



# AZ-304<sup>Q&As</sup>

Microsoft Azure Architect Design Exam

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### QUESTION 1

You have an Azure subscription. The subscription contains an app that is hosted in the East US, Central Europe, and East Asia regions. You need to recommend a data-tier solution for the app. The solution must meet the following requirements:

1.  
Support multiple consistency levels.
2.  
Be able to store at least 1 TB of data.
3.  
Be able to perform read and write operations in the Azure region that is local to the app instance. What should you include in the recommendation?
  - A. an Azure SQL database in an elastic pool
  - B. a Microsoft SQL Server Always On availability group on Azure virtual machines
  - C. an Azure Cosmos DB database
  - D. Azure Table storage that uses geo-redundant storage (GRS) replication

Correct Answer: C

Azure Cosmos DB approaches data consistency as a spectrum of choices. This approach includes more options than the two extremes of strong and eventual consistency. You can choose from five well-defined levels on the consistency spectrum.

With Cosmos DB any write into any region must be replicated and committed to all configured regions within the account.

Incorrect Answers:

D: Not able to do local writes.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels-tradeoffs>

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### QUESTION 2

You plan to move several apps that handle critical line-of-business (LOB) services to Azure.

Appropriate personnel must be notified if any critical resources become degraded or unavailable.

You need to design a monitoring and notification strategy that can handle up to 100 notifications per hour.



Which three actions should you recommend be performed 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:

### Actions

### Answer Area

Create a resource group containing the critical resources.

Monitor Azure status for warnings and errors.

Create an activity log alert for service health.

Create an action group for alerts to email addresses.

Create an action group for alerts to SMS phone numbers.

Monitor service health for incidents and action required notifications.



Correct Answer:



### Actions

Monitor Azure status for warnings and errors.

Create an activity log alert for service health.

Create an action group for alerts to SMS phone numbers.

### Answer Area

Create a resource group containing the critical resources.

Create an action group for alerts to email addresses.

Monitor service health for incidents and action required notifications.



Step 1: Create a resource group containing the critical resources.

In step 2 the action group should be created within this Resource Group.

Step 2: Create an action group for alerts to email addresses.

You configure an action to notify a person by email or SMS, they receive a confirmation indicating they have been added to the action group.

The rate limit thresholds are:

1.

SMS: No more than 1 SMS every 5 minutes.

2.

Voice: No more than 1 Voice call every 5 minutes.

3.

Email: No more than 100 emails in an hour.

Step 3: Monitor service health for incidents and action required notifications

An action group is a collection of notification preferences defined by the owner of an Azure subscription. Azure Monitor



and Service Health alerts use action groups to notify users that an alert has been triggered.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-rate-limiting>

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### QUESTION 3

You need to design a highly available Azure SQL database that meets the following requirements:

1.

Failover between replicas of the database must occur without any data loss.

2.

The database must remain available in the event of a zone outage.

3.

Costs must be minimized. Which deployment option should you use?

A. Azure SQL Database Standard

B. Azure SQL Database Business Critical

C. Azure SQL Database Managed Instance Business Critical

D. Azure SQL Database Basic

Correct Answer: A

Standard geo-replication is available with Standard and Premium databases in the current Azure Management Portal and standard APIs.

Incorrect:

Not B: Business Critical service tier is designed for applications that require low-latency responses from the underlying SSD storage (1-2 ms in average), fast recovery if the underlying infrastructure fails, or need to off-load reports, analytics,

and read-only queries to the free of charge readable secondary replica of the primary database.

Note: Azure SQL Database and Azure SQL Managed Instance are both based on SQL Server database engine architecture that is adjusted for the cloud environment in order to ensure 99.99% availability even in the cases of infrastructure

failures. There are three architectural models that are used:

1.

General Purpose/Standard

2.



Business Critical/Premium

3.

Hyperscale

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tier-business-critical>

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#### QUESTION 4

Note: This question is a part of 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 are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Create a new subscription for each department.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, create a resources group for each resource type. Assign tags to each resource

Note: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

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#### QUESTION 5

HOTSPOT

You plan to deploy a network-intensive application to several Azure virtual machines. You need to recommend a solution that meets the following requirements:

1.



Minimizes the use of the virtual machine processors to transfer data

2.

