG1
Vault2	Recovery Services vault	West US	RG2
VM1	Virtual machine	Central US	RG2
storage1	Storage account	West US	RG1
SQL1	Azure SQL database	East US	RG2

In storage1, you create a blob container named blob1 and a file share named share1.

Which resources can be backed up to Vault1 and Vault2? To answer, select the appropriate options in the answer area.

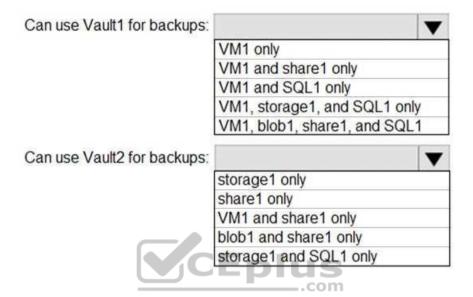
NOTE: Each correct selection is worth one point.

Hot Area:





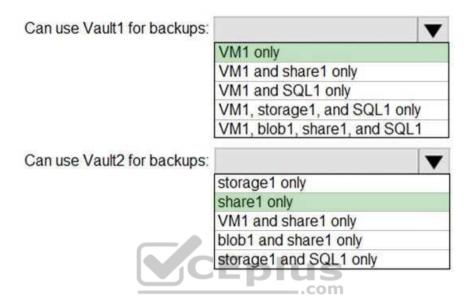
Answer Area



Correct Answer:



Answer Area



Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: VM1 only

VM1 is in the same region as Vault1.

File1 is not in the same region as Vautl1.

SQL is not in the same region as Vault1.

Blobs cannot be backup up to service vaults.

Note: To create a vault to protect virtual machines, the vault must be in the same region as the virtual machines.

Box 2: Share1 only.

Storage1 is in the same region (West USA) as Vault2. Share1 is in Storage1.



Note: After you select Backup, the Backup pane opens and prompts you to select a storage account from a list of discovered supported storage accounts. They're either associated with this vault or present in the same region as the vault, but not yet associated to any Recovery Services vault.

Reference:

https://docs.microsoft.com/bs-cyrl-ba/azure/backup/backup-create-rs-vault

https://docs.microsoft.com/en-us/azure/backup/backup-afs

QUESTION 19

You have an Azure subscription named Subscription1.

You have 5 TB of data that you need to transfer to Subscription1.

You plan to use an Azure Import/Export job.

What can you use as the destination of the imported data?

A. a virtual machine

B. an Azure Cosmos DB database

C. Azure File Storage

D. the Azure File Sync Storage Sync Service

Correct Answer: C Section: (none) Explanation



Explanation/Reference:

Explanation:

Azure Import/Export service is used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter.

The maximum size of an Azure Files Resource of a file share is 5 TB.

Note:

There are several versions of this question in the exam. The question has two correct answers:

- Azure File Storage
- 2. Azure Blob Storage

The question can have other incorrect answer options, including the following:

Azure Data Lake Store



Azure SQL Database
 Azure Data Factory

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service

QUESTION 20

You have an Azure Storage account named storage1.

You plan to use AzCopy to copy data to storage1.

You need to identify the storage services in storage1 to which you can copy the data.

What should you identify?

A. blob, file, table, and queue

B. blob and file only

C. file and table only

D. file only

E. blob, table, and queue only

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

AzCopy is a command-line utility that you can use to copy blobs or files to or from a storage account.

Incorrect Answers:

A, C, E: AzCopy does not support table and queue storage services.

D: AzCopy supports file storage services, as well as blob storage services.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10

QUESTION 21

HOTSPOT

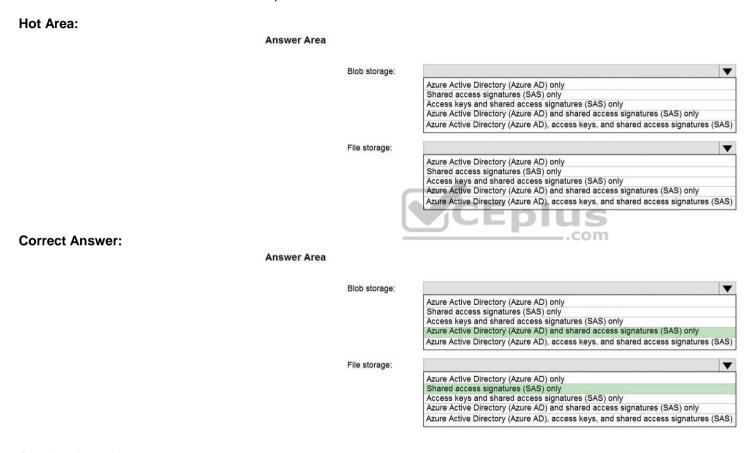


You have an Azure Storage account named storage1 that uses Azure Blob storage and Azure File storage.

You need to use AzCopy to copy data to the blob storage and file storage in storage1.

Which authentication method should you use for each type of storage? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Section: (none) Explanation

Explanation/Reference:

Explanation:



You can provide authorization credentials by using Azure Active Directory (AD), or by using a Shared Access Signature (SAS) token.

Box 1:

Both Azure Active Directory (AD) and Shared Access Signature (SAS) token are supported for Blob storage.

Box 2:

Only Shared Access Signature (SAS) token is supported for File storage.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10

QUESTION 22

You have an Azure subscription that contains an Azure Storage account.

You plan to create an Azure container instance named container1 that will use a Docker image named Image1. Image1 contains a Microsoft SQL Server instance that requires persistent storage.

You need to configure a storage service for Container1.

What should you use?

A. Azure Files

B. Azure Blob storage

C. Azure Queue storage

D. Azure Table storage

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 23

You have an app named App1 that runs on two Azure virtual machines named VM1 and VM2.

You plan to implement an Azure Availability Set for App1. The solution must ensure that App1 is available during planned maintenance of the hardware hosting VM1 and VM2.

What should you include in the Availability Set?





- A. one update domain
- B. two fault domains
- C. one fault domain
- D. two update domains

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

Microsoft updates, which Microsoft refers to as planned maintenance events, sometimes require that VMs be rebooted to complete the update. To reduce the impact on VMs, the Azure fabric is divided into update domains to ensure that not all VMs are rebooted at the same time.

Incorrect Answers:

A: An update domain is a group of VMs and underlying physical hardware that can be rebooted at the same time.

B, C: A fault domain shares common storage as well as a common power source and network switch. It is used to protect against unplanned system failure.

References: https://petri.com/understanding-azure-availability-sets

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-availability-

sets

QUESTION 24

You have an Azure subscription named Subscription1.

You have 5 TB of data that you need to transfer to Subscription1.

You plan to use an Azure Import/Export job.

What can you use as the destination of the imported data?

- A. an Azure Cosmos DB database
- B. Azure Blob storage
- C. Azure Data Lake Store
- D. the Azure File Sync Storage Sync Service

Correct Answer: B



Section: (none) Explanation

Explanation/Reference:

Explanation:

Azure Import/Export service is used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter.

Note:

There are several versions of this question in the exam. The question has two correct answers:

- 1. Azure File Storage
- 2. Azure Blob Storage

The question can have other incorrect answer options, including the following:

- a virtual machine -

Azure SQL Database •

Azure Data Factory

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service

QUESTION 25

DRAG DROP

You have an Azure subscription that contains an Azure file share.

You have an on-premises server named Server1 that runs Windows Server 2016.

You plan to set up Azure File Sync between Server1 and the Azure file share.

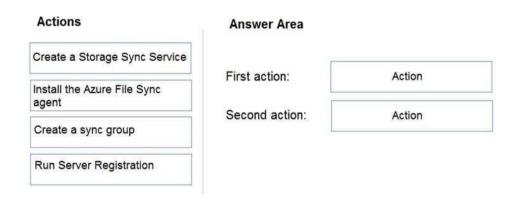
You need to prepare the subscription for the planned Azure File Sync.

Which two actions should you perform in the Azure subscription? To answer, drag the appropriate actions to the correct targets. Each action 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.

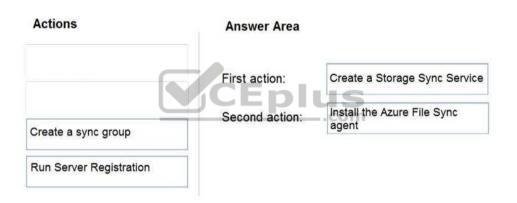
NOTE: Each correct selection is worth one point.

Select and Place:





Correct Answer:



Section: (none) Explanation

Explanation/Reference:

Explanation:

First action: Create a Storage Sync Service

The deployment of Azure File Sync starts with placing a Storage Sync Service resource into a resource group of your selected subscription.

Second action: Install the Azure File Sync agent

The Azure File Sync agent is a downloadable package that enables Windows Server to be synced with an Azure file share.



Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

QUESTION 26

HOTSPOT

You have an Azure subscription that contains the file shares shown in the following table.

Name	Location
share1	West US
share2	West US
share3	East US

You have the on-premises file shares shown in the following table.

Name	Server	Path
data1	Server1	D:\Folder1
data2	Server2	E:\Folder2
data3	Server3	E:\Folder2



You create an Azure file sync group named Sync1 and perform the following actions:

- Add share1 as the cloud endpoint for Sync1.
- Add data1 as a server endpoint for Sync1. •

Register Server1 and Server2 to Sync1.

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:



Answer Area

Statements	Yes	No
You can add share3 as an additional cloud endpoint for Sync1.	0	0
You can add data2 as an additional server endpoint for Sync1.	0	0
You can add data3 as an additional server endpoint for Sync1.	0	0

Correct Answer:

Answer Area

Statements	Yes	No
You can add share3 as an additional cloud endpoint for Sync1.	0	0
You can add data2 as an additional server endpoint for Sync1.	0	0
You can add data3 as an additional server endpoint for Sync1.	0	0

Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: No

A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints.

Box 2: Yes

Data2 is located on Server2 which is registered to Sync1.

Box 3: No

Data3 is located on Server3 which is not registered to Sync1.



Reference: https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide?tabs=azure-portal%2Cproactive-portal#create-a-sync-group-and-a-cloudendpoint

QUESTION 27

HOTSPOT

You have an Azure subscription named Subscription1 that contains the resources shown in the following table:

Name	Type	Location	Resource group
RG1	Resource group	East US	Not applicable
RG2	Resource group	West US	Not applicable
Vault1	Recovery Services vault	West Europe	RG1
storage1	Storage account	East US	RG2
storage2	Storage account	West US	RG1
storage3	Storage account	West Europe	RG2
Analytics1	Log Analytics workspace	East US	RG1
Analytics2	Log Analytics workspace	West US	RG2
Analytics3	Log Analytics workspace	West Europe	RG1

You plan to configure Azure Backup reports for Vault1.

You are configuring the Diagnostics settings for the AzureBackupReports log.

Which storage accounts and which Log Analytics workspaces can you use for the Azure Backup reports of Vault1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Storage accounts:

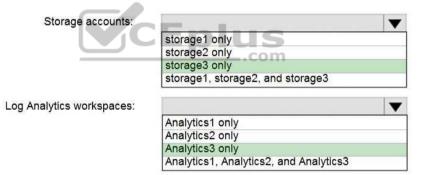
Log Analytics workspaces:

storage1 only
storage2 only
storage3 only
storage1, storage2, and storage3

Analytics1 only
Analytics2 only
Analytics3 only
Analytics1, Analytics2, and Analytics3

Correct Answer:

Answer Area



Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: storage3 only

Vault1 and storage3 are both in West Europe.



Box 2: Analytics3

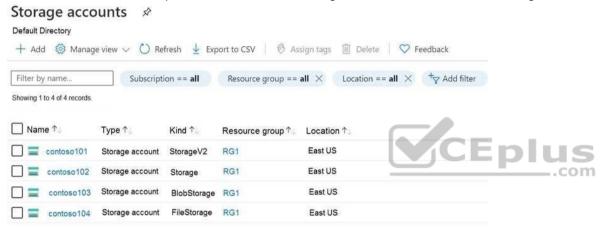
Vault1 and Analytics3 are both in West Europe.

Reference: https://docs.microsoft.com/en-us/azure/backup/backup-azure-configure-reports

QUESTION 28

HOTSPOT

You have an Azure subscription that contains the storage accounts shown in the following exhibit.



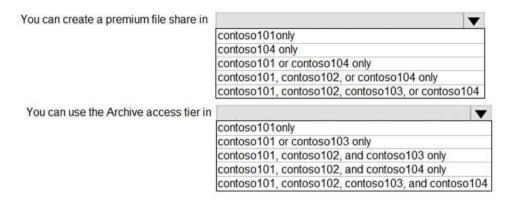
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

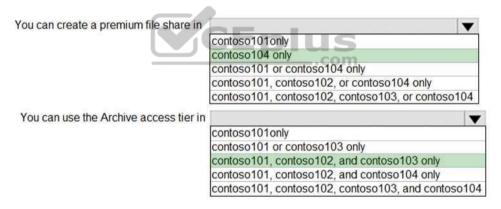


Answer Area



Correct Answer:

Answer Area



Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: contoso104 only

Premium file shares are hosted in a special purpose storage account kind, called a FileStorage account.



