DP-300Q&As

Administering Relational Databases on Microsoft Azure

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QUESTION 1

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

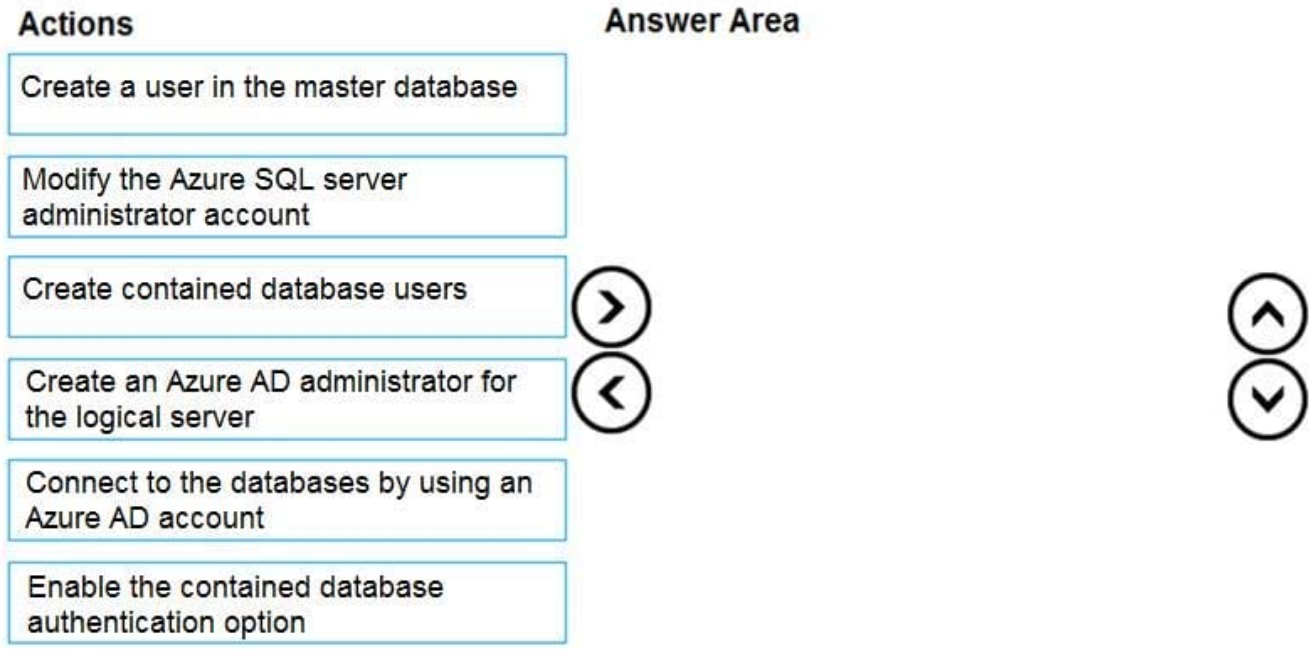
QUESTION 2

DRAG DROP

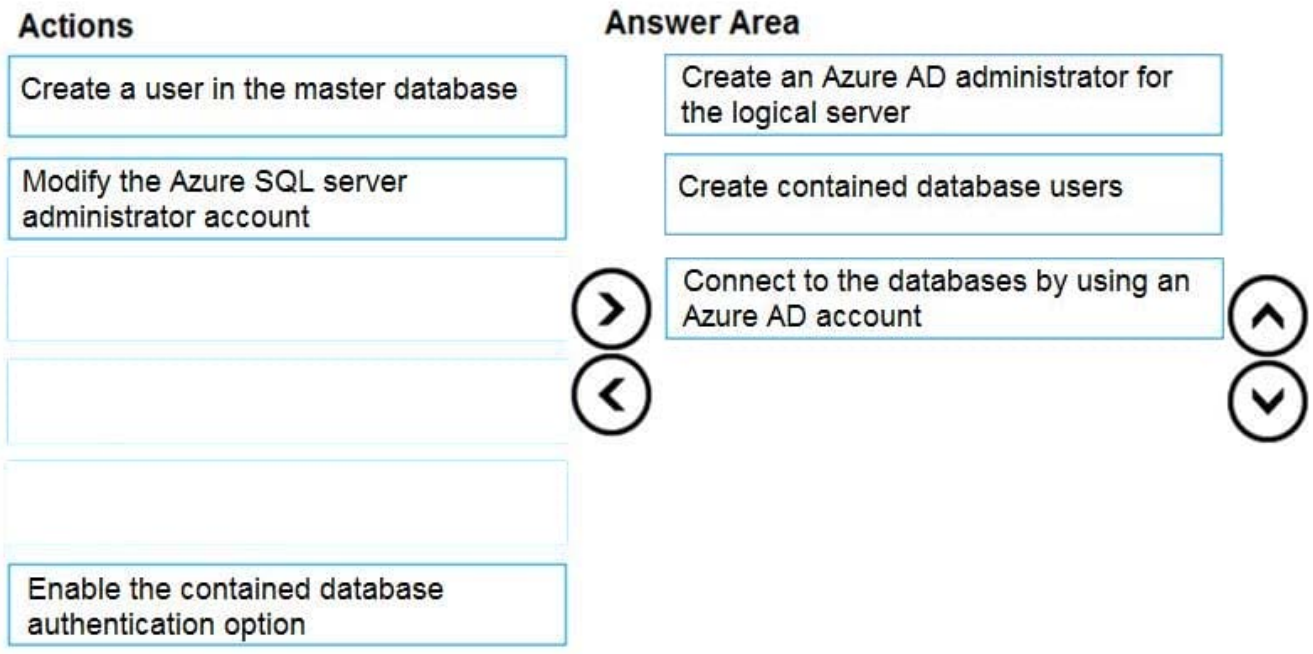
You need to configure user authentication for the SERVER1 databases. The solution must meet the security and compliance requirements.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Scenario: Authenticate database users by using Active Directory credentials.

The configuration steps include the following procedures to configure and use Azure Active Directory authentication.

1.

Create and populate Azure AD.

2.

Optional: Associate or change the active directory that is currently associated with your Azure Subscription.

3.

Create an Azure Active Directory administrator. (Step 1)

4.

Configure your client computers.

5.

Create contained database users in your database mapped to Azure AD identities. (Step 2)

6.

Connect to your database by using Azure AD identities. (Step 3)

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-aad-overview

QUESTION 3

You have 10 Azure virtual machines that have SQL Server installed.

You need to implement a backup strategy to ensure that you can restore specific databases to other SQL Server instances. The solution must provide centralized management of the backups.

What should you include in the backup strategy?

A. Automated Backup in the SQL virtual machine settings

