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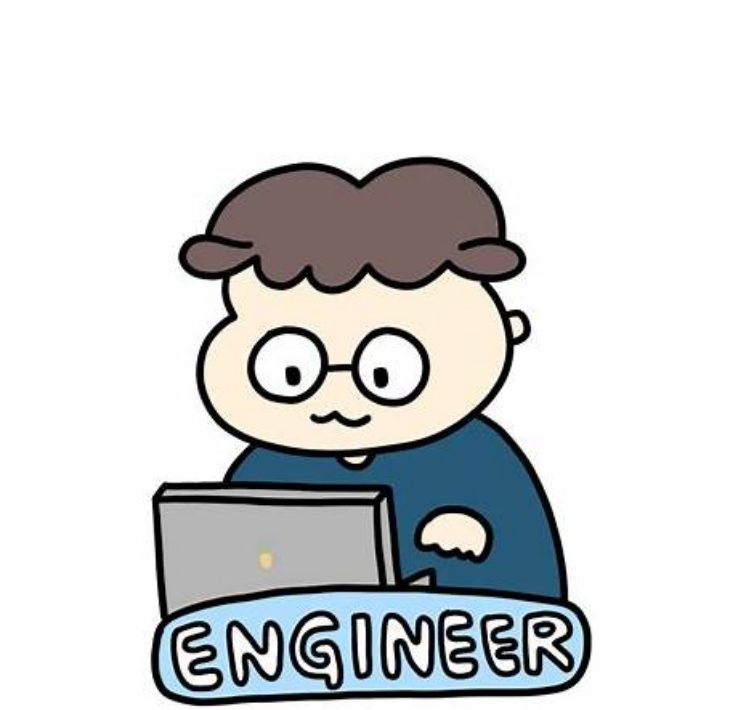

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Microsoft AZ-305 Exam is an important certification for IT professionals who want to specialize in designing Azure infrastructure solutions. It is one of the two exams needed to earn the Microsoft Certified: Azure Solutions Architect Expert certification. This credential is recognized globally and validates the ability of the certified professional to design and implement secure, reliable, and scalable solutions on the Azure cloud platform.

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Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q136-Q141):

NEW QUESTION # 136
You have an on-premises line-of-business (LOB) application that uses a Microsoft SQL Server instance as the backend.
You plan to migrate the on-premises SQL Server instance to Azure virtual machines.

You need to recommend a highly available SQL Server deployment that meets the following requirements:
- Minimizes costs
- Minimizes failover time if a single server fails
What should you include in the recommendation?

- A. an Always On availability group that has premium storage disks and a virtual network name (VNN)
- B. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a premium file share
- C. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a standard file share
- D. an Always On availability group that has premium storage disks and a distributed network name (DNN)

Answer: D

Explanation:
Always On availability groups on Azure Virtual Machines are similar to Always On availability groups on-premises, and rely on the underlying Windows Server Failover Cluster.
If you deploy your SQL Server VMs to a single subnet, you can configure a virtual network name (VNN) and an Azure Load Balancer, or a distributed network name (DNN) to route traffic to your availability group listener.
There are some behavior differences between the functionality of the VNN listener and DNN listener that are important to note:
* Failover time: Failover time is faster when using a DNN listener since there is no need to wait for the network load balancer to detect the failure event and change its routing.
* Etc.
Incorrect:
Not B, not D: Migrate to an Always On availability group, not an Always on Failover cluster Instance.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/availability-group- overview

NEW QUESTION # 137
You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:
The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.
Costs must be minimized.
What should you include in the solution?

- A. Azure Functions in the Consumption plan
- B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
- C. Azure Logic Apps in the Consumption plan
- D. Azure Logic Apps in the integrated service environment

Answer: A

Explanation:
When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.
For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance.
Connect to private endpoints with Azure Functions
As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message queues or event streams, or REST APIs.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale
https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p/1426615

NEW QUESTION # 138
How should the migrated databases DB1 and DB2 be implemented in Azure?

Answer:

Explanation:

Explanation:

Box 1: SQL Managed Instance
Scenario: Once migrated to Azure, DB1 and DB2 must meet the following requirements:
Maintain availability if two availability zones in the local Azure region fail.
Fail over automatically.
Minimize I/O latency.
The auto-failover groups feature allows you to manage the replication and failover of a group of databases on a server or all databases in a managed instance to another region. It is a declarative abstraction on top of the existing active geo-replication feature, designed to simplify deployment and management of geo-replicated databases at scale. You can initiate a geo-failover manually or you can delegate it to the Azure service based on a user-defined policy. The latter option allows you to automatically recover multiple related databases in a secondary region after a catastrophic failure or other unplanned event that results in full or partial loss of the SQL Database or SQL Managed Instance availability in the primary region.
Box 2: Business critical
SQL Managed Instance is available in two service tiers:
General purpose: Designed for applications with typical performance and I/O latency requirements.
Business critical: Designed for applications with low I/O latency requirements and minimal impact of underlying maintenance operations on the workload.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview
https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/sql-managed-instance-paas-overview

NEW QUESTION # 139
Your company has the divisions shown in the following table.

You plan to deploy a custom application to each subscription. The application will contain the following:
A resource group
An Azure web app
Custom role assignments
An Azure Cosmos DB account
You need to use Azure Blueprints to deploy the application to each subscription.
What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:
Box 1: 2
One management group for East, and one for West.
When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the blueprint is available to assign to any child subscription of that management group.
Box 2: 2
Box 3: 4
One assignment for each subscription.
"Assigning a blueprint definition to a management group means the assignment object exists at the management group. The deployment of artifacts still targets a subscription. To perform a management group assignment, the Create Or Update REST API must be used and the request body must include a value for properties.scope to define the target subscription."
https://docs.microsoft.com/en-us/azure/governance/blueprints/overview#blueprint-assignment

NEW QUESTION # 140
You have an Azure subscription named Subscription1 that is linked to a hybrid Azure Active Directory (Azure AD) tenant.
You have an on-premises datacenter that does have a VPN connection to Subscription1. The datacenter contains a computer named Server1 that has Microsoft SQL Server 2016 installed. Server1 is prevented from accessing the internet.
An Azure logic app named LogicApp1 requires write access to a database on Server1.
You need to recommend a solution to provide LogicApp1 with the ability to access Server1.
What should you recommend deploying on-premises and in Azure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation
Graphical user interface, text, application, chat or text message Description automatically generated

Box 1: An on-premises data gateway
For logic apps in global, multi-tenant Azure that connect to on-premises SQL Server, you need to have the on-premises data gateway installed on a local computer and a data gateway resource that's already created in Azure.
Box 2: A connection gateway resource
Reference:
https://docs.microsoft.com/en-us/azure/connectors/connectors-create-api-sqlazure

NEW QUESTION # 141
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