Box 2: contoso101, contoso102, and contos103 only

Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare?tabs=azure-portal https://docs.microsoft.com/en-us/azure/storage-how-to-create-premium-fileshare.tabs=azure-portal https://docs.microsoft.com/en-us/azure-portal https://docs

us/azure/storage/blobs/storage-blob-storage-tiers

QUESTION 29

HOTSPOT

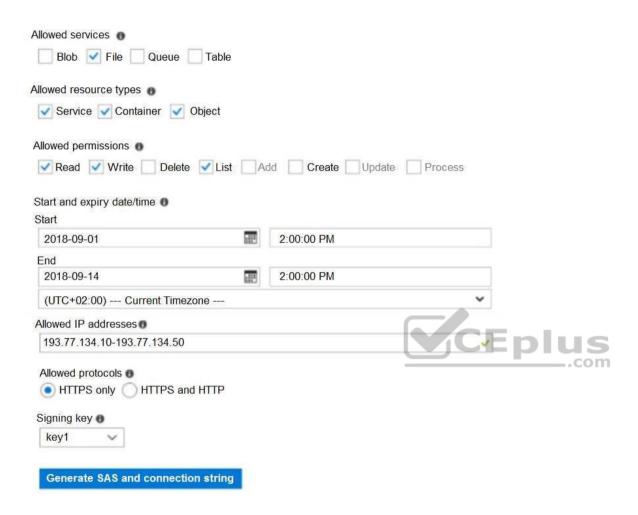
You have an Azure subscription named Subscription1.

In Subscription1, you create an Azure file share named share1.

You create a shared access signature (SAS) named SAS1 as shown in the following exhibit:







To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

If on September 2, 2018, you run Microsoft Azure Storage Explorer on a computer that has an IP address of 193.77.134.1, and you use SAS1 to connec to the storage account, you [answer choice].

If on September 10, 2018, you run the net use command on a computer that has an IP address of 193.77.134.50, and you use SAS1 as the password to connect to share1, you [answer choice].

	▼
will be prompted for credentials	
will have no access	
will have read, write, and list ac	cess
will have read-only access	
will have read-only access	
will flave read-only access	
will flave read-only access	
will be prompted for credentials	_
•	V
will be prompted for credentials	

Correct Answer:

Answer Area

If on September 2, 2018, you run Microsoft Azure Storage Explorer on a computer that has an IP address of 193.77.134.1, and you use SAS1 to connec to the storage account, you [answer choice].

If on September 10, 2018, you run the net use command on a computer that has an IP address of 193.77.134.50, and you use SAS1 as the password to connect to share1, you [answer choice].

will be prompted for credentials
will have no access
will have read, write, and list access
will have read-only access

will be prompted for credentials
will have no access
will have read, write, and list access
will have read-only access

Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: Will have no access

The IP 193.77.134.1 does not have access on the SAS.

Box 2: Will have read, write, and list access The net use command is used to connect to file shares.



Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-dotnet-shared-access-signature-part-1 https://docs.microsoft.com/en-us/azure/vs-azure-tools-storage-manage-with-storage-explorer?tabs=windows

QUESTION 30

You have two Azure virtual machines named VM1 and VM2. You have two Recovery Services vaults named RSV1 and RSV2.

VM2 is backed up to RSV1.

You need to back up VM2 to RSV2.

What should you do first?

- A. From the RSV1 blade, click **Backup items** and stop the VM2 backup
- B. From the RSV2 blade, click **Backup**. From the Backup blade, select the backup for the virtual machine, and then click **Backup**
- C. From the VM2 blade, click **Disaster recovery**, click **Replication settings**, and then select RSV2 as the Recovery Services vault
- D. From the RSV1 blade, click **Backup Jobs** and export the VM2 job

Correct Answer: C Section: (none) Explanation



Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-first-look-arm

Implement and manage storage

Testlet 2

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 offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment

Currently, Contoso uses multiple types of servers for business operations, including the following:

- File servers
- Domain controllers
- Microsoft SQL Server servers



Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

- A SQL database
- A web front end
- A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements

Planned Changes

Contoso plans to implement the following changes to the infrastructure:

- Move all the tiers of App1 to Azure.
- Move the existing product blueprint files to Azure Blob storage.



- Create a hybrid directory to support an upcoming Microsoft Office 365 migration project.

Technical Requirements

Contoso must meet the following technical requirements:

- Move all the virtual machines for App1 to Azure.
- Minimize the number of open ports between the App1 tiers.
- Ensure that all the virtual machines for App1 are protected by backups.
- Copy the blueprint files to Azure over the Internet.
- Ensure that the blueprint files are stored in the archive storage tier.
- Ensure that partner access to the blueprint files is secured and temporary.
- Prevent user passwords or hashes of passwords from being stored in Azure.
- Use unmanaged standard storage for the hard disks of the virtual machines.
- Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity. Minimize administrative effort whenever possible.

User Requirements

Contoso identifies the following requirements for users:



- Ensure that only users who are part of a group named Pilot can join devices to Azure AD.
- Designate a new user named Admin1 as the service admin for the Azure subscription.
- Admin1 must receive email alerts regarding service outages.
- Ensure that a new user named User3 can create network objects for the Azure subscription.

QUESTION 1

You need to implement a backup solution for App1 after the application is moved.

What should you create first?

A. a recovery plan

B. an Azure Backup Server

C. a backup policy

D. a Recovery Services vault

Correct Answer: D



Section: (none) **Explanation**

Explanation/Reference:

Explanation:

A Recovery Services vault is a logical container that stores the backup data for each protected resource, such as Azure VMs. When the backup job for a protected resource runs, it creates a recovery point inside the Recovery Services vault.

Scenario:

There are three application tiers, each with five virtual machines.

Move all the virtual machines for App1 to Azure.

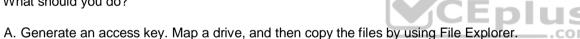
Ensure that all the virtual machines for App1 are protected by backups.

Reference: https://docs.microsoft.com/en-us/azure/backup/guick-backup-vmportal

QUESTION 2

You need to move the blueprint files to Azure.

What should you do?



- B. Use Azure Storage Explorer to copy the files.
- C. Use the Azure Import/Export service.
- D. Generate a shared access signature (SAS). Map a drive, and then copy the files by using File Explorer.

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:

Azure Storage Explorer is a free tool from Microsoft that allows you to work with Azure Storage data on Windows, macOS, and Linux. You can use it to upload and download data from Azure blob storage.

Scenario:

Planned Changes include: move the existing product blueprint files to Azure Blob storage.

Technical Requirements include: Copy the blueprint files to Azure over the Internet.



Reference: https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-data-to-azure-blob-using-azure-storage-explorer

QUESTION 3

HOTSPOT

You need to identify the storage requirements for Contoso.

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:

Answer Area

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	0	0
Contoso requires a storage account that supports Azure Table storage.	0	0
Contoso requires a storage account that supports Azure File Storage.	0	0

Correct Answer:

Answer Area

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	0	0
Contoso requires a storage account that supports Azure Table storage.	0	0
Contoso requires a storage account that supports Azure File Storage.	0	0



Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: Yes

Contoso is moving the existing product blueprint files to Azure Blob storage.

Use unmanaged standard storage for the hard disks of the virtual machines. We use Page Blobs for these.

Box 2: No

Box 3: No

Deploy and manage Azure compute resources

Question Set 1

QUESTION 1

You have an Azure web app named App1. App1 has the deployment slots shown in the following table:

Name	Function	
webapp1-prod	Production	
webapp1-test	Staging	

In webapp1-test, you test several changes to App1.

You back up App1.

You swap webapp1-test for webapp1-prod and discover that App1 is experiencing performance issues.

You need to revert to the previous version of App1 as quickly as possible.

What should you do?

- A. Redeploy App1
- B. Swap the slots
- C. Clone App1
- D. Restore the backup of App1



Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

When you swap deployment slots, Azure swaps the Virtual IP addresses of the source and destination slots, thereby swapping the URLs of the slots. We can easily revert the deployment by swapping back.

Reference: https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots

QUESTION 2

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 an Azure virtual machine named VM1 that runs Windows Server 2016.

You need to create an alert in Azure when more than two error events are logged to the System event log on VM1 within an hour.

Solution: You create an Azure Log Analytics workspace and configure the data settings. You add the Microsoft Monitoring Agent VM extension to VM1. You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

Instead: You create an Azure Log Analytics workspace and configure the data settings. You install the Microsoft Monitoring Agent on VM1. You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.



Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-

<u>overview</u>

QUESTION 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.

You have an Azure virtual machine named VM1 that runs Windows Server 2016.

You need to create an alert in Azure when more than two error events are logged to the System event log on VM1 within an hour.

Solution: You create an Azure Log Analytics workspace and configure the data settings. You install the Microsoft Monitoring Agent on VM1. You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

Alerts in Azure Monitor can identify important information in your Log Analytics repository. They are created by alert rules that automatically run log searches at regular intervals, and if results of the log search match particular criteria, then an alert record is created and it can be configured to perform an automated response.

The Log Analytics agent collects monitoring data from the guest operating system and workloads of virtual machines in Azure, other cloud providers, and onpremises. It collects data into a Log Analytics workspace.

Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview

QUESTION 4



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 an Azure virtual machine named VM1 that runs Windows Server 2016.

You need to create an alert in Azure when more than two error events are logged to the System event log on VM1 within an hour.

Solution: You create an Azure storage account and configure shared access signatures (SASs). You install the Microsoft Monitoring Agent on VM1. You create an alert in Azure Monitor and specify the storage account as the source.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

Instead: You create an Azure Log Analytics workspace and configure the data settings. You install the Microsoft Monitoring Agent on VM1. You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview

QUESTION 5

You download an Azure Resource Manager template based on an existing virtual machine. The template will be used to deploy 100 virtual machines.

You need to modify the template to reference an administrative password. You must prevent the password from being stored in plain text.

What should you create to store the password?

A. an Azure Key Vault and an access policy

B. an Azure Storage account and an access policy

C. a Recovery Services vault and a backup policy

D. Azure Active Directory (AD) Identity Protection and an Azure policy



Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

You can use a template that allows you to deploy a simple Windows VM by retrieving the password that is stored in a Key Vault. Therefore, the password is never put in plain text in the template parameter file.

Reference: https://azure.microsoft.com/en-us/resources/templates/101-vm-secure-password/

QUESTION 6

You plan to automate the deployment of a virtual machine scale set that uses the Windows Server 2016 Datacenter image.

You need to ensure that when the scale set virtual machines are provisioned, they have web server components installed.

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

NOTE: Each correct selection is worth one point.

- A. Upload a configuration script
- B. Create an automation account
- C. Create an Azure policy
- D. Modify the extensionProfile section of the Azure Resource Manager template
- E. Create a new virtual machine scale set in the Azure portal

Correct Answer: DE Section: (none) Explanation

Explanation/Reference:

Explanation:

Virtual Machine Scale Sets can be used with the Azure Desired State Configuration (DSC) extension handler. Virtual machine scale sets provide a way to deploy and manage large numbers of virtual machines, and can elastically scale in and out in response to load. DSC is used to configure the VMs as they come online so they are running the production software.

 $\label{lem:reconstruction} \textbf{Reference:} \ \underline{\text{https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machin$





QUESTION 7

DRAG DROP

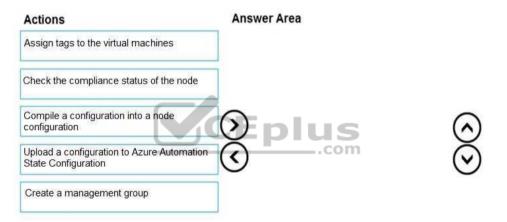
You onboard 10 Azure virtual machines to Azure Automation State Configuration.

You need to use Azure Automation State Configuration to manage the ongoing consistency of the virtual machine configurations.

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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:



Correct Answer:



Actions	Answer Area
Assign tags to the virtual machines	Upload a configuration to Azure Automation State Configuration
Check the compliance status of the node	Compile a configuration into a node configuration
Compile a configuration into a node configuration	Assign tags to the virtual machines
Upload a configuration to Azure Automation State Configuration	<u> </u>
Create a management group	

Section: (none) Explanation

Explanation/Reference:

Explanation:

Step 1: Upload a configuration to Azure Automation State Configuration.

Import the configuration into the Automation account.

Step 2: Compile a configuration into a node configuration.

A DSC configuration defining that state must be compiled into one or more node configurations (MOF document), and placed on the Automation DSC Pull Server.

Step 3: Assign the node configuration

Step 4: Check the compliance status of the node

Each time Azure Automation State Configuration performs a consistency check on a managed node, the node sends a status report back to the pull server. You can view these reports on the page for that node.

On the blade for an individual report, you can see the following status information for the corresponding consistency check:

The report status — whether the node is "Compliant", the configuration "Failed", or the node is "Not Compliant"

Reference: https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started

QUESTION 8



You have an Azure Resource Manager template named Template1 that is used to deploy an Azure virtual machine.

Template1 contains the following text:

```
"location": {
    "type": "String",
    "defaultValue": "eastus",
    "allowedValues": [
        "canadacentral",
        "eastus",
        "westeurope",
        "westus" ]
}
```

The variables section in Template1 contains the following text:

```
"location": "westeurope"
```

The resources section in Template1 contains the following text:

```
"type": "Microsoft.Compute/virtualMachines", 
"apiVersion": "2018-10-01", 
"name": "[variables('vmName')]", 
"location": "westeurope",
```



You need to deploy the virtual machine to the West US location by using Template1.

What should you do?

- A. Modify the location in the resources section to ${\tt westus}$
- B. Select West US during the deployment
- C. Modify the location in the variables section to ${\tt westus}$

Correct Answer: A Section: (none) Explanation

Explanation/Reference:



QUESTION 9

You create an App Service plan named Plan1 and an Azure web app named webapp1.

You discover that the option to create a staging slot is unavailable.

You need to create a staging slot for Plan1.

What should you do first?

- A. From Plan1, scale up the App Service plan
- B. From webapp1, modify the Application settings
- C. From webapp1, add a custom domain
- D. From Plan1, scale out the App Service plan

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

The app must be running in the Standard, Premium, or Isolated tier in order for you to enable multiple deployment slots.

If the app isn't already in the Standard, Premium, or Isolated tier, you receive a message that indicates the supported tiers for enabling staged publishing. At this point, you have the option to select Upgrade and go to the Scale tab of your app before continuing.

