AZ-305Q&As

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

HOTSPOT - (Topic 4)

You are designing an application that will use Azure Linux virtual machines to analyze video files. The files will be uploaded from corporate offices that connect to Azure by using ExpressRoute.

You plan to provision an Azure Storage account to host the files.

You need to ensure that the storage account meets the following requirements:

1.

Supports video files of up to 7 TB

2.

Provides the highest availability possible

3.

Ensures that storage is optimized for the large video files

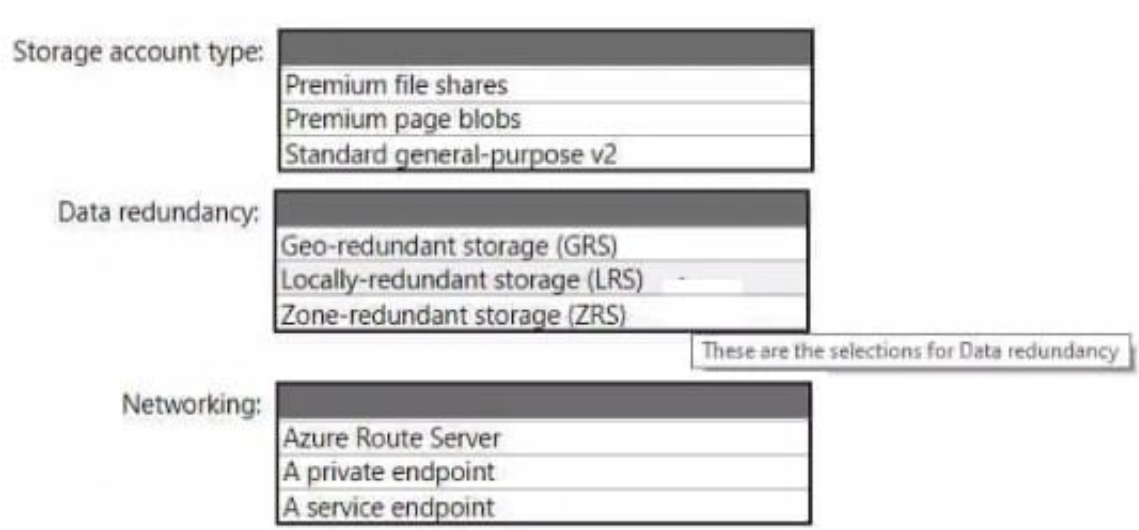
4.

Ensures that files from the on-premises network are uploaded by using ExpressRoute

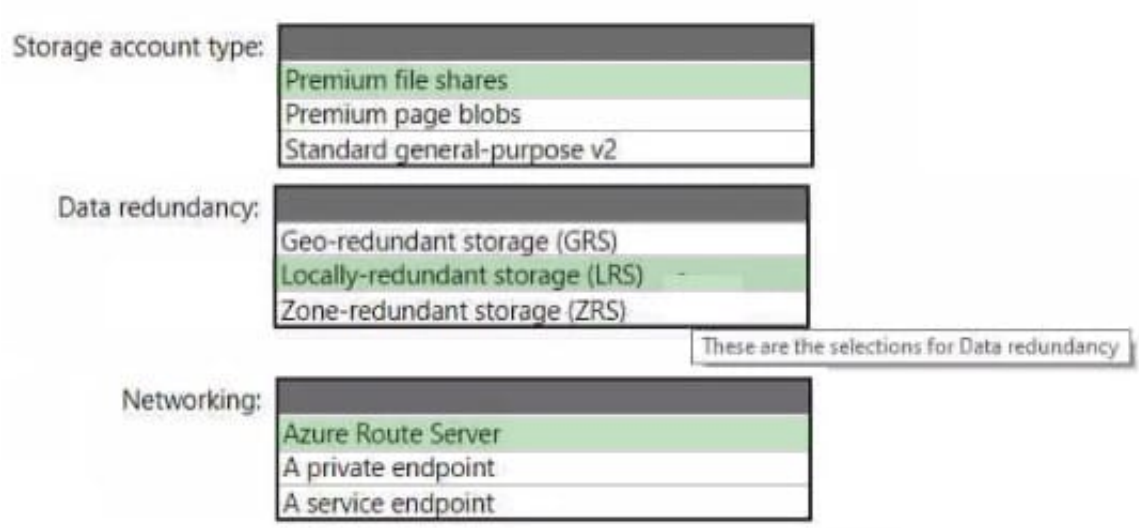
How should you configure the storage account? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:

