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Exam AZ-305: Designing Microsoft Azure Infrastructure Solutions

Languages: English, Japanese, Chinese (Simplified), Korean, German, French, Spanish, Portuguese (Brazil), Arabic (Saudi Arabia), Russian, Chinese (Traditional), Italian, Indonesian (Indonesia)

Retirement date: none

This exam measures your ability to accomplish the following technical tasks: design identity, governance, and monitoring solutions; design data storage solutions; design business continuity solutions; and design infrastructure solutions.

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Microsoft AZ-305 (Designing Microsoft Azure Infrastructure Solutions) certification exam is designed for IT professionals who want to validate their expertise in designing and implementing solutions on the Microsoft Azure platform. AZ-305 exam is intended for those who have a strong understanding of cloud computing principles and architecture, as well as experience with Azure services and solutions. Designing Microsoft Azure Infrastructure Solutions certification exam measures proficiency in identifying, designing, and deploying Azure infrastructure solutions, including compute, storage, networking, and security.

Microsoft AZ-305 (Designing Microsoft Azure Infrastructure Solutions) Certification Exam is designed for professionals who want to prove their expertise in designing and implementing solutions using Microsoft Azure. Designing Microsoft Azure Infrastructure Solutions certification exam validates the skills required to design, deploy, and manage Azure infrastructure solutions. Candidates for AZ-305 exam should have a solid understanding of Azure services, DevOps practices, security, compliance, and management.

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Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q425-Q430):

NEW QUESTION # 425

Case Study 2 - Fabrikam, Inc

Overview

Fabrikam, Inc. is an engineering company that has offices throughout Europe. The company has a main office in London and three branch offices in Amsterdam, Berlin, and Rome.

Existing Environment: Active Directory Environment

The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.

Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication.

Rd.fabrikam.com is used by the research and development (R&D) department only. The R&D department is restricted to using on-premises resources only.

Existing Environment: Network Infrastructure

Each office contains at least one domain controller from the corp.fabrikam.com domain. The main office contains all the domain

controllers for the rd.fabrikam.com forest.

All the offices have a high-speed connection to the internet.

An existing application named WebApp1 is hosted in the data center of the London office.

WebApp1 is used by customers to place and track orders. 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.

The IT department currently uses a separate Hyper-V environment to test updates to WebApp1.

Fabrikam purchases all Microsoft licenses through a Microsoft Enterprise Agreement that includes Software Assurance.

Existing Environment: Problem Statements

The use of WebApp1 is unpredictable. At peak times, users often report delays. At other times, many resources for WebApp1 are underutilized.

Requirements: Planned Changes

Fabrikam plans to move most of its production workloads to Azure during the next few years, including virtual machines that rely on Active Directory for authentication.

As one of its first projects, the company plans to establish a hybrid identity model, facilitating an upcoming Microsoft 365 deployment.

All R&D operations will remain on-premises.

Fabrikam plans to migrate the production and test instances of WebApp1 to Azure.

Requirements: Technical Requirements

Fabrikam identifies the following technical requirements:

- * Website content must be easily updated from a single point.
- * User input must be minimized when provisioning new web app instances.
- * Whenever possible, existing on-premises licenses must be used to reduce cost.
- * Users must always authenticate by using their corp.fabrikam.com UPN identity.
- * Any new deployments to Azure must be redundant in case an Azure region fails.
- * Whenever possible, solutions must be deployed to Azure by using the Standard pricing tier of Azure App Service.
- * An email distribution group named IT Support must be notified of any issues relating to the directory synchronization services.
- * In the event that a link fails between Azure and the on-premises network, ensure that the virtual machines hosted in Azure can authenticate to Active Directory.
- * Directory synchronization between Azure Active Directory (Azure AD) and corp.fabrikam.com must not be affected by a link failure between Azure and the on-premises network.

Requirements: Database Requirements

Fabrikam identifies the following database requirements:

- * Database metrics for the production instance of WebApp1 must be available for analysis so that database administrators can optimize the performance settings.
- * To avoid disrupting customer access, database downtime must be minimized when databases are migrated.
- * Database backups must be retained for a minimum of seven years to meet compliance requirements.

Requirements: Security Requirements

Fabrikam identifies the following security requirements:

- * Company information including policies, templates, and data must be inaccessible to anyone outside the company.
- * Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an internet link fails.
- * Administrators must be able to authenticate to the Azure portal by using their corp.fabrikam.com credentials.
- * All administrative access to the Azure portal must be secured by using multi-factor authentication (MFA).
- * The testing of WebApp1 updates must not be visible to anyone outside the company.

