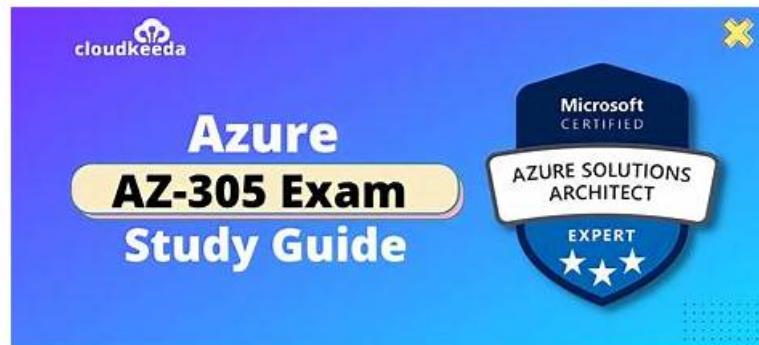


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The Microsoft AZ-305 exam covers a wide range of topics, including Azure compute, storage, networking, security, and monitoring. It also tests the candidate's ability to design and implement solutions that meet business and technical requirements, as well as their knowledge of Azure services and their integration with other Microsoft technologies.

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Microsoft AZ-305 New Practice Questions, AZ-305 Sample Exam

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Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q333-Q338):

NEW QUESTION # 333

Case Study 3 - Contoso

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.

Security Requirement

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.

You need to recommend an App Service architecture that meets the requirements for App1.

The solution must minimize costs.

What should you recommend?

- A. one App Service plan per availability zone
- **B. one App Service plan per region**
- C. one App Service Environment (ASE) per availability zone
- D. one App Service Environment (ASE) per region

Answer: B

Explanation:

No need for dedicated environment. So Azure Service Plan per region is enough.

NEW QUESTION # 334

Your company deploys several Linux and Windows virtual machines (VMs) to Azure. The VMs are deployed with the Microsoft Dependency Agent and the Microsoft Monitoring Agent installed by using Azure VM extensions. On-premises connectivity has been enabled by using Azure ExpressRoute.

You need to design a solution to monitor the VMs.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

□ Explanation

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

□ Box 1: Azure Network Watcher

Traffic Analytics is a cloud-based solution that provides visibility into user and application activity in cloud networks. Traffic analytics analyzes Network Watcher network security group (NSG) flow logs to provide insights into traffic flow in your Azure cloud. With traffic analytics, you can:

Identify security threats to, and secure your network, with information such as open-ports, applications attempting internet access, and virtual machines (VM) connecting to rogue networks.

Visualize network activity across your Azure subscriptions and identify hot spots.

Understand traffic flow patterns across Azure regions and the internet to optimize your network deployment for performance and capacity.

Pinpoint network misconfigurations leading to failed connections in your network.

Box 2: Azure Service Map

Service Map automatically discovers application components on Windows and Linux systems and maps the communication between services. With Service Map, you can view your servers in the way that you think of them: as interconnected systems that deliver critical services. Service Map shows connections between servers, processes, inbound and outbound connection latency, and ports across any TCP-connected architecture, with no configuration required other than the installation of an agent.

Reference:

<https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics>

<https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map>

NEW QUESTION # 335

You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The data set is less than 10 GB.

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

* All the data written to storage must be retained for five years.

* Once the data is written, the data can only be read. Modifications and deletion must be prevented.

* After five years, the data can be deleted, but never modified.

* Data access charges must be minimized

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

□ Explanation:

□ Box 1: General purpose v2 with Archive access tier for blobs

Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements, on the order of hours.

Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days.

Hot - Optimized for storing data that is accessed frequently.

Box 2: Storage account resource lock

As an administrator, you can lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. The lock overrides any permissions the user might have.

Note: You can set the lock level to CanNotDelete or ReadOnly. In the portal, the locks are called Delete and Read-only respectively.

* CanNotDelete means authorized users can still read and modify a resource, but they can't delete the resource.

* ReadOnly means authorized users can read a resource, but they can't delete or update the resource.

Applying this lock is similar to restricting all authorized users to the permissions granted by the Reader role.

Reference:

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

NEW QUESTION # 336

A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders.

The API must meet the following requirements:

Implement Azure Functions

Provide public read-only operations

Do not allow write operations

You need to recommend configuration options.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

□ Explanation

Graphical user interface, table Description automatically generated

□ Allowed authentication methods: GET only

Authorization level: Anonymous

The option is Allow Anonymous requests. This option turns on authentication and authorization in App Service, but defers authorization decisions to your application code. For authenticated requests, App Service also passes along authentication information in the HTTP headers.

This option provides more flexibility in handling anonymous requests.

References:

<https://docs.microsoft.com/en-us/azure/app-service/overview-authentication-authorization>

NEW QUESTION # 337

Hotspot Question

You have a Microsoft Entra tenant that uses Microsoft Entra Connect Sync to sync with an on-premises Active Directory Domain Services (AD DS) domain. The domain contains several member servers.

You have a custom human resources (HR) application named App1 that stores employee records.

You are designing a solution to automate the management of user accounts. The solution must meet the following requirements:

- When employees are added to App1, the user accounts of the employee1 must be provisioned to the AD DS domain and the Microsoft Entra tenant automatically.

- New employee records must be read from a CSV file that is exported from App1 daily.

You need to recommend a Microsoft Entra Identity Governance provisioning method and a target endpoint for creating new user accounts.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

□ Explanation:

Box 1: The Extensible Connectivity (ECMA) connector

The Extensible Connectivity (ECMA) Connector host acts as a gateway between Microsoft Entra ID and on-premises applications, converting provisioning requests from Microsoft Entra ID into requests for the target application. It's a crucial component for enabling automated user provisioning into applications that don't natively support protocols like SCIM, LDAP, or SQL.

Box 2: An SCIM endpoint

The Microsoft Entra Extensible Connectivity (ECMA) connector can utilize a SCIM endpoint for application provisioning. In fact, the ECMA connector can be used to connect to applications that don't directly support SCIM, allowing you to leverage existing ECMA connectors that were built for Microsoft Identity Manager (MIM).

Reference:

<https://learn.microsoft.com/en-us/entra/identity/app-provisioning/on-premises-application-provisioning-architecture>

NEW QUESTION # 338

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