Minimizes network latency

Which virtual machine size and feature should you use? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

Hot Area:

Virtual machine size: 

	▼
Compute optimized Standard_F8s	
General purpose Standard_B8ms	
High performance compute Standard_H16r	
Memory optimized Standard_E16s_v3	

Feature: 

	▼
Receive side scaling (RSS)	
Remote Direct Memory Access (RDMA)	
Single root I/O virtualization (SR-IOV)	
Virtual Machine Multi-Queue (VMMQ)	

Correct Answer:

Virtual machine size: 

	▼
Compute optimized Standard_F8s	
General purpose Standard_B8ms	
High performance compute Standard_H16r	
Memory optimized Standard_E16s_v3	

Feature: 

	▼
Receive side scaling (RSS)	
Remote Direct Memory Access (RDMA)	
Single root I/O virtualization (SR-IOV)	
Virtual Machine Multi-Queue (VMMQ)	

References: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series>

**QUESTION 6**

You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains several administrative user accounts. You need to recommend a solution to identify which administrative user accounts have NOT signed in during the previous 30 days. Which service should you include in the recommendation?

- A. Azure AD Identity Protection
- B. Azure Activity Log
- C. Azure Advisor
- D. Azure AD Privileged Identity Management (PIM)

Correct Answer: D

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**QUESTION 7**

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 an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016. Five virtual machines will be in the West Europe Azure region and five virtual

machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).

Solution: Export a security key from the on-premises HSM. Deploy Azure Key Vault and import the security key to Azure Key Vault. Configure the virtual machines to use Azure Storage encryption.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

The Key Vault has to be in the same region as the VM that will be encrypted.





Reference: <https://www.ciraltos.com/azure-disk-encryption-v2/>

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### QUESTION 8

You need to recommend a solution for protecting the content of the payment processing system. What should you include in the recommendation?

- A. Always Encrypted with deterministic encryption
- B. Always Encrypted with randomized encryption
- C. Transparent Data Encryption (TDE)
- D. Azure Storage Service Encryption

Correct Answer: A

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### QUESTION 9

#### HOTSPOT

You are building an application that will run in a virtual machine (VM). The application will use Azure Managed Identity.

The application uses Azure Key Vault, Azure SQL Database, and Azure Cosmos DB.

You need to ensure the application can use secure credentials to access these services.

Which authentication method should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Functionality	Authorization method
Azure Key Vault	<ul style="list-style-type: none"><li>Hash-based message authentication code (HMAC)</li><li>Azure Managed Identity</li><li>Role-Based Access Controls (RBAC)</li><li>HTTPS encryption</li></ul>
Azure SQL	<ul style="list-style-type: none"><li>Hash-based message authentication code (HMAC)</li><li>Azure Managed Identity</li><li>Role-Based Access Controls (RBAC)</li><li>HTTPS encryption</li></ul>
Cosmos DB	<ul style="list-style-type: none"><li>Hash-based message authentication code (HMAC)</li><li>Azure Managed Identity</li><li>Role-Based Access Controls (RBAC)</li><li>HTTPS encryption</li></ul>

Correct Answer:



Functionality	Authorization method
Azure Key Vault	<ul style="list-style-type: none"><li>Hash-based message authentication code (HMAC)</li><li>Azure Managed Identity</li><li>Role-Based Access Controls (RBAC)</li><li>HTTPS encryption</li></ul>
Azure SQL	<ul style="list-style-type: none"><li>Hash-based message authentication code (HMAC)</li><li>Azure Managed Identity</li><li>Role-Based Access Controls (RBAC)</li><li>HTTPS encryption</li></ul>
Cosmos DB	<ul style="list-style-type: none"><li>Hash-based message authentication code (HMAC)</li><li>Azure Managed Identity</li><li>Role-Based Access Controls (RBAC)</li><li>HTTPS encryption</li></ul>

Note: Managed identities for Azure resources is the new name for the service formerly known as Managed Service Identity (MSI).

Reference:

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

### QUESTION 10

A new corporate policy states that users must be able to authenticate to the web app by using their Azure Active Directory (Azure AD) credentials. What should you add to the web app?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- A. a custom domain
- B. a custom RBAC role
- C. two managed service identities
- D. an authentication provider

Correct Answer: C

You can create a managed identity for App Service and Azure Functions applications and how to use it to access other resources. A managed identity from Azure Active Directory (AAD) allows your app to easily access other AAD-protected



resources such as Azure Key Vault.

