



DP-200^{Q&As}

Implementing an Azure Data Solution

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QUESTION 1

You have a container named Sales in an Azure Cosmos DB database. Sales has 120 GB of data. Each entry in Sales has the following structure.

```
{  
  orderId: number,  
  OrderDetailId: number,  
  ProductName: string,  
  other information that might vary...  
}
```

The partition key is set to the OrderId attribute.

Users report that when they perform queries that retrieve data by ProductName, the queries take longer than expected to complete.

You need to reduce the amount of time it takes to execute the problematic queries.

Solution: You create a lookup collection that uses ProductName as a partition key. Does this meet the goal?

A. Yes

B. No

Correct Answer: B

One option is to have a lookup collection "ProductName" for the mapping of "ProductName" to "OrderId".

References: <https://azure.microsoft.com/sv-se/blog/azure-cosmos-db-partitioning-design-patterns-part-1/>

QUESTION 2

Which database and authorization types are used? To answer, select the appropriate option in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Component **Technology**

Azure database type

Azure Cosmos DB	v
Azure SQL Database	
files	
Blob	

Key type

resource token	v
Master key	
certificate	

Correct Answer:

Answer Area

Component **Technology**

Azure database type

Azure Cosmos DB	v
Azure SQL Database	
files	
Blob	

Key type

resource token	v
Master key	
certificate	

Box 1: Azure Cosmos DB

The DocumentClient.CreateDatabaseAsync(Database, RequestOptions) method creates a database resource as an asynchronous operation in the Azure Cosmos DB service.



Box 2: Master Key

Azure Cosmos DB uses two types of keys to authenticate users and provide access to its data and resources: Master Key, Resource Tokens

Master keys provide access to the all the administrative resources for the database account. Master keys:

1.

Provide access to accounts, databases, users, and permissions.

2.

Cannot be used to provide granular access to containers and documents.

3.

Are created during the creation of an account.

4.

Can be regenerated at any time.

Incorrect Answers:

Resource Token: Resource tokens provide access to the application resources within a database.

References: <https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.documents.client.documentclient.createdatabaseasync> <https://docs.microsoft.com/en-us/azure/cosmos-db/secure-access-to-data>

QUESTION 3

You have an Azure Storage account that contains 100 GB of files. The files contain text and numerical values. 75% of the rows contain description data that has an average length of 1.1 MB.

You plan to copy the data from the storage account to an Azure SQL data warehouse.

You need to prepare the files to ensure that the data copies quickly.

Solution: You modify the files to ensure that each row is more than 1 MB.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead modify the files to ensure that each row is less than 1 MB.

References:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/guidance-for-loading-data>



QUESTION 4

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 all REST API calls to an Azure Storage account named storage10543936 use HTTPS only.

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

Correct Answer: See the below.

You can configure your storage account to accept requests from secure connections only by setting the Secure transfer



required property for the storage account. Require secure transfer for an existing storage account

1.

