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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Secure Infrastructure: Covers selecting security approaches for endpoints, identities, email, and modern environments like hybrid work, IoT, SaaS, and multi-cloud. Includes choosing VPN tunneling solutions, securing management planes, and selecting the appropriate firewall architecture based on business needs.
Topic 2	<ul style="list-style-type: none">Risk, Events, and Requirements: Covers SOC incident handling and response tools, modifying security designs to mitigate or respond to incidents, and applying frameworks like MITRE CAPEC, NIST SP 800-37, and SAFE. Includes matching regulatory and compliance requirements to business scenarios.
Topic 3	<ul style="list-style-type: none">Artificial Intelligence, Automation, and DevSecOps: Explores AI's role in securing network infrastructure, selecting tools for automated security architectures such as SOAR, IaC, and API tooling, and integrating security into DevSecOps workflows and pipelines to minimize deployment risk.
Topic 4	<ul style="list-style-type: none">Applications: Focuses on selecting security solutions to protect applications and designing secure architectures for cloud-native, containerized, and serverless environments using segmentation. Also addresses security design impacts of emerging technologies like AI, ML, and quantum computing.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q21-Q26):

NEW QUESTION # 21

Refer to the exhibit. A software developer noticed that the application source code had been found on the internet. To avoid such an incident from happening again, the developer applied a DLP policy to prevent from uploading source code into generative AI tool like ChatGPT. When testing the policy, the developer noticed that it is still possible for the source code to be uploaded.

Which action must the developer take to prevent this issue?

- A. Modify the data classifications.
- B. Enable the rule.
- C. Move the ChatGPT Source Code rule to the bottom.
- D. Change the DLP action from Monitor to Block.

Answer: D

Explanation:

In the exhibit, the ChatGPT Source Code rule is configured with the action Monitor, which only logs activity but does not stop it. To prevent source code from being uploaded, the action must be changed to Block. This enforces the policy and ensures data exfiltration into generative AI tools is stopped.

NEW QUESTION # 22

A video game company identified a potential threat of a SYN flood attack, which could disrupt the online gaming services and impact user experience. The attack can overwhelm network resources by exploiting the TCP handshake process, leading to server unavailability and degraded performance. To safeguard the company's infrastructure and ensure uninterrupted service, it is essential to enhance the security measures in place. The company must implement a solution that manages and mitigates the risk of such network-based attacks. Which security product must be implemented to mitigate similar risks?

- A. Cisco Umbrella
- B. Cisco Secure Endpoint
- C. Cisco Web Security Appliance
- D. Cisco Secure Firewall

Answer: D

Explanation:

A SYN flood attack is a type of DoS/DDoS attack targeting the TCP handshake process. The correct mitigation is deploying a Cisco Secure Firewall, which includes advanced intrusion prevention, SYN flood protection, and traffic management capabilities to prevent resource exhaustion and keep services available.

NEW QUESTION # 23

Which two solutions help ensure consistent policy enforcement across multi-cloud workloads?

(Choose two.)

- A. Static IP routing
- B. Cisco Secure Workload (Tetration)
- C. Cloud-delivered Firewall (CDFW)
- D. SNMP traps

Answer: B,C

Explanation:

Cisco Secure Workload provides workload visibility and policy enforcement across environments, while cloud-delivered firewalls apply consistent security policies across multiple cloud platforms.

NEW QUESTION # 24

How does AI improve the performance of intrusion prevention systems (IPS)?

- A. Disables logging overhead
- **B. Enables real-time dynamic rule creation**
- C. Decreases SNMP load
- D. Bypasses signature-based detection

Answer: B

Explanation:

AI enables IPS platforms to analyze traffic patterns in real time and dynamically create or adjust rules to respond to new and evolving threats.

NEW QUESTION # 25

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

Answer: A

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 # 26

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