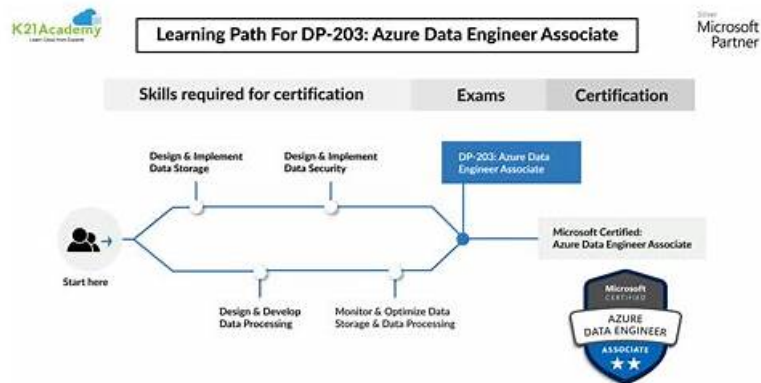


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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q289-Q294):

NEW QUESTION # 289

You have an Azure subscription linked to an Azure Active Directory (Azure AD) tenant that contains a service principal named ServicePrincipal1. The subscription contains an Azure Data Lake Storage account named adls1. Adls1 contains a folder named Folder2 that has a URI of <https://adls1.dfs.core.windows.net/container1/Folder1/Folder2/>. ServicePrincipal1 has the access control list (ACL) permissions shown in the following table.

Resource	Permission
container1	Access – Execute
Folder1	Access – Execute
Folder2	Access – Read

You need to ensure that ServicePrincipal1 can perform the following actions:

Traverse child items that are created in Folder2.

Read files that are created in Folder2.

The solution must use the principle of least privilege.

Which two permissions should you grant to ServicePrincipal1 for Folder2? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Access - Write
- B. Access - Execute
- C. Access - Read
- D. Default - Write
- E. Default - Execute
- F. Default-Read

Answer: E,F

Explanation:

Execute (X) permission is required to traverse the child items of a folder.

There are two kinds of access control lists (ACLs), Access ACLs and Default ACLs.

Access ACLs: These control access to an object. Files and folders both have Access ACLs.

Default ACLs: A "template" of ACLs associated with a folder that determine the Access ACLs for any child items that are created under that folder. Files do not have Default ACLs.

Reference:

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

NEW QUESTION # 290

You have an Azure Storage account that generates 200,000 new files daily. The file names have a format of {YYYY}/{MM}/{DD}/{HH}/{CustomerID}.csv.

You need to design an Azure Data Factory solution that will load new data from the storage account to an Azure Data Lake once hourly. The solution must minimize load times and costs.

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

NOTE: Each correct selection is worth one point.

Load methodology:

Full Load

Incremental Load

Load individual files as they arrive

Trigger:

Fixed schedule

New file

Tumbling window

Answer:

Explanation:

Load methodology:


	Microsoft	▼
Full Load		
Incremental Load		
Load individual files as they arrive		

Trigger:

	▼
Fixed schedule	
New file	
Tumbling window	

Explanation

Table Description automatically generated

Load methodology:		Microsoft	▼
	Full Load		
	Incremental Load		
	Load individual files as they arrive		
Trigger:		▼	
	Fixed schedule		
	New file		
	Tumbling window		

