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Skills measured

- Design a Zero Trust strategy and architecture (30–35%)
- Evaluate Governance Risk Compliance (GRC) technical strategies and security operations strategies (20–25%)
- Download the study guide in the preceding “Tip” box for more details about the skills measured on this exam.
- Design a strategy for data and applications (20–25%)
- Design security for infrastructure (20–25%)

Microsoft SC-100, also known as the Microsoft Cybersecurity Architect certification exam, is designed for cybersecurity professionals who want to validate their expertise in designing and implementing secure solutions on Microsoft Azure. Microsoft Cybersecurity Architect certification is a great way to boost your cybersecurity career and demonstrate your knowledge and skills to potential employers. SC-100 Exam covers a wide range of topics, including identity and access management, network security, platform protection, and data and application protection.

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Microsoft Cybersecurity Architect Sample Questions (Q102-Q107):

NEW QUESTION # 102

Your company plans to follow DevSecOps best practices of the Microsoft Cloud Adoption Framework for Azure to integrate DevSecOps processes into continuous integration and continuous deployment (CI/CD) DevOps pipelines. You need to recommend which security-related tasks to integrate into each stage of the DevOps pipelines.

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

NOTE: Each correct selection is worth one point.

□

Answer:

Explanation:

□

NEW QUESTION # 103

What should you create in Azure AD to meet the Contoso developer requirements?

□

Answer:

Explanation:

□
Topic 2, Litware, inc. Case Study 2

Overview

Litware, inc. is a financial services company that has main offices in New York and San Francisco. Litware has 30 branch offices and remote employees across the United States. The remote employees connect to the main offices by using a VPN.

Litware has grown significantly during the last two years due to mergers and acquisitions. The acquisitions include several companies based in France.

Existing Environment

Litware has an Azure Active Directory (Azure AD) tenant that syncs with an Active Directory Domain Services (AD DS) forest named Utvware.com and is linked to 20 Azure subscriptions. Azure AD Connect is used to implement pass-through authentication. Password hash synchronization is disabled, and password writeback is enabled. All Litware users have Microsoft 365 E5 licenses. The environment also includes several AD DS forests, Azure AD tenants, and hundreds of Azure subscriptions that belong to the subsidiaries of Litware.

Planned Changes

Litware plans to implement the following changes:

- * Create a management group hierarchy for each Azure AD tenant.
- * Design a landing zone strategy to refactor the existing Azure environment of Litware and deploy all future Azure workloads.
- * Implement Azure AD Application Proxy to provide secure access to internal applications that are currently accessed by using the VPN.

Business Requirements

Litware identifies the following business requirements:

- * Minimize any additional on-premises infrastructure.
- * Minimize the operational costs associated with administrative overhead.

Hybrid Requirements

Litware identifies the following hybrid cloud requirements:

- * Enable the management of on-premises resources from Azure, including the following:
- * Use Azure Policy for enforcement and compliance evaluation.
- * Provide change tracking and asset inventory.
- * Implement patch management.
- * Provide centralized, cross-tenant subscription management without the overhead of maintaining guest accounts.

Microsoft Sentinel Requirements

Litware plans to leverage the security information and event management (SIEM) and security orchestration automated response (SOAR) capabilities of Microsoft Sentinel. The company wants to centralize Security Operations Center (SOC) by using Microsoft Sentinel.

Identity Requirements

Litware identifies the following identity requirements:

- * Detect brute force attacks that directly target AD DS user accounts.
- * Implement leaked credential detection in the Azure AD tenant of Litware.
- * Prevent AD DS user accounts from being locked out by brute force attacks that target Azure AD user accounts.
- * Implement delegated management of users and groups in the Azure AD tenant of Litware, including support for:
- * The management of group properties, membership, and licensing
- * The management of user properties, passwords, and licensing
- * The delegation of user management based on business units.

Regulatory Compliance Requirements

Litware identifies the following regulatory compliance requirements:

- * Insure data residency compliance when collecting logs, telemetry, and data owned by each United States- and France-based subsidiary.
- * Leverage built-in Azure Policy definitions to evaluate regulatory compliance across the entire managed environment.
- * Use the principle of least privilege.

Azure Landing Zone Requirements

Litware identifies the following landing zone requirements:

- * Route all internet-bound traffic from landing zones through Azure Firewall in a dedicated Azure subscription.
- * Provide a secure score scoped to the landing zone.
- * Ensure that the Azure virtual machines in each landing zone communicate with Azure App Service web apps in the same zone over the Microsoft backbone network, rather than over public endpoints.
- * Minimize the possibility of data exfiltration.
- * Maximize network bandwidth.

The landing zone architecture will include the dedicated subscription, which will serve as the hub for internet and hybrid connectivity.

Each landing zone will have the following characteristics:

- * Be created in a dedicated subscription.
- * Use a DNS namespace of litware.com.

Application Security Requirements

Litware identifies the following application security requirements:

- * Identify internal applications that will support single sign-on (SSO) by using Azure AD Application Proxy.
- * Monitor and control access to Microsoft SharePoint Online and Exchange Online data in real time.

NEW QUESTION # 104

You have an Azure subscription that contains multiple storage accounts. The accounts contain Azure Files shares and Azure Blob Storage containers. The accounts have encryption scopes and infrastructure encryption enabled.

You need to implement customer-managed key-based encryption for the shares and the containers. The solution must ensure that the encryption keys are applied at the most granular level.

At which level should you apply the encryption keys? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 105

You have an Azure subscription that contains a Microsoft Sentinel workspace.

Your on-premises network contains firewalls that support forwarding event logs in the Common Event Format (CEF). There is no built-in Microsoft Sentinel connector for the firewalls. You need to recommend a solution to ingest events from the firewalls into Microsoft Sentinel.

What should you include in the recommendation?

- A. an Azure logic app
- B. Azure Data Factory
- C. an on-premises data gateway
- **D. an on-premises Syslog server**

Answer: D

Explanation:

Topic 2, Fabrikam, Inc Case Study 1

Overview

Fabrikam, Inc. is an insurance company that has a main office in New York and a branch office in Paris.

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 (WAF) 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 HIPPA HITRUST standard. The virtual machines in TestRG must be excluded from the compliance assessment.

NEW QUESTION # 106

You have a Microsoft 365 E5 subscription and an Azure subscription. You need to evaluate the existing environment to increase the overall security posture for the following components:

- * Windows 11 devices managed by Microsoft Intune
- * Azure Storage accounts
- * Azure virtual machines

What should you use to evaluate the components? To answer, select the appropriate options in the answer area.

Answer:

Explanation:

Explanation

NEW QUESTION # 107

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