Scale up: Get more CPU, memory, disk space, and extra features like dedicated virtual machines (VMs), custom domains and certificates, staging slots, autoscaling, and more.

Incorrect:

Scale out: Increase the number of VM instances that run your app. You can scale out to as many as 30 instances

Reference: https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots https://docs.microsoft.com/en-us/azure/app-service/manage-scale-up

QUESTION 10

You plan to move a distributed on-premises app named App1 to an Azure subscription.

After the planned move, App1 will be hosted on several Azure virtual machines.

You need to ensure that App1 always runs on at least eight virtual machines during planned Azure maintenance.



What should you create?

A. one virtual machine scale set that has 10 virtual machines instances

B. one Availability Set that has three fault domains and one update domain

C. one Availability Set that has 10 update domains and one fault domain

D. one virtual machine scale set that has 12 virtual machines instances

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

An update domain is a logical group of underlying hardware that can undergo maintenance or be rebooted at the same time. As you create VMs within an availability set, the Azure platform automatically distributes your VMs across these update domains. This approach ensures that at least one instance of your application always remains running as the Azure platform undergoes periodic maintenance.

Reference: http://www.thatlazyadmin.com/azure-fault-update-domains/

QUESTION 11

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.

CEplus

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

You have an Azure virtual machine named VM1 that runs Windows Server 2016.

You need to create an alert in Azure when more than two error events are logged to the System event log on VM1 within an

hour. Solution: You create an event subscription on VM1. You create an alert in Azure Monitor and specify VM1 as the source

Does this meet the goal?

A. Yes

B. No

Correct Answer: B



Section: (none) Explanation

Explanation/Reference:

Explanation:

Instead: You create an Azure Log Analytics workspace and configure the data settings. You install the Microsoft Monitoring Agent on VM1. You create an alert in Azure Monitor and specify the Log Analytics workspace as the source.

Reference:

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview

QUESTION 12

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 an Azure virtual machine named VM1. VM1 was deployed by using a custom Azure Resource Manager template named ARM1.json.

You receive a notification that VM1 will be affected by maintenance.

You need to move VM1 to a different host immediately.

Solution: From the Overview blade, you move the virtual machine to a different subscription.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

You would need to redeploy the VM.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/redeploy-to-new-node



QUESTION 13

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 an Azure virtual machine named VM1. VM1 was deployed by using a custom Azure Resource Manager template named ARM1.json.

You receive a notification that VM1 will be affected by maintenance.

You need to move VM1 to a different host immediately.

Solution: From the Redeploy blade, you click **Redeploy**.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

When you redeploy a VM, it moves the VM to a new node within the Azure infrastructure and then powers it back on, retaining all your configuration options and associated resources.

References: https://docs.microsoft.com/en-us/azure/virtual-machines/windows/redeploy-to-new-node

QUESTION 14

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 an Azure virtual machine named VM1. VM1 was deployed by using a custom Azure Resource Manager template named ARM1.json.

You receive a notification that VM1 will be affected by maintenance.



You need to move VM1 to a different host immediately.

Solution: From the Update management blade, you click **Enable**.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

You would need to redeploy the VM.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/redeploy-to-new-node

QUESTION 15

You have an Azure subscription that contains a web app named webapp1.

You need to add a custom domain named www.contoso.com to webapp1.

What should you do first?

- A. Create a DNS record
- B. Add a connection string
- C. Upload a certificate.
- D. Stop webapp1.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

You can use either a CNAME record or an A record to map a custom DNS name to App Service.



Reference:

https://docs.microsoft.com/en-us/Azure/app-service/app-service-web-tutorial-custom-domain

QUESTION 16

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 an Azure subscription that contains the resources shown in the following table.

Name	Туре	Region
RG1	Resource group	West US
RG2	Resource group	East Asia
storage1	Storage account	West US
storage2	Storage account	East Asia
VM1	Virtual machine	West US
VNET1	Virtual network	West US
VNET2	Virtual network	East Asia



VM1 connects to VNET1.

You need to connect VM1 to VNET2.

Solution: You move VM1 to RG2, and then you add a new network interface to VM1.

Does this meet the goal?

A. Yes B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

Instead you should delete VM1. You recreate VM1, and then you add the network interface for VM1.



Note: When you create an Azure virtual machine (VM), you must create a virtual network (VNet) or use an existing VNet. You can change the subnet a VM is connected to after it's created, but you cannot change the VNet.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/network-overview

QUESTION 17

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 an Azure subscription that contains the resources shown in the following table.

Name	Туре	Region
RG1	Resource group	West US
RG2	Resource group	East Asia
storage1	Storage account	West US
storage2	Storage account	East Asia
VM1	Virtual machine	West US
VNET1	Virtual network	West US
VNET2	Virtual network	East Asia



VM1 connects to VNET1.

You need to connect VM1 to VNET2.

Solution: You delete VM1. You recreate VM1, and then you create a new network interface for VM1 and connect it to VNET2.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: (none) Explanation

Explanation/Reference:



Explanation:

You should delete VM1. You recreate VM1, and then you add the network interface for VM1.

Note: When you create an Azure virtual machine (VM), you must create a virtual network (VNet) or use an existing VNet. You can change the subnet a VM is connected to after it's created, but you cannot change the VNet.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/network-overview

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 an Azure subscription that contains the resources shown in the following table.

Name	Туре	Region
RG1	Resource group	West US
RG2	Resource group	East Asia
storage1	Storage account	West US
storage2	Storage account	East Asia
VM1	Virtual machine	West US
VNET1	Virtual network	West US
VNET2	Virtual network	East Asia



VM1 connects to VNET1.

You need to connect VM1 to VNET2.

Solution: You turn off VM1, and then you add a new network interface to VM1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

Instead you should delete VM1. You recreate VM1, and then you add the network interface for VM1.

Note: When you create an Azure virtual machine (VM), you must create a virtual network (VNet) or use an existing VNet. You can change the subnet a VM is connected to after it's created, but you cannot change the VNet.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/network-overview

QUESTION 19

You deploy an Azure Kubernetes Service (AKS) cluster named Cluster1 that uses the IP addresses shown in the following table.

IP address	Assigned to	
131.107.2.1	Load balancer front end	
192.168.10.2	Kubernetes DNS service	
172.17.7.1	Docket bridge address	
10.0.10.11	Kubernetes cluster node	

You need to provide internet users with access to the applications that run in Cluster1.

Which IP address should you include in the DNS record for Cluster1?

A. 131.107.2.1

B. 10.0.10.11

C. 172.17.7.1

D. 192.168.10.2

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 20

You have a deployment template named Template1 that is used to deploy 10 Azure web apps.

You need to identify what to deploy before you deploy Template1. The solution must minimize Azure costs.



What should you identify?

A. five Azure Application Gateways

B. one App Service plan

C. 10 App Service plans

D. one Azure Traffic Manager

E. one Azure Application Gateway

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:

You create Azure web apps in an App Service plan.

Reference:

https://docs.microsoft.com/en-us/azure/app-service/overview-hosting-plans

QUESTION 21

CEplus You have an Azure subscription that contains a virtual machine named VM1. VM1 hosts a line-of-business application that is available 24 hours a day. VM1 has one network interface and one managed disk. VM1 uses the D4s v3 size.

You plan to make the following changes to VM1:

- Change the size to D8s v3.
- Add a 500-GB managed disk.
- Add the Puppet Agent extension.
- Enable Desired State Configuration Management. Which

change will cause downtime for VM1?

- A. Enable Desired State Configuration Management
- B. Add a 500-GB managed disk
- C. Change the size to D8s v3
- D. Add the Puppet Agent extension

Correct Answer: C



Section: (none) Explanation

Explanation/Reference:

Explanation:

While resizing the VM it must be in a stopped state.

Reference: https://azure.microsoft.com/en-us/blog/resize-virtual-

machines/

QUESTION 22

You have an app named App1 that runs on an Azure web app named webapp1.

The developers at your company upload an update of App1 to a Git repository named Git1.

Webapp1 has the deployment slots shown in the following table.

Name	Function	
webapp1-prod	Production	
webapp1-test	Staging	

You need to ensure that the App1 update is tested before the update is made available to users.

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

- A. Swap the slots
- B. Deploy the App1 update to webapp1-prod, and then test the update
- C. Stop webapp1-prod
- D. Deploy the App1 update to webapp1-test, and then test the update
- E. Stop webapp1-test

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

QUESTION 23



You have an Azure subscription named Subscription1 that has the following providers registered:

- Authorization
- Automation

Resources

- Compute
- KeyVault
- Network
- Storage
- Billing
- Web

Subscription1 contains an Azure virtual machine named VM1 that has the following configurations:

Private IP address: 10.0.0.4 (dynamic)Network security group (NSG): NSG1

Public IP address: None
Availability set: AVSet
Subnet: 10.0.0.0/24
Managed disks: No

Location: East US



You need to record all the successful and failed connection attempts to VM1.

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

NOTE: Each correct selection is worth one point.

- A. Enable Azure Network Watcher in the East US Azure region.
- B. Add an Azure Network Watcher connection monitor.
- C. Register the MicrosoftLogAnalytics provider.
- D. Create an Azure Storage account.
- E. Register the Microsoft.Insights resource provider.
- F. Enable Azure Network Watcher flow logs.

Correct Answer: ACD

Section: (none) Explanation



Explanation/Reference:

Explanation:

D: NSG flow log data is written to an Azure Storage account. You need to create an Azure Storage account,

With an Azure Storage account NSG flow logs can be enabled.

A: Enable network watcher in the East US region.

C: NSG flow logging requires the Microsoft.Insights provider.

 $\label{logging-portal} Reference: \underline{https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-portal}$

QUESTION 24

You need to deploy an Azure virtual machine scale set that contains five instances as quickly as possible.

What should you do?

- A. Deploy five virtual machines. Modify the Availability Zones settings for each virtual machine.
- B. Deploy five virtual machines. Modify the Size setting for each virtual machine.
- C. Deploy one virtual machine scale set that is set to VM (virtual machines) orchestration mode.
- D. Deploy one virtual machine scale set that is set to ScaleSetVM orchestration mode.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference:

 $\underline{\text{https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/orchestration-modes}}$

QUESTION 25

You plan to create the Azure web apps shown in the following table.

Name	Runtime stack
WebApp1	.NET Core 3.0
WebApp2	ASP.NET V4.7
WebApp3	PHP 7.3
WebApp4	Ruby 2.6



What is the minimum number of App Service plans you should create for the web apps?	

A. 1

B. 2

C. 3

D. 4

Correct Answer: A

Section: (none) Explanation

Explanation/Reference:

QUESTION 26

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 an Azure subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution: From the Subscriptions blade, you select the subscription, and then click **Programmatic deployment**.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

From the RG1 blade, click Deployments. You see a history of deployment for the resource group.



Reference:

https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-tutorial-create-first-template?tabs=azure-powershell

QUESTION 27

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 an Azure subscription that contains the resources shown in the following table.

Name	Туре	Region
RG1	Resource group	West US
RG2	Resource group	East Asia
storage1	Storage account	West US
storage2	Storage account	East Asia
VM1	Virtual machine	West US
VNET1	Virtual network	West US
VNET2	Virtual network	East Asia



VM1 connects to VNET1.

You need to connect VM1 to VNET2.

Solution: You create a new network interface, and then you add the network interface to VM1.

Does this meet the goal?

A. Yes B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

You should delete VM1. You recreate VM1, and then you add the network interface for VM1.



Note: When you create an Azure virtual machine (VM), you must create a virtual network (VNet) or use an existing VNet. You can change the subnet a VM is connected to after it's created, but you cannot change the VNet.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/network-overview

QUESTION 28

You have an Azure Active Directory (Azure AD) tenant named adatum.com that contains the users shown in the following table.

Name	Role	
User1	None	
User2	Global administrator	
User3	Cloud device administrator	
User4	Intune administrator	

Adatum.com has the following configurations:

- Users may join devices to Azure AD is set to User1.
- Additional local administrators on Azure AD joined devices is set to None.

You deploy Windows 10 to a computer named Computer1. User1 joins Computer1 to adatum.com.

You need to identify the local Administrator group membership on Computer1.

Which users are members of the local Administrators group?

- A. User1 only
- B. User2 only
- C. User1 and User2 only
- D. User1, User2, and User3 only
- E. User1, User2, User3, and User4

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:



Users may join devices to Azure AD - This setting enables you to select the users who can register their devices as Azure AD joined devices. The default is All.

Additional local administrators on Azure AD joined devices - You can select the users that are granted local administrator rights on a device. Users added here are added to the Device Administrators role in Azure AD. Global administrators, here User2, in Azure AD and device owners are granted local administrator rights by default.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory/devices/device-management-azure-portal

QUESTION 29

You have an Azure subscription named Subscription1 that contains the resources shown in the following table.

Name	Туре	Region	Resource group
RG1	Resource group	West Europe	Not applicable
RG2	Resource group	North Europe	Not applicable
Vault1	Recovery Services vault	West Europe	RG1

You create virtual machines in Subscription1 as shown in the following table.

Name	Resource group	Region	Operating system	
VM1	RG1	West Europe	Windows Server 2016	Eplu
VM2	RG1	North Europe	Windows Server 2016	PIC
VM3	RG2	West Europe	Windows Server 2016	
VMA	RG1	West Europe	Ubuntu Server 18.04	
VMB	RG1	North Europe	Ubuntu Server 18.04	
VMC	RG2	West Europe	Ubuntu Server 18.04	

You plan to use Vault1 for the backup of as many virtual machines as possible.

Which virtual machines can be backed up to Vault1?

