



# AZ-305<sup>Q&As</sup>

Designing Microsoft Azure Infrastructure Solutions

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**QUESTION 1****HOTSPOT**

Your organization has developed and deployed several Azure App Service Web and API applications. The applications use Azure Key Vault to store several authentication, storage account, and data encryption keys. Several departments have the following requests to support the applications:

Department	Request
Security	<ul style="list-style-type: none"><li>• Review membership of administrative roles and require to provide a justification for continued membership</li><li>• Get alerts about changes in administrator assignments.</li><li>• See a history of administrator activation, including which changes administrators made to Azure resources.</li></ul>
Development	<ul style="list-style-type: none"><li>• Enable the applications to access Azure Key Vault and retrieve keys for use in code.</li></ul>
Quality Assurance	<ul style="list-style-type: none"><li>• Receive temporary administrator access to create and configure additional Web and API applications in the test environment.</li></ul>

You need to recommend the appropriate Azure service for each department request.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Department****Azure Service**

Security

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Development

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Quality Assurance

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Correct Answer:



## Department

## Azure Service

Security

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Development

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Quality Assurance

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

### QUESTION 2

You have an Azure Cosmos DB account named Account1. Account1 includes a database named DB1 that contains a container named Container1. The partition key for Container1 is set to /city.

You plan to change the partition key for Container1.

What should you do first?

- A. Delete Container1.
- B. Create a new Azure Cosmos DB account.
- C. Implement the Azure Cosmos DB.NET.SDK.
- D. Regenerate the keys for Account1.



Correct Answer: B

The Change Feed Processor and Bulk Executor Library, in Azure Cosmos DB can be leveraged to achieve a live migration of your data from one container to another. This allows you to re-distribute your data to match the desired new partition key scheme, and make the relevant application changes afterwards, thus achieving the effect of "updating your partition key".

Incorrect Answers:

A: It is not possible to "update" your partition key in an existing container.

Reference: <https://devblogs.microsoft.com/cosmosdb/how-to-change-your-partition-key/>

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### 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.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Use the Azure Advisor to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Note: Advisor is a personalized cloud consultant that helps you follow best practices to optimize your Azure deployments. It analyzes your resource configuration and usage telemetry and then recommends solutions that can help you improve

the cost effectiveness, performance, high availability, and security of your Azure resources.

With Advisor, you can:

Get proactive, actionable, and personalized best practices recommendations. Improve the performance, security, and high availability of your resources, as you identify opportunities to reduce your overall Azure spend. Get recommendations



with proposed actions inline.

Reference:

<https://docs.microsoft.com/en-us/azure/advisor/advisor-overview>

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#### QUESTION 4

You have an app named App1 that uses an on-premises Microsoft SQL Server database named DB1.

You plan to migrate DB1 to an Azure SQL managed instance.

You need to enable customer-managed Transparent Data Encryption (TDE) for the instance. The solution must maximize encryption strength.

Which type of encryption algorithm and key length should you use for the TDE protector?

- A. AES256
- B. RSA4096
- C. RSA2048
- D. RSA3072

Correct Answer: D

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#### QUESTION 5

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 need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

1.

Provide access to the full .NET framework.

2.

Provide redundancy if an Azure region fails.

3.

Grant administrators access to the operating system to install custom application dependencies.



Solution: You deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

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