You need to recommend a solution to meet the database retention requirements.

What should you recommend?

- A. Configure Azure Site Recovery.
- B. Configure geo-replication of the database.
- **C. Configure a long-term retention policy for the database.**
- D. Use automatic Azure SQL Database backups.

Answer: C

Explanation:

In Azure SQL Database, you can configure a database with a long-term backup retention policy (LTR) to automatically retain the database backups in separate Azure Blob storage containers for up to 10 years.

<https://docs.microsoft.com/en-us/azure/azure-sql/database/long-term-retention-overview>

NEW QUESTION # 426

You have an on-premises named App 1.

Customers App1 to manage digital images.

You plan to migrate App1 to Azure.

You need to recommend a data storage solution for App1. The solution must meet the following image storage requirements:

* Encrypt images at rest.

* Allow files up to 50M

The screenshot shows the 'Services' list on the left with four options: Azure Blob storage, Azure Cosmos DB, Azure SQL Database, and Azure Table storage. The 'Answer Area' on the right has two fields: 'Image storage:' and 'Customer accounts:', both with a 'Service' dropdown menu. The Microsoft logo is visible in the background.

Answer:

Explanation:

The screenshot shows the 'Services' list on the left. The 'Answer Area' on the right has two fields: 'Image storage:' and 'Customer accounts:'. The 'Image storage:' field has 'Azure Blob storage' selected, and the 'Customer accounts:' field has 'Azure SQL Database' selected. The Microsoft logo is visible in the background.

Explanation:

The screenshot shows the 'Image storage:' field with 'Azure Blob storage' selected and the 'Customer accounts:' field with 'Azure SQL Database' selected. The Microsoft logo is visible in the background.

NEW QUESTION # 427

You plan to develop a new app that will store business critical data.

a. The app must meet the following requirements:

* Prevent new data from being modified for one year.

* Maximize data resiliency.

* Minimize read latency.

What storage solution should you recommend for the app? To answer, select the appropriate options in the answer area. NOTE:

Each correct selection is worth one point.

Answer Area

The screenshot shows the 'Storage Account type:' dropdown menu with three options: 'Standard general-purpose v1', 'Standard general-purpose v2', and 'Premium block blobs'. The 'Redundancy:' dropdown menu has three options: 'Zone-redundant storage (ZRS)', 'Locally-redundant storage (LRS)', and 'Read-access geo-redundant storage (RA-GRS)'. The Microsoft logo is visible in the background.

Answer:

Explanation:

Answer Area

Storage Account type:

- Standard general-purpose v1
- Standard general-purpose v2
- Premium block blobs

These are the selections for Storage Account type.

Redundancy:

- Zone-redundant storage (ZRS)
- Locally-redundant storage (LRS)
- Read-access geo-redundant storage (RA-GRS)

NEW QUESTION # 428

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 NOT 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.

On-premises:

- A Web Application Proxy for Windows Server
- An Azure AD Application Proxy connector
- An On-premises data gateway
- Hybrid Connection Manager

Azure:

- A connection gateway resource
- An Azure Application Gateway
- An Azure Event Grid domain
- An enterprise application

Answer:

Explanation:

On-premises:

- A Web Application Proxy for Windows Server
- An Azure AD Application Proxy connector
- An On-premises data gateway
- Hybrid Connection Manager

Azure:

- A connection gateway resource
- An Azure Application Gateway
- An Azure Event Grid domain
- An enterprise application

Reference:

<https://docs.microsoft.com/en-us/azure/connectors/connectors-create-api-sqlazure>

NEW QUESTION # 429

You plan to deploy an Azure App Service web app named App1 that will service users in a single geographical region. App1 will access a highly available database named DB1 that will be hosted on two Azure virtual machines named VM1 and VM2.

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

- * Uses Azure Web Application Firewall (WAF) to minimize the risk of a web-based attack against App1
- * Ensures that administrators can access VM1 and VM2 securely from the internet
- * Ensures that traffic from App1 to DB1 is NOT sent via the internet
- * Minimizes costs

What should you include in the recommendation for each requirement? To answer, select the appropriate options in the answer area.

Answer Area

Minimize the risk of a web-based attack against App1:

Provide administrative access to VM1 and VM2:

Provide App1 with access to DB1:

Answer:

Explanation:

Answer Area

Minimize the risk of a web-based attack against App1:

Provide administrative access to VM1 and VM2:

Provide App1 with access to DB1:

Explanation:

Answer Area

Minimize the risk of a web-based attack against App1:

Provide administrative access to VM1 and VM2:

Provide App1 with access to DB1:

NEW QUESTION # 430

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