You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.

Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real time.

You need to recommend a service to store and query the data.

Which two services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure Table Storage
- B. Azure Event Grid
- C. Azure Cosmos DB for NoSQL
- D. Azure Time Series Insights

Correct Answer: *CD*

Community vote distribution

CD (100%)

HOTSPOT

-

You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The dataset is less than 10 GB.
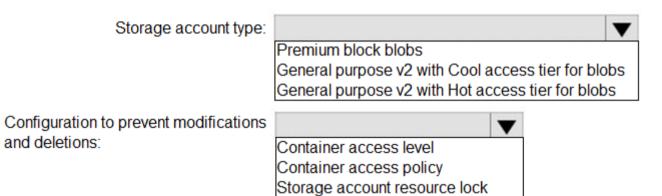
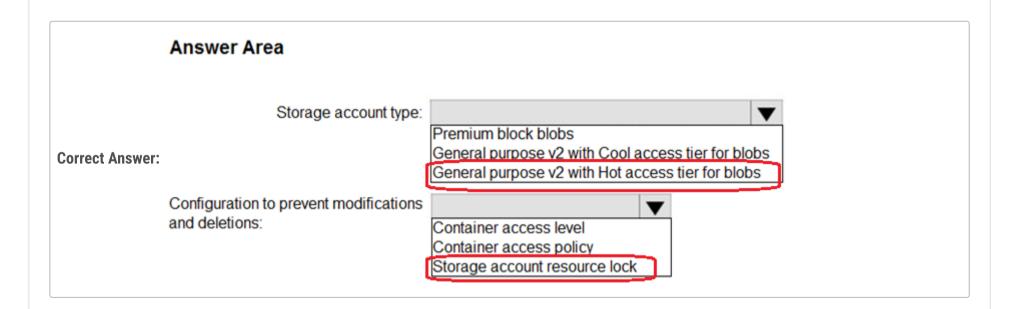You need to recommend a storage solution that meets the following requirements:

• All the data written to storage must be retained for five years.
• Once the data is written, the data can only be read. Modifications and deletion must be prevented.
• After five years, the data can be deleted, but never modified.
• Data access charges must be minimized.

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

NOTE: Each correct selection is worth one point.

Answer Area

Storage account type:
| ▼ |

Premium block blobs
General purpose v2 with Cool access tier for blobs
General purpose v2 with Hot access tier for blobs

Configuration to prevent modifications
and deletions:
| ▼ |

Container access level
Container access policy
Storage account resource lock

Answer Area

Correct Answer:

Storage account type:
| ▼ |

Premium block blobs
General purpose v2 with Cool access tier for blobs
General purpose v2 with Hot access tier for blobs

Configuration to prevent modifications
and deletions:
| ▼ |

Container access level
Container access policy
Storage account resource lock

HOTSPOT

-

You are designing a data analytics solution that will use Azure Synapse and Azure Data Lake Storage Gen2.

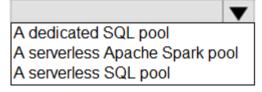You need to recommend Azure Synapse pools to meet the following requirements:

• Ingest data from Data Lake Storage into hash-distributed tables.
• Implement query, and update data in Delta Lake.

What should you recommend for each requirement? To answer, select the appropriate options in the answer area.
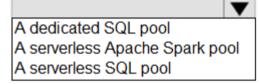
NOTE: Each correct selection is worth one point.

Answer Area

Ingest data from Data Lake Storage
into hash-distributed tables:

> A dedicated SQL pool
> A serverless Apache Spark pool
> A serverless SQL pool

Implement, query, and update data
in Delta Lake:

> A dedicated SQL pool
> A serverless Apache Spark pool
> A serverless SQL pool

Answer Area

Correct Answer:

Ingest data from Data Lake Storage
into hash-distributed tables:

> A dedicated SQL pool
> A serverless Apache Spark pool
> A serverless SQL pool

Implement, query, and update data
in Delta Lake:

> A dedicated SQL pool
> A serverless Apache Spark pool
> A serverless SQL pool

You have an on-premises storage solution.

You need to migrate the solution to Azure. The solution must support Hadoop Distributed File System (HDFS).
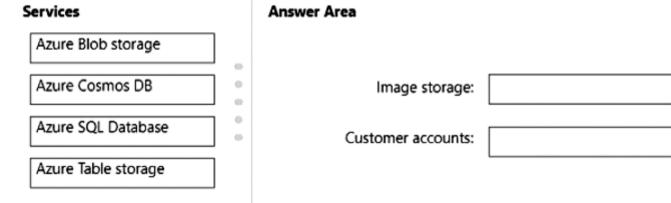
What should you use?

    A. Azure Data Lake Storage Gen2

    B. Azure NetApp Files

    C. Azure Data Share

    D. Azure Table storage

Correct Answer: *A*

Community vote distribution

A (100%)

DRAG DROP

-

You have an on-premises app named App1.