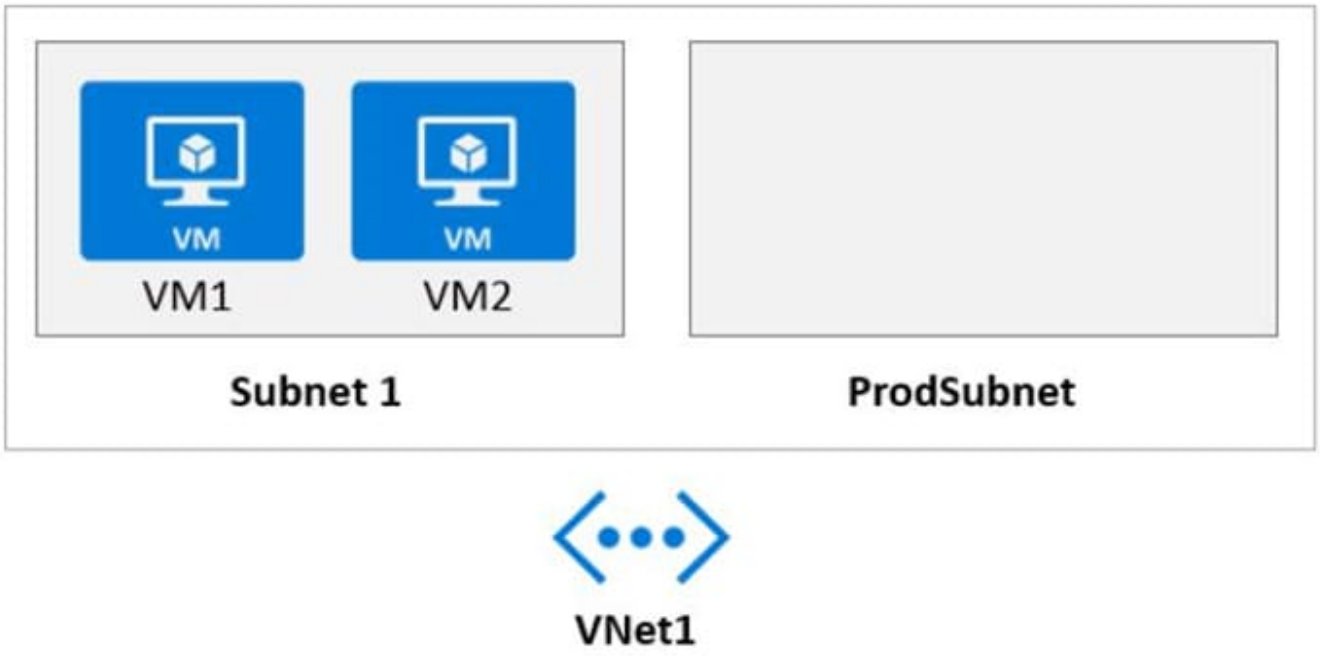


QUESTION 2

HOTSPOT

Your company develops a web service that is deployed to an Azure virtual machine named VM1. The web service allows an API to access real-time data from VM1.

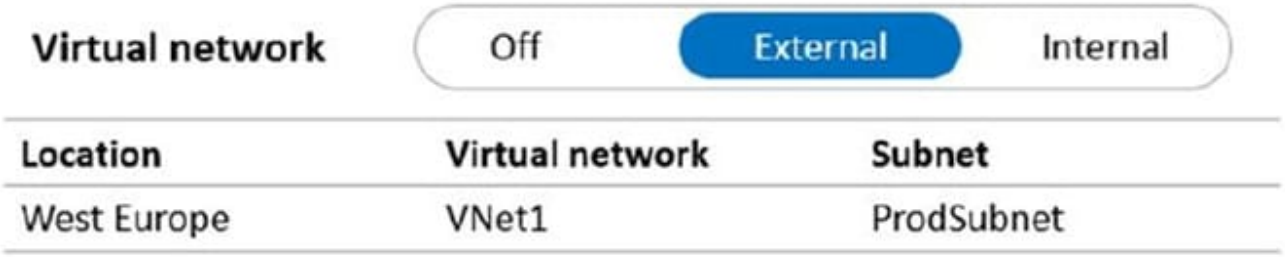
The current virtual machine deployment is shown in the Deployment exhibit.