B. Azure Backup

C. Azure Site Recovery

D. SQL Server Agent jobs

Correct Answer: B

Azure Backup provides an Enterprise class backup capability for SQL Server on Azure VMs. All backups are stored and managed in a Recovery Services vault. There are several advantages that this solution provides, especially for Enterprises.

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/backup-restore#azbackup

QUESTION 4

You have an Azure Data Factory pipeline that is triggered hourly.

The pipeline has had 100% success for the past seven days.

The pipeline execution fails, and two retries that occur 15 minutes apart also fail. The third failure returns the following error.

```
ErrorCode=UserErrorFileNotFound,
'Type=Microsoft.DataTransfer.Common.Shared.HybridDeliveryException,Message=ADLS
Gen2 operation failed for: Operation returned an invalid status code
'NotFound'. Account: 'contosoproduksouth' FileSystem: wwi.Path:
'BIKES/CARBON/year=2021/month=01/day=10/hour=06'. ErrorCode:
'PathNotFound'.Message: 'The specified path does not exist.'. RequestId:
'6d269b78-901f-001b-4924-e7a7bc000000'. TimeStamp: 'Sun, 10 Jan 2021 07:45:05
```

What is a possible cause of the error?

A. From 06:00 to 07:00 on January 10, 2021, there was no data in wwi/BIKES/CARBON.

B. The parameter used to generate year=2021/month=01/day=10/hour=06 was incorrect.

C. From 06:00 to 07:00 on January 10, 2021, the file format of data in wwi/BIKES/CARBON was incorrect.

D. The pipeline was triggered too early.

Correct Answer: B

A file is missing.

