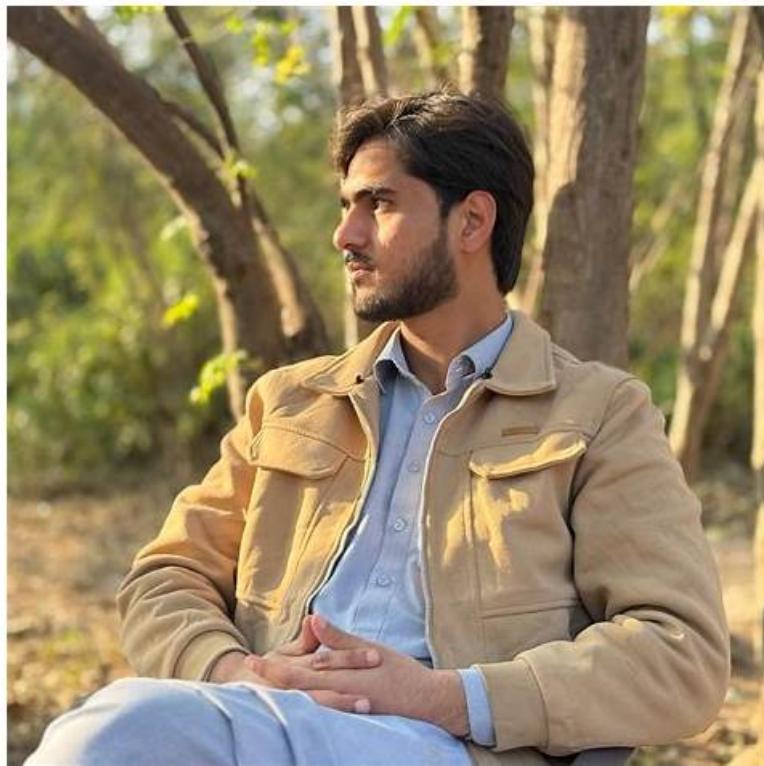


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Microsoft SC-100 Exam consists of multiple-choice questions and performance-based scenarios that test the candidate's understanding of the cybersecurity architecture principles and practices. SC-100 exam covers topics such as identity and access management, threat protection, data and application protection, security management, and compliance. Passing SC-100 Exam demonstrates that the candidate has the necessary skills and knowledge to design and implement secure solutions on Microsoft platforms, and it can help professionals advance their career in the cybersecurity field.

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Microsoft Cybersecurity Architect Sample Questions (Q245-Q250):

NEW QUESTION # 245

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.

Hotspot Question

You need to recommend a strategy for App Service web app connectivity. The solution must meet the landing zone requirements.

What should you recommend? To answer, select the appropriate options in the answer area.
NOTE Each correct selection is worth one point.

Answer Area

For connectivity from App Service web apps to virtual machines, use:

Private endpoints
Service endpoints
Virtual network integration

For connectivity from virtual machines to App Service web apps, use:

Private endpoints
Service endpoints
Virtual network integration



Answer:

Explanation:

Answer Area



For connectivity from App Service web apps to virtual machines, use:

Private endpoints
Service endpoints
Virtual network integration

For connectivity from virtual machines to App Service web apps, use:

Private endpoints
Service endpoints
Virtual network integration

Explanation:

Box 1: Virtual Network Integration

Virtual network integration gives your app access to resources in your virtual network, but it doesn't grant inbound private access to your app from the virtual network.

Box 2: Private Endpoints

You can use Private Endpoint for your Azure Web App to allow clients located in your private network to securely access the app over Private Link.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/overview-vnet-integration>
<https://docs.microsoft.com/en-us/azure/private-link/tutorial-private-endpoint-webapp-portal>

NEW QUESTION # 246

Hotspot Question

You need to recommend a security methodology for a DevOps development process based on the Microsoft Cloud Adoption Framework for Azure.

During which stage of a continuous integration and continuous deployment (CI/CD) DevOps process should each security-related task be performed? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

ANSWER AREA

Microsoft

Threat modeling:

- Build and test
- Commit the code
- Go to production
- Operate
- Plan and develop

Actionable intelligence:

- Build and test
- Commit the code
- Go to production
- Operate
- Plan and develop

Dynamic application security testing (DAST):

- Build and test
- Commit the code
- Go to production
- Operate
- Plan and develop

Answer:

Explanation:

ANSWER AREA

Microsoft

Threat modeling:

- Build and test
- Commit the code
- Go to production
- Operate
- Plan and develop

Actionable intelligence:

- Build and test
- Commit the code
- Go to production
- Operate
- Plan and develop

Dynamic application security testing (DAST):

- Build and test
- Commit the code
- Go to production
- Operate
- Plan and develop

Explanation:

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/secure/devsecops-controls>

NEW QUESTION # 247

You need to recommend a solution to resolve the virtual machine issue. What should you include in the recommendation? (Choose Two)

- A. Onboard the virtual machines to Microsoft Defender for Endpoint.
- B. Create a device compliance policy in Microsoft Endpoint Manager.
- C. Enable the Qualys scanner in Defender for Cloud.
- D. Onboard the virtual machines to Azure Arc.

Answer: A,B

Explanation:

<https://docs.microsoft.com/en-us/microsoft-365/security/defender-endpoint/switch-to-mde-phase-3?view=o365-worldwide>

NEW QUESTION # 248

Your company has the virtual machine infrastructure shown in the following table.

Operation system	Location	Number of virtual machines	Hypervisor
Linux	On-premises	100	VMWare vSphere
Windows Server	On-premises	100	Hyper-V

The company plans to use Microsoft Azure Backup Server (MABS) to back up the virtual machines to Azure.

You need to provide recommendations to increase the resiliency of the backup strategy to mitigate attacks such as ransomware. What should you include in the recommendation?

- A. Require PINs to disable backups.
- B. Use geo-redundant storage (GRS).
- C. Use customer-managed keys (CMKs) for encryption.
- D. Implement Azure Site Recovery replication.

Answer: A

Explanation:

Explanation

<https://docs.microsoft.com/en-us/azure/security/fundamentals/backup-plan-to-protect-against-ransomware#azure>

NEW QUESTION # 249

You need to recommend a strategy for securing the litware.com forest. The solution must meet the identity requirements. 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.

For Azure AD-targeted threats:	Azure AD Identity Protection Azure AD Password Protection Microsoft Defender for Cloud
For AD DS-targeted threats:	An account lockout policy in AD DS Microsoft Defender for Endpoint Microsoft Defender for Identity

Answer:

Explanation:

For Azure AD-targeted threats:

Azure AD Identity Protection

For AD DS-targeted threats

An account lockout policy in AD DS
Microsoft Defender for Endpoint
Microsoft Defender for Identity

NEW QUESTION # 250

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