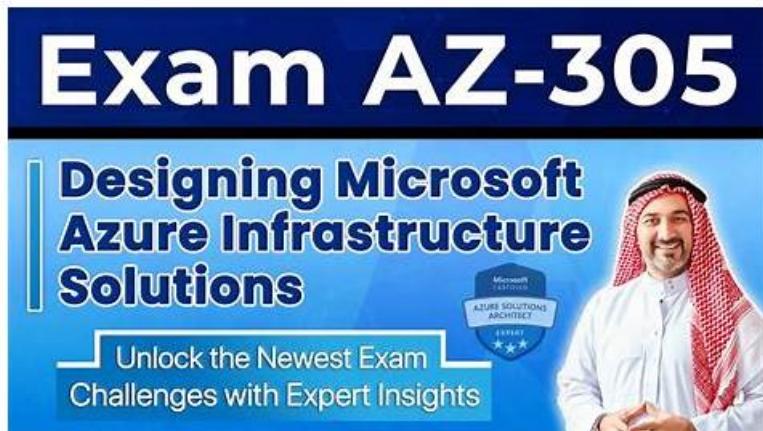


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Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q59-Q64):

NEW QUESTION # 59

You plan to deploy a network-intensive application to several Azure virtual machines.

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

Minimizes the use of the virtual machine processors to transfer data

Minimizes network latency

Which virtual machine size and feature should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Virtual machine size:

	Microsoft	▼
Compute optimized Standard_F8s		
General purpose Standard_B8ms		
High performance compute Standard_H16r		
Memory optimized Standard_E16s_v3		

Feature:

	▼
Receive side scaling (RSS)	
Remote Direct Memory Access (RDMA)	
Single root I/O virtualization (SR-IOV)	
Virtual Machine Multi-Queue (VMMQ)	

Answer:

Explanation:

Virtual machine size:

	▼
Compute optimized Standard_F8s	
General purpose Standard_B8ms	
High performance compute Standard_H16r	
Memory optimized Standard_E16s_v3	

Feature:

	▼
Receive side scaling (RSS)	
Remote Direct Memory Access (RDMA)	
Single root I/O virtualization (SR-IOV)	
Virtual Machine Multi-Queue (VMMQ)	

Explanation:

Graphical user interface, text, application Description automatically generated

Virtual machine size:

Compute optimized Standard_F8s

General purpose Standard_B8ms

High performance compute Standard_H16r

Memory optimized Standard_E16s_v3

Feature:

Receive side scaling (RSS)

Remote Direct Memory Access (RDMA)

Single root I/O virtualization (SR-IOV)

Virtual Machine Multi-Queue (VMMQ)

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series>

NEW QUESTION # 60

You need to recommend a solution that meets the application development requirements.

What should you include in the recommendation?

- A. the Azure App Configuration service
- B. Continuous Integration/Continuous Deployment (CI/CD) sources
- C. deployment slots
- D. an Azure Container Registry instance

Answer: C

Explanation:

Topic 4, HABInsurance

Case Study

An insurance company, HABInsurance, operates in three states and provides home, auto, and boat insurance. Besides the head office, HABInsurance has three regional offices.

Current environment

General

An insurance company, HABInsurance, operates in three states and provides home, auto, and boat insurance. Besides the head office, HABInsurance has three regional offices.

Technology assessment

The company has two Active Directory forests: main.habinsurance.com and region.habinsurance.com.

HABInsurance's primary internal system is Insurance Processing System (IPS). It is an ASP.Net/C# application running on IIS/Windows Servers hosted in a data center. IPS has three tiers: web, business logic API, and a datastore on a back end. The company uses Microsoft SQL Server and MongoDB for the backend.

The system has two parts: Customer data and Insurance forms and documents. Customer data is stored in Microsoft SQL Server and Insurance forms and documents-in MongoDB. The company also has 10 TB of Human Resources (HR) data stored on NAS at the head office location. Requirements General HABInsurance plans to migrate its workloads to Azure. They purchased an Azure subscription. Changes During a transition period, HABInsurance wants to create a hybrid identity model along with a Microsoft Office 365 deployment. The company intends to sync its AD forests to Azure AD and benefit from Azure AD administrative units functionality.

