AZ-305 Q&As

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

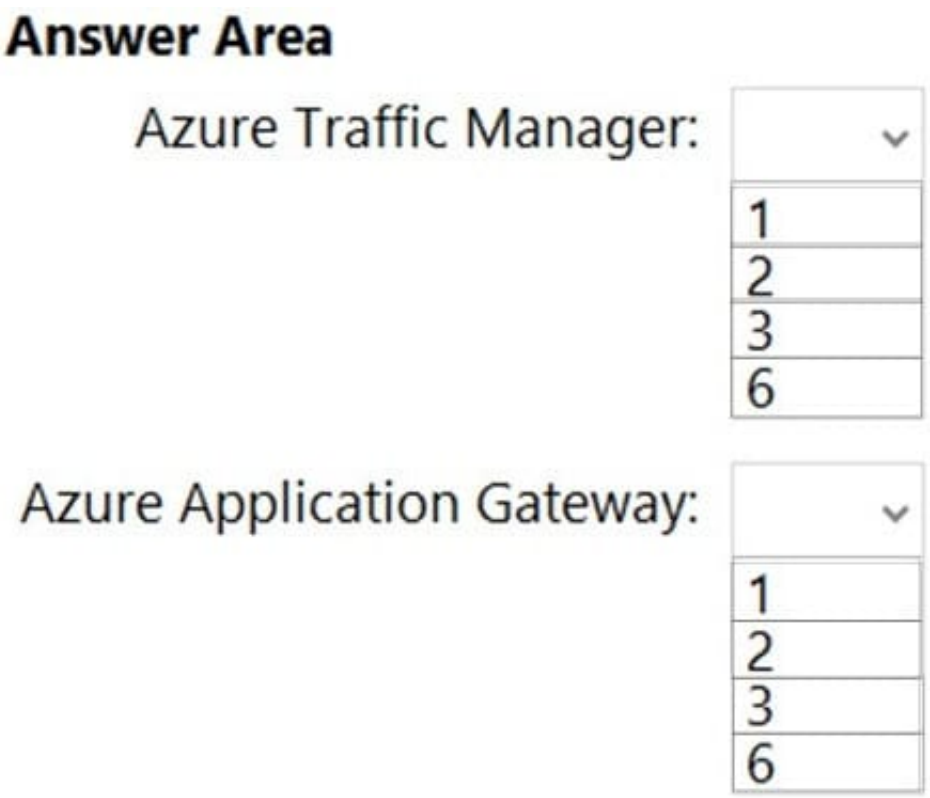
HOTSPOT

You are evaluating whether to use Azure Traffic Manager and Azure Application Gateway to meet the connection requirements for App1.

What is the minimum numbers of instances required for each service? To answer, select the appropriate options in the answer area.

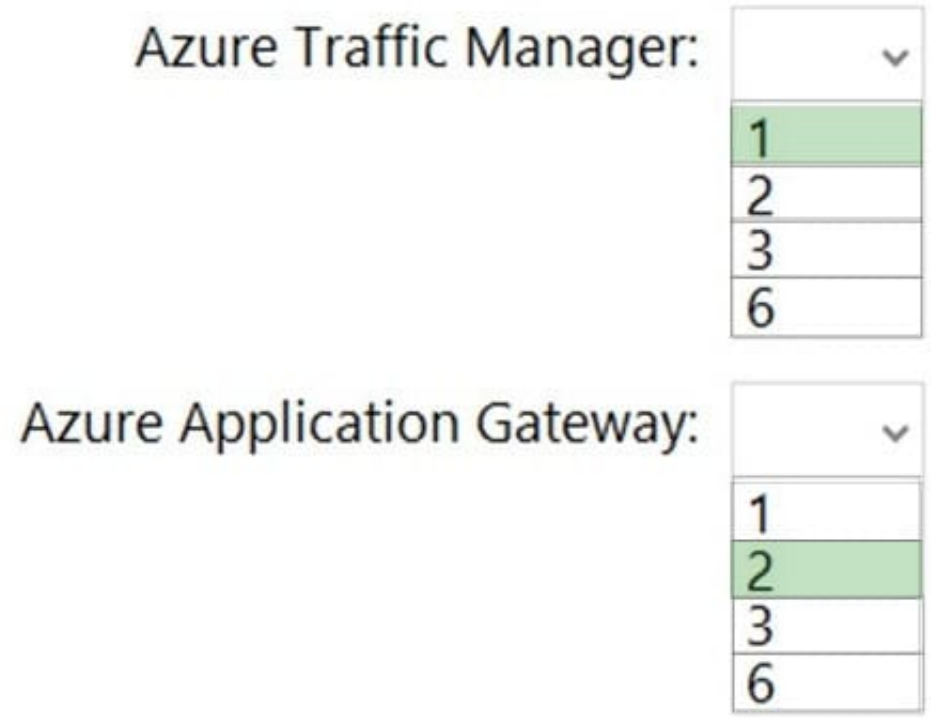
NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:

Answer Area



Box 1: 1

App1 will only be accessible from the internet. App1 has the following connection requirements:

1.

Connections to App1 must be active-active load balanced between instances.

2.

All connections to App1 from North America must be directed to the East US region.

3.

All other connections must be directed to the West Europe region.

App1 will have six instances: three in the East US Azure region and three in the West Europe Azure region.

Note: Azure Traffic Manager is a DNS-based traffic load balancer. This service allows you to distribute traffic to your public facing applications across the global Azure regions.

Box 2: 2

For production workloads, run at least two gateway instances.

A single Application Gateway deployment can run multiple instances of the gateway.

Use one Application Gateway in East US Region, and one in the West Europe region.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/high-availability/reference-architecture-traffic-manager-application-gateway

QUESTION 2

You are planning a storage solution. The solution must meet the following requirements:

Support at least 500 requests per second.

Support a large image, video, and audio streams.

Which type of Azure Storage account should you provision?

A. standard general-purpose v2

B. premium block blobs

C. premium page blobs

D. premium file shares

Correct Answer: B

Use Azure Blobs if you want your application to support streaming and random access scenarios.

It\\'s ideal for applications that require high transaction rates or consistent low-latency storage.

Incorrect:

Not A: Standard storage accounts has a default maximum request rate per storage account 20,000 requests per second1, but is not optimized for video and audio streams.

Not C: Page blobs is best suited for random reads and random writes.

Not D: FileStorage storage accounts (premium) has a maximum concurrent request rate of 100,000 IOPS.

Maximum file size is 4 TB, but is not optimized for video and audio streams.

