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## Microsoft Cybersecurity Architect Sample Questions (Q77-Q82):

### NEW QUESTION # 77

You are designing the encryption standards for data at rest for an Azure resource. You need to provide recommendations to ensure that the data at rest is encrypted by using AES-256 keys. The solution must support rotating the encryption keys monthly.

Solution: For blob containers in Azure Storage, you recommend encryption that uses customer-managed keys (CMKs).

Does this meet the goal?

- A. Yes
- B. No

Answer: A

**NEW QUESTION # 78**

You need to recommend a solution to meet the AWS requirements.

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.

The screenshot shows an 'Answer Area' with two dropdown menus. The first menu is labeled 'For the AWS EC2 instances:' and the second is labeled 'For the AWS service logs:'. Both menus have the same list of options: Azure Blueprints, Defender for Cloud, Microsoft Defender for Cloud Apps, Microsoft Defender for servers, Microsoft Endpoint Manager, and Microsoft Sentinel. A large 'testking.com' watermark is visible across the center of the image.

Answer:

Explanation:

This screenshot is identical to the previous one, but with two red boxes highlighting the selected options. In the 'For the AWS EC2 instances:' dropdown, 'Defender for Cloud' is selected. In the 'For the AWS service logs:' dropdown, 'Microsoft Sentinel' is selected. The 'testking.com' watermark is also present.

**NEW QUESTION # 79**

You have an Azure subscription that contains a resources group named RG1. RG1 contains multiple Azure Files shares.

You need to recommend a solution to deploy a backup solution for the shares. The solution must meet the following requirements:

- \* Prevent the deletion of backups and the vault used to store the backups.
- \* Prevent privilege escalation attacks against the backup solution.
- \* Prevent the modification of the backup retention period.

Which three actions should you recommend be performed in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
<input type="checkbox"/> Create an Azure Backup vault.	
<input type="checkbox"/> From RG1, create a resource lock.	
<input type="checkbox"/> Create a Recovery Services vault.	
<input type="checkbox"/> Enable vault immutability.	
<input type="checkbox"/> Lock immutability for the vault.	

**Answer:**

Explanation:

Actions	Answer Area
<input type="checkbox"/> Create an Azure Backup vault.	<input type="checkbox"/> Create a Recovery Services vault.
<input type="checkbox"/> From RG1, create a resource lock.	<input type="checkbox"/> Enable vault immutability.
<input type="checkbox"/> Create a Recovery Services vault.	<input type="checkbox"/> Lock immutability for the vault.
<input type="checkbox"/> Enable vault immutability.	
<input type="checkbox"/> Lock immutability for the vault.	

### NEW QUESTION # 80

Azure subscription that uses Azure Storage.

The company plans to share specific blobs with vendors. You need to recommend a solution to provide the vendors with secure access to specific blobs without exposing the blobs publicly. The access must be time-limited. What should you include in the recommendation?

- A. Create shared access signatures (SAS).
- B. Share the connection string of the access key.
- **C. Configure encryption by using customer-managed keys (CMKs).**
- D. Configure private link connections.

**Answer: C**

Explanation:

Topic 2, Fabrikam, Inc

On-premises Environment

The on-premises network contains a single Active Directory Domain Services (AD DS) domain named corp.fabrikam.com.

Azure Environment

Fabrikam has the following Azure resources:

- \* An Azure Active Directory (Azure AD) tenant named fabrikam.onmicrosoft.com that syncs with corp.fabrikam.com
- \* A single Azure subscription named Sub1
- \* A virtual network named Vnet1 in the East US Azure region
- \* A virtual network named Vnet2 in the West Europe Azure region
- \* An instance of Azure Front Door named FD1 that has Azure Web Application Firewall (WAR) enabled
- \* A Microsoft Sentinel workspace
- \* An Azure SQL database named ClaimsDB that contains a table named ClaimDetails
- \* 20 virtual machines that are configured as application servers and are NOT onboarded to Microsoft Defender for Cloud
- \* A resource group named TestRG that is used for testing purposes only

\* An Azure Virtual Desktop host pool that contains personal assigned session hosts All the resources in Sub1 are in either the East US or the West Europe region.

