



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

A company has a real-time data analysis solution that is hosted on Microsoft Azure. The solution uses Azure Event Hub to ingest data and an Azure Stream Analytics cloud job to analyze the data. The cloud job is configured to use 120 Streaming Units (SU).

You need to optimize performance for the Azure Stream Analytics job.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Implement event ordering
- B. Scale the SU count for the job up
- C. Implement Azure Stream Analytics user-defined functions (UDF)
- D. Scale the SU count for the job down
- E. Implement query parallelization by partitioning the data output
- F. Implement query parallelization by partitioning the data output

Correct Answer: BF

Scale out the query by allowing the system to process each input partition separately.

F: A Stream Analytics job definition includes inputs, a query, and output. Inputs are where the job reads the data stream from.

Reference: <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-parallelization>

QUESTION 2

You are designing an Azure Databricks interactive cluster.

You need to ensure that the cluster meets the following requirements:

1.

Enable auto-termination

2.

Retain cluster configuration indefinitely after cluster termination. What should you recommend?

- A. Start the cluster after it is terminated.
- B. Pin the cluster
- C. Clone the cluster after it is terminated.



D. Terminate the cluster manually at process completion.

Correct Answer: B

To keep an interactive cluster configuration even after it has been terminated for more than 30 days, an administrator can pin a cluster to the cluster list.

References: <https://docs.azuredatabricks.net/user-guide/clusters/terminate.html>

QUESTION 3

HOTSPOT

You design data engineering solutions for a company.

You must integrate on-premises SQL Server data into an Azure solution that performs Extract-Transform-Load (ETL) operations have the following requirements:

1. Develop a pipeline that can integrate data and run notebooks.
2. Develop notebooks to transform the data.
3. Load the data into a massively parallel processing database for later analysis.

You need to recommend a solution.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Requirement

Service

Integrate the on-premises data into the cloud.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Develop notebooks to transform the data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Run notebooks.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Load the data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Store the transformed data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Correct Answer:



Answer Area

Requirement

Service

Integrate the on-premises data into the cloud.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Develop notebooks to transform the data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Run notebooks.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Load the data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	

Store the transformed data.

	▼
Azure Databricks	
Azure Data Factory	
Azure SQL Data Warehouse	
Azure Batch	



QUESTION 4

You need to recommend a security solution for containers in Azure Blob storage. The solution must ensure that only read permissions are granted to a specific user for a specific container. What should you include in the recommendation?

- A. shared access signatures (SAS)
- B. an RBAC role in Azure Active Directory (Azure AD)
- C. public read access for blobs only
- D. access keys

Correct Answer: A

You can delegate access to read, write, and delete operations on blob containers, tables, queues, and file shares that are not permitted with a service SAS.

Note: A shared access signature (SAS) provides secure delegated access to resources in your storage account without compromising the security of your data. With a SAS, you have granular control over how a client can access your data.

You can control what resources the client may access, what permissions they have on those resources, and how long the SAS is valid, among other parameters.

Incorrect Answers:

C: You can enable anonymous, public read access to a container and its blobs in Azure Blob storage. By doing so, you can grant read-only access to these resources without sharing your account key, and without requiring a shared access signature (SAS).

Public read access is best for scenarios where you want certain blobs to always be available for anonymous read access.

References: <https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview>

QUESTION 5

You plan to store 100 GB of data used by a line-of-business (LOB) app.

You need to recommend a data storage solution for the data. The solution must meet the following requirements:

1.
Minimize storage costs.
2.
Natively support relational queries.
- 3.

Provide a recovery time objective (RTO) of less than one minute. What should you include in the recommendation?

- A. Azure Cosmos DB



B. Azure SQL Database

C. Azure SQL Data Warehouse

D. Azure Blob storage

Correct Answer: D

Incorrect Answers:

A: Azure Cosmos DB would require an SQL API.

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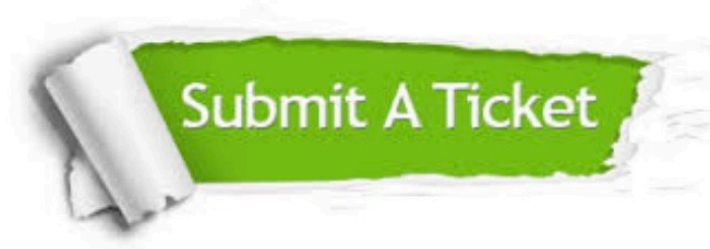
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