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

https://docs.microsoft.com/en-us/azure/storage/files/storage-files-scale-targets

QUESTION 3

HOTSPOT

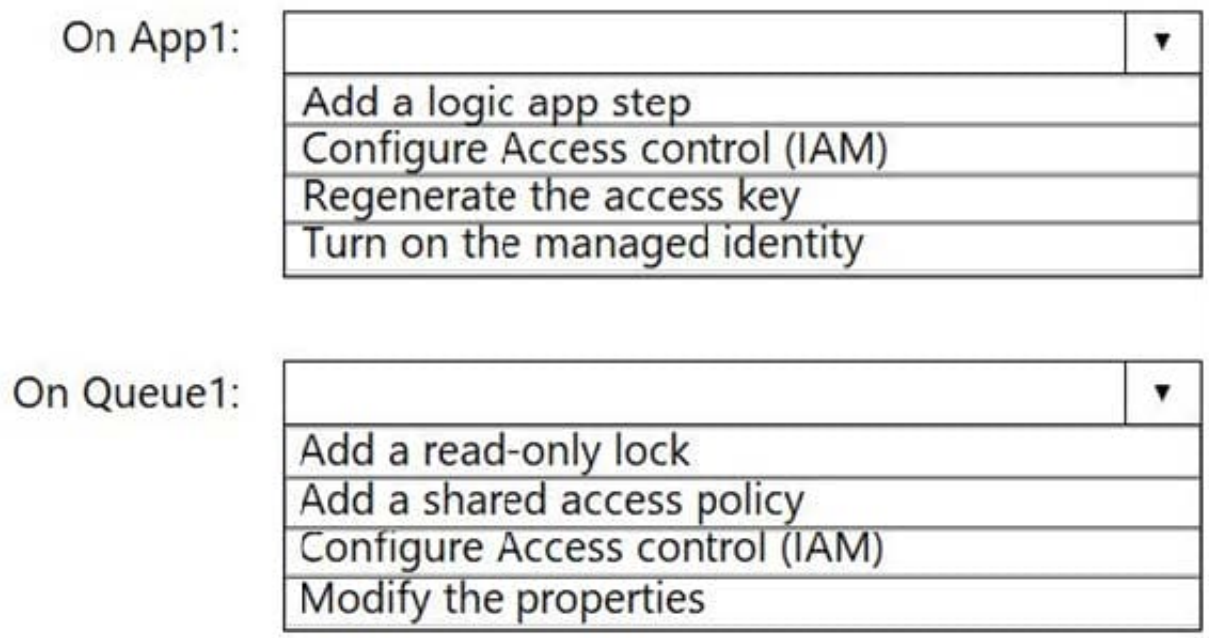
You have an Azure logic app named App1 and an Azure Service Bus queue named Queue1.

You need to ensure that App1 can read messages from Queue1. App1 must authenticate by using Azure Active Directory (Azure AD).

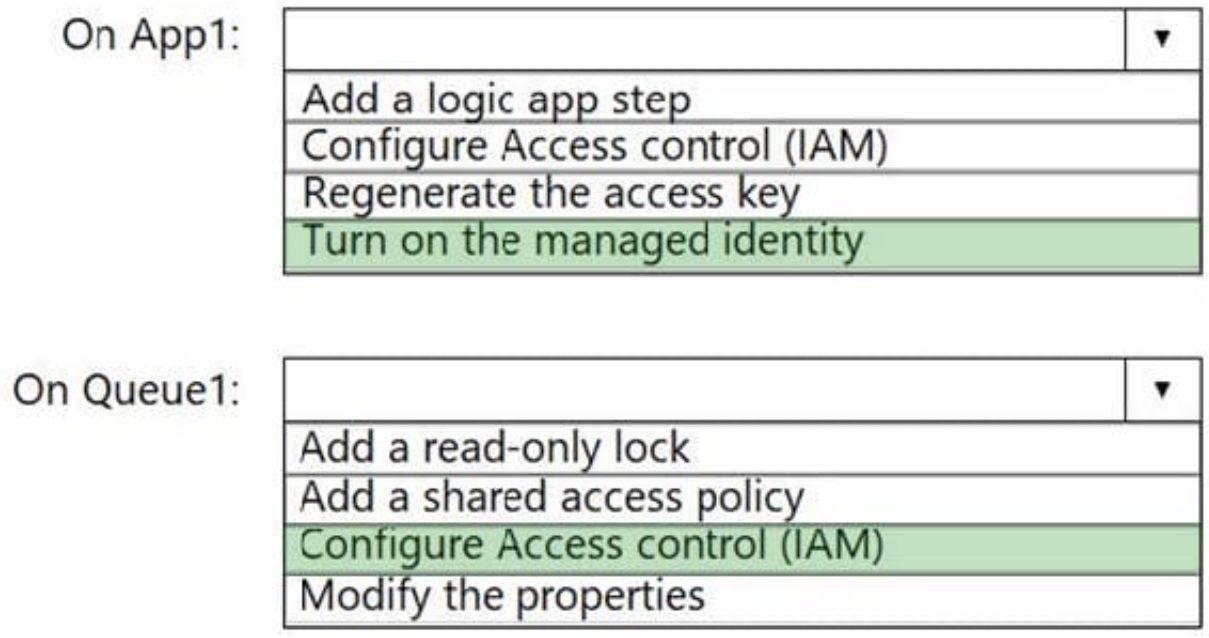
What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



On App1: Turn on the managed identity

To use Service Bus with managed identities, you need to assign the identity the role and the appropriate scope. The procedure in this section uses a simple application that runs under a managed identity and accesses Service Bus resources.