A. VM1 only

B. VM3 and VMC only

C. VM1, VM2, VM3, VMA, VMB, and VMC

D. VM1, VM3, VMA, and VMC only

E. VM1 and VM3 only

Correct Answer: D



Section: (none) Explanation

Explanation/Reference:

Explanation:

To create a vault to protect virtual machines, the vault must be in the same region as the virtual machines. If you have virtual machines in several regions, create a Recovery Services vault in each region.

Reference:

https://docs.microsoft.com/bs-cyrl-ba/azure/backup/backup-create-rs-vault

QUESTION 30

You have an Azure Kubernetes Service (AKS) cluster named AKS1.

You need to configure cluster autoscaler for AKS1.

Which two tools should you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. the kubectl command

B. the az aks command

C. the ${\tt Set-AzVm}$ cmdlet

D. the Azure portal

E. the Set-AzAks cmdlet

Correct Answer: AB Section: (none) Explanation

Explanation/Reference:

Explanation:

A: The following example uses the kubectl autoscale command to autoscale the number of pods in the azure-vote-front deployment. If average CPU utilization across all pods exceeds 50% of their requested usage, the autoscaler increases the pods up to a maximum of 10 instances. A minimum of 3 instances is then defined for the deployment:

kubectl autoscale deployment azure-vote-front --cpu-percent=50 --min=3 --max=10

B: Use the az aks update command to enable and configure the cluster autoscaler on the node pool for the existing cluster.





Reference: https://docs.microsoft.com/en-us/azure/aks/tutorial-kubernetes-scale https://docs.microsoft.com/en-us/azure/aks/cluster-autoscaler

QUESTION 31

You create the following resources in an Azure subscription:

- An Azure Container Registry instance named Registry1
- An Azure Kubernetes Service (AKS) cluster named Cluster1

You create a container image named App1 on your administrative workstation.

You need to deploy App1 to Cluster1.

What should you do first?

- A. Run the docker push command.
- B. Create an App Service plan.
- C. Run the az acr build command.
- D. Run the az aks create command.

Correct Answer: C Section: (none) Explanation



Explanation/Reference:

Explanation:

You should sign in and push a container image to Container Registry. Run the az acr build command to build and push the container image.

az acr build \

- --image contoso-website \
- --registry \$ACR_NAME \
- --file Dockerfile .

 $Reference: \underline{https://docs.microsoft.com/en-us/learn/modules/aks-deploy-container-app/5-exercise-deploy-app} \\$

QUESTION 32

You have an Azure subscription that contains the resources shown in the following table.



Name	Type	Resource group	Location
RG1	Resource group	Not applicable	Central US
RG2	Resource group	Not applicable	West US
VMSS1	Virtual machine scale set	RG2	West US
Proximity1	Proximity placement group	RG1	Central US
Proximity2	Proximity placement group	RG2	West US
Proximity3	Proximity placement group	RG1	Central US

You need to configure a proximity placement group for VMSS1.

Which proximity placement groups should you use?

A. Proximity2 only

B. Proximity1, Proximity2, and Proximity3

C. Proximity1 only

D. Proximity1 and Proximity3 only

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

Resource Group location of VMSS1 is the RG2 location, which is West US.

Only Proximity2, which also in RG2, is location in West US

Reference:

https://azure.microsoft.com/en-us/blog/introducing-proximity-placement-groups/

QUESTION 33

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 an Azure subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.



Solution: From the Subscriptions blade, you select the subscription, and then click Resource providers.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 34

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 an Azure subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution: From the RG1 blade, you click **Automation script**.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

From the RG1 blade, click Deployments. You see a history of deployment for the resource group.



Reference:

https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-tutorial-create-first-template?tabs=azure-powershell

QUESTION 35

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 an Azure subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution: From the RG1 blade, you click **Deployments**.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

From the RG1 blade, click Deployments. You see a history of deployment for the resource group.

Reference:

 $\underline{https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-tutorial-create-first-template?tabs=azure-powershell}$

QUESTION 36

You have an Azure subscription named Subscription1.

You deploy a Linux virtual machine named VM1 to Subscription1.

You need to monitor the metrics and the logs of VM1.

What should you use?



- A. Azure HDInsight
- B. Linux Diagnostic Extension (LAD) 3.0
- C. the AzurePerformanceDiagnostics extension
- D. Azure Analysis Services

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

You can use extensions to configure diagnostics on your VMs to collect additional metric data.

The basic host metrics are available, but to see more granular and VM-specific metrics, you need to install the Azure diagnostics extension on the VM. The Azure diagnostics extension allows additional monitoring and diagnostics data to be retrieved from the VM.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring

QUESTION 37

You plan to deploy three Azure virtual machines named VM1, VM2, and VM3. The virtual machines will host a web app named App1.

You need to ensure that at least two virtual machines are available if a single Azure datacenter becomes unavailable.

What should you deploy?

- A. all three virtual machines in a single Availability Zone
- B. all virtual machines in a single Availability Set
- C. each virtual machine in a separate Availability Zone
- D. each virtual machine in a separate Availability Set

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

Use availability zones to protect from datacenter level failures.



Reference: https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-availability-sets

QUESTION 38

You have an Azure virtual machine named VM1 that runs Windows Server 2019.

You save VM1 as a template named Template1 to the Azure Resource Manager library.

You plan to deploy a virtual machine named VM2 from Template1.

What can you configure during the deployment of VM2?

A. operating system

B. administrator username

C. virtual machine size

D. resource group

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

When deploying a virtual machine from a template, you must specify:

- the Resource Group name and location for the VM
- the administrator username and password an unique DNS name for the public IP

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/ps-template QUESTION 39

You have an Azure subscription that contains an Azure virtual machine named VM1. VM1 runs a financial reporting app named App1 that does not support multiple active instances.

At the end of each month, CPU usage for VM1 peaks when App1 runs.

You need to create a scheduled runbook to increase the processor performance of VM1 at the end of each month.

What task should you include in the runbook?



- A. Add the Azure Performance Diagnostics agent to VM1.
- B. Modify the VM size property of VM1.
- C. Add VM1 to a scale set.
- D. Increase the vCPU quota for the subscription.
- E. Add a Desired State Configuration (DSC) extension to VM1.

Correct Answer: E Section: (none) Explanation

Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/automation/automation-quickstart-dsc-configuration

QUESTION 40

You plan to deploy several Azure virtual machines that will run Windows Server 2019 in a virtual machine scale set by using an Azure Resource Manager template.

You need to ensure that NGINX is available on all the virtual machines after they are deployed.

What should you use?

- A. Deployment Center in Azure App Service
- B. A Desired State Configuration (DSC) extension
- $\pmb{C}. \ \ \textbf{the} \ \ \textbf{New-AzConfigurationAssignment} \ \ \pmb{cmdlet}$
- D. a Microsoft Intune device configuration profile

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

Azure virtual machine extensions are small packages that run post-deployment configuration and automation on Azure virtual machines.

In the following example, the Azure CLI is used to deploy a custom script extension to an existing virtual machine, which installs a Nginx webserver.

az vm extension set \

- --resource-group myResourceGroup \
- --vm-name myVM --name customScript \





- --publisher Microsoft.Azure.Extensions \
- --settings '{"commandToExecute": "apt-get install -y nginx"}

Note:

There are several versions of this question in the exam. The question has two correct answers:

- 1. a Desired State Configuration (DSC) extension
- 2. Azure Custom Script Extension

The question can have other incorrect answer options, including the following:

• the Publish-AzVMDscConfiguration cmdlet •

Azure Application Insights

 $\label{lem:reference:matter:matter:lem:reference:matter:$

QUESTION 41

You have an Azure virtual machine named VM1 that runs Windows Server 2019. The VM was deployed using default drive settings.

You sign in to VM1 as a user named User1 and perform the following actions:

- Create files on drive C.
- Create files on drive D.
- Modify the screen saver timeout.
- Change the desktop background.

You plan to redeploy VM1.

Which changes will be lost after you redeploy VM1?

- A. the modified screen saver timeout
- B. the new desktop background
- C. the new files on drive D
- D. the new files on drive C

Correct Answer: C Section: (none) Explanation

Explanation/Reference:





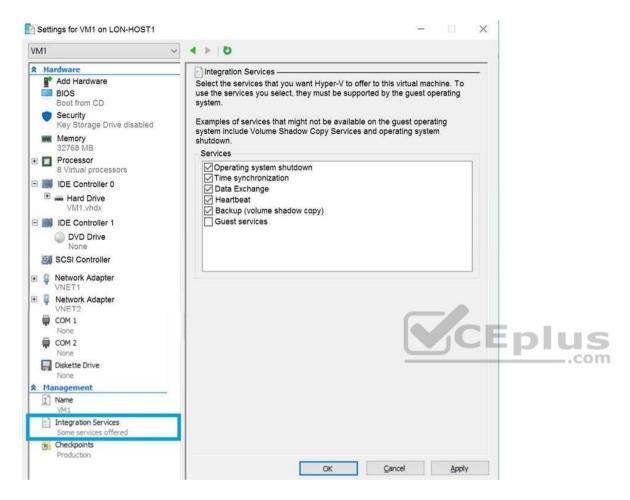
QUESTION 42

You have an Azure subscription.

You have an on-premises virtual machine named VM1. The settings for VM1 are shown in the exhibit. (Click the Exhibit tab.)







You need to ensure that you can use the disks attached to VM1 as a template for Azure virtual machines.

What should you modify on VM1?

- A. the memory
- B. the network adapters
- C. the hard drive
- D. the processor
- E. Integration Services



Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

From the exhibit we see that the disk is in the VHDX format.

Before you upload a Windows virtual machine (VM) from on-premises to Microsoft Azure, you must prepare the virtual hard disk (VHD or VHDX). Azure supports only generation 1 VMs that are in the VHD file format and have a fixed sized disk. The maximum size allowed for the VHD is 1,023 GB. You can convert a generation 1 VM from the VHDX file system to VHD and from a dynamically expanding disk to fixed-sized.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image

QUESTION 43

You have an Azure subscription named Subscription1 that is used by several departments at your company. Subscription1 contains the resources in the following table:

Name	Type
storage1	Storage account
RG1	Resource group
container1	Blob container
share1	File share



Another administrator deploys a virtual machine named VM1 and an Azure Storage account named storage2 by using a single Azure Resource Manager template.

You need to view the template used for the deployment.

From which blade can you view the template that was used for the deployment?

- A. VM1
- B. RG1
- C. storage2
- D. container1

Correct Answer: B Section: (none) Explanation

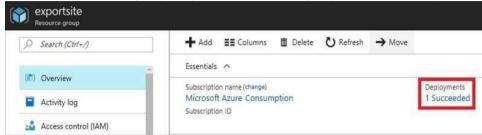


Explanation/Reference:

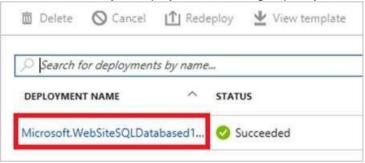
Explanation:

View template from deployment history

1. Go to the resource group for your new resource group. Notice that the portal shows the result of the last deployment. Select this link.



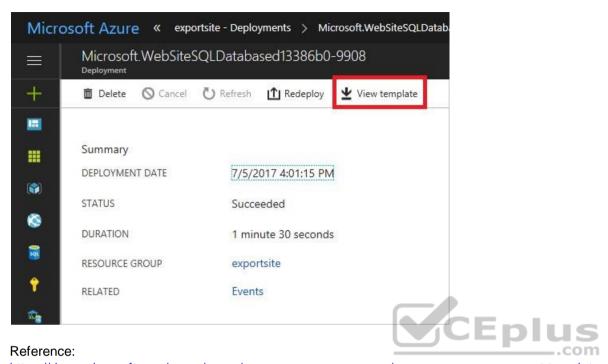
2. You see a history of deployments for the group. In your case, the portal probably lists only one deployment. Select this deployment.





3. The portal displays a summary of the deployment. The summary includes the status of the deployment and its operations and the values that you provided for parameters. To see the template that you used for the deployment, select View template.





 $\underline{\underline{https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-export-template}$

Deploy and manage Azure compute resources

Testlet 2

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**

Litware, Inc. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Litware are hosted on-premises.

Litware creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named litware.onmicrosoft.com. The tenant uses the P1 pricing tier.

Existing Environment

The network contains an Active Directory forest named litware.com. All domain controllers are configured as DNS servers and host the litware.com DNS zone.

Litware has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the **department** attribute set to their respective department. New users are added frequently.

Litware.com contains a user named User1.

All the offices connect by using private connections.

Litware has data centers in the Montreal and Seattle offices. Each office has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMware vCenter server	VM1
Server2	Hyper-V host	VM2

Litware uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory.

The Azure subscription contains the resources in the following table.



Name	Name Type	
VNet1	Virtual network	
VM3	Virtual machine	
VM4	Virtual machine	

The network security team implements several network security groups (NSGs)

Requirements

Planned Changes

Litware plans to implement the following changes:

- Deploy Azure ExpressRoute to the Montreal office.
- Migrate the virtual machines hosted on Server1 and Server2 to Azure.
- Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).
- Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical Requirements



Litware must meet the following technical requirements:

- Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.
- Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.
- Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.
- Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
- Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.litware.com.
- Connect the New York office to VNet1 over the Internet by using an encrypted connection.
- Create a workflow to send an email message when the settings of VM4 are modified.
- Create a custom Azure role named Role1 that is based on the Reader role. Minimize costs whenever possible.

QUESTION 1

You discover that VM3 does **NOT** meet the technical requirements.

You need to verify whether the issue relates to the NSGs.



What should you use?

- A. Diagram in VNet1
- B. Diagnostic settings in Azure Monitor
- C. Diagnose and solve problems in Traffic Manager profiles
- D. The security recommendations in Azure Advisor
- E. IP flow verify in Azure Network Watcher

Correct Answer: E Section: (none) Explanation

Explanation/Reference:

Explanation:

Scenario: Contoso must meet technical requirements including:

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

Reference:

https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

Configure and manage virtual networking

Question Set 1

QUESTION 1

You have an Azure subscription that contains a policy-based virtual network gateway named GW1 and a virtual network named VNet1.

