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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q396-Q401):

NEW QUESTION # 396

You have an Azure Synapse Analytics Apache Spark pool named Pool1.

You plan to load JSON files from an Azure Data Lake Storage Gen2 container into the tables in Pool1. The structure and data types vary by file.

You need to load the files into the tables. The solution must maintain the source data types.

What should you do?

- A. Use a Conditional Split transformation in an Azure Synapse data flow.
- B. Use a Get Metadata activity in Azure Data Factory.
- C. Load the data by using the OPENROWSET Transact-SQL command in an Azure Synapse Analytics serverless SQL pool.
- D. Load the data by using PySpark.

Answer: C

Explanation:

Serverless SQL pool can automatically synchronize metadata from Apache Spark. A serverless SQL pool database will be created for each database existing in serverless Apache Spark pools.

Serverless SQL pool enables you to query data in your data lake. It offers a T-SQL query surface area that accommodates semi-structured and unstructured data queries.

To support a smooth experience for in place querying of data that's located in Azure Storage files, serverless SQL pool uses the OPENROWSET function with additional capabilities.

The easiest way to see to the content of your JSON file is to provide the file URL to the OPENROWSET function, specify csv FORMAT.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-json-files>

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-data-storage>

NEW QUESTION # 397

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.

Run:

- A full backup and a log backup appended to the same file by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option

Store the backup in:

- A Recovery Services vault
- An Azure Blob storage account
- An SMB file share

Answer:

Explanation:

Run:

- A full backup and a log backup appended to the same file by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option

Store the backup in:

- A Recovery Services vault
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Explanation:

Run:

- A full backup and a log backup appended to the same file by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH CHECKSUM option
- A full backup and a log backup to separate files by using the WITH FILE_SNAPSHOT option

Store the backup in:

- A Recovery Services vault
- An Azure Blob storage account
- An SMB file share

Reference:

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

NEW QUESTION # 398

You have two on-premises Microsoft SQL Server 2019 instances named SQL1 and SQL2.

You need to migrate the databases hosted on SQL 1 to Azure. The solution must meet the following requirements:

The service that hosts the migrated databases must be able to communicate with SQL2 by using linked server connections.

Administrative effort must be minimized.

What should you use to host the databases?

- A. an Azure SQL Database elastic pool
- B. SQL Server on Azure Virtual Machines
- C. a single Azure SQL database
- D. Azure SQL Managed Instance

Answer: D

NEW QUESTION # 399

Case Study 5 - ADatum Corporation

Overview

ADatum Corporation is a financial services company that has a main office in New York City.

Existing Environment

Licensing Agreement

ADatum has a Microsoft Volume Licensing agreement that includes Software Assurance.

Network Infrastructure

ADatum has an on-premises datacenter and an Azure subscription named Sub1.

Sub1 contains a virtual network named Network1 in the East US Azure region.

The datacenter is connected to Network1 by using a Site-to-Site (S2S) VPN.

Identity Environment

The on-premises network contains an Active Directory Domain Services (AD DS) forest.

The forest contains a single domain named corp.adatum.com.

The corp.adatum.com domain syncs with a Microsoft Entra tenant named adatum.com.

Database Environment

The datacenter contains the servers shown in the following table.

Name	Operating system	Description
SVR1	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed. Has an Always On availability group named AG1 that contains two databases named DB1 and DB2.
SVR2	Windows Server 2016	Has Microsoft SQL Server 2016 Enterprise installed. Has an Always On availability group named AG1 that contains two databases named DB1 and DB2.
SVR3	Windows Server 2019	Has Microsoft SQL Server 2019 Enterprise installed that contains a database named DB3.

DB1 and DB2 are used for transactional and analytical workloads by an application named App1.

App1 runs on Microsoft Entra hybrid joined servers that run Windows Server 2022. App1 uses Kerberos authentication.

DB3 stores compliance data used by two applications named App2 and App3.

DB3 performance is monitored by using Extended Events sessions, with the event_file target set to a file share on a local disk of SVR3.

Resource allocation for DB3 is managed by using Resource Governor.

Requirements

Planned Changes

ADatum plans to implement the following changes:

- Deploy an Azure SQL managed instance named Instance1 to Network1.
- Migrate DB1 and DB2 to Instance1.
- Migrate DB3 to Azure SQL Database.
- Following the migration of DB1 and DB2, hand over database development to remote developers who use Microsoft Entra joined Windows 11 devices.
- Following the migration of DB3, configure the database to be part of an auto-failover group.

Availability Requirements

ADatum identifies the following post-migration availability requirements:

- For DB1 and DB2, offload analytical workloads to a read-only database replica in the same Azure region.
- Ensure that if a regional disaster occurs, DB1 and DB2 can be recovered from backups.
- After the migration, App1 must maintain access to DB1 and DB2.
- For DB3, manage potential performance issues caused by resource demand changes by App2 and App3.
- Ensure that DB3 will still be accessible following a planned failover.
- Ensure that DB3 can be restored if the logical server is deleted.
- Minimize downtime during the migration of DB1 and DB2.

Security Requirements

ADatum identifies the following security requirements for after the migration:

- Ensure that only designated developers who use Microsoft Entra joined Windows 11 devices can access DB1 and DB2 remotely.
- Ensure that all changes to DB3, including ones within individual transactions, are audited and recorded.

Management Requirements

ADatum identifies the following post-migration management requirements:

- Continue using Extended Events to monitor DB3.
- In Azure SQL Database, automate the management of DB3 by using elastic jobs that have database-scoped credentials.

Business Requirements

ADatum identifies the following business requirements:

- Minimize costs whenever possible, without affecting other requirements.
- Minimize administrative effort.

You need to recommend a process to automate the management of DB3. The solution must meet the management requirements.

What should be the first step of the process?

- A. Configure Microsoft Entra authentication for the logical server that hosts DB3.
- B. Configure a private endpoint for connectivity to DB3.
- C. Create database-scoped credentials in DB3.
- D. Create a database that has database-scoped credentials.

Answer: C

NEW QUESTION # 400

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