#### Partners

Fabrikam has contracted a company named Contoso, Ltd. to develop applications. Contoso has the following infrastructure-

\* An Azure AD tenant named contoso.onmicrosoft.com

\* An Amazon Web Services (AWS) implementation named ContosoAWS1 that contains AWS EC2 instances used to host test workloads for the applications of Fabrikam Developers at Contoso will connect to the resources of Fabrikam to test or update applications. The developers will be added to a security Group named Contoso Developers in fabrikam.onmicrosoft.com that will be assigned to roles in Sub1.

The ContosoDevelopers group is assigned the db.owner role for the ClaimsDB database.

#### Compliance Event

Fabrikam deploys the following compliance environment:

\* Defender for Cloud is configured to assess all the resources in Sub1 for compliance to the HIPAA HITRUST standard.

\* Currently, resources that are noncompliant with the HIPAA HITRUST standard are remediated manually.

\* Qualys is used as the standard vulnerability assessment tool for servers.

#### Problem Statements

The secure score in Defender for Cloud shows that all the virtual machines generate the following recommendation-. Machines should have a vulnerability assessment solution.

All the virtual machines must be compliant in Defender for Cloud.

#### ClaimApp Deployment

Fabrikam plans to implement an internet-accessible application named ClaimsApp that will have the following specification

\* ClaimsApp will be deployed to Azure App Service instances that connect to Vnet1 and Vnet2.

\* Users will connect to ClaimsApp by using a URL of <https://claims.fabrikam.com>.

\* ClaimsApp will access data in ClaimsDB.

\* ClaimsDB must be accessible only from Azure virtual networks.

\* The app services permission for ClaimsApp must be assigned to ClaimsDB.

#### Application Development Requirements

Fabrikam identifies the following requirements for application development:

\* Azure DevTest labs will be used by developers for testing.

\* All the application code must be stored in GitHub Enterprise.

\* Azure Pipelines will be used to manage application deployments.

\* All application code changes must be scanned for security vulnerabilities, including application code or configuration files that contain secrets in clear text. Scanning must be done at the time the code is pushed to a repository.

#### Security Requirement

Fabrikam identifies the following security requirements:

\* Internet-accessible applications must prevent connections that originate in North Korea.

\* Only members of a group named InfraSec must be allowed to configure network security groups (NSGs) and instances of Azure Firewall, VJM. And Front Door in Sub1.

\* Administrators must connect to a secure host to perform any remote administration of the virtual machines. The secure host must be provisioned from a custom operating system image.

#### AWS Requirements

Fabrikam identifies the following security requirements for the data hosted in ContosoAWSV.

\* Notify security administrators at Fabrikam if any AWS EC2 instances are noncompliant with secure score recommendations.

\* Ensure that the security administrators can query AWS service logs directly from the Azure environment.

#### Contoso Developer Requirements

Fabrikam identifies the following requirements for the Contoso developers;

\* Every month, the membership of the ContosoDevelopers group must be verified.

\* The Contoso developers must use their existing contoso.onmicrosoft.com credentials to access the resources in Sub1.

\* The Comoro developers must be prevented from viewing the data in a column named MedicalHistory in the ClaimDetails table.

#### Compliance Requirement

Fabrikam wants to automatically remediate the virtual machines in Sub1 to be compliant with the HIPAA HITRUST standard. The virtual machines in TestRG must be excluded from the compliance assessment.

## NEW QUESTION # 81

You are creating an application lifecycle management process based on the Microsoft Security Development Lifecycle (SDL).

You need to recommend a security standard for onboarding applications to Azure. The standard will include recommendations for application design, development, and deployment

What should you include during the application design phase?

