DP-300 Q&As

Administering Relational Databases on Microsoft Azure

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QUESTION 1

You have an instance of SQL Server on Azure Virtual Machine named SQL1.

You need to monitor SQL1 and query the metrics by using Kusto query language. The solution must minimize administrative effort.

Where should you store the metrics?

A. a Log Analytics workspace

B. Azure Event Hubs

C. Azure SQL Database

D. an Azure Blob storage container

Correct Answer: A

QUESTION 2

HOTSPOT

You have an on-premises Microsoft SQL Server 2019 instance that hosts a database named DB1.

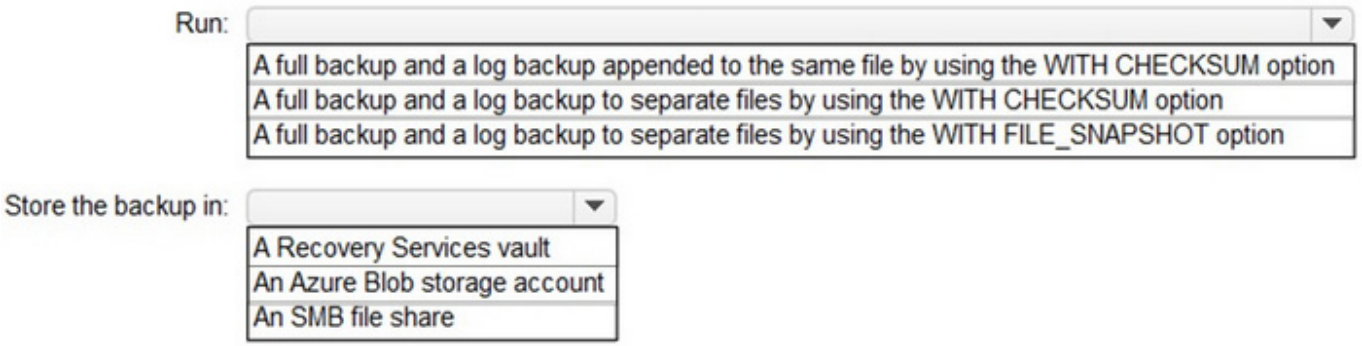
You plan to perform an online migration of DB1 to an Azure SQL managed instance by using the Azure Database Migration Service.

You need to create a backup of DB1 that is accessible to the Azure Database Migration Service.

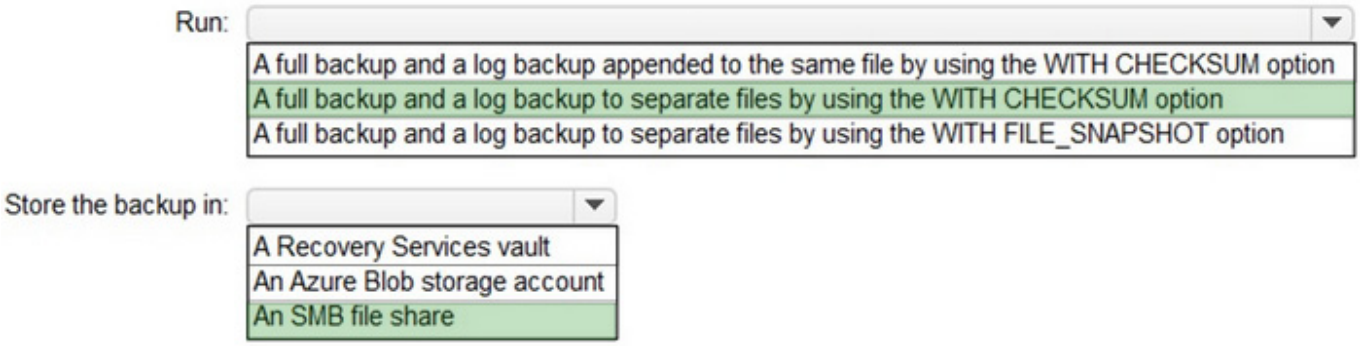
What should you run for the backup and where should you store the backup? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Reference: https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-managed-instance-online

QUESTION 3

You are building a database backup solution for a SQL Server database hosted on an Azure virtual machine.

In the event of an Azure regional outage, you need to be able to restore the database backups. The solution must minimize costs. Which type of storage accounts should you use for the backups?

A. locally-redundant storage (LRS)

B. read-access geo-redundant storage (RA-GRS)

C. zone-redundant storage (ZRS)

D. geo-redundant storage

Correct Answer: B

Geo-redundant storage (with GRS or GZRS) replicates your data to another physical location in the secondary region to protect against regional outages. However, that data is available to be read only if the customer or Microsoft initiates a failover from the primary to secondary region. When you enable read access to the secondary region, your data is available to be read if the primary region becomes unavailable. For read access to the secondary region, enable read-access geo-redundant storage (RA- GRS) or read-access geo-zone-redundant storage (RA-GZRS).

Incorrect Answers:

A: Locally redundant storage (LRS) copies your data synchronously three times within a single physical location in the primary region. LRS is the least expensive replication option, but is not recommended for applications requiring high availability.

C: Zone-redundant storage (ZRS) copies your data synchronously across three Azure availability zones in the primary region.

D: Geo-redundant storage (with GRS or GZRS) replicates your data to another physical location in the secondary region to protect against regional outages. However, that data is available to be read only if the customer or Microsoft initiates a failover from the primary to secondary region.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy

QUESTION 4

You are designing an anomaly detection solution for streaming data from an Azure IoT hub. The solution must meet the following requirements:

1.

Send the output to an Azure Synapse.

2.

Identify spikes and dips in time series data.

3.

Minimize development and configuration effort. Which should you include in the solution?

A. Azure SQL Database

B. Azure Databricks

C. Azure Stream Analytics

Correct Answer: C

Anomalies can be identified by routing data via IoT Hub to a built-in ML model in Azure Stream Analytics

Reference: https://docs.microsoft.com/en-us/learn/modules/data-anomaly-detection-using-azure-iot-hub/
https://docs.microsoft.com/en-us/azure/stream-analytics/azure-synapse-analytics-output

QUESTION 5

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Azure region
VM1	Azure virtual machine	West US 2
MI1	Azure SQL Managed Instance	East US

You need to configure a connection between VM1 and MIL The solution must meet the following requirements:

1.

The connection must be encrypted.

2.

Network latency must be minimized. What should you implement?

A. virtual network peering

B. private endpoints

C. service endpoints

D. a site-to-site VPN

Correct Answer: B

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