



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

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 2

You manage a solution that uses Azure HDInsight clusters.

You need to implement a solution to monitor cluster performance and status.

Which technology should you use?

A. Azure HDInsight.NET SDK

B. Azure HDInsight REST API

C. Ambari REST API

D. Azure Log Analytics

E. Ambari Web UI

Correct Answer: E

Ambari is the recommended tool for monitoring utilization across the whole cluster. The Ambari dashboard shows easily glanceable widgets that display metrics such as CPU, network, YARN memory, and HDFS disk usage. The specific



metrics shown depend on cluster type. The "Hosts" tab shows metrics for individual nodes so you can ensure the load on your cluster is evenly distributed. The Apache Ambari project is aimed at making Hadoop management simpler by developing software for provisioning, managing, and monitoring Apache Hadoop clusters. Ambari provides an intuitive, easy-to-use Hadoop management web UI backed by its RESTful APIs.

Reference: <https://azure.microsoft.com/en-us/blog/monitoring-on-hdinsight-part-1-an-overview/>
<https://ambari.apache.org/>

QUESTION 3

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.

QUESTION 4

You need to recommend a solution to quickly identify all the columns in Health Review that contain sensitive health data. What should you include in the recommendation?

- A. classifications
- B. data masking
- C. SQL Server auditing
- D. Azure tags



Correct Answer: A

Data Discovery and Classification introduces a set of advanced capabilities aimed at protecting data and not just the data warehouse itself. Classification/Labeling

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.

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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>

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