



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

You are designing a real-time stream solution based on Azure Functions. The solution will process data uploaded to Azure Blob Storage. The solution requirements are as follows:

1.

New blobs must be processed with a little delay as possible.

2.

Scaling must occur automatically.

3.

Costs must be minimized. What should you recommend?

- A. Deploy the Azure Function in an App Service plan and use a Blob trigger.
- B. Deploy the Azure Function in a Consumption plan and use an Event Grid trigger.
- C. Deploy the Azure Function in a Consumption plan and use a Blob trigger.
- D. Deploy the Azure Function in an App Service plan and use an Event Grid trigger.

Correct Answer: C

Create a function, with the help of a blob trigger template, which is triggered when files are uploaded to or updated in Azure Blob storage. You use a consumption plan, which is a hosting plan that defines how resources are allocated to your function app. In the default Consumption Plan, resources are added dynamically as required by your functions. In this serverless hosting, you only pay for the time your functions run. When you run in an App Service plan, you must manage the scaling of your function app.

References: <https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-storage-blob-triggered-function>

QUESTION 2

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure SQL database that has columns. The columns contain sensitive Personally Identifiable Information (PII) data.

You need to design a solution that tracks and stores all the queries executed against the PII data. You must be able to review the data in Azure Monitor, and the data must be available for at least 45 days.

Solution: You execute a daily stored procedure that retrieves queries from Query Store, looks up the column classifications, and stores the results in a new table in the database.

Does this meet the goal?

- A. Yes



B. No

Correct Answer: B

Instead add classifications to the columns that contain sensitive data and turn on Auditing.

Note: Auditing has been enhanced to log sensitivity classifications or labels of the actual data that were returned by the query. This would enable you to gain insights on who is accessing sensitive data.

Reference:

<https://azure.microsoft.com/en-us/blog/announcing-public-preview-of-data-discovery-classification-for-microsoft-azure-sql-data-warehouse/>

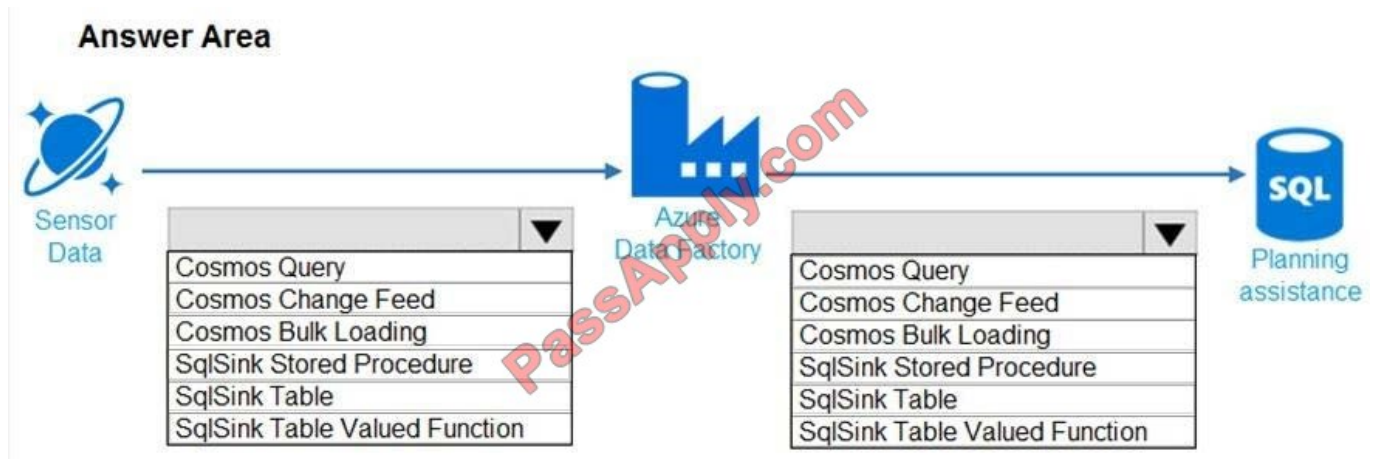
QUESTION 3

You need to design the data loading pipeline for Planning Assistance.

