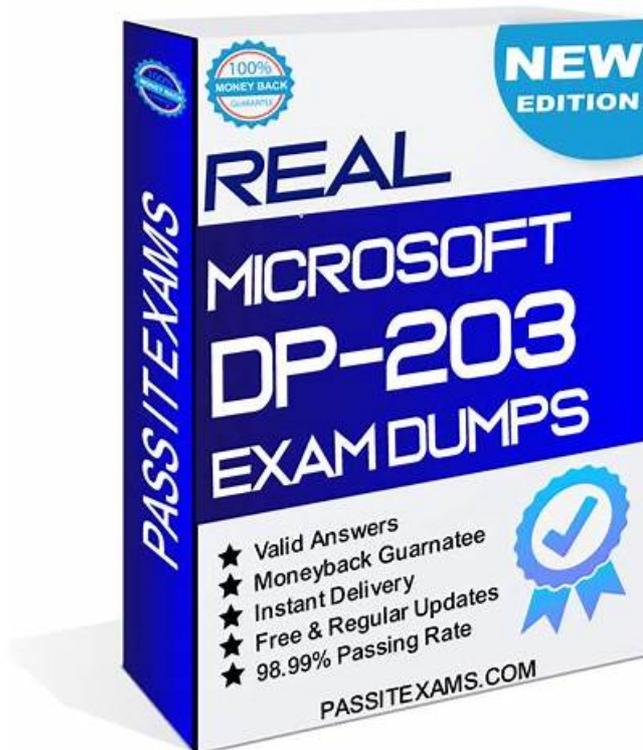


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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q323-Q328):

NEW QUESTION # 323

You use Azure Data Factory to prepare data to be queried by Azure Synapse Analytics serverless SQL pools.

Files are initially ingested into an Azure Data Lake Storage Gen2 account as 10 small JSON files. Each file contains the same data attributes and data from a subsidiary of your company.

You need to move the files to a different folder and transform the data to meet the following requirements:

* Provide the fastest possible query times.

* Automatically infer the schema from the underlying files.

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

NOTE: Each correct selection is worth one point.

Copy behavior:

- Flatten hierarchy
- Merge files
- Preserve hierarchy

Sink file type:

- CSV
- JSON
- Parquet
- TXT

Answer:

Explanation:

Copy behavior:

- Flatten hierarchy
- Merge files
- Preserve hierarchy

Sink file type:

- CSV
- JSON
- Parquet
- TXT

Explanation:

Copy behavior:

- Flatten hierarchy
- Merge files
- Preserve hierarchy

Sink file type:

- CSV
- JSON
- Parquet
- TXT

Box 1: Preserve hierarchy

Compared to the flat namespace on Blob storage, the hierarchical namespace greatly improves the performance of directory management operations, which improves overall job performance.

Box 2: Parquet

Azure Data Factory parquet format is supported for Azure Data Lake Storage Gen2.

Parquet supports the schema property.

Reference:

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

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

NEW QUESTION # 324

You are designing an application that will use an Azure Data Lake Storage Gen 2 account to store petabytes of license plate photos

from toll booths. The account will use zone-redundant storage (ZRS).

You identify the following usage patterns:

* The data will be accessed several times a day during the first 30 days after the data is created. The data must meet an availability SU of 99.9%.

* After 90 days, the data will be accessed infrequently but must be available within 30 seconds.

* After 365 days, the data will be accessed infrequently but must be available within five minutes.

The image shows a screenshot of a Microsoft storage configuration interface. On the left, the Microsoft logo is visible. The interface is divided into three sections, each with a label and a dropdown menu:

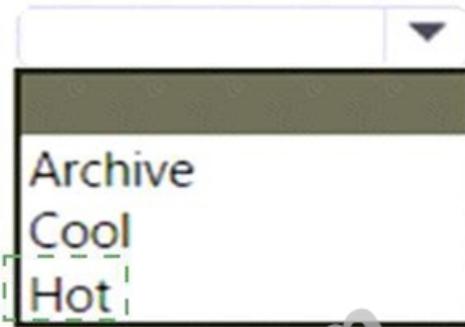
- First 30 days:** The dropdown menu is open, showing three options: Archive, Cool, and Hot.
- After 90 days:** The dropdown menu is open, showing three options: Archive, Cool, and Hot.
- After 365 days:** The dropdown menu is open, showing three options: Archive, Cool, and Hot.

