AZ-305 Q&As

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

You manage an on-premises network and Azure virtual networks.

You need to create a secure connection over a private network between the on-premises network and the Azure virtual networks. The connection must offer a redundant pair of cross connections to provide high availability.

What should you recommend?

A. Azure Load Balancer

B. VPN Gateway

C. ExpressRoute

D. virtual network peering

Correct Answer: B

Every Azure VPN gateway consists of two instances in an active-standby configuration. For any planned maintenance or unplanned disruption that happens to the active instance, the standby instance would take over (failover) automatically.

Reference: https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-highlyavailable

QUESTION 2

You ate designing a SQL database solution. The solution will include 20 databases that will be 20 GB each and have varying usage patterns. You need to recommend a database platform to host the databases. The solution must meet the following requirements:

1.

The compute resources allocated to the databases must scale dynamically.

2.

The solution must meet an SLA of 99.99% uptime.

3.

The solution must have reserved capacity.

4.

Compute charges must be minimized. What should you include in the recommendation?

A. 20 databases on a Microsoft SQL server that runs on an Azure virtual machine

B. 20 instances of Azure SQL Database serverless

C. 20 databases on a Microsoft SQL server that runs on an Azure virtual machine in an availability set

D. an elastic pool that contains 20 Azure SQL databases

Correct Answer: D

Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set

number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each

database.

Guaranteed 99.995 percent uptime for SQL Database

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview

https://azure.microsoft.com/en-us/pricing/details/sql-database/elastic/

https://www.azure.cn/en-us/support/sla/virtual-machines/

https://techcommunity.microsoft.com/t5/azure-sql/optimize-price-performance-with-compute-auto-scaling-in-azure/ba-p/966149

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 have an app named App1 that uses data from two on-premises Microsoft SQL Server databases named DB1 and DB2.

You plan to move DB1 and DB2 to Azure.

You need to implement Azure services to host DB1 and DB2. The solution must support server-side transactions across DB1 and DB2.

Solution: You deploy DB1 and DB2 as Azure SQL databases on the same Azure SQL Database server.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead deploy DB1 and DB2 to SQL Server on an Azure virtual machine.

Note: Understanding distributed transactions.

When both the database management system and client are under the same ownership (e.g. when SQL Server is deployed to a virtual machine), transactions are available and the lock duration can be controlled.

Reference:

https://docs.particular.net/nservicebus/azure/understanding-transactionality-in-azure

QUESTION 4

You have an Azure web app that uses an Azure key vault named KeyVault1 in the West US Azure region.

You are designing a disaster recovery plan for KeyVault1.

You plan to back up the keys in KeyVault1.

You need to identify to where you can restore the backup.

What should you identify?

A. any region worldwide

B. the same region only

C. KeyVault1 only

D. the same geography only

Correct Answer: D

Using the backup and restore commands has two limitations:

*

 You can\\'t back up a key vault in one geography and restore it into another geography.

*

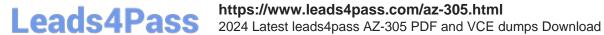 The backup command backs up all versions of each secret.

Incorrect:

Not A: Azure Key Vault does not allow you to move a key vault from one region to another. You can, however, create a key vault in the new region, manually copy each individual key, secret, or certificate from your existing key vault to the

new key vault, and then remove the original key vault.

Reference: https://docs.microsoft.com/en-us/azure/key-vault/general/move-region

QUESTION 5

Your company plans to publish APIs for its services by using Azure API Management.

You discover that service responses include the AspNet-Version header.

You need to recommend a solution to remove AspNet-Version from the response of the published APIs.

What should you include in the recommendation?

A. a new product

B. a modification to the URL scheme

C. a new policy

D. a new revision

Correct Answer: C

https://docs.microsoft.com/en-us/azure/api-management/transform-api

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