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

Microsoft Azure Architect Design Exam

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**QUESTION 1**

DRAG DROP

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting applications in the company\'s on-premises data center:

1.

The sales application must be able to fail over to a second on-premises data center.

2.

The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery time objective (RTO) is 10 minutes.

3.

The reporting application must be able to recover point-in-time data at a daily granularity. The RTO is eight hours.

You need to recommend which Azure services meet the business continuity and disaster recovery objectives. The solution must minimize costs.

What should you recommend for each application? To answer, drag the appropriate services to the correct applications. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or

scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

| Actions | | Answer Area | |
|---|---|---|---|
| Azure Backup only | | Sales: | Service or Services |
| Azure Site Recovery only | | Finance: | Service or Services |
| Azure Site Recovery and Azure Backup | | Reporting: | Service or Services |

Correct Answer:

| Actions | | Answer Area | |
|---------|--|-------------|--|
| | | Sales: | Azure Site Recovery and Azure Backup |
| | ⊙ ⊘ | Finance: | Azure Backup only |
| | | Reporting: | Azure Site Recovery only |

**QUESTION 2**

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 purpose v2) |
| storage2 | RG2 | West 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: No Reference: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing

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**QUESTION 3**

You have data files in Azure Blob storage.

You plan to transform the files and move them to Azure Data Lake Storage.

You need to transform the data by using mapping data flow.

Which Azure service should you use?

A. Azure Storage Sync

B. Azure Databricks

C. Azure Data Box Gateway

D. Azure Data Factory

Correct Answer: D

You can use Copy Activity in Azure Data Factory to copy data from and to Azure Data Lake Storage Gen2, and use Data Flow to transform data in Azure Data Lake Storage Gen2.

Reference: https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-data-lake-storage

**QUESTION 4**

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

**QUESTION 5**

You are designing a storage solution that will use Azure Blob storage. The data will be stored in a cool access tier or an archive access tier based on the access patterns of the data.

You identify the following types of infrequently accessed data:

1.

Telemetry data: Deleted after two years

2.

Promotional material: Deleted after 14 days

3.

Virtual machine audit data: Deleted after 200 days

A colleague recommends using the archive access tier to store the data.

Which statement accurately describes the recommendation?

A. Storage costs will be based on a minimum of 30 days.

B. Access to the data is guaranteed within five minutes.

C. Access to the data is guaranteed within 30 minutes.

D. Storage costs will be based on a minimum of 180 days.

Correct Answer: D

The following table shows a comparison of premium performance block blob storage, and the hot, cool, and archive access tiers.

|  | Premium performance | Hot tier | Cool tier | Archive tier |
|---|---|---|---|---|
| Availability | 99.9% | 99.9% | 99% | Offline |
| Availability (RA-GRS reads) | N/A | 99.99% | 99.9% | Offline |
| Usage charges | Higher storage costs, lower access, and transaction cost | Higher storage costs, lower access, and transaction costs | Lower storage costs, higher access, and transaction costs | Lowest storage costs, highest access, and transaction costs |
| Minimum object size | N/A | N/A | N/A | N/A |
| Minimum storage duration | N/A | N/A | 30 days[1] | 180 days |
| Latency (Time to first byte) | Single-digit milliseconds | milliseconds | milliseconds | hours[2] |

Reference: https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

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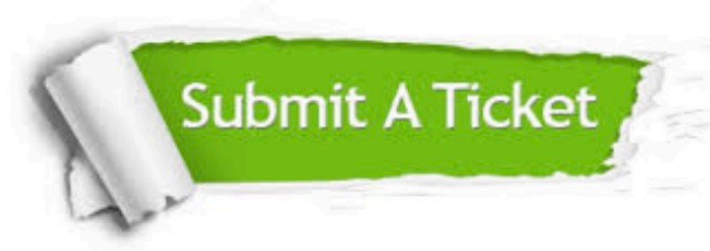
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