A large watermark "examslabs.com" is overlaid diagonally across the center of the screenshot.

Answer:

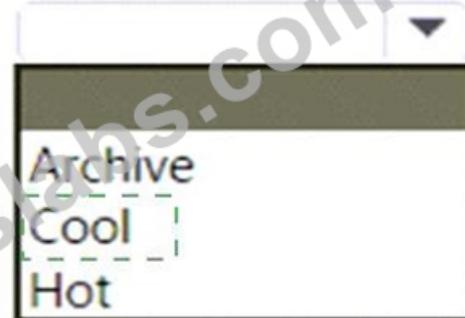
Explanation:

First 30 days:



Archive
Cool
Hot

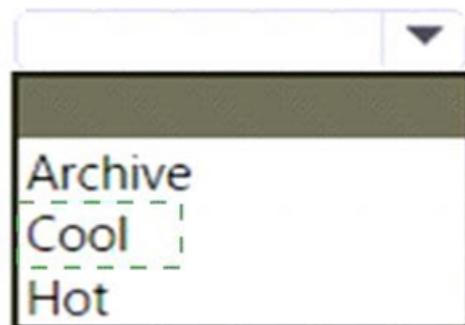
After 90 days:



Archive
Cool
Hot



After 365 days:



Archive
Cool
Hot

Explanation

Box 1: Hot

The data will be accessed several times a day during the first 30 days after the data is created. The data must meet an availability SLA of 99.9%.

Box 2: Cool

After 90 days, the data will be accessed infrequently but must be available within 30 seconds.

Data in the Cool tier should be stored for a minimum of 30 days.

When your data is stored in an online access tier (either Hot or Cool), users can access it immediately. The Hot tier is the best choice for data that is in active use, while the Cool tier is ideal for data that is accessed less frequently, but that still must be available for reading and writing.

Box 3: Cool

After 365 days, the data will be accessed infrequently but must be available within five minutes.

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/access-tiers-overview>

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

NEW QUESTION # 325

A company uses the Azure Data Lake Storage Gen2 service.

You need to design a data archiving solution that meets the following requirements:

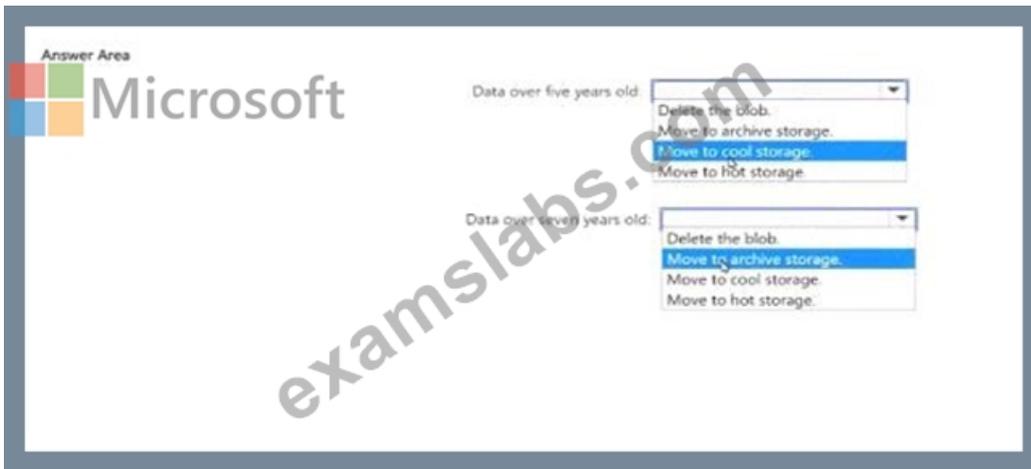
Data that is older than five years is accessed infrequently but must be available within one second when requested.

Data that is older than seven years is NOT accessed.

Costs must be minimized while maintaining the required availability.

How should you manage the data? To answer, select the appropriate option in the answers area.

NOTE: Each correct selection is worth one point.



