



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

You need to design the unauthorized data usage detection system. What Azure service should you include in the design?

- A. Azure Analysis Services
- B. Azure SQL Data Warehouse
- C. Azure Databricks
- D. Azure Data Factory

Correct Answer: B

SQL Database and SQL Data Warehouse

SQL threat detection identifies anomalous activities indicating unusual and potentially harmful attempts to access or exploit databases.

Advanced Threat Protection for Azure SQL Database and SQL Data Warehouse detects anomalous activities indicating unusual and potentially harmful attempts to access or exploit databases.

Scenario:

Requirements. Security

The solution must meet the following security requirements:

Unauthorized usage of data must be detected in real time. Unauthorized usage is determined by looking for unusual usage patterns.

Reference:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-threat-detection-overview>

QUESTION 2

You are designing an Azure SQL data warehouse that will contain a table named Customers. Customers will contain credit card information.

You need to recommend a solution to provide salespeople with the ability to view all the entries in Customers. The solution must prevent all the salespeople from viewing or inferring the credit card information.

What should you include in the recommendation?

- A. row-level security
- B. data masking
- C. column-level security
- D. Always Encrypted



Correct Answer: B

SQL Database dynamic data masking limits sensitive data exposure by masking it to non-privileged users.

The Credit card masking method exposes the last four digits of the designated fields and adds a constant string as a prefix in the form of a credit card.

Example: XXXX-XXXX-XXXX-1234

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-dynamic-data-masking-get-started>

QUESTION 3

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

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Correct Answer:



Actions

Restore from an automatic restore point to a different region.

Restore from the latest automatic restore point to a new data warehouse.

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>

QUESTION 4

You are designing an audit strategy for an Azure SQL Database environment.

You need to recommend a solution to provide real-time notifications for potential security breaches. The solution must minimize development effort.

Which destination should you include in the recommendation?

- A. Azure Blob storage
- B. Azure SQL Data Warehouse
- C. Azure Event Hubs
- D. Azure Log Analytics



Correct Answer: D

Auditing for Azure SQL Database and SQL Data Warehouse tracks database events and writes them to an audit log in your Azure storage account, Log Analytics workspace or Event Hubs.

Alerts in Azure Monitor can identify important information in your Log Analytics repository. They are created by alert rules that automatically run log searches at regular intervals, and if results of the log search match particular criteria, then an

alert record is created and it can be configured to perform an automated response.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing> <https://docs.microsoft.com/en-us/azure/azure-monitor/learn/tutorial-response>

QUESTION 5

HOTSPOT

You need to design storage for the solution.

Which storage services should you recommend? To answer, select the appropriate configuration in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Solution component

Storage service

Images

	▼
Azure Blob Storage	
Azure Data Lake Storage	
Azure SQL Database	
Azure SQL Data Warehouse	

Customer data

	▼
Azure Blob Storage	
Azure Cosmos DB	
Azure SQL Database	
Azure SQL Data Warehouse	

Correct Answer:



Answer Area

Solution component

Storage service

Images

	▼
Azure Blob Storage	
Azure Data Lake Storage	
Azure SQL Database	
Azure SQL Data Warehouse	

Customer data

	▼
Azure Blob Storage	
Azure Cosmos DB	
Azure SQL Database	
Azure SQL Data Warehouse	

Images: Azure Data Lake Storage

Scenario: Image data must be stored in a single data store at minimum cost.

Customer data: Azure Blob Storage

Scenario: Customer data must be analyzed using managed Spark clusters.

Spark clusters in HDInsight are compatible with Azure Storage and Azure Data Lake Storage.

Azure Storage includes these data services: Azure Blob, Azure Files, Azure Queues, and Azure Tables.

References:

<https://docs.microsoft.com/en-us/azure/hdinsight/spark/apache-spark-overview>

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