



# DP-201<sup>Q&As</sup>

Designing an Azure Data Solution

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### QUESTION 1

You have an Azure Data Lake Storage account that has a virtual network service endpoint configured.

You plan to use Azure Data Factory to extract data from the Data Lake Storage account. The data will then be loaded to a data warehouse in Azure Synapse Analytics by using PolyBase.

Which authentication method should you use to access Data Lake Storage?

- A. shared access key authentication
- B. managed identity authentication
- C. account key authentication
- D. service principal authentication

Correct Answer: B

Reference: <https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-sql-data-warehouse#use-polybase-to-load-data-into-azure-sql-data-warehouse>

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### QUESTION 2

You need to recommend a storage solution to store flat files and columnar optimized files. The solution must meet the following requirements:

1.

Store standardized data that data scientists will explore in a curated folder.

2.

Ensure that applications cannot access the curated folder.

3.

Store staged data for import to applications in a raw folder.

4.

Provide data scientists with access to specific folders in the raw folder and all the content the curated folder. Which storage solution should you recommend?

- A. Azure SQL Data Warehouse
- B. Azure Blob storage
- C. Azure Data Lake Storage Gen2
- D. Azure SQL Database

Correct Answer: B



Azure Blob Storage containers is a general purpose object store for a wide variety of storage scenarios. Blobs are stored in containers, which are similar to folders. Incorrect Answers:

C: Azure Data Lake Storage is an optimized storage for big data analytics workloads.

References: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/data-storage>

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### QUESTION 3

You are designing a solution for the ad hoc analysis of data in Azure Databricks notebooks. The data will be stored in Azure Blob storage.

You need to ensure that Blob storage will support the recovery of the data if the data is overwritten accidentally.

What should you recommend?

- A. Enable soft delete.
- B. Add a resource lock.
- C. Enable diagnostics logging.
- D. Use read-access geo-redundant storage (RA-GRS).

Correct Answer: A

Soft delete protects blob data from being accidentally or erroneously modified or deleted. When soft delete is enabled for a storage account, blobs, blob versions (preview), and snapshots in that storage account may be recovered after they are deleted, within a retention period that you specify.

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

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### QUESTION 4

Which Azure service should you recommend for the analytical data store so that the business analysts and data scientists can execute ad hoc queries as quickly as possible?

- A. Azure Data Lake Storage Gen2
- B. Azure Cosmos DB
- C. Azure SQL Database
- D. Azure SQL Data Warehouse

Correct Answer: A

There are several differences between a data lake and a data warehouse. Data structure, ideal users, processing methods, and the overall purpose of the data are the key differentiators.



	Data Lake	Data Warehouse
Data Structure	Raw	Processed
Purpose of Data	Not Yet Determined	Currently In Use
Users	Data Scientists	Business Professionals
Accessibility	Highly accessible and quick to update	More complicated and costly to make changes

Scenario: Litware employs business analysts who prefer to analyze data by using Microsoft Power BI, and data scientists who prefer analyzing data in Azure Databricks notebooks.

### QUESTION 5

DRAG DROP

You discover that the highest chance of corruption or bad data occurs during nightly inventory loads.

You need to ensure that you can quickly restore the data to its state before the nightly load and avoid missing any streaming data.

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

- Swap the restored database warehouse name.
- Restore from an automatic restore point to a different region.
- Restore from the latest automatic restore point to a new data warehouse.
- Before the nightly load, create a user-defined restore point.
- Restore the data warehouse to a new name on the same server.
- Export the data to Azure Blob storage.

### Answer Area

Empty answer boxes for the first question.

Correct Answer:

### Actions

- Empty box
- Restore from an automatic restore point to a different region.
- Restore from the latest automatic restore point to a new data warehouse.
- Empty box
- Empty box
- Export the data to Azure Blob storage.

### Answer Area

- Before the nightly load, create a user-defined restore point.
- Restore the data warehouse to a new name on the same server.
- Swap the restored database warehouse name.

Step 1: Before the nightly load, create a user-defined restore point SQL Data Warehouse performs a geo-backup once per day to a paired data center. The RPO for a geo-restore is 24 hours. If you require a shorter RPO for geo-backups,



you can create a user-defined restore point and restore from the newly created restore point to a new data warehouse in a different region.

Step 2: Restore the data warehouse to a new name on the same server.

Step 3: Swap the restored database warehouse name.

References: <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/backup-and-restore>

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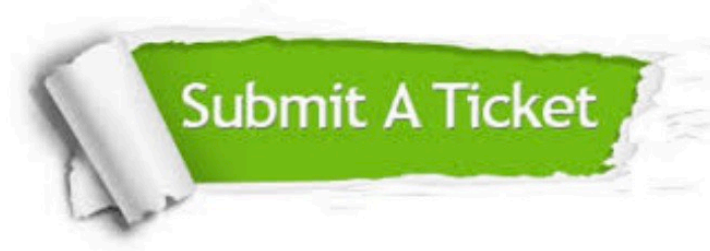
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