DP-300^{Q&As}

Administering Relational Databases on Microsoft Azure

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QUESTION 1

You have an on-premises Microsoft SQL server that uses the FileTables and Filestream features.

You plan to migrate to Azure SQL.

Which service should you use?

A. Azure SQL Database

B. SQL Server on an Azure Virtual Machine

C. Azure SQL Managed Instance

D. Azure Database for MySQL

Correct Answer: B

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/migration-guides/database/sql-server-to-sql-database-overview

QUESTION 2

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 MI1. The solution must meet the following requirements:

1.

The connection must be encrypted.

2.

Network latency must be minimized. What should you implement?

A. a site-to-site VPN

B. virtual network peering

C. private endpoints

D. service endpoints

Correct Answer: C

QUESTION 3

You have an Azure subscription that contains an instance of SQL Server on an Azure virtual machine named SQLVM1 and a user named User1. SQLVM1 hosts a database named DB1.

You need to ensure that User1 can create a scheduled task to perform a full backup of DB1. The solution must use the principle of least privilege.

Which built-in database role should you assign to User1?

A. db_owner

B. SQLAgentReaderRole

C. SQLAgentUserRole

D. SQLAgentOperatorRole

Correct Answer: D

SQLAgentOperatorRole Permissions SQLAgentOperatorRole is the most privileged of the SQL Server Agent fixed database roles. It includes all the permissions of SQLAgentUserRole and SQLAgentReaderRole. Members of this role can also view properties for operators and proxies, and enumerate available proxies and alerts on the server.

SQLAgentOperatorRole members have additional permissions on local jobs and schedules. They can execute, stop, or start all local jobs, and they can delete the job history for any local job on the server. They can also enable or disable all local jobs and schedules on the server.

Note: SQL Server Agent is a Microsoft Windows service that executes scheduled administrative tasks, which are called jobs in SQL Server.

SQL Server Agent uses SQL Server to store job information. Jobs contain one or more job steps. Each step contains its own task, for example, backing up a database.

Security for SQL Server Agent Administration SQL Server Agent uses the SQLAgentUserRole, SQLAgentReaderRole, and SQLAgentOperatorRole fixed database roles in the msdb database to control access to SQL Server Agent for users who aren\\'t members of the sysadmin fixed server role.

Incorrect:

*

SQLAgentReaderRole Permissions (too few permissions) Can execute own jobs only.

SQLAgentReaderRole includes all the SQLAgentUserRole permissions as well as permissions to view the list of available multiserver jobs, their properties, and their history. Members of this role can also view the list of all available jobs and job schedules and their properties, not just those jobs and job schedules that they own. SQLAgentReaderRole members cannot change job ownership to gain access to jobs that they do not already own. Only the Jobs node in SQL Server Management Studio Object Explorer is visible to members of the SQLAgentReaderRole.

*

SQLAgentUserRole Permissions (too few permissions)

SQLAgentUserRole is the least privileged of the SQL Server Agent fixed database roles. It has permissions on only operators, local jobs, and job schedules. Members of SQLAgentUserRole have permissions on only local jobs and job

schedules that they own. They cannot use multiserver jobs (master and target server jobs), and they cannot change job ownership to gain access to jobs that they do not already own. SQLAgentUserRole members can view a list of available

proxies only in the Job Step Properties dialog box of SQL Server Management Studio. Only the Jobs node in SQL Server Management Studio Object Explorer is visible to members of SQLAgentUserRole.

Reference: https://learn.microsoft.com/en-us/sql/ssms/agent/sql-server-agent-fixed-database-roles
https://learn.microsoft.com/en-us/sql/ssms/agent/sql-server-agent

QUESTION 4

You have an Azure SQL database named DB1. DB1 has a table named Table1 that contains the following columns.

Name	Type
Column1	Ntext
Column2	Geometry
Column3	Image
Column4	Varchar
Column5	Datetime2

You plan to enable Always Encrypted for Table1.

Which two columns support encryption? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point

A. Column1

B. Column2

C. Column3

D. Column4

E. Column5

Correct Answer: AD

Ntext and Varchar columns can be encrypted.

QUESTION 5

You have SQL Server 2019 on an Azure virtual machine that runs Windows Server 2019. The virtual machine has 4 vCPUs and 28 GB of memory.

You scale up the virtual machine to 16 vCPUSs and 64 GB of memory.

You need to provide the lowest latency for tempdb.

What is the total number of data files that tempdb should contain?

A. 2

B. 4

C. 8

D. 64

Correct Answer: D

The number of files depends on the number of (logical) processors on the machine. As a general rule, if the number of logical processors is less than or equal to eight, use the same number of data files as logical processors. If the number of logical processors is greater than eight, use eight data files and then if contention continues, increase the number of data files by multiples of 4 until the contention is reduced to acceptable levels or make changes to the workload/code.

Reference: https://docs.microsoft.com/en-us/sql/relational-databases/databases/tempdb-database

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