You need to ensure that you can configure a point-to-site connection from an on-premises computer to VNet1.

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

NOTE: Each correct selection is worth one point.

- A. Add a service endpoint to VNet1
- B. Reset GW1



- C. Create a route-based virtual network gateway
- D. Add a connection to GW1
- E. Delete GW1
- F. Add a public IP address space to VNet1

Correct Answer: CE Section: (none) Explanation

Explanation/Reference:

Explanation:

C: A VPN gateway is used when creating a VPN connection to your on-premises network.

Route-based VPN devices use any-to-any (wildcard) traffic selectors, and let routing/forwarding tables direct traffic to different IPsec tunnels. It is typically built on router platforms where each IPsec tunnel is modeled as a network interface or VTI (virtual tunnel interface).

E: Policy-based VPN devices use the combinations of prefixes from both networks to define how traffic is encrypted/decrypted through IPsec tunnels. It is typically built on firewall devices that perform packet filtering. IPsec tunnel encryption and decryption are added to the packet filtering and processing engine.

Incorrect Answers:

F: Point-to-Site connections do not require a VPN device or a public-facing IP address.

Reference: https://docs.microsoft.com/en-us/azure/vpn-gateway/create-routebased-vpn-gateway-portal https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-connect-multiple-policybased-rm-ps https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-connect-multiple-policybased-rm-ps https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-connect-multiple-policybased-rm-ps https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-connect-multiple-policybased-rm-ps https://docs.microsoft.com/en-us/azure/vpn-gateway-connect-multiple-policybased-rm-ps https://docs.microsoft.com/en-us/azure/vpn-gateway-connect-multiple-policybased-rm-ps https://docs.microsoft.com/en-us/azure/vpn-gateway-connect-multiple-policybased-rm-ps https://docs.microsoft.com/en-us/azure/vpn-gateway-connect-multiple-policybased-rm-ps <a href="https://docs.microsoft.com/en-us/azure/vpn-gateway-connect-multiple-policybased-rm-ps-gateway-connect-multiple-policybased-rm-ps-gateway-connect-multiple-policybased-rm-ps-gateway-connect-multiple-policybased-rm-ps-gateway-connect-multiple-policybased-

You have five Azure virtual machines that run Windows Server 2016. The virtual machines are configured as web servers.

You have an Azure load balancer named LB1 that provides load balancing services for the virtual machines.

You need to ensure that visitors are serviced by the same web server for each request.

What should you configure?

- A. Floating IP (direct server return) to Enabled
- B. Floating IP (direct server return) to Disabled
- C. a health probe
- D. Session persistence to Client IP and Protocol

Correct Answer: D



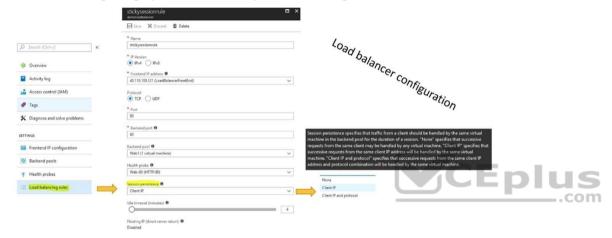
Section: (none) Explanation

Explanation/Reference:

Explanation:

With Sticky Sessions when a client starts a session on one of your web servers, session stays on that specific server. To configure An Azure Load-Balancer For Sticky Sessions set Session persistence to Client IP.

On the following image you can see sticky session configuration:



Note:

There are several versions of this question in the exam. The question can have other incorrect answer options, including the following:

- 1. Idle Time-out (minutes) to 20
- 2. Protocol to UDP

Reference: https://cloudopszone.com/configure-azure-load-balancer-for-sticky-sessions/

QUESTION 3

Your on-premises network contains an SMB share named Share1.

You have an Azure subscription that contains the following resources:

- A web app named webapp1
- A virtual network named VNET1



You need to ensure that webapp1 can connect to Share1.

What should you deploy?

A. an Azure Application Gateway

B. an Azure Active Directory (Azure AD) Application Proxy

C. an Azure Virtual Network Gateway

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

A Site-to-Site VPN gateway connection can be used to connect your on-premises network to an Azure virtual network over an IPsec/IKE (IKEv1 or IKEv2) VPN tunnel

This type of connection requires a VPN device, a VPN gateway, located on-premises that has an externally facing public IP address assigned to it.

Incorrect Answers:

B: Application Proxy is a feature of Azure AD that enables users to access on-premises web applications from a remote client.

Reference: https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-portal QUESTION 4

You plan to deploy several Azure virtual machines that will run Windows Server 2019 in a virtual machine scale set by using an Azure Resource Manager template.

You need to ensure that NGINX is available on all the virtual machines after they are deployed.

What should you use?

A. the Publish-AzVMDscConfiguration cmdlet

B. Azure Application Insights

C. Azure Custom Script Extension

D. the New-AzConfigurationAssignement cmdlet

Correct Answer: C Section: (none) Explanation

Explanation/Reference:



Explanation:

Note:

There are several versions of this question in the exam. The question has two correct answers:

- 1. a Desired State Configuration (DSC) extension
- 2. Azure Custom Script Extension

The question can have other incorrect answer options, including the following: • Deployment Center in Azure App Service • a Microsoft Intune device configuration profile

Reference: https://docs.microsoft.com/en-us/azure/architecture/framework/devops/automation-configuration

QUESTION 5

Your company has three offices. The offices are located in Miami, Los Angeles, and New York. Each office contains datacenter.

You have an Azure subscription that contains resources in the East US and West US Azure regions. Each region contains a virtual network. The virtual networks are peered.

You need to connect the datacenters to the subscription. The solution must minimize network latency between the datacenters.

What should you create?

- A. three Azure Application Gateways and one On-premises data gateway
- B. three virtual hubs and one virtual WAN
- C. three virtual WANs and one virtual hub
- D. three On-premises data gateways and one Azure Application Gateway

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

 $\textbf{Reference:}\ \underline{\text{https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan/virtual-wan-us/azure/virtual-wan-us/azu$

about

QUESTION 6

You have the Azure virtual networks shown in the following table.



Name	Address space	Subnet	Resource group Azure region
VNet1	10.11.0.0/16	10.11.0.0/17	West US
VNet2	10.11.0.0/17	10.11.0.0/25	West US
VNet3	10.10.0.0/22	10.10.1.0/24	East US
VNet4	192.168.16.0/22	192.168.16.0/24	North Europe

To which virtual networks can you establish a peering connection from VNet1?

A. VNet2 andVNet3 only

B. VNet2 only

C. VNet3 and VNet4 only

D. VNet2, VNet3, and VNet4

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

Incorrect Answers:

A, B, C: The address space for VNet2 overlaps with VNet1. We therefore cannot establish a peering between VNet2 and VNet1.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-connect-virtual-networks-portal

QUESTION 7

You have an Azure subscription that contains a virtual network named VNet1. VNet1 contains four subnets named Gateway, Perimeter, NVA, and Production.

The NVA subnet contains two network virtual appliances (NVAs) that will perform network traffic inspection between the Perimeter subnet and the Production subnet.

You need to implement an Azure load balancer for the NVAs. The solution must meet the following requirements:

- The NVAs must run in an active-active configuration that uses automatic failover.
- The NVA must load balance traffic to two services on the Production subnet. The services have different IP addresses.

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



NOTE: Each correct selection is worth one point.

- A. Deploy a basic load balancer
- B. Deploy a standard load balancer
- C. Add two load balancing rules that have HA Ports and Floating IP enabled
- D. Add two load balancing rules that have HA Ports enabled and Floating IP disabled
- E. Add a frontend IP configuration, a backend pool, and a health probe
- F. Add a frontend IP configuration, two backend pools, and a health probe

Correct Answer: BCF Section: (none) Explanation

Explanation/Reference:

Explanation:

A standard load balancer is required for the HA ports.

Two backend pools are needed as there are two services with different IP addresses.

Floating IP rule is used where backend ports are reused.

Incorrect Answers:

E: HA Ports are not available for the basic load balancer.

Reference:

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-overview

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-multivip-overview QUESTION 8

You have an Azure subscription named Subscription1 that contains two Azure virtual networks named VNet1 and VNet2. VNet1 contains a VPN gateway named VPNGW1 that uses static routing. There is a site-to-site VPN connection between your on-premises network and VNet1.

On a computer named Client1 that runs Windows 10, you configure a point-to-site VPN connection to VNet1.

You configure virtual network peering between VNet1 and VNet2. You verify that you can connect to VNet2 from the on-premises network. Client1 is unable to connect to VNet2.

You need to ensure that you can connect Client1 to VNet2.

What should you do?

A. Download and re-install the VPN client configuration package on Client1.



- B. Select Allow gateway transit on VNet1.
- C. Select Allow gateway transit on VNet2.
- D. Enable BGP on VPNGW1

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-point-to-site-

routing

QUESTION 9

You have an Azure subscription that contains the resources in the following table.

Name	Type	Azure region	Resource group	
VNet1	Virtual network	West US	RG2	
VNet2	Virtual network	West US	RG1	
VNet3	Virtual network	East US	RG1	
NSG1	Network security group (NSG)	East US	RG2	

To which subnets can you apply NSG1?

- A. the subnets on VNet1 only
- B. the subnets on VNet2 and VNet3 only
- C. the subnets on VNet2 only
- D. the subnets on VNet3 only
- E. the subnets on VNet1, VNet2, and VNet3

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

All Azure resources are created in an Azure region and subscription. A resource can only be created in a virtual network that exists in the same region and subscription as the resource.



Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm

QUESTION 10

DRAG DROP

You have an Azure subscription that contains two virtual networks named VNet1 and VNet2. Virtual machines connect to the virtual networks.

The virtual networks have the address spaces and the subnets configured as shown in the following table.

Virtual network	Address space	Subnet	Peering
VNet1	10.1.0.0/16	10.1.0.0/24	VNet2
		10.1.1.0/26	
VNet2	10.2.0.0/16	10.2.0.0/24	VNet1

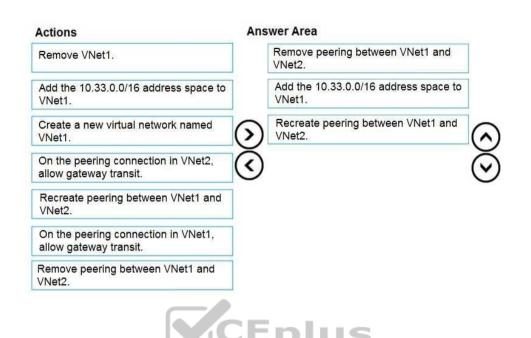
You need to add the address space of 10.33.0.0/16 to VNet1. The solution must ensure that the hosts on VNet1 and VNet2 can communicate.

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.

Remove VNet1. Add the 10.33.0.0/16 address space to VNet1. Create a new virtual network named VNet1. On the peering connection in VNet2, allow gateway transit. Recreate peering between VNet1 and VNet2. On the peering connection in VNet1, allow gateway transit. Remove peering between VNet1 and VNet2.

Correct Answer:





Section: (none) Explanation

Explanation/Reference:

Explanation:

Step 1: Remove peering between Vnet1 and VNet2.

You can't add address ranges to, or delete address ranges from a virtual network's address space once a virtual network is peered with another virtual network. To add or remove address ranges, delete the peering, add or remove the address ranges, then re-create the peering.

Step 2: Add the 10.44.0.0/16 address space to VNet1.

Step 3: Recreate peering between VNet1 and VNet2

Reference:

 $\underline{\text{https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering}}$

QUESTION 11

You have an Azure web app named webapp1.

You have a virtual network named VNET1 and an Azure virtual machine named VM1 that hosts a MySQL database. VM1 connects to VNET1.



You need to ensure that webapp1 can access the data hosted on VM1.

What should you do?

- A. Deploy an internal load balancer
- B. Peer VNET1 to another virtual network
- C. Connect webapp1 to VNET1
- D. Deploy an Azure Application Gateway

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

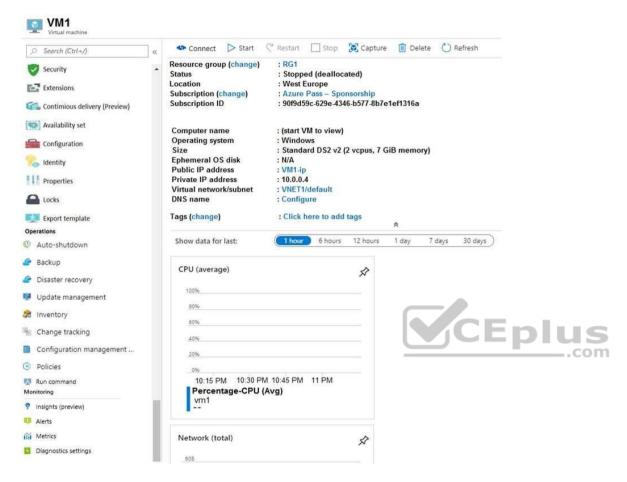
QUESTION 12

You create an Azure VM named VM1 that runs Windows Server 2019.

VM1 is configured as shown in the exhibit. (Click the Exhibit tab.)







You need to enable Desired State Configuration for VM1.

What should you do first?

- A. Connect to VM1.
- B. Start VM1.
- C. Capture a snapshot of VM1.
- D. Configure a DNS name for VM1.

Correct Answer: B



Section: (none) Explanation

Explanation/Reference:

Explanation:

Status is Stopped (Deallocated).

The DSC extension for Windows requires that the target virtual machine is able to communicate with Azure.

The VM needs to be started.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/dsc-windows

QUESTION 13

You have five Azure virtual machines that run Windows Server 2016. The virtual machines are configured as web servers.