The chief technology officer (CTO) sends you the following email message: "Our developers have deployed the web service to a virtual machine named VM1. Testing has shown that the API is accessible from VM1 and VM2. Our partners must be able to connect to the API over the Internet. Partners will use this data in applications that they

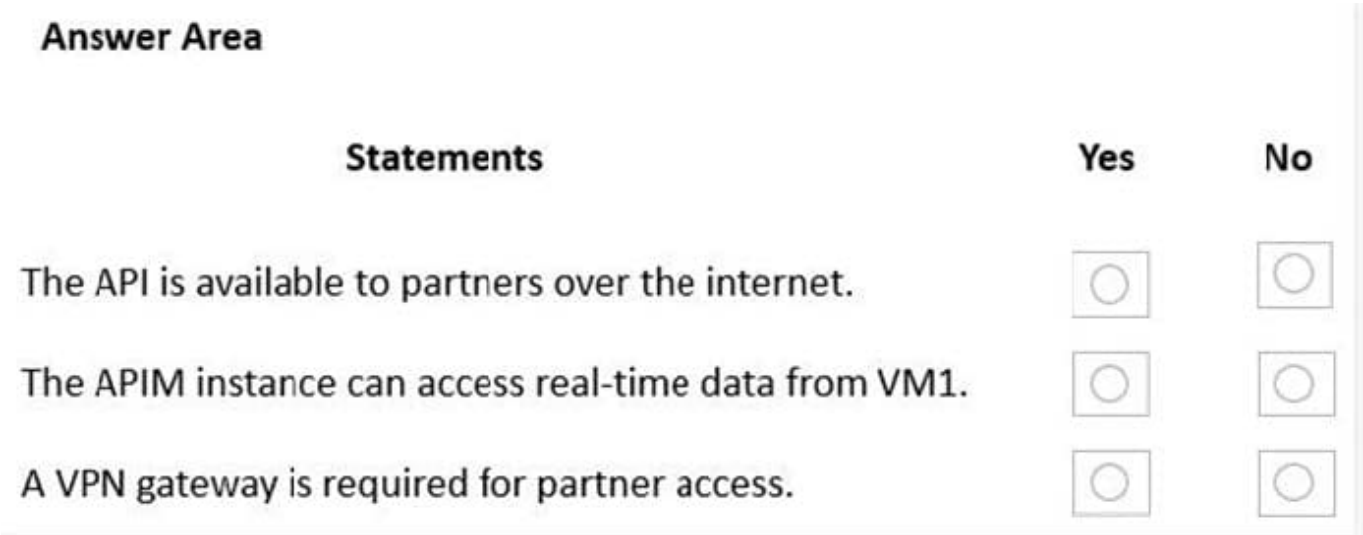
develop."

You deploy an Azure API Management (APIM) service. The relevant API Management configuration is shown in the API exhibit.

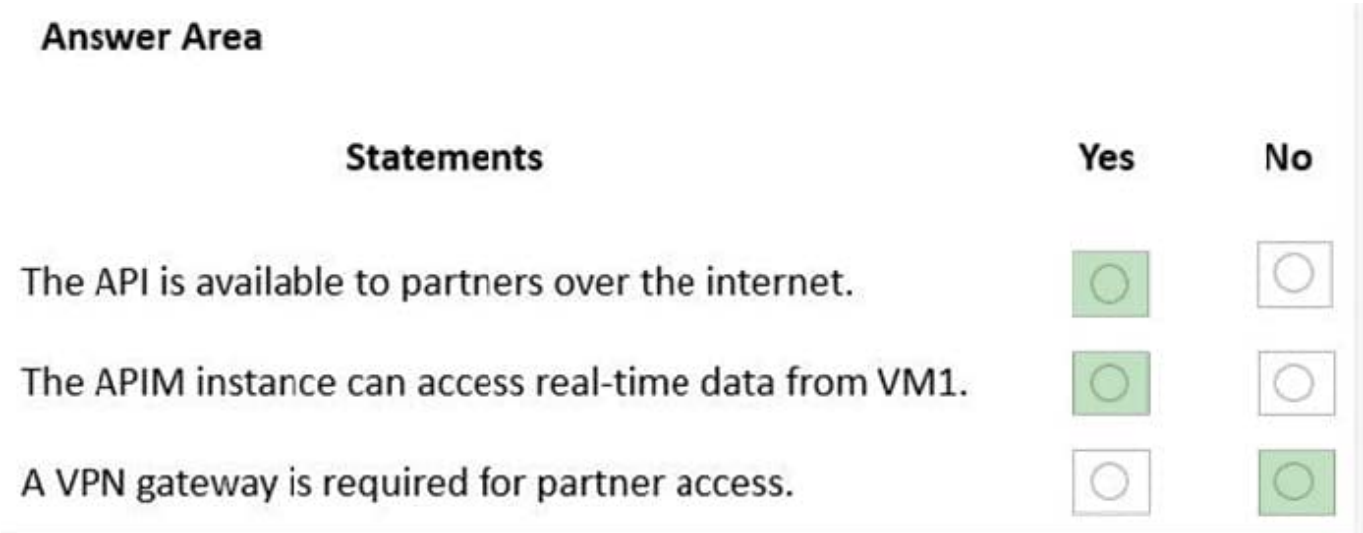


For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Reference: https://docs.microsoft.com/en-us/azure/api-management/api-management-using-with-vnet

QUESTION 3

You are designing an Azure solution.