References: <https://docs.microsoft.com/en-us/azure/app-service/overview-managed-identity>

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### QUESTION 11

You plan to deploy an application named App1 that will run on five Azure virtual machines. Additional virtual machines will be deployed later to run App1. You need to recommend a solution to meet the following requirements for the virtual machines that will run App1:

1.  
Ensure that the virtual machines can authenticate to Azure Active Directory (Azure AD) to gain access to
2.  
an Azure key vault, Azure Logic Apps instances, and an Azure SQL database.
3.  
Avoid assigning new roles and permissions for Azure services when you deploy additional virtual machines.
4.  
Avoid storing secrets and certificates on the virtual machines. Which type of identity should you include in the recommendation?
  - A. a service principal that is configured to use a certificate
  - B. a system-assigned managed identity
  - C. a service principal that is configured to use a client secret
  - D. a user-assigned managed identity

Correct Answer: D

Managed identities for Azure resources is a feature of Azure Active Directory. User-assigned managed identity can be shared. The same user-assigned managed identity can be associated with more than one Azure resource. Incorrect Answers:

B: System-assigned managed identity cannot be shared. It can only be associated with a single Azure resource.

Reference:

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

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### QUESTION 12

You have 200 resource groups across 20 Azure subscriptions.



Your company's security policy states that the security administrator must verify all assignments of the Owner role for the subscriptions and resource groups once a month.

All assignments that are not approved by the security administrator must be removed automatically.

The security administrator must be prompted every month to perform the verification.

What should you use to implement the security policy?

- A. Access reviews in Identity Governance
- B. role assignments in Azure Active Directory (Azure AD) Privileged identity Management (PIM)
- C. Identity Secure Score in Azure Security Center
- D. the user risk policy in Azure Active Directory (Azure AD) Identity Protection

Correct Answer: A

Azure Active Directory (Azure AD) access reviews enable organizations to efficiently manage group memberships, access to enterprise applications, and role assignments. User's access can be reviewed on a regular basis to make sure only the right people have continued access.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview>

### QUESTION 13

#### HOTSPOT

You have databases in Azure as shown in the following table.

Name	Type	Pricing tier
SQLdb1	Azure SQL Database	Basic
SQLdb2	Azure SQL Database	Standard
SQLdb3	Azure SQL Database	Premium
DW1	Azure SQL Data Warehouse	<i>Not available</i>

You are designing a data retention policy.

You need to identify which databases can retain a daily backup for up to 35 days and which databases can retain monthly backups for up to 120 months.

Which databases should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Databases that can retain a daily backup for up to 35 days:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

Databases that can retain monthly backups for up to 120 months:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

Correct Answer:

Databases that can retain a daily backup for up to 35 days:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

Databases that can retain monthly backups for up to 120 months:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

**QUESTION 14**

You are planning the implementation of an order processing web service that will contain microservices hosted in an Azure Service Fabric cluster.

You need to recommend a solution to provide developers with the ability to proactively identify and fix performance issues. The developers must be able to simulate user connections to the order processing web service from the Internet, as

well as simulate user transactions. The developers must be notified if the goals for the transaction response times are not met.

What should you include in the recommendation?

- A. container health
- B. Azure Network Watcher
- C. Application Insights
- D. Service Fabric Analytics

Correct Answer: C

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**QUESTION 15**

You have an Azure subscription that contains a storage account. An application sometimes writes duplicate files to the storage account. You have a PowerShell script that identifies and deletes duplicate files in the storage account. Currently, the script is run manually after approval from the operations manager. You need to recommend a serverless solution that performs the following actions:

1.  
Runs the script once an hour to identify whether duplicate files exist
  2.  
Sends an email notification to the operations manager requesting approval to delete the duplicate files
  3.  
Processes an email response from the operations manager specifying whether the deletion was approved
  4.  
Runs the script if the deletion was approved
- What should you include in the recommendation?
- A. Azure Logic Apps and Azure Functions
  - B. Azure Pipelines and Azure Service Fabric



C. Azure Logic Apps and Azure Event Grid

D. Azure Functions and Azure Batch

Correct Answer: A

You can schedule a powershell script with Azure Logic Apps. When you want to run code that performs a specific job in your logic apps, you can create your own function by using Azure Functions. This service helps you create Node.js, C#, and F# functions so you don't have to build a complete app or infrastructure to run code. You can also call logic apps from inside Azure functions. Azure Functions provides serverless computing in the cloud and is useful for performing tasks such as these examples:

Reference: <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-azure-functions>

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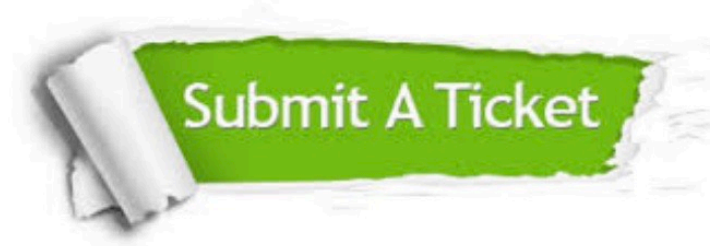
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