You have an Azure load balancer named LB1 that provides load balancing services for the virtual machines.

You need to ensure that visitors are serviced by the same web server for each request.

What should you configure?

A. Floating IP (direct server return) to Disabled

- B. Idle Time-out (minutes) to 20
- C. Protocol to UDP
- D. Session persistence to Client IP

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

With Sticky Sessions when a client starts a session on one of your web servers, session stays on that specific server. To configure An Azure Load-Balancer For Sticky Sessions set Session persistence to Client IP or to Client IP and protocol.

On the following image you can see sticky session configuration:

Note:

• Client IP and protocol specifies that successive requests from the same client IP address and protocol combination will be handled by the same virtual machine.





Client IP specifies that successive requests from the same client IP address will be handled by the same virtual machine.

Reference:

https://cloudopszone.com/configure-azure-load-balancer-for-sticky-sessions/

QUESTION 14

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 an Azure subscription that contains the following resources:

- A virtual network that has a subnet named Subnet1
- Two network security groups (NSGs) named NSG-VM1 and NSG-Subnet1
- A virtual machine named VM1 that has the required Windows Server configurations to allow Remote Desktop connections

NSG-Subnet1 has the default inbound security rules only.

NSG-VM1 has the default inbound security rules and the following custom inbound security rule:

• Priority: 100

Source: Any

Source port range: *

Destination: *

Destination port range: 3389

Protocol: UDPAction: Allow

VM1 has a public IP address and is connected to Subnet1. NSG-VM1 is associated to the network interface of VM1. NSG-Subnet1 is associated to Subnet1.

You need to be able to establish Remote Desktop connections from the internet to VM1.

Solution: You add an inbound security rule to NSG-Subnet1 that allows connections from the Any source to the *destination for port range 3389 and uses the TCP protocol. You remove NSG-VM1 from the network interface of VM1.

Does this meet the goal?

A. Yes

B. No



Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.

Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/troubleshoot-rdp-connection

QUESTION 15

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.

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You have an Azure subscription that contains the following resources:

- A virtual network that has a subnet named Subnet1
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- A virtual machine named VM1 that has the required Windows Server configurations to allow Remote Desktop connections

NSG-Subnet1 has the default inbound security rules only.

NSG-VM1 has the default inbound security rules and the following custom inbound security rule:

- Priority: 100Source: Any
- Source port range: *
- Destination: *
- Destination port range: 3389

Protocol: UDP - Action: Allow

VM1 has a public IP address and is connected to Subnet1. NSG-VM1 is associated to the network interface of VM1. NSG-Subnet1 is associated to Subnet1.

You need to be able to establish Remote Desktop connections from the internet to VM1.



Solution: You add an inbound security rule to NSG-Subnet1 that allows connections from the internet source to the VirtualNetwork destination for port range 3389 and uses the UDP protocol.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.

Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshoot-rdp-connection

QUESTION 16

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 an Azure subscription that contains the following resources:

- A virtual network that has a subnet named Subnet1
- Two network security groups (NSGs) named NSG-VM1 and NSG-Subnet1
- A virtual machine named VM1 that has the required Windows Server configurations to allow Remote Desktop connections

NSG-Subnet1 has the default inbound security rules only.

NSG-VM1 has the default inbound security rules and the following custom inbound security rule:

- Priority: 100
- Source: Any
- Source port range: *



Destination: *

• Destination port range: 3389

Protocol: UDPAction: Allow

VM1 has a public IP address and is connected to Subnet1. NSG-VM1 is associated to the network interface of VM1. NSG-Subnet1 is associated to Subnet1.

You need to be able to establish Remote Desktop connections from the internet to VM1.

Solution: You add an inbound security rule to NSG-Subnet1 and NSG-VM1 that allows connections from the internet source to the VirtualNetwork destination for port range 3389 and uses the TCP protocol.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

The default port for RDP is TCP port 3389. A rule to permit RDP traffic must be created automatically when you create your VM.

Note on NSG-Subnet1: Azure routes network traffic between all subnets in a virtual network, by default.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshoot-rdp-connection

QUESTION 17

You have an Azure subscription that contains a virtual network named VNET1. VNET1 contains the subnets shown in the following table.

Name	Connected virtual machines		
Subnet1	VM1, VM2		
Subnet2	VM3, VM4		
Subnet3	VM5, VM6		

Each virtual machine uses a static IP address.



You need to create network security groups (NSGs) to meet following requirements:

- Allow web requests from the internet to VM3, VM4, VM5, and VM6.
- Allow all connections between VM1 and VM2.
- Allow Remote Desktop connections to VM1.
- Prevent all other network traffic to VNET1.

What is the minimum number of NSGs you should create?

A. 1

B. 3

C. 4

D. 12

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

Each network security group also contains default security rules.



Note: A network security group (NSG) contains a list of security rules that allow or deny network traffic to resources connected to Azure Virtual Networks (VNet). NSGs can be associated to subnets, individual VMs (classic), or individual network interfaces (NIC) attached to VMs (Resource Manager).

Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/security-overview#default-security-rules

QUESTION 18

You have an Azure subscription that contains the resources shown in the following table.

Name	Туре	Resource group
VNET1	Virtual network	RG1
VM1	Virtual machine	RG1

The Not allowed resource types Azure policy is assigned to RG1 and uses the following parameters:

Microsoft.Network/virtualNetworks
Microsoft.Compute/virtualMachines



In RG1, you need to create a new virtual machine named VM2, and then connect VM2 to VNET1.

What should you do first?

- A. Remove Microsoft.Compute/virtualMachines from the policy.
- B. Create an Azure Resource Manager template
- C. Add a subnet to VNET1.
- D. Remove Microsoft. Network/virtualNetworks from the policy.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

The Not allowed resource types Azure policy prohibits the deployment of specified resource types. You specify an array of the resource types to block.

Virtual Networks and Virtual Machines are prohibited.

Reference:

https://docs.microsoft.com/en-us/azure/governance/policy/samples/not-allowed-resource-types

QUESTION 19

Your company has an Azure subscription named Subscription1.

The company also has two on-premises servers named Server1 and Server2 that run Windows Server 2016. Server1 is configured as a DNS server that has a primary DNS zone named adatum.com. Adatum.com contains 1,000 DNS records.

You manage Server1 and Subscription1 from Server2. Server2 has the following tools installed:

- The DNS Manager console
- Azure PowerShell

Azure CLI 2.0

You need to move the adatum.com zone to an Azure DNS zone in Subscription1. The solution must minimize administrative effort.

What should you use?

- A. Azure CLI
- B. Azure PowerShell



C. the Azure portal

D. the DNS Manager console

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

Step 1: Installing the DNS migration script

Open an elevated PowerShell window (Administrative mode) and run following command install-

script PrivateDnsMigrationScript

Step 2: Running the script Execute following command to run the script

PrivateDnsMigrationScript.ps1

 $\textbf{Reference:}\ \underline{\textbf{https://docs.microsoft.com/en-us/azure/dns/private-dns-migration-}}$

guide

QUESTION 20

You have a public load balancer that balances ports 80 and 443 across three virtual machines.

You need to direct all the Remote Desktop Protocol (RDP) connections to VM3 only.

What should you configure?

A. an inbound NAT rule

B. a new public load balancer for VM3

C. a frontend IP configuration

D. a load balancing rule

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference:



https://docs.microsoft.com/en-us/azure/load-balancer/tutorial-load-balancer-port-forwarding-portal

https://pixelrobots.co.uk/2017/08/azure-load-balancer-for-rds/

QUESTION 21

DRAG DROP You have an on-premises network that you plan to connect to Azure by using a site-so-site VPN.

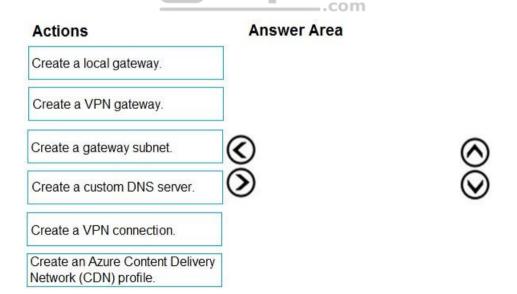
In Azure, you have an Azure virtual network named VNet1 that uses an address space of 10.0.0.0/16 VNet1 contains a subnet named Subnet1 that uses an address space of 10.0.0.0/24.

You need to create a site-to-site VPN to Azure.

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.

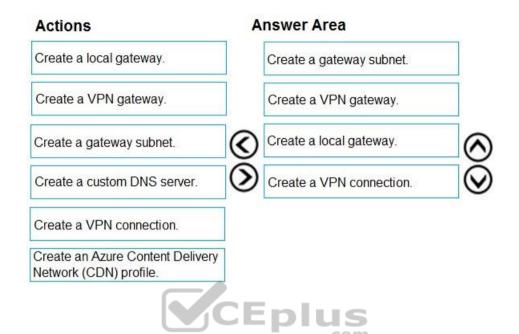
NOTE: More than one order of answer choice is correct. You will receive credit for any of the correct orders you select.

Select and Place:





Correct Answer:



Section: (none) Explanation

Explanation/Reference:

QUESTION 22

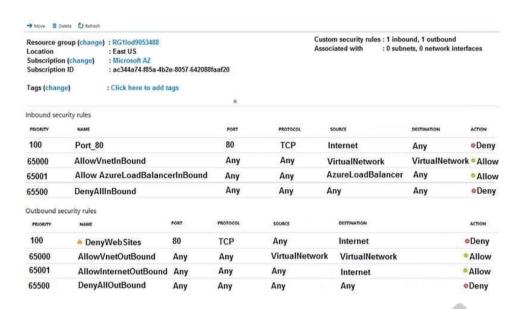
You have an Azure subscription that contains the resources in the following table.

Name	Туре	Details	
VNet1 Virtual network		Not applicable	
Subnet1 Subnet		Hosted on VNet1	
VM1 Virtual machine		On Subnet1	
VM2	Virtual machine	On Subnet1	

VM1 and VM2 are deployed from the same template and host line-of-business applications.

You configure the network security group (NSG) shown in the exhibit. (Click the Exhibit tab.)





You need to prevent users of VM1 and VM2 from accessing websites on the Internet over TCP port 80.

What should you do?

- A. Disassociate the NSG from a network interface
- B. Change the Port_80 inbound security rule.
- C. Associate the NSG to Subnet1.
- D. Change the DenyWebSites outbound security rule.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Explanation:

You can associate or dissociate a network security group from a network interface or subnet.

The NSG has the appropriate rule to block users from accessing the Internet. We just need to associate it with Subnet1.

Reference: https://docs.microsoft.com/en-us/azure/virtual-network/manage-network-security-group



QUESTION 23

You have two subscriptions named Subscription1 and Subscription2. Each subscription is associated to a different Azure AD tenant.

Subscription1 contains a virtual network named VNet1. VNet1 contains an Azure virtual machine named VM1 and has an IP address space of 10.0.0.0/16.

Subscription2 contains a virtual network named VNet2. VNet2 contains an Azure virtual machine named VM2 and has an IP address space of 10.10.0.0/24.

You need to connect VNet1 to VNet2.

What should you do first?

- A. Move VM1 to Subscription2.
- B. Move VNet1 to Subscription2.
- C. Modify the IP address space of VNet2.
- D. Provision virtual network gateways.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:



The virtual networks can be in the same or different regions, and from the same or different subscriptions. When connecting VNets from different subscriptions, the subscriptions do not need to be associated with the same Active Directory tenant.

Configuring a VNet-to-VNet connection is a good way to easily connect VNets. Connecting a virtual network to another virtual network using the VNet-to-VNet connection type (VNet2VNet) is similar to creating a Site-to-Site IPsec connection to an on-premises location. Both connectivity types use a VPN gateway to provide a secure tunnel using IPsec/IKE, and both function the same way when communicating.

The local network gateway for each VNet treats the other VNet as a local site. This lets you specify additional address space for the local network gateway in order to route traffic.

Reference:

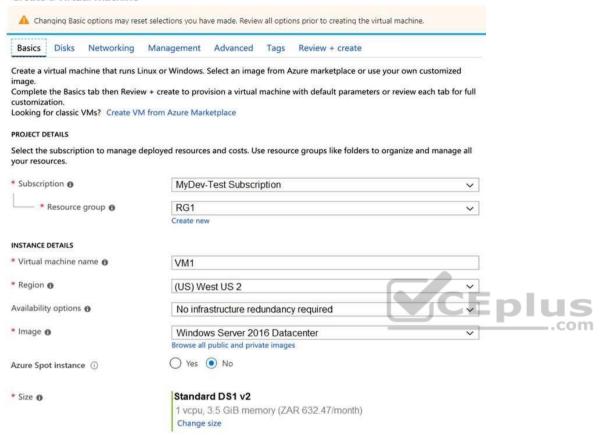
https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-vnet-vnet-resource-manager-portal

QUESTION 24

You plan to create an Azure virtual machine named VM1 that will be configured as shown in the following exhibit.

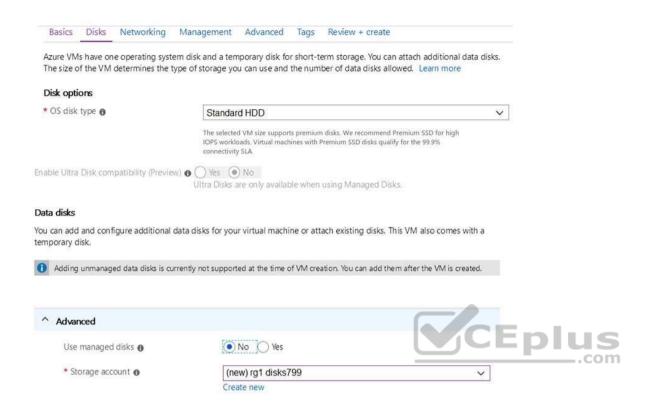


Create a virtual machine



The planned disk configurations for VM1 are shown in the following exhibit.