Customers use App1 to manage digital images.

You plan to migrate App1 to Azure.

You need to recommend a data storage solution for App1. The solution must meet the following image storage requirements:

• Encrypt images at rest.
• Allow files up to 50 MB.
• Manage access to the images by using Azure Web Application Firewall (WAF) on Azure Front Door.

The solution must meet the following customer account requirements:

• Support automatic scale out of the storage.
• Maintain the availability of App1 if a datacenter fails.
• Support reading and writing data from multiple Azure regions.

Which service should you include in the recommendation for each type of data? To answer, drag the appropriate services to the correct type of data. 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 answer is worth one point.

Services

- Azure Blob storage
- Azure Cosmos DB
- Azure SQL Database
- Azure Table storage

Answer Area

Image storage: _____

Customer accounts: _____

Answer Area

Correct Answer:

Image storage: Azure Blob storage

Customer accounts: Azure Cosmos DB

You are designing an application that will aggregate content for users.

You need to recommend a database solution for the application. The solution must meet the following requirements:

• Support SQL commands.
• Support multi-master writes.
• Guarantee low latency read operations.

What should you include in the recommendation?

    A. Azure Cosmos DB for NoSQL

    B. Azure SQL Database that uses active geo-replication

    C. Azure SQL Database Hyperscale

    D. Azure Cosmos DB for PostgreSQL

Correct Answer: *A*

Community vote distribution

A (100%)

You plan to migrate on-premises MySQL databases to Azure Database for MySQL Flexible Server.

You need to recommend a solution for the Azure Database for MySQL Flexible Server configuration. The solution must meet the following requirements:

• The databases must be accessible if a datacenter fails.
• Costs must be minimized.

Which compute tier should you recommend?

    A. Burstable

    B. General Purpose

    C. Memory Optimized

Correct Answer: *A*

Community vote distribution

B (90%)   10%

You are designing an app that will use Azure Cosmos DB to collate sales from multiple countries.

You need to recommend an API for the app. The solution must meet the following requirements:

• Support SQL queries.
• Support geo-replication.
• Store and access data relationally.

Which API should you recommend?

    A. Apache Cassandra

    B. PostgreSQL

    C. MongoDB

    D. NoSQL

Correct Answer: *B*

Community vote distribution

B (100%)

HOTSPOT

-

You have an app that generates 50,000 events daily.

You plan to stream the events to an Azure event hub and use Event Hubs Capture to implement cold path processing of the events. The output of Event Hubs Capture will be consumed by a reporting system.

You need to identify which type of Azure storage must be provisioned to support Event Hubs Capture, and which inbound data format the reporting system must support.

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

NOTE: Each correct selection is worth one point.

Answer Area

Storage type:
- Azure Data Lake Storage Gen2
- Premium block blobs
- Premium file shares

Data format:
- Apache Parquet
- Avro
- JSON

Correct Answer:

Answer Area

Storage type:
- **Azure Data Lake Storage Gen2**
- Premium block blobs
- Premium file shares

Data format:
- Apache Parquet
- **Avro**
- JSON

You have the resources shown in the following table.

Name	Type
AS1	Azure Synapse Analytics instance
CDB1	Azure Cosmos DB for NoSQL account

CDB1 hosts a container that stores continuously updated operational data.

You are designing a solution that will use AS1 to analyze the operational data daily.

You need to recommend a solution to analyze the data without affecting the performance of the operational data store.

What should you include in the recommendation?

- A. Azure Data Factory with Azure Cosmos DB and Azure Synapse Analytics connectors
- B. Azure Synapse Analytics with PolyBase data loading
- C. Azure Synapse Link for Azure Cosmos DB
- D. Azure Cosmos DB change feed

Correct Answer: *C*

Community vote distribution

C (100%)

HOTSPOT

-

You have an Azure subscription. The subscription contains an Azure SQL managed instance that stores employee details, including social security numbers and phone numbers.

You need to configure the managed instance to meet the following requirements:

• The helpdesk team must see only the last four digits of an employee's phone number.
• Cloud administrators must be prevented from seeing the employee's social security numbers.

What should you enable for each column in the managed instance? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Phone numbers:
- Always Encrypted
- Column encryption
- Dynamic data masking
- Transparent Data Encryption (TDE)

Social security numbers:
- Always Encrypted
- Column encryption
- Dynamic data masking
- Transparent Data Encryption (TDE)

Answer Area

Correct Answer:

Phone numbers:
- Always Encrypted
- Column encryption
- **Dynamic data masking**
- Transparent Data Encryption (TDE)

Social security numbers:
- **Always Encrypted**
- Column encryption
- Dynamic data masking
- Transparent Data Encryption (TDE)