The network traffic for the solution must be securely distributed by providing the following features:

HTTPS protocol Round robin routing SSL offloading You need to recommend a load balancing option.

What should you recommend?

A. Azure Load Balancer

B. Azure Traffic Manager

C. Azure Internal Load Balancer (ILB)

D. Azure Application Gateway

Correct Answer: D

If you are looking for Transport Layer Security (TLS) protocol termination ("SSL offload") or per-HTTP/ HTTPS request, application-layer processing, review Application Gateway. Application Gateway is a layer 7 load balancer, which means it works only with web traffic (HTTP, HTTPS, WebSocket, and HTTP/2). It supports capabilities such as SSL termination, cookie-based session affinity, and round robin for load- balancing traffic. Load Balancer load-balances traffic at layer 4 (TCP or UDP).

References: https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-faq

QUESTION 4

HOTSPOT

You have an Azure subscription that contains the SQL servers on Azure shown in the following table.

Name	Resource group	Location
SQLsvr1	RG1	East US
SQLsvr2	RG2	West US

The subscription contains the storage accounts shown in the following table.

Name	Resource group	Location	Account kind
storage1	RG1	East US	StorageV2 (general purposev2)
storage2	RG2	Central US	BlobStorage

You create the Azure SQL databases shown in the following table.

Name	Resource group	Server	Pricing tier
SQLdb1	RG1	SQLsvr1	Standard
SQLdb2	RG1	SQLsvr1	Standard
SQLdb3	RG2	SQLsvr2	Premium

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
When you enable auditing for SQLdb1, you can store the audit information to storage1.	○	○
When you enable auditing for SQLdb2, you can store the audit information to storage2.	○	○
When you enable auditing for SQLdb3, you can store the audit information to storage2.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	●	○
When you enable auditing for SQLdb2, you can store the audit information to storage2.	○	●
When you enable auditing for SQLdb3, you can store the audit information to storage2.	●	○

Box 1: Yes Be sure that the destination is in the same region as your database and server. Box 2: No Box 3: Yes
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing

