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Cisco Designing Cisco Security Infrastructure Sample Questions (Q63-Q68):

NEW QUESTION # 63

Considering recent cybersecurity threats, a company wants to improve the process for identifying, assessing, and managing risks with a comprehensive and holistic approach. Which framework must be used to meet these requirements?

- A. HIPPA
- B. MITRE CAPEC
- C. NIST SP 800-37
- D. GDPR

Answer: C

Explanation:

NIST SP 800-37 provides the Risk Management Framework (RMF), which establishes a structured process for identifying, assessing, and managing cybersecurity risks. It offers a comprehensive and holistic approach, integrating security and risk management activities into the system development life cycle, making it the appropriate framework for this requirement.

NEW QUESTION # 64

An IT company operates an application in a SaaS model. The administrative tasks, such as customer onboarding, within the application must be restricted to users who are on the corporate network where admins can access those functions via a web browser or a smartphone application. Which application technology must be used to provide granular control based on function?

- A. VPC
- B. security group
- C. Service Mesh
- D. RBAC

Answer: D

Explanation:

The requirement to restrict administrative tasks like "customer onboarding" to specific users based on their job function is a classic use case for Role-Based Access Control (RBAC). In the context of application security design, RBAC is the mechanism that maps a user's identity to a specific set of permissions within the application.

According to Cisco Security Infrastructure principles, RBAC ensures the principle of least privilege by ensuring that an "Admin" role has access to onboarding functions, while a "Support" or "Standard User" role does not. This control is independent of the network layer and is enforced at the application or identity provider level. While a VPC (Option A) or Security Groups (Option C) provide network-layer isolation and can ensure the user is on the corporate network (by filtering IP ranges), they cannot distinguish between different functions or actions performed within the application once the connection is established. A Service Mesh (Option D) is used for microservices communication and can provide some authorization, but RBAC is the primary architectural approach for defining "who can do what" within an application interface.

Implementing RBAC allows the SaaS provider to secure sensitive administrative workflows, ensuring that only authorized personnel can modify customer data or system configurations.

NEW QUESTION # 65

Refer to the exhibit. In addition to SSL decryption, which firewall feature allows malware to be blocked?

- A. DLP
- B. SSL Offloading
- C. File Inspection
- D. URL Filtering

Answer: C

Explanation:

In the exhibit, SSL decryption is already enabled, which allows encrypted traffic to be inspected.

To block malware hidden within decrypted traffic, the next required feature is File Inspection. This function analyzes files passing through the firewall to detect and stop malicious content.

NEW QUESTION # 66

A financial company is in the process of upgrading network access across the entire company.

The solution must ensure:

- least privilege access
- control access across different network segments
- increased security for employers

Which solution approach must the company take?

- A. SNMP
- B. PKI
- C. NetFlow
- **D. RBAC**

Answer: D

Explanation:

Role-Based Access Control (RBAC) enforces least privilege access by granting permissions based on roles, not individuals. It also provides centralized control across network segments, ensuring employees only have the access necessary for their responsibilities, thereby increasing overall security.

NEW QUESTION # 67

A manufacturing company experienced a security breach that resulted in sales data being compromised. An engineer participating in the investigation must identify who logged into the sales system during the affected period. Which approach must be used to gather the information?

- A. SNMP
- B. PKI
- C. NACM
- **D. AAA**

Answer: D

Explanation:

In the aftermath of a security breach, forensic investigators rely on the Accounting portion of AAA (Authentication, Authorization, and Accounting) to reconstruct a timeline of events. While Authentication verifies identity and Authorization defines permissions, Accounting is the specific framework used to track user activity, including login/logout times and the specific commands executed during a session.

According to Cisco Security Infrastructure design objectives, implementing a centralized AAA solution (such as Cisco Identity Services Engine (ISE) or a TACACS+/RADIUS server) is critical for accountability. In this scenario, the engineer would query the AAA logs to identify exactly "who" accessed the sales system during the compromise period. SNMP (Option A) is primarily for network monitoring and performance data, not granular user access logs. NACM (Option B) is an access control model for NETCONF but doesn't provide the broad auditing required here. PKI (Option D) provides the certificates used for digital signatures and encryption but does not log the historical "session" data needed for the investigation. Therefore, AAA is the fundamental architectural requirement for ensuring non-repudiation and providing the audit trail necessary to satisfy risk management and incident response requirements.

NEW QUESTION # 68

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