Once the application is created, follow these steps:

Go to Settings and select Identity.

Select the Status to be On.

Select Save to save the setting.

On Queue1: Configure Access Control (IAM)

Azure Active Directory (Azure AD) authorizes access rights to secured resources through role-based access control (RBAC). Azure Service Bus defines a set of built-in RBAC roles that encompass common sets of permissions used to access

Service Bus entities and you can also define custom roles for accessing the data.

Assign RBAC roles using the Azure portal

In the Azure portal, navigate to your Service Bus namespace. Select Access Control (IAM) on the left menu to display access control settings for the namespace. If you need to create a Service Bus namespace.

Select the Role assignments tab to see the list of role assignments. Select the Add button on the toolbar and then select Add role assignment.

Reference:

https://docs.microsoft.com/en-us/azure/service-bus-messaging/authenticate-application

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-managed-service-identity

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QUESTION 4

You have an Azure AD tenant.

You plan to deploy Azure Cosmos DB databases that will use the SQL API.

You need to recommend a solution to provide specific Azure AD user accounts with read access to the Cosmos DB databases.

What should you include in the recommendation?

A. a resource token and an Access control (1AM) role assignment

B. certificates and Azure Key Vault

C. master keys and Azure Information Protection policies

D. shared access signatures (SAS) and Conditional Access policies

Correct Answer: A

QUESTION 5

HOTSPOT

You have an Azure App Service web app that uses a system-assigned managed identity.

You need to recommend a solution to store their settings of the web app as secrets in an Azure key vault The solution must meet the following requirements:

1.

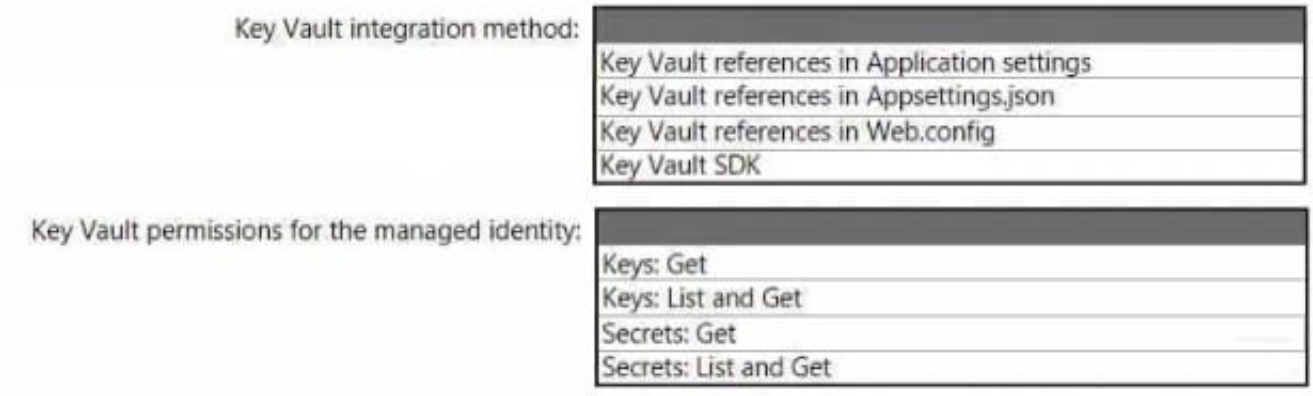
Minimize changes to the app code,

2.

Use the principle of least privilege.

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

Hot Area:



Correct Answer: