



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

You need to design a telemetry data solution that supports the analysis of log files in real time.

Which two Azure services should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Databricks
- B. Azure Data Factory
- C. Azure Event Hubs
- D. Azure Data Lake Storage Gen 2
- E. Azure IoT Hub

Correct Answer: AC

You connect a data ingestion system with Azure Databricks to stream data into an Apache Spark cluster in near real-time. You set up data ingestion system using Azure Event Hubs and then connect it to Azure Databricks to process the messages coming through.

Note: Azure Event Hubs is a highly scalable data streaming platform and event ingestion service, capable of receiving and processing millions of events per second. Event Hubs can process and store events, data, or telemetry produced by distributed software and devices. Data sent to an event hub can be transformed and stored using any real-time analytics provider or batching/storage adapters.

References: <https://docs.microsoft.com/en-us/azure/azure-databricks/databricks-stream-from-eventhubs>

QUESTION 2

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 Data Lake Storage account that contains a staging zone.

You need to design a daily process to ingest incremental data from the staging zone, transform the data by executing an R script, and then insert the transformed data into a data warehouse in Azure Synapse Analytics.

Solution: You use an Azure Data Factory schedule trigger to execute a pipeline that executes an Azure Databricks notebook, and then inserts the data into the data warehouse.

Does this meet the goal?

- A. Yes



B. No

Correct Answer: B

Use a stored procedure, not an Azure Databricks notebook to invoke the R script.

Reference: <https://docs.microsoft.com/en-US/azure/data-factory/transform-data>

QUESTION 3

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.

A company is developing a solution to manage inventory data for a group of automotive repair shops. The solution will use Azure SQL Data Warehouse as the data store.

Shops will upload data every 10 days.

Data corruption checks must run each time data is uploaded. If corruption is detected, the corrupted data must be removed.

You need to ensure that upload processes and data corruption checks do not impact reporting and analytics processes that use the data warehouse.

Proposed solution: Configure database-level auditing in Azure SQL Data Warehouse and set retention to 10 days.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, create a user-defined restore point before data is uploaded. Delete the restore point after data corruption checks complete.

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

QUESTION 4

You need to design the storage for the visual monitoring system. Which storage solution should you recommend?

A. Azure Blob storage

B. Azure Table storage



C. Azure SQL database

D. Azure Media Services

Correct Answer: A

Azure Blobs: A massively scalable object store for text and binary data.

Scenario:

The visual monitoring system is a network of approximately 1,000 cameras placed near highways that capture images of vehicle traffic every 2 seconds. The cameras record high resolution images. Each image is approximately 3 MB in size.

The solution must allow for searches of vehicle images by license plate to support law enforcement investigations. Searches must be able to be performed using a query language and must support fuzzy searches to compensate for license

plate detection errors.

Incorrect Answers:

B: Azure Tables: A NoSQL store for schemaless storage of structured data.

D: Microsoft Azure Media Services (AMS) is a leading full-service media platform for securely delivering live and on-demand video to virtually any device.

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

QUESTION 5

What should you recommend to prevent users outside the Litware on-premises network from accessing the analytical data store?

A. a server-level virtual network rule

B. a database-level virtual network rule

C. a database-level firewall IP rule

D. a server-level firewall IP rule

Correct Answer: A

Virtual network rules are one firewall security feature that controls whether the database server for your single databases and elastic pool in Azure SQL Database or for your databases in SQL Data Warehouse accepts communications that are sent from particular subnets in virtual networks.

Server-level, not database-level: Each virtual network rule applies to your whole Azure SQL Database server, not just to one particular database on the server. In other words, virtual network rule applies at the server-level, not at the database-level.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-vnet-service-endpoint-rule-overview>



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