



AZ-305^{Q&As}

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

HOTSPOT

You have an Azure web app named App1 and an Azure key vault named KV1.

App1 stores database connection strings in KV1.

App1 performs the following types of requests to KV1:

1.

Get

2.

List

3.

Wrap

4.

Delete

5.

Unwrap

6.

Backup

7.

Decrypt

8. Encrypt

You are evaluating the continuity of service for App1.

You need to identify the following if the Azure region that hosts KV1 becomes unavailable:

1.

To where will KV1 fail over?

2.

During the failover, which request type will be unavailable?

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

NOTE: Each correct selection is worth one point.



Hot Area:

Answer Area

To where will KV1 fail over?

	▼
A server in the same Availability Set	
A server in the same fault domain	
A server in the same paired region	
A virtual machine in a scale set	

During the failover, which request type will be unavailable?

	▼
Backup	
Decrypt	
Delete	
Encrypt	
Get	
List	
Unwrap	
Wrap	

Correct Answer:



Answer Area

To where will KV1 fail over?

	▼
A server in the same Availability Set	
A server in the same fault domain	
A server in the same paired region	
A virtual machine in a scale set	

During the failover, which request type will be unavailable?

	▼
Backup	
Decrypt	
Delete	
Encrypt	
Get	
List	
Unwrap	
Wrap	

Box 1: A server in the same paired region

The contents of your key vault are replicated within the region and to a secondary region at least 150 miles away, but within the same geography to maintain high durability of your keys and secrets.

Box 2: Delete

During failover, your key vault is in read-only mode. Requests that are supported in this mode are:

List certificates

Get certificates

List secrets

Get secrets

List keys

Get (properties of) keys

Encrypt



Decrypt

Wrap

Unwrap

Verify

Sign

Backup

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/general/disaster-recovery-guidance>

QUESTION 2

Your company plans to publish APIs for its services by using Azure API Management.

You discover that service responses include the AspNet-Version header.

You need to recommend a solution to remove AspNet-Version from the response of the published APIs.

What should you include in the recommendation?

- A. a new product
- B. a modification to the URL scheme
- C. a new policy
- D. a new revision

Correct Answer: C

<https://docs.microsoft.com/en-us/azure/api-management/transform-api>

QUESTION 3

You have 12 Azure subscriptions and three projects. Each project uses resources across multiple subscriptions.

You need to use Microsoft Cost Management to monitor costs on a per project basis. The solution must minimize administrative effort.

Which two components should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. budgets
- B. resource tags



C. custom role-based access control (RBAC) roles

D. management groups

E. Azure boards

Correct Answer: BD

B: Resource tags are the only way to add your own business context to cost details and are perhaps the most flexible way to map resources to applications, business units, environments, owners, etc.

D: Management groups allow grouping subscriptions together.

Note: Cost Management is available from within the Billing experience. It's also available from every subscription, resource group, and management group in the Azure portal. The availability is to ensure everyone has full visibility into the costs they're responsible for. And, so they can optimize their workloads to maximize efficiency. Cost Management is also available independently to streamline the process for managing cost across multiple billing accounts, subscriptions, resource groups, and management groups.

Reference: <https://learn.microsoft.com/en-us/azure/cost-management-billing/cost-management-billing-overview>

QUESTION 4

HOTSPOT

You need to design a storage solution for an app that will store large amounts of frequently used data. The solution must meet the following requirements:

Maximize data throughput.

Prevent the modification of data for one year.

Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Storage account type:

	▼
BlobStorage	
BlockBlobStorage	
FileStorage	
StorageV2 with Premium performance	
StorageV2 with Standard performance	

Storage service:

	▼
Blob	
File	
Table	

Correct Answer:

Answer Area

Storage account type:

	▼
BlobStorage	
BlockBlobStorage	
FileStorage	
StorageV2 with Premium performance	
StorageV2 with Standard performance	

Storage service:

	▼
Blob	
File	
Table	

Box 1: BlockBlobStorage

Block Blob is a premium storage account type for block blobs and append blobs. Recommended for scenarios with high transactions rates, or scenarios that use smaller objects or require consistently low storage latency.



Box 2: Blob

The Archive tier is an offline tier for storing blob data that is rarely accessed. The Archive tier offers the lowest storage costs, but higher data retrieval costs and latency compared to the online tiers (Hot and Cool). Data must remain in the

Archive tier for at least 180 days or be subject to an early deletion charge.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/archive-blob>

QUESTION 5

You are developing an app that will use Azure Functions to process Azure Event Hubs events. Request processing is estimated to take between five and 20 minutes. You need to recommend a hosting solution that meets the following requirements:

1.

Supports estimates of request processing runtimes

2.

Supports event-driven autoscaling for the app Which hosting plan should you recommend?

A. Consumption

B. App Service

C. Dedicated

D. Premium

Correct Answer: B

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