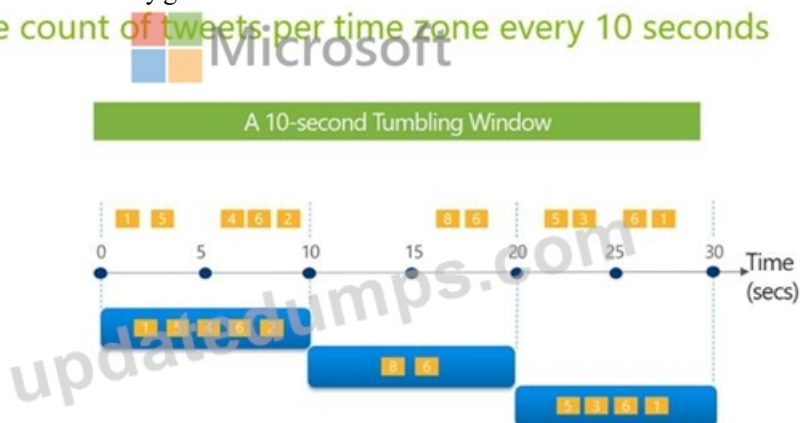
Box 1: Incremental load

Box 2: Tumbling window

Tumbling windows are a series of fixed-sized, non-overlapping and contiguous time intervals. The following diagram illustrates a stream with a series of events and how they are mapped into 10-second tumbling windows.

Timeline Description automatically generated

Tell me the count of tweets per time zone every 10 seconds



```
SELECT TimeZone, COUNT(*) AS Count
FROM TwitterStream TIMESTAMP BY CreatedAt
GROUP BY TimeZone, TumblingWindow(second,10)
```

Reference:

<https://docs.microsoft.com/en-us/stream-analytics-query/tumbling-window-azure-stream-analytics>

NEW QUESTION # 291

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
- directory1: Execute
- file1: Write

Explanation:

Box 1: Execute

If you are granting permissions by using only ACLs (no Azure RBAC), then to grant a security principal read or write access to a file, you'll need to give the security principal Execute permissions to the root folder of the container, and to each folder in the hierarchy of folders that lead to the file.

Box 2: Execute

On Directory: Execute (X): Required to traverse the child items of a directory Box 3: Write On file: Write (W): Can write or append to a file.

Reference:

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

NEW QUESTION # 292

You have two Azure Storage accounts named Storage1 and Storage2. Each account holds one container and has the hierarchical namespace enabled. 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.
- Minimize time required to perform the copy activity.

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.

Source dataset type:

- Binary
- Parquet
- Delimited text

Copy activity copy behavior:

- FlattenHierarchy
- MergeFiles
- PreserveHierarchy

Answer:

Explanation:

Source dataset type:

- Binary
- Parquet
- Delimited text

Copy activity copy behavior:

- FlattenHierarchy
- MergeFiles
- PreserveHierarchy

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>

NEW QUESTION # 293

You plan to develop a dataset named Purchases by using Azure databricks Purchases will contain the following columns:

- * ProductID
- * ItemPrice
- * lineTotal
- * Quantity
- * StoreID
- * Minute
- * Month
- * Hour
- * Year
- * Day

You need to store the data to support hourly incremental load pipelines that will vary for each StoreID. the solution must minimize storage costs. How should you complete the rode? To answer, select the appropriate options In the answer area.

NOTE: Each correct selection is worth one point.

df.write			
.bucketBy		{ "*" }	
.partitionBy		("StoreID", "Hour")	
.range		("StoreID", "Year", "Month", "Day", "Hour")	
.sortBy			
.mode("append")			
.csv("/Purchases")			
.json("/Purchases")			
.parquet("/Purchases")			
.saveAsTable("/Purchases")			

Answer:

Explanation:

df.write			
.bucketBy		{ "*" }	
.partitionBy		("StoreID", "Hour")	
.range		("StoreID", "Year", "Month", "Day", "Hour")	
.sortBy			
.mode("append")			
.csv("/Purchases")			
.json("/Purchases")			
.parquet("/Purchases")			
.saveAsTable("/Purchases")			

Explanation:

Answer Area	
partitionBy	("StoreID", "Year", "Month", "Day", "Hour")
mode	("append")
parquet	("/Purchases")

Box 1: partitionBy

We should overwrite at the partition level.

Example:

```
df.write.partitionBy("y", "m", "d")
```

```
mode(SaveMode.Append)
```

```
parquet("/data/hive/warehouse/db_name.db/" + tableName)
```

Box 2: ("StoreID", "Year", "Month", "Day", "Hour", "StoreID")

Box 3: parquet("/Purchases")

Reference:

<https://intellipaat.com/community/11744/how-to-partition-and-write-dataframe-in-spark-without-deleting-partition>

NEW QUESTION # 294

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