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Passing the AZ-305 exam can open up several career opportunities for you, such as Azure solutions architect, cloud infrastructure architect, or cloud solutions architect. Designing Microsoft Azure Infrastructure Solutions certification can also help you demonstrate your expertise to potential employers and clients, making you a more valuable asset to any organization. Overall, the AZ-305 Certification Exam is an excellent way to validate your skills in designing Azure infrastructure solutions and take your career to the next level.

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Microsoft AZ-305 Exam is a certification exam that is designed to validate a candidate's knowledge and skills in designing Microsoft Azure infrastructure solutions. It is intended for individuals who have experience in designing and implementing solutions that run on Azure, and who are interested in obtaining the Microsoft Certified: Azure Solutions Architect Expert certification.

Microsoft Designing Microsoft Azure Infrastructure Solutions Sample

Questions (Q121-Q126):

NEW QUESTION # 121

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.

Answer:

Explanation:

Reference:

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

NEW QUESTION # 122

You have an Azure subscription. The subscription contains a tiered app named App1 that is distributed across multiple containers hosted in Azure Container Instances.

You need to deploy an Azure Monitor monitoring solution for App1. The solution must meet the following requirements:

- Support using synthetic transaction monitoring to simulate real user interactions and identify UI failures.

- Minimize development effort.

What two features can you include in the solution? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Container insights
- **B. Log Analytics Workspace Insights**
- C. Function App
- **D. Azure Monitor Application Insights**
- E. Azure Monitor Network Insights

Answer: B,D

Explanation:

[C]

Azure Monitor Application Insights supports synthetic transaction monitoring to simulate user interactions and identify UI failures by using availability tests and Playwright-based tests to verify functionality and performance from different locations globally. You can configure these tests to perform various actions, such as opening URLs and performing complex user workflows, which then generate telemetry to report availability, performance, and failures.

[A]

Log Analytics Workspace Insights is a feature within Azure Monitor that provides a unified, graphical view of your Log Analytics workspace's usage, performance, health, connected agents, query activity, and change log. It offers a centralized dashboard to help you monitor and understand your workspaces, enabling operational teams to track health, identify trends, and ensure continuous improvement of your log collection and monitoring strategy.

Reference:

<https://learn.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview>

<https://learn.microsoft.com/en-us/azure/azure-monitor/logs/log-analytics-workspace-insights-overview>

NEW QUESTION # 123

You have five .NET Core applications that run on 10 Azure virtual machines in the same subscription.

You need to recommend a solution to ensure that the applications can authenticate by using the same Azure Active Directory (Azure AD) identity. The solution must meet the following requirements:

* Ensure that the applications can authenticate only when running on the 10 virtual machines.

* Minimize administrative 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.

Answer:

Explanation:

Explanation

Graphical user interface, text, application, email Description automatically generated

NEW QUESTION # 124

You need to implement the Azure RBAC role assignments for the Network Contributor role. The solution must meet the authentication and authorization requirements.

What is the minimum number of assignments that you must use?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Answer: C

Explanation:

Explanation

Scenario: The Network Contributor built-in RBAC role must be used to grant permissions to the network administrators for all the virtual networks in all the Azure subscriptions.

RBAC roles must be applied at the highest level possible.

Topic 3, Contoso

Case Study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Existing Environment: Technical Environment

The on-premises network contains a single Active Directory domain named contoso.com.

Contoso has a single Azure subscription.

Existing Environment: Business Partnerships

Contoso has a business partnership with Fabrikam, Inc. Fabrikam users access some Contoso applications over the internet by using Azure Active Directory (Azure AD) guest accounts.

Requirements: Planned Changes

Contoso plans to deploy two applications named App1 and App2 to Azure.

Requirements: App1

App1 will be a Python web app hosted in Azure App Service that requires a Linux runtime. Users from Contoso and Fabrikam will access App1.

App1 will access several services that require third-party credentials and access strings. The credentials and access strings are stored in Azure Key Vault.

App1 will have six instances: three in the East US Azure region and three in the West Europe Azure region.

App1 has the following data requirements:

Each instance will write data to a data store in the same availability zone as the instance.

Data written by any App1 instance must be visible to all App1 instances.

App1 will only be accessible from the internet. App1 has the following connection requirements:

Connections to App1 must pass through a web application firewall (WAF).

Connections to App1 must be active-active load balanced between instances.

All connections to App1 from North America must be directed to the East US region. All other connections must be directed to the West Europe region.

Every hour, you will run a maintenance task by invoking a PowerShell script that copies files from all the App1 instances. The PowerShell script will run from a central location.

Requirements: App2

App2 will be a NET app hosted in App Service that requires a Windows runtime. App2 has the following file storage requirements:

Save files to an Azure Storage account.

Replicate files to an on-premises location.

Ensure that on-premises clients can read the files over the LAN by using the SMB protocol.

You need to monitor App2 to analyze how long it takes to perform different transactions within the application. The solution must not require changes to the application code.

Application Development Requirements

Application developers will constantly develop new versions of App1 and App2. The development process must meet the following requirements:

A staging instance of a new application version must be deployed to the application host before the new version is used in production.

After testing the new version, the staging version of the application will replace the production version.

The switch to the new application version from staging to production must occur without any downtime of the application.

Identity Requirements

Contoso identifies the following requirements for managing Fabrikam access to resources:

Every month, an account manager at Fabrikam must review which Fabrikam users have access permissions to App1. Accounts that no longer need permissions must be removed as guests.

The solution must minimize development effort.

SecurityRequirement

All secrets used by Azure services must be stored in Azure Key Vault.

Services that require credentials must have the credentials tied to the service instance. The credentials must NOT be shared between services.

NEW QUESTION # 125

You have an Azure subscription that contains a Basic Azure virtual WAN named VirtualWAN1 and the virtual hubs shown in the following table.

□ You have an ExpressRoute circuit in the US East region.

You need to create an ExpressRoute association to VirtualWAN1.

What should you do first?

- A. Enable the ExpressRoute premium add-on.
- **B. Upgrade VirtualWAN1 to Standard.**
- C. Create a hub virtual network in US East.
- D. Create a gateway on Hub1.

Answer: B

Explanation:

Explanation

US East and US West are in the same geopolitical region so there is no need for enabling ExpressRoute premium add-on

<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about#basicstandard> The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic to standard.

<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>

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NEW QUESTION # 126

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