



DP-200^{Q&As}

Implementing an Azure Data Solution

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QUESTION 1

HOTSPOT

You have two Azure Storage accounts named Storage1 and Storage2. Each account contains an Azure Data Lake Storage file system. The system has files that contain data stored in the Apache Parquet format.

You need to copy folders and files from Storage1 to Storage2 by using a Data Factory copy activity. The solution must meet the following requirements:

No transformations must be performed.

The original folder structure must be retained.

How should you configure the copy activity? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Source dataset type:

	▼
Binary	
Parquet	
Delimited text	

Copy activity copy behavior:

	▼
FlattenHierarchy	
MergeFiles	
PreserveHierarchy	

Correct Answer:



Answer Area

Source dataset type:

	▼
Binary	
Parquet	
Delimited text	

Copy activity copy behavior:

	▼
FlattenHierarchy	
MergeFiles	
PreserveHierarchy	

Box 1: Parquet

For Parquet datasets, the type property of the copy activity source must be set to ParquetSource..

Box 2: PreserveHierarchy

PreserveHierarchy (default): Preserves the file hierarchy in the target folder. The relative path of the source file to the source folder is identical to the relative path of the target file to the target folder.

Incorrect Answers:

FlattenHierarchy: All files from the source folder are in the first level of the target folder. The target files have autogenerated names.

MergeFiles: Merges all files from the source folder to one file. If the file name is specified, the merged file name is the specified name. Otherwise, it's an autogenerated file name.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/format-parquet>

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

QUESTION 2

SIMULATION Use the following login credentials as needed: Azure Username: xxxxx

Azure Password: xxxxx The following information is for technical support purposes only: Lab Instance: 10543936



You need to ensure that users in the West US region can read data from a local copy of an Azure Cosmos DB database named cosmos10543936.

To complete this task, sign in to the Azure portal.

NOTE: This task might take several minutes to complete. You can perform other tasks while the task completes or end this section of the exam.

Correct Answer: See the below.

You can enable Availability Zones by using Azure portal when creating an Azure Cosmos account. You can enable Availability Zones by using Azure portal.

Step 1: enable the Geo-redundancy, Multi-region Writes

1.

In Azure Portal search for and select Azure Cosmos DB.



2.

Locate the Cosmos DB database named cosmos10543936

3.

Access the properties for cosmos10543936

4.

enable the Geo-redundancy, Multi-region Writes. Location: West US region

Instance Details

- * Account Name: myaccount1 ✓
- * API: Core (SQL) ▾
Apache Spark: Enable Disable
You're on the waitlist for Azure Cosmos with support for Apache Spark preview
- * Location: (Asia Pacific) Southeast Asia ▾

Geo-Redundancy Enable Disable

Multi-region Writes Enable Disable

Availability Zones Enable Disable

Step 2: Add region from your database account

1.

In to Azure portal, go to your Azure Cosmos account, and open the Replicate data globally menu.

2.

To add regions, select the hexagons on the map with the + label that corresponds to your desired region(s). Alternatively, to add a region, select the + Add region option and choose a region from the drop-down menu. Add: West US region


3.

To save your changes, select OK.



Save Discard Manual Failover Automatic Failover

Click on a location to add or remove regions from your Azure Cosmos DB account.
* Each region is billable based on the throughput and storage for the account. [Learn more](#)



Configure regions

Configure the regions available for reads and writes.

WRITE REGION

West US

READ REGIONS

East US

Southeast Asia

North Europe

Central India

Japan West

Brazil South

UK West

East US 2

Search for a region

OK Cancel

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability> <https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-manage-database-account>

QUESTION 3

SIMULATION Use the following login credentials as needed: Azure Username: xxxxx

Azure Password: xxxxx The following information is for technical support purposes only: Lab Instance: 10543936



You need to ensure that you can recover any blob data from an Azure Storage account named storage10543936 up to 10 days after the data is deleted.

To complete this task, sign in to the Azure portal.

Correct Answer: See the below.

Enable soft delete for blobs on your storage account by using Azure portal:

1.
In the Azure portal, select your storage account.
2.
Navigate to the Data Protection option under Blob Service.
- 3.



Click Enabled under Blob soft delete

4.

