AZ-301^{Q&As}

Microsoft Azure Architect Design

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QUESTION 1

You need to recommend a data storage solution that meets the following requirements:

1.

 Ensures that application can access the data by using a REST connection

2.

 Hosts 20 independent tables of varying sizes and usage patterns

3.

 Automatically replicates the data to a second Azure region

4.

 Minimizes costs What should you recommend?

A. an Azure SQL Database elastic database pool that uses active geo-replication

B. tables in an Azure Storage account that uses geo-redundant storage (GRS)

C. tables in an Azure Storage account that use read-access geo-redundant storage (RA-GR)

D. an Azure SQL database that uses active geo-replication

Correct Answer: C

QUESTION 2

You need to recommend a solution for the collection of security logs for the middle tier of the payment processing system. What should you include in the recommendation?

A. Azure Event Hubs

B. Azure Notification Hubs

C. the Azure Diagnostics agent

D. the Microsoft Monitoring agent

Correct Answer: C

Scenario: Collect Windows security logs from all the middle-tier servers and retain the logs for a period of seven years.

The Azure Diagnostics agent should be used when you want to archive logs and metrics to Azure storage.

Reference:

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview

QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Create a separate resource group for each department. Place the resources for each department in its respective resource group.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead create a resources group for each resource type. Assign tags to each resource group.

Note: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management.

Reference: https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags

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QUESTION 4

You have an Azure subscription for used for testing and development purposes only. The subscription contains Azure virtual machines that unmanaged, standard hard disk drives (HDD).

You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective (RTO) can be up to seven days. The solution must minimize costs.

What should you include in the recommendation?

A. Store the disks in a Standard_LRS storage account. Configure Azure site Recovery. If a failure occurs, initiate a manual failover.

B. Store the disks in a Standard_GRS storage account. Configure Azure Recovery. If a failure occurs, initiate a manual failover.

C. Store the disks in a Standard_LRS storage account. If a disaster occurs, manually create the virtual machines by used Azure Resources Manager templates.

D. Store the disks in a Standard_GRS storage account. If a disaster occurs, manually create the virtual machines by used Azure Resources Manager templates.

Correct Answer: B

Geo-redundant storage (GRS) is designed to provide at least 99.99999999999999% (16 9\\'s) durability of objects over a given year by replicating your data to a secondary region that is hundreds of miles away from the primary region. If your

storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region isn\\'t recoverable. GRS replicates your data to another data center in a secondary region,

but that data is available to be read only if Microsoft initiates a failover from the primary to secondary region.

Incorrect Answers:

A, C: If a datacenter-level disaster (for example, fire or flooding) occurs, all replicas in a storage account using LRS may be lost or unrecoverable. To mitigate this risk, Microsoft recommends using zone-redundant storage (ZRS), georedundant storage (GRS), or geo-zone-redundant storage (GZRS).

Reference:

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

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QUESTION 5

You are designing a virtual machine that will run Microsoft SQL Server and will contain two data disks. The first data disk will store log files, and the second data disk will store data.

Both disks are P40 managed disks.

You need to recommend a caching policy for each disk. The policy must provide the best overall performance for the virtual machine.
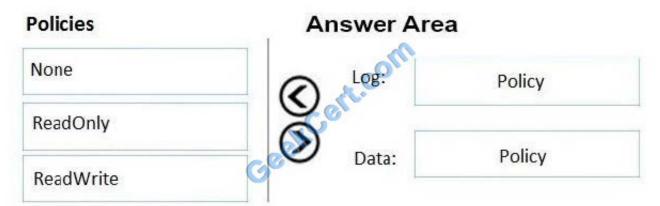
Which caching policy should you recommend for each disk? To answer, drag the appropriate policies to the correct disks. Each policy may be used once, more than once, or not at all. You may need to drag the split bar between panes or
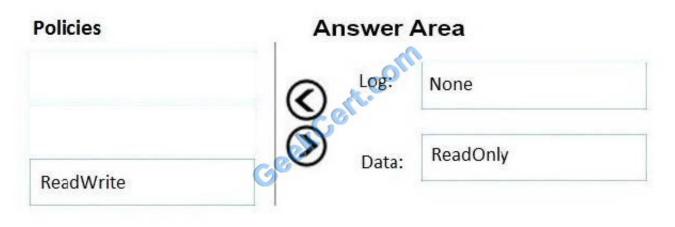
scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Policies

None
ReadOnly
ReadWrite

Answer Area

Log: | Policy |

Data: | Policy |

Correct Answer:

Policies

ReadWrite

Answer Area

Log: | None |

Data: | ReadOnly |

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