



# DP-200<sup>Q&As</sup>

Implementing an Azure Data Solution

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### QUESTION 1

You have an Azure data solution that contains an Azure SQL data warehouse named DW1.

Several users execute adhoc queries to DW1 concurrently.

You regularly perform automated data loads to DW1.

You need to ensure that the automated data loads have enough memory available to complete quickly and successfully when the adhoc queries run

What should you do?

- A. Hash distribute the large fact tables in DW1 before performing the automated data loads.
- B. Assign a larger resource class to the automated data load queries.
- C. Create sampled statistics for every column in each table of DW1.
- D. Assign a smaller resource class to the automated data load queries.

Correct Answer: B

To ensure the loading user has enough memory to achieve maximum compression rates, use loading users that are a member of a medium or large resource class.

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

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### QUESTION 2

You have an Azure Databricks resource.

You need to log actions that relate to compute changes triggered by the Databricks resources.

Which Databricks services should you log?

- A. workspace
- B. SSH
- C. DBFS
- D. clusters
- E. jobs

Correct Answer: D

An Azure Databricks cluster is a set of computation resources and configurations on which you run data engineering, data science, and data analytics workloads. Incorrect Answers:

A: An Azure Databricks workspace is an environment for accessing all of your Azure Databricks assets. The workspace organizes objects (notebooks, libraries, and experiments) into folders, and provides access to data and computational



resources such as clusters and jobs.

B: SSH allows you to log into Apache Spark clusters remotely.

C: Databricks File System (DBFS) is a distributed file system mounted into an Azure Databricks workspace and available on Azure Databricks clusters.

E: A job is a way of running a notebook or JAR either immediately or on a scheduled basis.

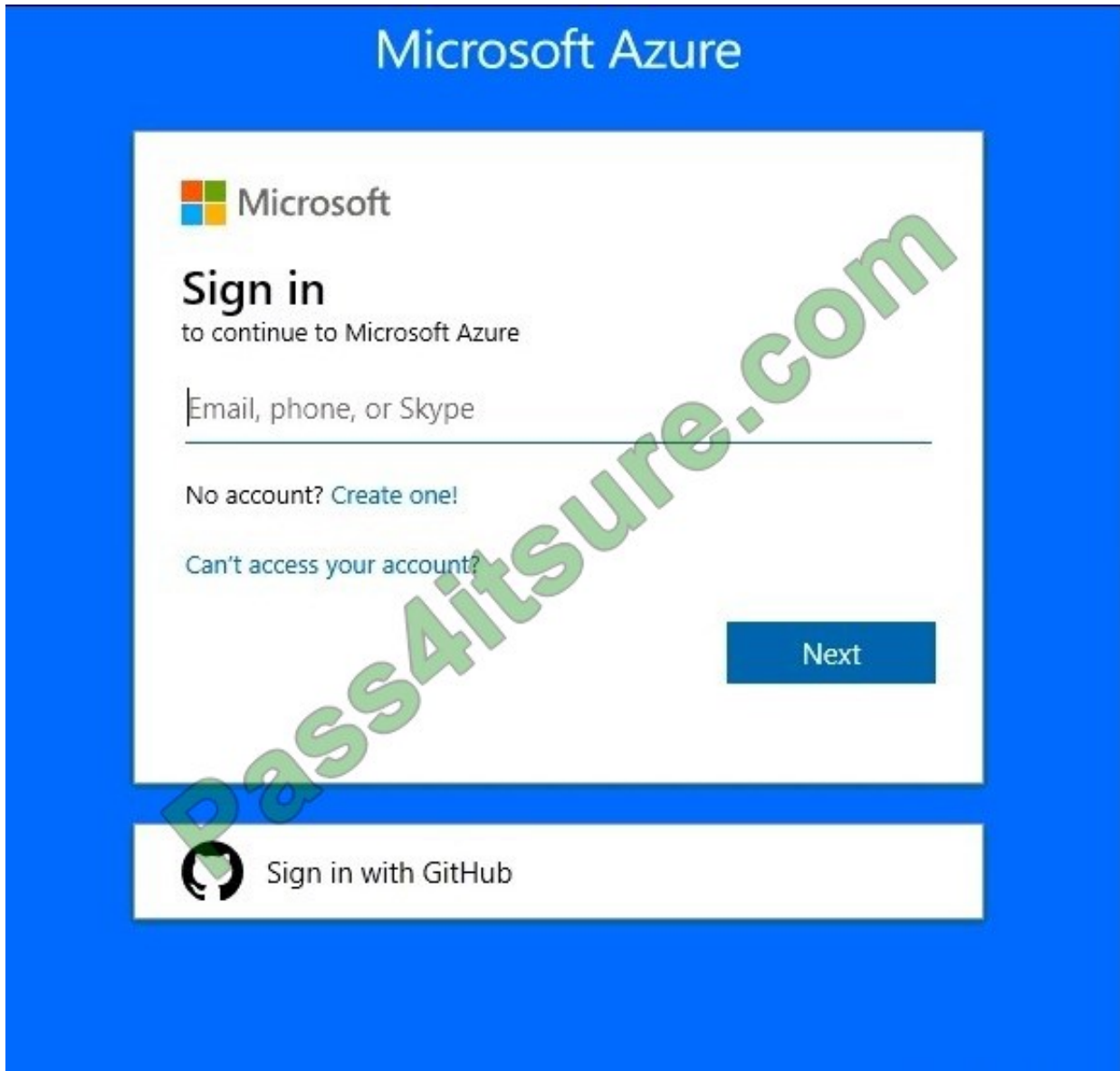
Reference: <https://docs.microsoft.com/en-us/azure/databricks/clusters/>