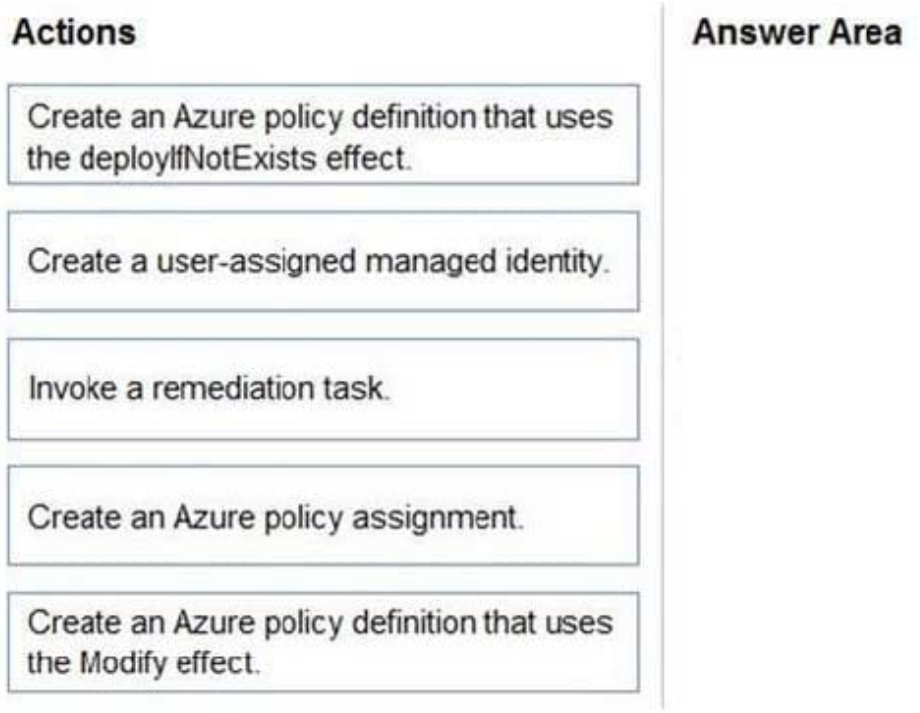
QUESTION 5

DRAG DROP

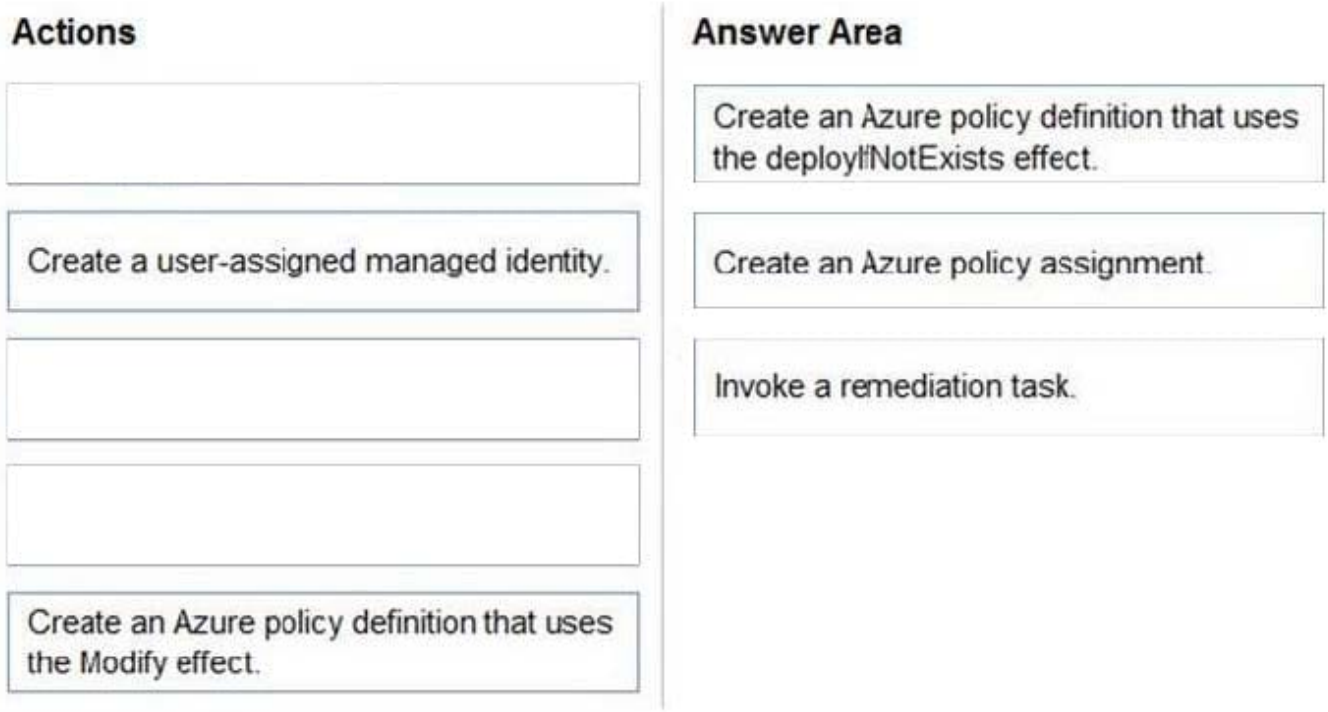
You need to configure an Azure policy to ensure that the Azure SQL databases have TDE enabled. The solution must meet the security and compliance requirements.

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:



Scenario: All Azure SQL databases in the production environment must have Transparent Data Encryption (TDE) enabled.

Step 1: Create an Azure policy definition that uses the deployIfNotExists identity.

The first step is to define the roles that deployIfNotExists and modify needs in the policy definition to successfully deploy the content of your included template.

Step 2: Create an Azure policy assignment

When creating an assignment using the portal, Azure Policy both generates the managed identity and grants it the roles defined in roleDefinitionIds.

Step 3: Invoke a remediation task

Resources that are non-compliant to a deployIfNotExists or modify policy can be put into a compliant state through Remediation. Remediation is accomplished by instructing Azure Policy to run the deployIfNotExists effect or the modify

operations of the assigned policy on your existing resources and subscriptions, whether that assignment is to a management group, a subscription, a resource group, or an individual resource.

During evaluation, the policy assignment with deployIfNotExists or modify effects determines if there are non-compliant resources or subscriptions. When non-compliant resources or subscriptions are found, the details are provided on the

Remediation page.