

DP-300^{Q&As}

Administering Relational Databases on Microsoft Azure

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QUESTION 1

You have an Azure subscription that contains a server named Server1. Server1 hosts two Azure SQL databases named DB1 and DB2.

You plan to deploy a Windows app named App1 that will authenticate to DB2 by using SQL authentication.

You need to ensure that App1 can access DB2. The solution must meet the following requirements:

1.

App1 must be able to view only DB2.

2.

Administrative effort must be minimized. What should you create?

A. a contained database user for App1 on DB2

B. a login for App1 on Server1

C. a contained database user from an external provider for App1 on DB2

D. a contained database user from a Windows login for App1 on DB2

Correct Answer: D

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/security/contained-database-users-making-your-database-portable?view=sql-server-ver15>

QUESTION 2

You are designing a date dimension table in an Azure Synapse Analytics dedicated SQL pool. The date dimension table will be used by all the fact tables. Which distribution type should you recommend to minimize data movement?

A. HASH

B. REPLICATE

C. ROUND_ROBIN

Correct Answer: B

A replicated table has a full copy of the table available on every Compute node. Queries run fast on replicated tables since joins on replicated tables don't require data movement. Replication requires extra storage, though, and isn't practical for large tables.

Incorrect Answers:

C: A round-robin distributed table distributes table rows evenly across all distributions. The assignment of rows to distributions is random. Unlike hash-distributed tables, rows with equal values are not guaranteed to be assigned to the same distribution.

As a result, the system sometimes needs to invoke a data movement operation to better organize your data before it can resolve a query.

Reference: <https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribute>

QUESTION 3

HOTSPOT

You have two Azure virtual machines named VM1 and VM2 that run Windows Server 2019. VM1 and VM2 each host a default Microsoft SQL Server 2019 instance. VM1 contains a database named DB1 that is backed up to a file named D:

\\DB1.bak.

You plan to deploy an Always On availability group that will have the following configurations:

1.

VM1 will host the primary replica of DB1.

2.

VM2 will host a secondary replica of DB1.

You need to prepare the secondary database on VM2 for the availability group.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

<input type="text"/>	▼	DATABASE MyDB1
BACKUP		
CREATE		
RESTORE		

FROM DISK = 'D:\DB1.bak'

WITH

GO

<input type="text"/>	▼	
NORECOVERY		
RECOVERY		
STANDBY		

Correct Answer:

Answer Area

<input type="text"/>	▼	DATABASE MyDB1
BACKUP		
CREATE		
RESTORE		

FROM DISK = 'D:\DB1.bak'

WITH

GO

<input type="text"/>	▼	
NORECOVERY		
RECOVERY		
STANDBY		

Reference: <https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/manually-prepare-a-secondary-database-for-an-availability-group-sql-server?view=sql-server-ver15>

QUESTION 4

You deploy an instance of SQL Server on Azure Virtual Machines named VM1.

You need to create a SQL Server Agent job that will rebuild indexes of the databases hosted on VM1. The solution must use the principle of least privilege.

What should you create first?

- A. a local Windows account
- B. a user-assigned managed identity in Azure AD
- C. a system-assigned managed identity in Azure AD
- D. an Elastic Job agent

Correct Answer: C

You can use a Windows VM system-assigned managed identity to access Azure SQL.

Use a system-assigned identity for a Windows virtual machine (VM) to access Azure SQL Database. Managed Service Identities are automatically managed by Azure and enable you to authenticate to services that support Azure AD authentication, without needing to insert credentials into your code. Reference: <https://learn.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/tutorial-windows-vm-access-sql>

QUESTION 5

HOTSPOT

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

Name	Type	Configuration
DB1	Azure SQL Database	Hyperscale service tier No secondary replicas
App1	Azure Web Apps	App1 has read-only access to DB1. There are multiple instances of App1.

You need to create a read-only replica of DB1 and configure the App1 instances to use the replica.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To add read-only replicas of DB1:

	▼
Create a replica on the same logical server.	
Create a new logical server and configure geo-replication.	
Create a new logical server and configure an auto-failover group.	

To configure App1 instances to access the read-only replica:

	▼
Add an ApplicationIntent entry to the connection string.	
Add a MultiSubnetFailover entry to the App1 connection string.	
Create a dedicated endpoint and configure the App1 connection string to point to the endpoint.	

Correct Answer:

Answer Area

To add read-only replicas of DB1:

	▼
Create a replica on the same logical server.	
Create a new logical server and configure geo-replication.	
Create a new logical server and configure an auto-failover group.	

To configure App1 instances to access the read-only replica:

	▼
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Create a dedicated endpoint and configure the App1 connection string to point to the endpoint.	

Reference: <https://sqlserverguides.com/read-only-replica-azure-sql/>

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