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110 Practice questions with answers and explanations

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Microsoft AZ-305 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Design data storage solutions: In this section of the AZ-305 exam, candidates are tested for their know-how of designing data storage solutions after utilizing Azure's relational and non-relational data storage services.
Topic 2	<ul style="list-style-type: none">Design identity, governance, and monitoring solutions: This section focuses on your ability to design secure access controls, deploy governance practices, and establish viable monitoring strategies for Azure environments.
Topic 3	<ul style="list-style-type: none">Design infrastructure solutions: The section of this AZ-305 Exam covers topics such as designing infrastructure solutions. It also covers how to compute and perform networking inside Azure.
Topic 4	<ul style="list-style-type: none">Design business continuity solutions: This section of the exam evaluates the skills of individuals regarding designing Azure solutions for high availability, backups, and disaster recovery tasks.

Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q235-Q240):

NEW QUESTION # 235

You plan to deploy an Azure web app named App1 that will use Azure Active Directory (Azure AD) authentication.

App1 will be accessed from the internet by the users at your company. All the users have computers that run Windows 10 and are joined to Azure AD.

You need to recommend a solution to ensure that the users can connect to App1 without being prompted for authentication and can access App1 only from company-owned computers.

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

NOTE: Each correct selection is worth one point.

The users can connect to App1 without being prompted for authentication:

- An Azure AD app registration
- An Azure AD managed identity
- Azure AD Application Proxy

The users can access App1 only from company-owned computers:

- A conditional access policy
- An Azure AD administrative unit
- Azure Application Gateway
- Azure Blueprints
- Azure Policy

Answer:

Explanation:

The users can connect to App1 without being prompted for authentication:

- An Azure AD app registration
- An Azure AD managed identity
- Azure AD Application Proxy

The users can access App1 only from company-owned computers:

- A conditional access policy
- An Azure AD administrative unit
- Azure Application Gateway
- Azure Blueprints
- Azure Policy

Reference:

<https://codingcanvas.com/using-azure-active-directory-authentication-in-your-web-application/>

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview>

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/walkthrough-register-app-azure-active-directory#:~:text=Create%20an%20application%20registration%201%20Create%20an%20application,the%20options%20and%20click%20on%20Add%20permissions.%20>

"After consenting to use their Dataverse account with the ISV's application, end users can connect to Dataverse environment from external application. The consent form is not displayed again to other users after the first user who has already consented to use the ISV's app. Apps registered in Azure Active Directory are multi-tenant, which implies that other Dataverse users from other tenant can connect to their environment using the ISV's app."

NEW QUESTION # 236

You have an Azure subscription. The subscription contains 100 virtual machines that are Windows Servers.

You need to recommend a solution that will provide monitoring and an audit trail of the following modifications:

* Changes to the Windows registry on the virtual machines

* Changes to the DNS settings of the virtual machines

The solution must minimize administrative effort.

What should you recommend using for each change? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Windows registry changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

DNS settings changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

Answer:

Explanation:

Answer Area

Windows registry changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

DNS settings changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

Explanation:

Answer Area

Windows registry changes: Azure Automation Change Tracking

DNS settings changes: Azure Monitor Change Analysis

NEW QUESTION # 237

You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.

You need to use Azure Log Analytics design an alerting strategy for security-related events.

Which Log Analytics tables should you query? To answer, drag the appropriate tables to the correct log types.

Each value 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.

Tables

- AzureActivity
- AzureDiagnostics
- Event
- Syslog

Answer Area

Events from Windows event logs: Table

Events from Linux system logging: Table

Answer:

Explanation:

Tables

- AzureActivity
- AzureDiagnostics
- Event
- Syslog

Answer Area

Events from Windows event logs: Event

Events from Linux system logging: Syslog

Explanation:

Events from Windows event logs: Event

Events from Linux system logging: Syslog

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/log-analytics-agent> Windows Event logs --> Information sent to the Windows event logging system. Syslog --> Information sent to the Linux event logging system.

NEW QUESTION # 238

You are designing an application that will use Azure Linux virtual machines to analyze video files. The files will be uploaded from corporate offices that connect to Azure by using ExpressRoute.

You plan to provision an Azure Storage account to host the files.

You need to ensure that the storage account meets the following requirements:

- * Supports video files of up to 7 TB
 - * Provides the highest availability possible
 - * Ensures that storage is optimized for the large video files
 - * Ensures that files from the on-premises network are uploaded by using ExpressRoute
- How should you configure the storage account? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Storage account type: Premium file shares, Premium page blobs, Standard general-purpose v2

Data redundancy: Geo-redundant storage (GRS), Locally-redundant storage (LRS), Zone-redundant storage (ZRS)

Networking: Azure Route Server, A private endpoint, A service endpoint

These are the selections for Data redundancy

Answer:

Explanation:

Storage account type: Premium file shares

Data redundancy: Locally-redundant storage (LRS)

Networking: Azure Route Server

These are the selections for Data redundancy

Explanation:

Answer Area

Storage account type: Premium file shares

Data redundancy: Locally-redundant storage (LRS)

Networking: Azure Route Server

NEW QUESTION # 239

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

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

Answer: B

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>

Topic 1, Fabrikam, inc Case Study A

Overview:

Existing Environment

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.

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.

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.

Problem Statement:

The use of Web App1 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.

As one of its first projects, the company plans to establish a hybrid identity model, facilitating an upcoming Microsoft Office 365 deployment All R&D operations will remain

on-premises.

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

Technical Requirements:

Fabrikam identifies the following technical requirements:

- * Web site content must be easily updated from a single point.
- * User input must be minimized when provisioning new 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 platform as a service (PaaS).
- * An email distribution group named IT Support must be notified of any issues relating to the directory synchronization services.
- * 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.

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 requirement 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.
- * The testing of WebApp1 updates must not be visible to anyone outside the company.

NEW QUESTION # 240

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