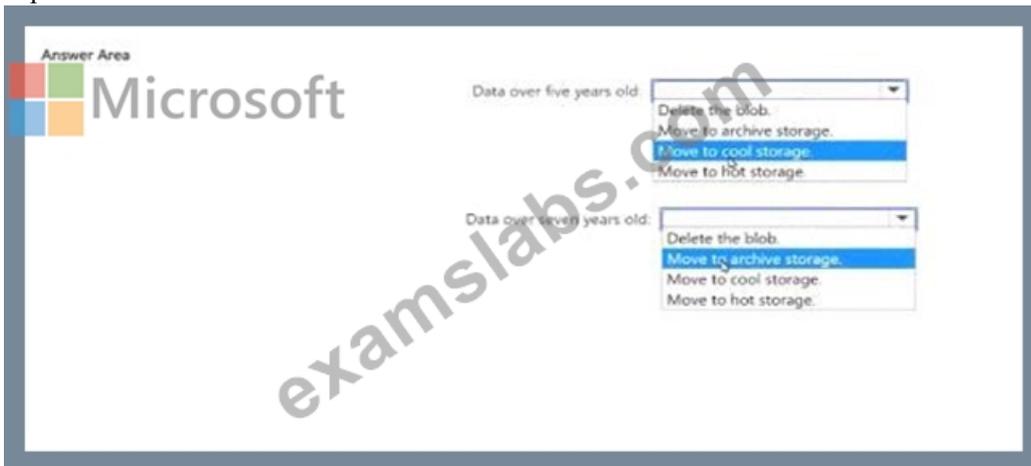
Answer:

Explanation:

Answer Area



Explanation:



NEW QUESTION # 326

You have an Azure Synapse Analytics SQL pool named Pool1 on a logical Microsoft SQL server named Server1.

You need to implement Transparent Data Encryption (TDE) on Pool1 by using a custom key named key1.

Which five 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.

Actions

Answer Area

- Enable TDE on Pool1.
- Assign a managed identity to Server1.
- Configure key1 as the TDE protector for Server1.
- Add key1 to the Azure key vault.
- Create an Azure key vault and grant the managed identity permissions to the key vault.



Answer:

Explanation:

Actions

Answer Area

- Enable TDE on Pool1.
- Assign a managed identity to Server1.
- Configure key1 as the TDE protector for Server1.
- Add key1 to the Azure key vault.
- Create an Azure key vault and grant the managed identity permissions to the key vault.

- Assign a managed identity to Server1.
- Create an Azure key vault and grant the managed identity permissions to the key vault.
- Add key1 to the Azure key vault.
- Configure key1 as the TDE protector for Server1.
- Enable TDE on Pool1.



Explanation

Graphical user interface, text, application Description automatically generated

- Assign a managed identity to Server1.
- Create an Azure key vault and grant the managed identity permissions to the key vault.
- Add key1 to the Azure key vault.
- Configure key1 as the TDE protector for Server1.
- Enable TDE on Pool1.

Step 1: Assign a managed identity to Server1

You will need an existing Managed Instance as a prerequisite.

Step 2: Create an Azure key vault and grant the managed identity permissions to the vault Create Resource and setup Azure Key Vault.

Step 3: Add key1 to the Azure key vault

The recommended way is to import an existing key from a .pfx file or get an existing key from the vault.

Alternatively, generate a new key directly in Azure Key Vault.

Step 4: Configure key1 as the TDE protector for Server1

Provide TDE Protector key

Step 5: Enable TDE on Pool1

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/scripts/transparent-data-encryption-byok-pow>

NEW QUESTION # 327

You have an Azure subscription that contains an Azure Data Lake Storage Gen2 account named storage1. Storage1 contains a container named container1. Container1 contains a directory named directory1. Directory1 contains a file named file1. You have an Azure Active Directory (Azure AD) user named User1 that is assigned the Storage Blob Data Reader role for storage1.

You need to ensure that User1 can append data to file1. The solution must use the principle of least privilege.

Which permissions should you grant? To answer, drag the appropriate permissions to the correct resources. Each permission 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.

Permissions

- Read
- Write
- Execute

Answer Area

- container1: Permission
- directory1: Permission
- file1: Permission

Answer:

Explanation:

Permissions

- Read
- Write
- Execute

Answer Area

- container1: Execute sion
- directory1: Execute sion
- file1: Write mission

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-access-control>

NEW QUESTION # 328

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