Enter the number of days you want to retain for under Retention policies. Here enter 10.

5.

Choose the Save button to confirm your Data Protection settings



Note: Azure Storage now offers soft delete for blob objects so that you can more easily recover your data when it is erroneously modified or deleted by an application or other storage account user. Currently you can retain soft deleted data for between 1 and 365 days.

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

QUESTION 4

DRAG DROP

You need to implement the encryption for SALESDB.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Actions

Create a secret.

Create a custom dynamic data masking rule.

Implement an Azure key vault.

From the server settings of the Azure SQL server, configure the Transparent data encryption settings.

From the settings of the Azure SQL database that will replace SALESDB, configure the Transparent data encryption settings.

Implement a certification authority (CA).

Create a key.

Answer Area



Correct Answer:

Actions

Create a secret.

Create a custom dynamic data masking rule.

From the server settings of the Azure SQL server, configure the Transparent data encryption settings.

Implement a certification authority (CA).

Answer Area

Implement an Azure key vault.

Create a key.

From the settings of the Azure SQL database that will replace SALESDB, configure the Transparent data encryption settings.

Data in SALESDB must be encrypted by using Transparent Data Encryption (TDE). The encryption must use your own key.

Step 1: Implement an Azure key vault

You must create an Azure Key Vault and Key to use for TDE

Step 2: Create a key

Step 3: From the settings of the Azure SQL database ...



You turn transparent data encryption on and off on the database level.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/transparent-data-encryption-byok-azure-sql-configure>

QUESTION 5

You configure monitoring for a Microsoft Azure SQL Data Warehouse implementation. The implementation uses PolyBase to load data from comma-separated value (CSV) files stored in Azure Data Lake Gen 2 using an external table.

Files with an invalid schema cause errors to occur.

You need to monitor for an invalid schema error.

For which error should you monitor?

- A. EXTERNAL TABLE access failed due to internal error: \\Java exception raised on call to HdfsBridge_Connect: Error [com.microsoft.polybase.client.KerberosSecureLogin] occurred while accessing external file.\\
- B. EXTERNAL TABLE access failed due to internal error: \\Java exception raised on call to HdfsBridge_Connect: Error [No FileSystem for scheme: wasbs] occurred while accessing external file.\\
- C. Cannot execute the query "Remote Query" against OLE DB provider "SQLNCLI11": for linked server "(null)", Query aborted- the maximum reject threshold (0 rows) was reached while reading from an external source: 1 rows rejected out of total 1 rows processed.
- D. EXTERNAL TABLE access failed due to internal error: \\Java exception raised on call to HdfsBridge_Connect: Error [Unable to instantiate LoginClass] occurred while accessing external file.\\

Correct Answer: C

Customer Scenario:

SQL Server 2016 or SQL DW connected to Azure blob storage. The CREATE EXTERNAL TABLE DDL points to a directory (and not a specific file) and the directory contains files with different schemas.

SSMS Error:

Select query on the external table gives the following error:

Msg 7320, Level 16, State 110, Line 14

Cannot execute the query "Remote Query" against OLE DB provider "SQLNCLI11" for linked server "(null)". Query aborted-- the maximum reject threshold (0 rows) was reached while reading from an external source: 1 rows rejected out of

total 1 rows processed.

Possible Reason:

The reason this error happens is because each file has different schema. The PolyBase external table DDL when pointed to a directory recursively reads all the files in that directory. When a column or data type mismatch happens, this error



could be seen in SSMS.

Possible Solution:

If the data for each table consists of one file, then use the filename in the LOCATION section prepended by the directory of the external files. If there are multiple files per table, put each set of files into different directories in Azure Blob

Storage and then you can point LOCATION to the directory instead of a particular file. The latter suggestion is the best practices recommended by SQLCAT even if you have one file per table.

Incorrect Answers:

A: Possible Reason: Kerberos is not enabled in Hadoop Cluster.

References: <https://techcommunity.microsoft.com/t5/DataCAT/PolyBase-Setup-Errors-and-Possible-Solutions/ba-p/305297>

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