DP-201^{Q&As}

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Designing an Azure Data Solution

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QUESTION 1

You plan to use an Azure SQL data warehouse to store the customer data. You need to recommend a disaster recovery solution for the data warehouse. What should you include in the recommendation?

A. AzCopy

B. Read-only replicas

C. AdICopy

D. Geo-Redundant backups

Correct Answer: D

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

QUESTION 2

You are designing a data storage solution for a database that is expected to grow to 50 TB. The usage pattern is singleton inserts, singleton updates, and reporting. Which storage solution should you use?

A. Azure SQL. Database elastic pools

B. Azure SQL Data Warehouse

C. Azure Cosmos DB that uses the Gremlin API

D. Azure SQL Database Hyperscale

Correct Answer: D

A Hyperscale database is an Azure SQL database in the Hyperscale service tier that is backed by the Hyperscale scale-out storage technology. A Hyperscale database supports up to 100 TB of data and provides high throughput and performance, as well as rapid scaling to adapt to the workload requirements. Scaling is transparent to the application ?connectivity, query processing, etc. work like any other Azure SQL database.

Incorrect Answers:

A: SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single Azure SQL Database server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.

B: Rather than SQL Data Warehouse, consider other options for operational (OLTP) workloads that have large numbers of singleton selects.

References: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tier-hyperscale-faq

QUESTION 3

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 streaming data that is received by Azure Event Hubs and stored in Azure Blob storage. The data contains social media posts that relate to a keyword of Contoso.

You need to count how many times the Contoso keyword and a keyword of Litware appear in the same post every 30 seconds. The data must be available to Microsoft Power BI in near real-time.

Solution: You create an Azure Stream Analytics job that uses an input from Event Hubs to count the posts that have the specified keywords, then and send the data directly to Power BI.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

DirectQuery mode is required for automatic page refresh.

Reference: https://docs.microsoft.com/en-us/power-bi/service-real-time-streaming https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-twitter-sentiment-analysis-trends

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QUESTION 4

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 5

A company is designing a solution that uses Azure Databricks.

The solution must be resilient to regional Azure datacenter outages.

You need to recommend the redundancy type for the solution. What should you recommend?

A. Read-access geo-redundant storage

B. Locally-redundant storage

C. Geo-redundant storage

D. Zone-redundant storage

Correct Answer: C

If your storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region isn\\'t recoverable.

References: https://medium.com/microsoftazure/data-durability-fault-tolerance-resilience-in-azure-databricks-95392982bac7

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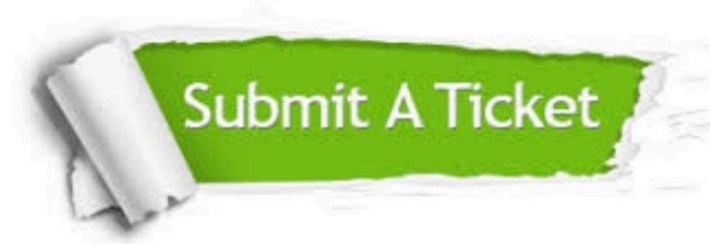
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