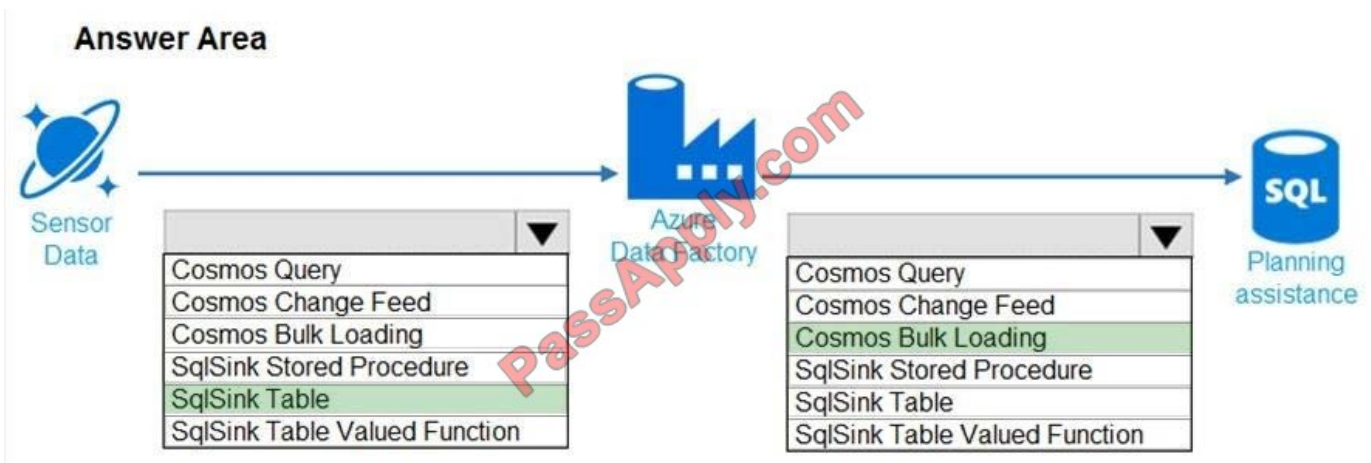
What should you recommend? To answer, drag the appropriate technologies to the correct locations. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: SqlSink Table

Sensor data must be stored in a Cosmos DB named treydata in a collection named SensorData

Box 2: Cosmos Bulk Loading

Use Copy Activity in Azure Data Factory to copy data from and to Azure Cosmos DB (SQL API).

Scenario: Data from the Sensor Data collection will automatically be loaded into the Planning Assistance database once a week by using Azure Data Factory. You must be able to manually trigger the data load process.

Data used for Planning Assistance must be stored in a sharded Azure SQL Database.

References:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-cosmos-db>

QUESTION 4

You have a MongoDB database that you plan to migrate to an Azure Cosmos DB account that uses the MongoDB API.

During testing, you discover that the migration takes longer than expected.

You need to recommend a solution that will reduce the amount of time it takes to migrate the data.

What are two possible recommendations to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Increase the Request Units (RUs).
- B. Turn off indexing.
- C. Add a write region.
- D. Create unique indexes.
- E. Create compound indexes.



Correct Answer: AB

A: Increase the throughput during the migration by increasing the Request Units (RUs).

For customers that are migrating many collections within a database, it is strongly recommend to configure database-level throughput. You must make this choice when you create the database. The minimum database-level throughput capacity is 400 RU/sec. Each collection sharing database-level throughput requires at least 100 RU/sec.

B: By default, Azure Cosmos DB indexes all your data fields upon ingestion. You can modify the indexing policy in Azure Cosmos DB at any time. In fact, it is often recommended to turn off indexing when migrating data, and then turn it back on when the data is already in Cosmos DB.

References: <https://docs.microsoft.com/bs-latn-ba/Azure/cosmos-db/mongodb-pre-migration>

QUESTION 5

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure SQL database that has columns. The columns contain sensitive Personally Identifiable Information (PII) data.

You need to design a solution that tracks and stores all the queries executed against the PII data. You must be able to review the data in Azure Monitor, and the data must be available for at least 45 days.

Solution: You add classifications to the columns that contain sensitive data. You turn on Auditing and set the audit log destination to use Azure Blob storage.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Auditing has been enhanced to log sensitivity classifications or labels of the actual data that were returned by the query. This would enable you to gain insights on who is accessing sensitive data.

References: <https://azure.microsoft.com/en-us/blog/announcing-public-preview-of-data-discovery-classification-for-microsoft-azure-sql-data-warehouse/>



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