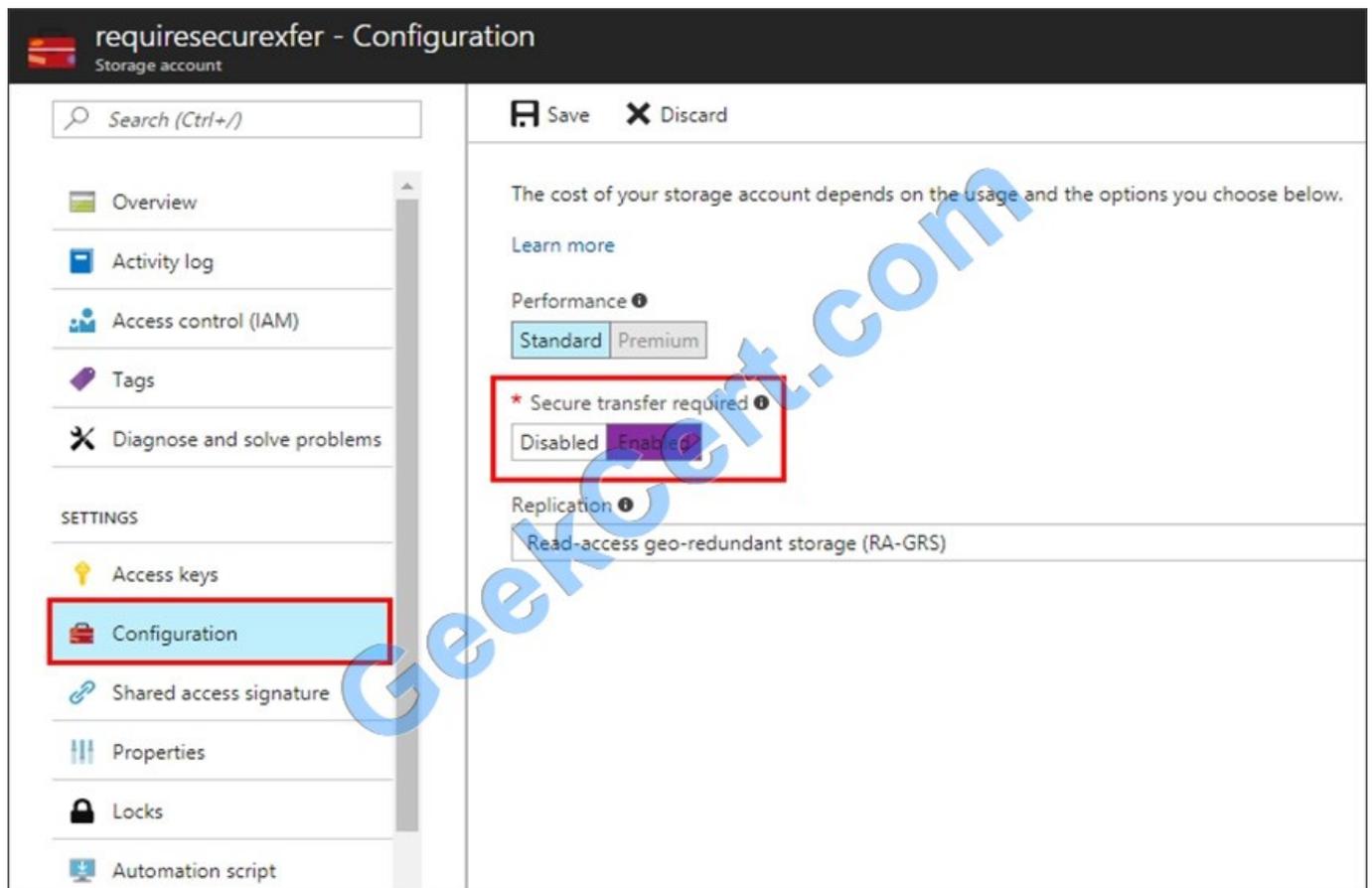
Select the existing storage account storage10543936 in the Azure portal.

2.

In the storage account menu pane, under SETTINGS, select Configuration.

3.

Under Secure transfer required, select Enabled.



Reference: <https://docs.microsoft.com/en-us/azure/storage/common/storage-require-secure-transfer>

QUESTION 5

You manage an enterprise data warehouse in Azure Synapse Analytics.

Users report slow performance when they run commonly used queries. Users do not report performance changes for infrequently used queries.

You need to monitor resource utilization to determine the source of the performance issues.

Which metric should you monitor?



- A. Cache used percentage
- B. Local tempdb percentage
- C. DWU percentage
- D. CPU percentage
- E. Data IO percentage

Correct Answer: A

The Azure Synapse Analytics storage architecture automatically tiers your most frequently queried columnstore segments in a cache residing on NVMe based SSDs designed for Gen2 data warehouses. Greater performance is realized when your queries retrieve segments that are residing in the cache. You can monitor and troubleshoot slow query performance by determining whether your workload is optimally leveraging the Gen2 cache.

Note: As of November 2019, Azure SQL Data Warehouse is now Azure Synapse Analytics References:
<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-how-to-monitor-cache>

<https://docs.microsoft.com/bs-latn-ba/azure/sql-data-warehouse/sql-data-warehouse-concept-resource-utilization-query-activity>

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