QUESTION 5

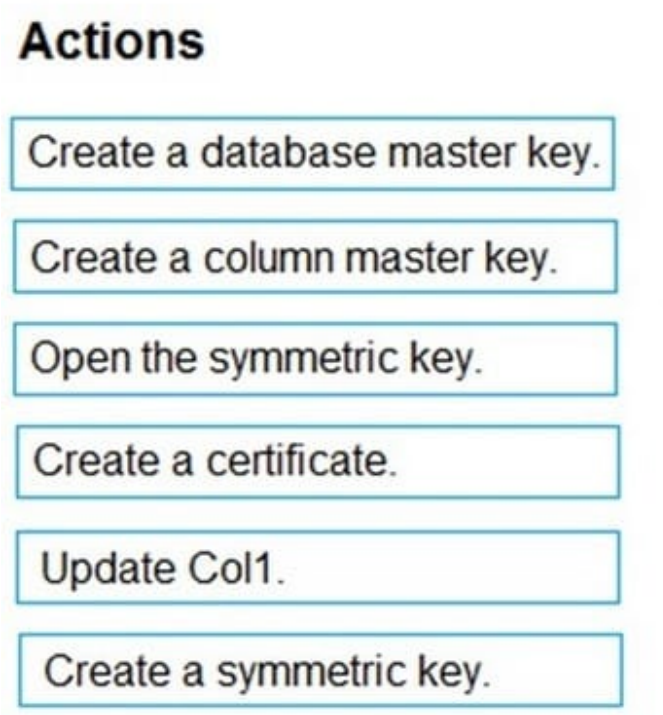
DRAG DROP

You have an Azure SQL database named DB1. DB1 contains a table that has a column named Col1.

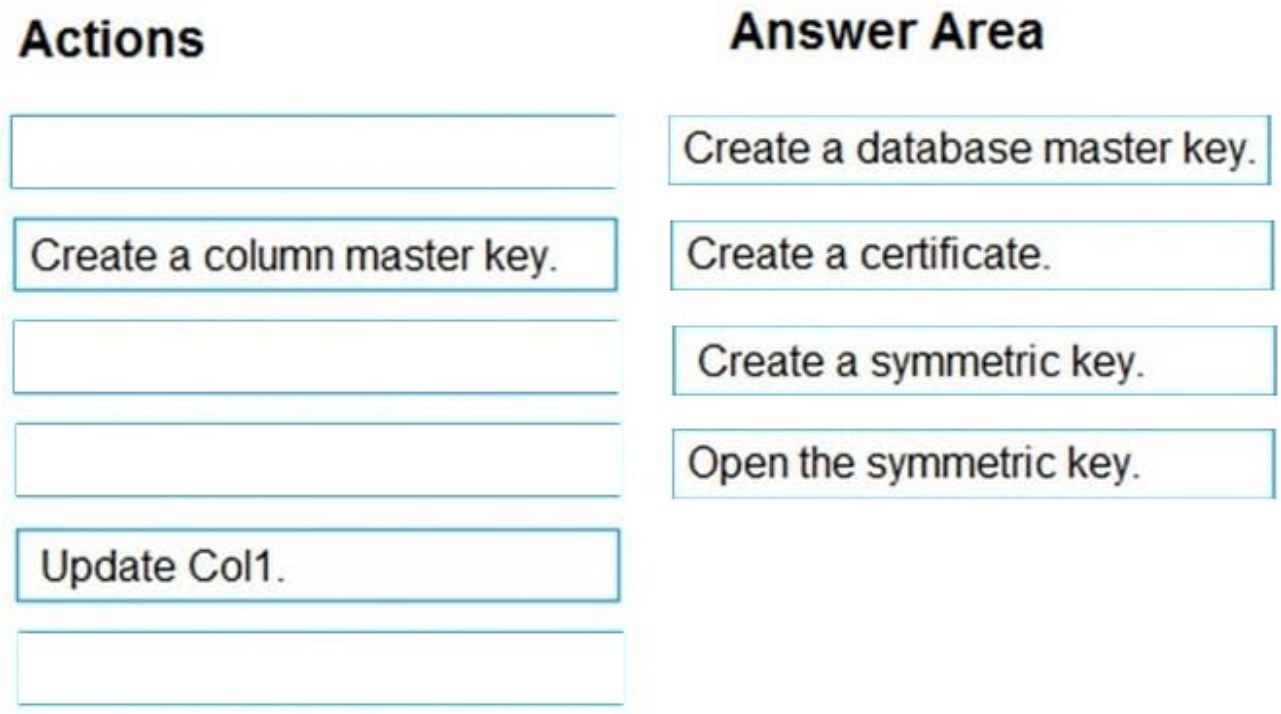
You need to encrypt the data in Col1.

Which four actions should you perform for DB1 in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Reference: https://www.sqlshack.com/an-overview-of-the-column-level-sql-server-encryption/

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