You need to ensure that VM1 can be created in an Availability Zone.

Which two settings should you modify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Use managed disks
- B. OS disk type
- C. Availability options
- D. Size
- E. Image



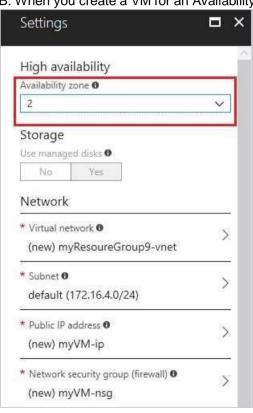
Correct Answer: AB Section: (none) Explanation

Explanation/Reference:

Explanation:

A: Your VMs should use managed disks if you want to move them to an Availability Zone by using Site Recovery.

B: When you create a VM for an Availability Zone, Under Settings > High availability, select one of the numbered zones from the Availability zone dropdown.





Reference: https://docs.microsoft.com/en-us/azure/virtual-machines/windows/create-portal-availability-zone



QUESTION 25

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 computer named Computer1 that has a point-to-site VPN connection to an Azure virtual network named VNet1. The point-to-site connection uses a selfsigned certificate.

From Azure, you download and install the VPN client configuration package on a computer named Computer2.

You need to ensure that you can establish a point-to-site VPN connection to VNet1 from Computer2.

Solution: You modify the Azure Active Directory (Azure AD) authentication policies.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

Instead export the client certificate from Computer1 and install the certificate on Computer2.

Note:

Each client computer that connects to a VNet using Point-to-Site must have a client certificate installed. You generate a client certificate from the self-signed root certificate, and then export and install the client certificate. If the client certificate is not installed, authentication fails.

Reference:

https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-certificates-point-to-site

QUESTION 26

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 computer named Computer1 that has a point-to-site VPN connection to an Azure virtual network named VNet1. The point-to-site connection uses a selfsigned certificate.

From Azure, you download and install the VPN client configuration package on a computer named Computer2.

You need to ensure that you can establish a point-to-site VPN connection to VNet1 from

Computer2. Solution: You join Computer2 to Azure Active Directory (Azure AD) Does this meet the

goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

A client computer that connects to a VNet using Point-to-Site must have a client certificate installed.

Reference:

 $\underline{\text{https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-certificates-point-to-site}}$

QUESTION 27

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 an Azure subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.

Another administrator plans to create several network security groups (NSGs) in the subscription.

You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution: You create a resource lock, and then you assign the lock to the subscription.

Does this meet the goal?



A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 28

You have an Azure subscription named Subscription1. Subscription1 contains a virtual machine named VM1.

You have a computer named Computer1 that runs Windows 10. Computer1 is connected to the Internet.

You add a network interface named vm1173 to VM1 as shown in the exhibit. (Click the Exhibit tab.)



From Computer1, you attempt to connect to VM1 by using Remote Desktop, but the connection fails.

You need to establish a Remote Desktop connection to VM1.

What should you do first?



- A. Change the priority of the RDP rule
- B. Attach a network interface
- C. Delete the DenyAllInBound rule
- D. Start VM1

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

Incorrect Answers:

A: Rules are processed in priority order, with lower numbers processed before higher numbers, because lower numbers have higher priority. Once traffic matches a rule, processing stops. RDP already has the lowest number and thus the highest priority.

B: The network interface has already been added to VM.

C: The Outbound rules are fine.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/security-overview

QUESTION 29

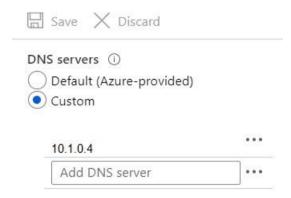
You have the Azure virtual machines shown in the following table.

Name	IP address	Connected to	
VM1	10.1.0.4	VNET1/Subnet1	
VM2	10.1.10.4	VNET1/Subnet2	
VM3	172.16.0.4	VNET2/SubnetA	
VM4	10.2.0.8	VNET3/SubnetB	

A DNS service is installed on VM1.

You configure the DNS servers settings for each virtual network as shown in the following exhibit.





You need to ensure that all the virtual machines can resolve DNS names by using the DNS service on VM1.

What should you do?

A. Configure a conditional forwarder on VM1

B. Add service endpoints on VNET1

C. Add service endpoints on VNET2 and VNET3

D. Configure peering between VNET1, VNET2, and VNET3



Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Explanation:

Virtual network peering enables you to seamlessly connect networks in Azure Virtual Network. The virtual networks appear as one for connectivity purposes. The traffic between virtual machines uses the Microsoft backbone infrastructure.

Incorrect Answers:

B, C: Virtual Network (VNet) service endpoint provides secure and direct connectivity to Azure services over an optimized route over the Azure backbone network. Endpoints allow you to secure your critical Azure service resources to only your virtual networks. Service Endpoints enables private IP addresses in the VNet to reach the endpoint of an Azure service without needing a public IP address on the VNet.

Reference:



https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-service-endpoints-overview

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-peering-overview QUESTION

30

You have the Azure virtual network named VNet1 that contains a subnet named Subnet1. Subnet1 contains three Azure virtual machines. Each virtual machine has a public IP address.

The virtual machines host several applications that are accessible over port 443 to users on the Internet.

Your on-premises network has a site-to-site VPN connection to VNet1.

You discover that the virtual machines can be accessed by using the Remote Desktop Protocol (RDP) from the Internet and from the on-premises network.

You need to prevent RDP access to the virtual machines from the Internet, unless the RDP connection is established from the on-premises network. The solution must ensure that all the applications can still be accessed by the Internet users.

What should you do?

- B. Create a deny rule in a network security group (NSG) that is linked to Subnet1
- C. Remove the public IP addresses from the virtual machines
- D. Modify the address space of Subnet1

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:

You can use a site-to-site VPN to connect your on-premises network to an Azure virtual network. Users on your on-premises network connect by using the RDP or SSH protocol over the site-to-site VPN connection. You don't have to allow direct RDP or SSH access over the internet.

Reference:

https://docs.microsoft.com/en-us/azure/security/fundamentals/network-best-practices

QUESTION 31

You have an Azure subscription that contains the resources in the following table.



Name	Туре	
ASG1	Application security group	
NSG1	Network security group (NSG)	
Subnet1	Subnet	
VNet1	Virtual network	
NIC1	Network interface	
VM1	Virtual machine	

Subnet1 is associated to VNet1. NIC1 attaches VM1 to Subnet1.

You need to apply ASG1 to VM1.

What should you do?

A. Associate NIC1 to ASG1

B. Modify the properties of ASG1

C. Modify the properties of NSG1

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Explanation:

Application Security Group can be associated with NICs.

References: https://docs.microsoft.com/en-us/azure/virtual-network/security-overview#application-security-groups

QUESTION 32

You have an Azure subscription named Subscription1 that contains an Azure virtual network named VNet1. VNet1 connects to your on-premises network by using Azure ExpressRoute.

You plan to prepare the environment for automatic failover in case of ExpressRoute failure.

You need to connect VNet1 to the on-premises network by using a site-to-site VPN. The solution must minimize cost.

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



NOTE: Each correct selection is worth one point.

A. Create a connection

B. Create a local site VPN gateway

C. Create a VPN gateway that uses the VpnGw1 SKU

D. Create a gateway subnet

E. Create a VPN gateway that uses the Basic SKU

Correct Answer: ADE Section: (none)

Explanation

Explanation/Reference:

Reference: https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-portal

QUESTION 33

You have an Azure subscription that contains the resources shown in the following table.

Name	Туре	Location
VNET1	Virtual network	East US
IP1	Public IP address	West Europe
RT1	Route table	North Europe

You need to create a network interface named NIC1.

In which location can you create NIC1?

A. East US and North Europe only

B. East US only

C. East US, West Europe, and North Europe

D. East US and West Europe only

Correct Answer: B Section: (none) Explanation

Explanation/Reference:



Explanation:

Before creating a network interface, you must have an existing virtual network in the same location and subscription you create a network interface in.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface

QUESTION 34

You have Azure virtual machines that run Windows Server 2019 and are configured as shown in the following table.

Name	Virtual network name	DNS suffix configured in Windows Server	
VM1	VNET1	Contoso.com	
VM2	VNET2	Contoso.com	

You create a public Azure DNS zone named adatum.com and a private Azure DNS zone named contoso.com.

For controso.com, you create a virtual network link named link1 as shown in the exhibit. (Click the **Exhibit** tab.)







You discover that VM1 can resolve names in contoso.com but **cannot** resolve names in adatum.com. VM1 can resolve other hosts on the Internet.

You need to ensure that VM1 can resolve host names in adatum.com.

What should you do?

- A. Update the DNS suffix on VM1 to be adatum.com
- B. Configure the name servers for adatum.com at the domain registrar
- C. Create an SRV record in the contoso.com zone
- D. Modify the Access control (IAM) settings for link1

Correct Answer: A



Section: (none)

If you use Azure Provided DNS then appropriate DNS suffix will be automatically applied to your virtual machines. For all other options you must either use Fully Qualified Domain Names (FQDN) or manually apply appropriate DNS suffix to your virtual machines.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-name-resolution-for-vms-and-role-instances

QUESTION 35

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 an Azure subscription that contains the virtual machines shown in the following table.

Name	Public IP SKU	Connected to	Status Stopped (deallocated)	
VM1	None	VNET1/Subnet1		
VM2	Basic	VNET1/Subnet2	Running	

You deploy a load balancer that has the following configurations:



Name: LB1Type: InternalSKU: Standard

Virtual network: VNET1

You need to ensure that you can add VM1 and VM2 to the backend pool of LB1.

Solution: You create a Basic SKU public IP address, associate the address to the network interface of VM1, and then start VM1.

Does this meet the goal?

A. Yes

B. No

A Backend Pool configured by IP address has the following limitations: Standard load balancer only



Reference:

https://docs.microsoft.com/en-us/azure/load-balancer/backend-pool-management

QUESTION 36 Correct Answer: B Section: (none)

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 an Azure subscription that contains the virtual machines shown in the following table.

Name	Public IP SKU	Connected to	Status
VM1	None	VNET1/Subnet1	Stopped (deallocated)
VM2	Basic	VNET1/Subnet2	Running

You deploy a load balancer that has the following configurations:

Name: LB1 Type: Internal SKU: Standard

Virtual network: VNET1

You need to ensure that you can add VM1 and VM2 to the backend pool of LB1.

Solution: You create a Standard SKU public IP address, associate the address to the network interface of VM1, and then stop VM2.

Does this meet the goal?

A. Yes B. No

Correct Answer: B



Section: (none)



A Backend Pool configured by IP address has the following limitations: Standard load balancer only



Reference:

https://docs.microsoft.com/en-us/azure/load-balancer/backend-pool-management

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 an Azure subscription that contains the virtual machines shown in the following table.

Name	Public IP SKU	Connected to	Status
VM1	None	VNET1/Subnet1	Stopped (deallocated)
VM2 Basic		VNET1/Subnet2	Running

You deploy a load balancer that has the following configurations:

Name: LB1Type: InternalSKU: Standard

Virtual network: VNET1



You need to ensure that you can add VM1 and VM2 to the backend pool of LB1.

Solution: You create two Standard public IP addresses and associate a Standard SKU public IP address to the network interface of each virtual machine.

Does this meet the goal?

A. Yes B. No

Correct Answer: A Section: (none)

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 computer named Computer1 that has a point-to-site VPN connection to an Azure virtual network named VNet1. The point-to-site connection uses a selfsigned certificate.

From Azure, you download and install the VPN client configuration package on a computer named Computer2.

You need to ensure that you can establish a point-to-site VPN connection to VNet1 from Computer2.

Solution: You export the client certificate from Computer1 and install the certificate on Computer2.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

Each client computer that connects to a VNet using Point-to-Site must have a client certificate installed. You generate a client certificate from the self-signed root certificate, and then export and install the client certificate. If the client certificate is not installed, authentication fails.

Reference:

https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-certificates-point-to-site

QUESTION 39

You have an Azure virtual machine named VM1.

The network interface for VM1 is configured as shown in the exhibit. (Click the **Exhibit** tab.)

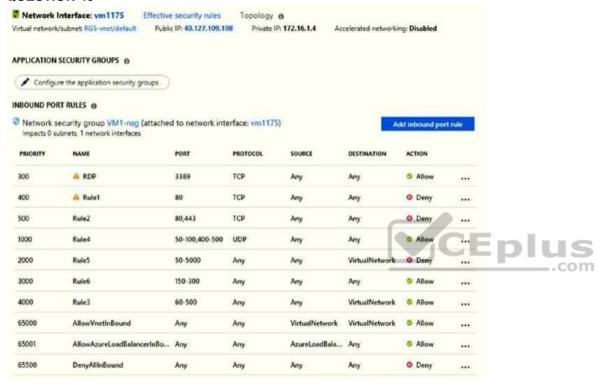
A Backend Pool configured by IP address has the following limitations: Standard load balancer only



Reference:

https://docs.microsoft.com/en-us/azure/load-balancer/backend-pool-management

QUESTION 40



You deploy a web server on VM1, and then create a secure website that is accessible by using the HTTPS protocol. VM1 is used as a web server only.

You need to ensure that users can connect to the website from the Internet.

What should you do?

- A. Modify the protocol of Rule4
- B. Delete Rule1
- C. For Rule5, change the Action to Allow and change the priority to 401



D. Create a new inbound rule that allows TCP protocol 443 and configure the rule to have a priority of **501**.

Correct Answer: C Section: (none) Explanation





Explanation/Reference:

Explanation:

HTTPS uses port 443.

Rule2, with priority 500, denies HTTPS traffic.

