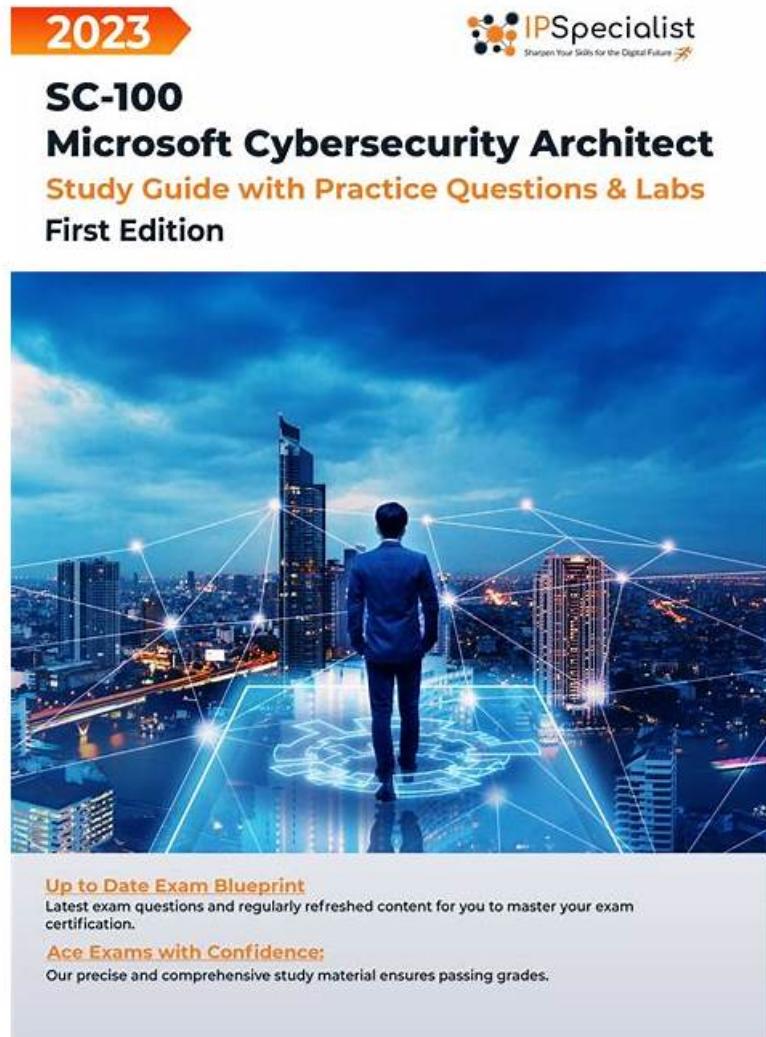


Microsoft SC-100試験は簡単に有効するSC-100関連受験参考書: Microsoft Cybersecurity Architect



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Microsoft Cybersecurity Architect 認定 SC-100 試験問題 (Q259-Q264):

質問 # 259

You are creating the security recommendations for an Azure App Service web app named App1.

App1 has the following specifications:

- * Users will request access to App1 through the My Apps portal. A human resources manager will approve the requests.
- * Users will authenticate by using Azure Active Directory (Azure AD) user accounts.

You need to recommend an access security architecture for App1.

What should you include in the recommendation? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection is worth one point.

正解:

解説:

質問 # 260

Your company has a multi-cloud environment that contains a Microsoft 365 subscription, an Azure subscription, and Amazon Web Services (AWS) implementation. You need to recommend a security posture management solution for the following components:

- * Azure IoT Edge devices
- * AWS EC2 instances

Which services should you include in the recommendation? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection is worth one point.

正解:

解説:

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 (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 Dev/Test 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.

質問 # 261

You use Azure Pipelines with Azure Repos to implement continuous integration and continuous deployment (CI/CD) workflows. You need to recommend best practices to secure the stages of the CI/CD workflows based on the Microsoft Cloud Adoption Framework for Azure.

What should you include in the recommendation for each stage? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

正解:

解説:

Explanation:

質問 # 262

Case Study 2 - Litware, inc.

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 a Microsoft Entra tenant that syncs with an Active Directory Domain Services (AD DS) forest named litware.com and is linked to 20 Azure subscriptions. Microsoft Entra 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, Microsoft Entra tenants, and hundreds of Azure subscriptions that belong to the subsidiaries of Litware.

Requirements. Planned Changes

Litware plans to implement the following changes:

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

Requirements. Business Requirements

Litware identifies the following business requirements:

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

Requirements. Hybrid Requirements

Litware identifies the following hybrid cloud requirements:

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

Requirements. 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.

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

Requirements. Regulatory Compliance Requirements

Litware identifies the following regulatory compliance requirements:

- Ensure 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.

Requirements. 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.

Requirements. Application Security Requirements

Litware identifies the following application security requirements:

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

You need to design a strategy for securing the SharePoint Online and Exchange Online data. The solution must meet the application security requirements.

Which two services should you leverage in the strategy? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Microsoft Entra Conditional Access
- B. Microsoft Defender for Endpoint
- C. Microsoft Entra Access Review
- D. Microsoft Defender for Cloud Apps
- E. Microsoft Defender for Cloud

正解: A, D

解説:

Access Reviews are not relevant here.

Monitor real-time needs Conditional Access & Defender for Cloud Apps.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/concept-conditional-access-session#conditional-access-application-control>

<https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-integrate-with-microsoft-cloud-application-security>

質問 # 263

You have a hybrid cloud infrastructure.

You plan to deploy the Azure applications shown in the following table.

- What should you use to meet the requirement of each app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

正解:

解説:

Explanation

Text Description automatically generated with medium confidence

質問 # 264

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