HABInsurance needs to migrate the current IPSCustomers SQL database to a new fully managed SQL database in Azure that would be budget-oriented, balanced with scalable compute and storage options. The management team expects the Azure database service to scale the database resources dynamically with minimal downtime. The technical team proposes implementing a DTU-based purchasing model for the new database.

HABInsurance wants to migrate Insurance forms and documents to Azure database service. HABInsurance plans to move IPS first two tiers to Azure without any modifications. The technology team discusses the possibility of running IPS tiers on a set of virtual machines instances. The number of instances should be adjusted automatically based on the CPU utilization. An SLA of 99.95% must be guaranteed for the compute infrastructure.

The company needs to move HR data to Azure File shares.

In their new Azure ecosystem, HABInsurance plans to use internal and third-party applications. The company considers adding user consent for data access to the registered applications. Later, the technology team contemplates adding a customer self-service portal to IPS and deploying a new IPS to multi-region ASK. But the management team is worried about performance and availability of the multi-region AKS deployments during regional outages.

NEW QUESTION # 61

Your company has 20 web APIs that were developed in-house.

The company is developing 10 web apps that will use the web APIs. The web apps and the APIs are registered in the company's Azure AD tenant. The web APIs are published by using Azure API Management.

You need to recommend a solution to block unauthorized requests originating from the web apps from reaching the web APIs. The solution must meet the following requirements:

- * Use Azure AD-generated claims.
- * Minimize configuration and management effort

What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

NOTE: Each correct selection is worth one point.

Answer Area

Grant permissions to allow the web apps to access the web APIs by using:

Azure AD

Azure AD

Azure API Management

The web APIs

Configure a JSON Web Token (JWT) validation policy by using:

Azure API Management

Azure AD

Azure API Management

The Web APIs

Answer:

Explanation:
Answer Area

 Microsoft

Grant permissions to allow the web apps to access the web APIs by using:

Azure AD

Azure AD

Azure API Management

The web APIs

Configure a JSON Web Token (JWT) validation policy by using:

Azure API Management

Azure AD

Azure API Management

The web APIs

Explanation:

Answer Area

Grant permissions to allow the web apps to access the web APIs by using: Azure AD

Configure a JSON Web Token (JWT) validation policy by using: Azure API Management

NEW QUESTION # 62

You need to design a storage solution for an app that will store large amounts of frequently used data. The solution must meet the following requirements:

Maximize data throughput.

Prevent the modification of data for one year.

Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Storage account type:

<input type="checkbox"/>	BlobStorage
<input type="checkbox"/>	BlockBlobStorage
<input type="checkbox"/>	FileStorage
<input type="checkbox"/>	StorageV2 with Premium performance
<input type="checkbox"/>	StorageV2 with Standard performance

Storage service:



<input type="checkbox"/>	Blob
<input type="checkbox"/>	File
<input type="checkbox"/>	Table

Answer:

Explanation:

Storage account type:



<input type="checkbox"/>	BlobStorage
<input checked="" type="checkbox"/>	BlockBlobStorage
<input type="checkbox"/>	FileStorage
<input type="checkbox"/>	StorageV2 with Premium performance
<input type="checkbox"/>	StorageV2 with Standard performance

Storage service:

<input type="checkbox"/>	Blob
<input type="checkbox"/>	File
<input type="checkbox"/>	Table

Explanation:

Box 1: BlockBlobStorage

Block Blob is a premium storage account type for block blobs and append blobs. Recommended for scenarios with high transaction rates, or scenarios that use smaller objects or require consistently low storage latency.

Box 2: Blob

The Archive tier is an offline tier for storing blob data that is rarely accessed. The Archive tier offers the lowest storage costs, but higher data retrieval costs and latency compared to the online tiers (Hot and Cool).

Data must remain in the Archive tier for at least 180 days or be subject to an early deletion charge.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/archive-blob>

NEW QUESTION # 63

You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the

recommendation?

- A. Use SQL Server transactional replication.
- B. Use Azure Site Recovery to replicate the SQL servers to Azure.
- C. Copy the BACPAC file that contains the Azure SQL database file to Azure Blob storage.
- D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage

Answer: D

Explanation:

Explanation

Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX).

Scenario: WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image>

NEW QUESTION # 64

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