Rule5, with priority changed from 2000 to 401, would allow HTTPS traffic.

Note: Priority is a number between 100 and 4096. Rules are processed in priority order, with lower numbers processed before higher numbers, because lower numbers have higher priority. Once traffic matches a rule, processing stops. As a result, any rules that exist with lower priorities (higher numbers) that have the same attributes as rules with higher priorities are not processed.

Note:

There are several versions of this question in the exam. The question has two possible correct answers:

- 1. Change the priority of Rule3 to 450.
- 2. For Rule5, change the Action to **Allow** and change the priority to **401**.

Other incorrect answer options you may see on the exam include the following:

- Modify the action of Rule1.
- Change the priority of Rule6 to **100**.
- For Rule4, change the protocol from UDP to Any.



Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/network-security-groups-overview

QUESTION 40

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 an Azure subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.

Another administrator plans to create several network security groups (NSGs) in the subscription.

You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution: From the Resource providers blade, you unregister the Microsoft.ClassicNetwork provider.

Does this meet the goal?



A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

You should use a policy definition.

Resource policy definition used by Azure Policy enables you to establish conventions for resources in your organization by describing when the policy is enforced and what effect to take. By defining conventions, you can control costs and more easily manage your resources.

Reference:

https://docs.microsoft.com/en-us/azure/azure-policy/policy-definition

QUESTION 41

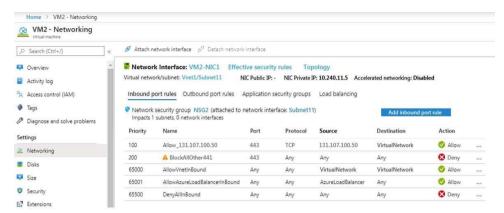
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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 an app named App1 that is installed on two Azure virtual machines named VM1 and VM2. Connections to App1 are managed by using an Azure Load Balancer.

The effective network security configurations for VM2 are shown in the following exhibit.





You discover that connections to App1 from 131.107.100.50 over TCP port 443 fail.

You verify that the Load Balancer rules are configured correctly.

You need to ensure that connections to App1 can be established successfully from 131.107.100.50 over TCP port 443.

Solution: You create an inbound security rule that denies all traffic from the 131.107.100.50 source and has a cost of 64999.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference:

https://fastreroute.com/azure-network-security-groups-explained/

QUESTION 42

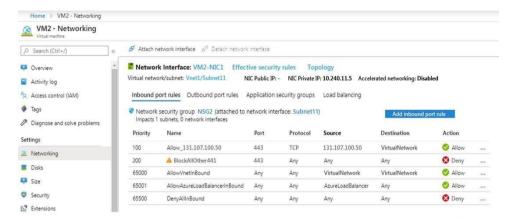
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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 an app named App1 that is installed on two Azure virtual machines named VM1 and VM2. Connections to App1 are managed by using an Azure Load Balancer.

The effective network security configurations for VM2 are shown in the following exhibit.



You discover that connections to App1 from 131.107.100.50 over TCP port 443 fail.

You verify that the Load Balancer rules are configured correctly.

You need to ensure that connections to App1 can be established successfully from 131.107.100.50 over TCP port 443.

Solution: You delete the BlockAllOther443 inbound security rule.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference:

https://fastreroute.com/azure-network-security-groups-explained/

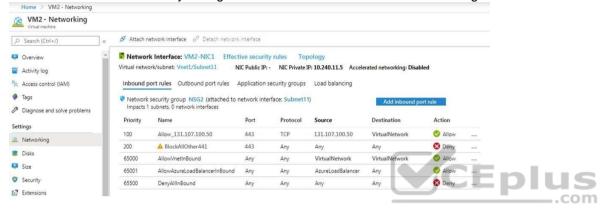


QUESTION 43

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 an app named App1 that is installed on two Azure virtual machines named VM1 and VM2. Connections to App1 are managed by using an Azure Load Balancer.

The effective network security configurations for VM2 are shown in the following exhibit.



You discover that connections to App1 from 131.107.100.50 over TCP port 443 fail.

You verify that the Load Balancer rules are configured correctly.

You need to ensure that connections to App1 can be established successfully from 131.107.100.50 over TCP port 443.

Solution: You modify the priority of the Allow_131.107.100.50 inbound security rule.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

Explanation:

The rule currently has the highest priority.

Reference:

https://fastreroute.com/azure-network-security-groups-explained/

QUESTION 44

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 an Azure subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.

Another administrator plans to create several network security groups (NSGs) in the subscription.

You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution: You assign a built-in policy definition to the subscription.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Explanation:

Resource policy definition used by Azure Policy enables you to establish conventions for resources in your organization by describing when the policy is enforced and what effect to take. By defining conventions, you can control costs and more easily manage your resources.

Reference:

https://docs.microsoft.com/en-us/azure/azure-policy/policy-definition

QUESTION 45



You have an Azure subscription.

You plan to deploy an Azure Kubernetes Service (AKS) cluster to support an app named App1. On-premises clients connect to App1 by using the IP address of the pod.

For the AKS cluster, you need to choose a network type that will support App1.

What should you choose?

- A. kubenet
- B. Azure Container Networking Interface (CNI)
- C. Hybrid Connection endpoints
- D. Azure Private Link

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Explanation:
With Azure CNI, every pod gets an IP address from the subnet and can be accessed directly. These IP addresses must be unique across your network space.

Incorrect Answers:

A: The kubenet networking option is the default configuration for AKS cluster creation. With kubenet, nodes get an IP address from the Azure virtual network subnet. Pods receive an IP address from a logically different address space to the Azure virtual network subnet of the nodes. Network address translation (NAT) is then configured so that the pods can reach resources on the Azure virtual network.

C, D: AKS only supports Kubenet networking and Azure Container Networking Interface (CNI) networking

Reference:

https://docs.microsoft.com/en-us/azure/aks/concepts-network

QUESTION 46

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 an Azure subscription that contains the virtual machines shown in the following table.



Name Public IP Sh		Connected to	Status	
VM1	None	VNET1/Subnet1	Stopped (deallocated)	
VM2	Basic	VNET1/Subnet2	Running	

You deploy a load balancer that has the following configurations:

Name: LB1

Type: InternalSKU: Standard

Virtual network: VNET1

You need to ensure that you can add VM1 and VM2 to the backend pool of LB1.

Solution: You disassociate the public IP address from the network interface of VM2.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B Section: (none) Explanation



QUESTION 47

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 an Azure subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.

Another administrator plans to create several network security groups (NSGs) in the subscription.

You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.





Solution: You configure a custom policy definition, and then you assign the policy to the subscription.

Does this meet the goal?

A. Yes B. No

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Explanation:

Resource policy definition used by Azure Policy enables you to establish conventions for resources in your organization by describing when the policy is enforced and what effect to take. By defining conventions, you can control costs and more easily manage your resources.

Reference:

https://docs.microsoft.com/en-us/azure/azure-policy/policy-definition

QUESTION 48

You have two Azure virtual networks named VNet1 and VNet2. VNet1 contains an Azure virtual machine named VM1. VNet2 contains an Azure virtual machine named VM2.

VM1 hosts a frontend application that connects to VM2 to retrieve data.

Users report that the frontend application is slower than usual.

You need to view the average round-trip time (RTT) of the packets from VM1 to VM2.

Which Azure Network Watcher feature should you use?

- A. IP flow verify
- B. Connection troubleshoot
- C. Connection monitor
- D. NSG flow logs

Correct Answer: C Section: (none) Explanation



Explanation/Reference:

Explanation:

The connection monitor capability monitors communication at a regular interval and informs you of reachability, latency, and network topology changes between the VM and the endpoint

Incorrect Answers:

A: The IP flow verify capability enables you to specify a source and destination IPv4 address, port, protocol (TCP or UDP), and traffic direction (inbound or outbound). IP flow verify then tests the communication and informs you if the connection succeeds or fails. If the connection fails, IP flow verify tells you which security rule allowed or denied the communication, so that you can resolve the problem.

B: The connection troubleshoot capability enables you to test a connection between a VM and another VM, an FQDN, a URI, or an IPv4 address. The test returns similar information returned when using the connection monitor capability, but tests the connection at a point in time, rather than monitoring it over time, as connection monitor does.

__.com

D: The NSG flow log capability allows you to log the source and destination IP address, port, protocol, and whether traffic was allowed or denied by an NSG.

Reference:

https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview

QUESTION 49

You have an Azure subscription that contains two virtual machines as shown in the following table.

Name	Operating system	Location	IP address	DNS server
VM1	Windows Server 2019	West Europe	10.0.0.4	Default (Azure-provided)
VM2	Windows Server 2019	West Europe	10.0.0.5	Default (Azure-provided)

You perform a reverse DNS lookup for 10.0.0.4 from VM2.

Which FQDN will be returned?

A. vm1.core.windows.net

B. vm1.azure.com

C. vm1.westeurope.cloudapp.azure.com

D. vm1.internal.cloudapp.net

Correct Answer: B Section: (none) Explanation

Explanation/Reference:



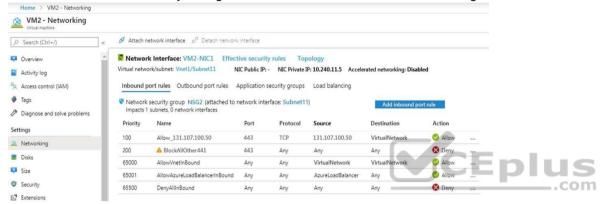
QUESTION 50

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 an app named App1 that is installed on two Azure virtual machines named VM1 and VM2. Connections to App1 are managed by using an Azure Load Balancer.

The effective network security configurations for VM2 are shown in the following exhibit.



You discover that connections to App1 from 131.107.100.50 over TCP port 443 fail.

You verify that the Load Balancer rules are configured correctly.

You need to ensure that connections to App1 can be established successfully from 131.107.100.50 over TCP port 443.

Solution: You create an inbound security rule that allows any traffic from the AzureLoadBalancer source and has a cost of 150.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/network-security-groups-overview

Configure and manage virtual networking

Testlet 2

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**

Litware, Inc. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Litware are hosted on-premises.

Litware creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named litware.onmicrosoft.com. The tenant uses the P1 pricing tier.

Existing Environment

The network contains an Active Directory forest named litware.com. All domain controllers are configured as DNS servers and host the litware.com DNS zone.



Litware has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the **department** attribute set to their respective department. New users are added frequently.

Litware.com contains a user named User1.

All the offices connect by using private connections.

Litware has data centers in the Montreal and Seattle offices. Each office has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMware vCenter server	VM1
Server2	Hyper-V host	VM2

Litware uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory.

The Azure subscription contains the resources in the following table.

Name	Туре
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine



The network security team implements several network security groups (NSGs)

Requirements

Planned Changes

Litware plans to implement the following changes:

- Deploy Azure ExpressRoute to the Montreal office.
- Migrate the virtual machines hosted on Server1 and Server2 to Azure.
- Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).
- Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical Requirements



Litware must meet the following technical requirements:

- Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.
- Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.
- Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.
- Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
- Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.litware.com.
- Connect the New York office to VNet1 over the Internet by using an encrypted connection.
- Create a workflow to send an email message when the settings of VM4 are modified.
- Create a custom Azure role named Role1 that is based on the Reader role. Minimize costs whenever possible.

QUESTION 1

HOTSPOT

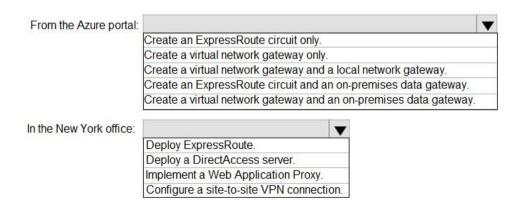
You need to meet the connection requirements for the New York office.

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

NOTE: Each correct selection is worth one point.

Hot Area:

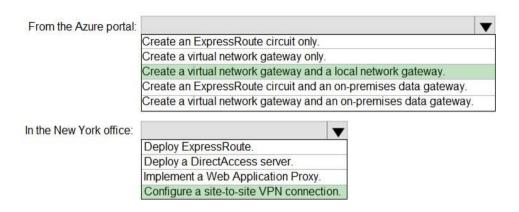
Answer Area





Correct Answer:

Answer Area



Section: (none) Explanation

Explanation/Reference:

Explanation:

Box 1: Create a virtual network gateway and a local network gateway.

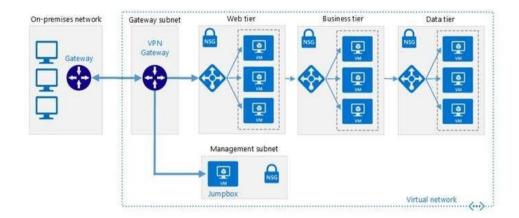
Azure VPN gateway. The VPN gateway service enables you to connect the VNet to the on-premises network through a VPN appliance. For more information, see Connect an on-premises network to a Microsoft Azure virtual network. The VPN gateway includes the following elements:

- Virtual network gateway. A resource that provides a virtual VPN appliance for the VNet. It is responsible for routing traffic from the on-premises network to the VNet.
- Local network gateway. An abstraction of the on-premises VPN appliance. Network traffic from the cloud application to the on-premises network is routed through this gateway.
- Connection. The connection has properties that specify the connection type (IPSec) and the key shared with the on-premises VPN appliance to encrypt traffic. Gateway subnet. The virtual network gateway is held in its own subnet, which is subject to various requirements, described in the Recommendations section below.

Box 2: Configure a site-to-site VPN connection

On premises create a site-to-site connection for the virtual network gateway and the local network gateway.





Scenario: Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Incorrect Answers:

Azure ExpressRoute: Established between your network and Azure, through an ExpressRoute partner. This connection is private. Traffic does not go over the internet.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/hybrid-networking/vpn