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### 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 only the resources on a virtual network named VNET1 can access an Azure Storage account named storage10543936.



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

Correct Answer: See the below.

You can use Private Endpoints for your Azure Storage accounts to allow clients on a virtual network (VNet) to securely access data over a Private Link. Create your Private Endpoint

1.  
On the upper-left side of the screen in the Azure portal, Storage > Storage account, and select your storage account storage10543936
2.  
Select Networking.
3.  
Select Add Private Endpoint.



4.  
In Create Private Endpoint, enter or select this information: Virtual network: Select VNET1 from the resource group.
  5.  
Select OK.
  6.  
Select Review + create. You'll be taken to the Review + create page where Azure validates your configuration.
- Reference: <https://docs.microsoft.com/en-us/azure/private-link/create-private-endpoint-storage-portal>

#### QUESTION 4

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
	Azure SQL Database
	files
	Blob
Key type	resource token
	Master key
	certificate

Correct Answer:



### Answer Area

#### Component

#### Technology

Azure database type

Azure Cosmos DB	✓
Azure SQL Database	
files	
Blob	

Key type

resource token	✓
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>

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## QUESTION 5

### HOTSPOT

You have a SQL pool in Azure Synapse.

You plan to load data from Azure Blob storage to a staging table. Approximately 1 million rows of data will be loaded daily. The table will be truncated before each daily load.

You need to create the staging table. The solution must minimize how long it takes to load the data to the staging table.

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

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

Distribution:

	▼
Hash	
Replicated	
Round-robin	

Indexing:

	▼
Clustered	
Clustered columnstore	
Heap	

Partitioning:

	▼
Date	
None	

Correct Answer:





## Answer Area

Distribution:

	▼
Hash	
Replicated	
Round-robin	

Indexing:

	▼
Clustered	
Clustered columnstore	
Heap	

Partitioning:

	▼
Date	
None	

Box 1: Hash

Hash-distributed tables improve query performance on large fact tables. they can have very large numbers of rows and still achieve high performance.

Incorrect:

Round-robin tables are useful for improving loading speed.

Box 2: Clustered columnstore



When creating partitions on clustered columnstore tables, it is important to consider how many rows belong to each partition. For optimal compression and performance of clustered columnstore tables, a minimum of 1 million rows per distribution and partition is needed.

Box 3: Date

Table partitions enable you to divide your data into smaller groups of data. In most cases, table partitions are created on a date column.

Partition switching can be used to quickly remove or replace a section of a table.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-partition>

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribute>

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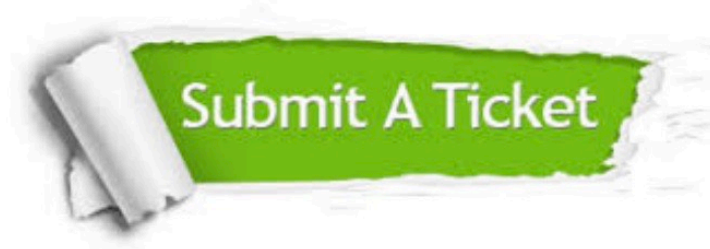
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