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AI CERTs AI+ Network Examination Sample Questions (Q49-Q54):

NEW QUESTION # 49

(Scenario: A financial services company is experiencing an unusual number of login attempts from different global IP addresses on an employee account. They need to determine whether the account is compromised while ensuring minimum disruption to operations. Question: Which AI-driven security feature would best address this issue?)

- A. Signature-based detection to match activity with known threat databases.
- **B. Behavioral analysis to compare current activity with the account's baseline patterns.**
- C. Static analysis to evaluate metadata associated with the login attempts.
- D. Heuristic analysis to apply generalized rules for identifying threats.

Answer: B

Explanation:

Behavioral analysis is the most effective AI-driven security feature for detecting potential account compromise while minimizing operational disruption. AI+ Network security frameworks emphasize behavioral analysis as a technique that establishes a baseline of

normal user behavior, including login locations, times, devices, and access patterns.

When deviations occur—such as simultaneous or rapid login attempts from multiple global IP addresses—the AI system flags the activity as anomalous without immediately blocking access. This allows security teams to investigate potential compromise while maintaining business continuity. Unlike signature-based detection, which only identifies known threats, behavioral analysis can detect previously unseen or zero-day attack patterns.

Static and heuristic analyses are less precise in this context, as they rely on predefined rules or metadata rather than adaptive learning. Financial institutions, in particular, benefit from behavioral AI because it balances security, accuracy, and user experience, reducing false positives and unnecessary lockouts.

NEW QUESTION # 50

(How do firewalls enhance network security in modern infrastructures?)

- **A. By managing traffic and blocking unauthorized access.**
- B. By ensuring all devices follow dynamic configuration rules.
- C. By encrypting all incoming and outgoing data packets.
- D. By isolating critical servers from external traffic sources.

Answer: A

Explanation:

Firewalls enhance network security by managing traffic and blocking unauthorized access based on predefined security rules. AI+ Network security documentation explains that firewalls operate at various layers of the OSI model to inspect incoming and outgoing traffic and enforce access control policies.

Modern firewalls can filter traffic based on IP addresses, ports, protocols, applications, and user identities.

Advanced next-generation firewalls (NGFWs) also integrate intrusion prevention, deep packet inspection, and AI-driven threat detection. This layered inspection prevents unauthorized access, limits attack surfaces, and protects internal assets.

Firewalls do not encrypt all traffic by default, nor do they enforce configuration rules across devices. While they can isolate servers logically, their primary role is traffic control and access enforcement. AI+ Network materials consistently identify firewalls as a foundational component of secure, modern network architectures.

NEW QUESTION # 51

(Scenario: A multinational corporation faces an issue where employees working remotely often connect to corporate resources using unsecured devices. Despite enforcing strong password policies, they still encounter breaches due to compromised endpoints. The security team needs a strategy to ensure only compliant devices can access sensitive resources while minimizing user disruption.

Question: What approach should the corporation adopt to resolve this issue?)

- A. Restrict remote access entirely to prevent breaches from unsecured devices.
- B. Enforce stricter password policies to enhance user authentication security.
- **C. Implement Zero Trust Architecture to verify user and device compliance.**
- D. Deploy network segmentation to isolate critical resources from remote access.

Answer: C

Explanation:

Implementing a Zero Trust Architecture (ZTA) is the most effective approach for securing access from remote and potentially unsecured devices. AI+ Network security documentation explains that Zero Trust operates on the principle of "never trust, always verify," requiring continuous validation of both user identity and device posture before granting access.

Unlike traditional perimeter-based security, Zero Trust evaluates device compliance factors such as operating system health, patch status, and endpoint security controls. Access is granted dynamically and contextually, minimizing disruption while significantly reducing risk. Even authenticated users are restricted to least-privilege access.

Stricter passwords alone do not address compromised endpoints, and completely restricting remote access harms productivity.

Network segmentation helps limit damage but does not verify endpoint integrity. AI+ Network frameworks clearly identify Zero Trust as the preferred model for modern, distributed workforces.

NEW QUESTION # 52

(How does machine learning predict network traffic patterns?)

- A. By encrypting traffic flows for secure transmission.
- B. By allocating bandwidth to prioritized applications.
- C. By compressing real-time network traffic logs.
- **D. By analyzing historical data and identifying trends.**

Answer: D

Explanation:

Machine learning predicts network traffic patterns by analyzing historical data and identifying trends over time. AI+ Network documentation explains that ML models are trained on past traffic metrics such as bandwidth usage, latency, packet loss, time-of-day patterns, and application behavior.

By learning from this data, machine learning algorithms can forecast future traffic demands, anticipate congestion, and enable proactive network optimization. This predictive capability allows networks to scale resources in advance, adjust routing paths, and maintain consistent Quality of Service (QoS).

Machine learning does not compress traffic or perform encryption directly. While it can inform bandwidth allocation decisions, prediction itself is achieved through pattern recognition and trend analysis. AI+ Network materials emphasize predictive analytics as a core advantage of AI-driven networking solutions.

NEW QUESTION # 53

(Which feature of Zero Trust Architecture best addresses insider threats by enforcing dynamic and continuous access controls?)

- A. Firewalls to block unverified internal traffic
- **B. Role-Based Access Control (RBAC)**
- C. Static IP-based rules
- D. Network perimeter segmentation

Answer: B

Explanation:

Role-Based Access Control (RBAC) is a key Zero Trust Architecture feature that effectively addresses insider threats through dynamic and continuous access enforcement. AI+ Network security documentation explains that RBAC limits user access based on defined roles and responsibilities, ensuring users can only access resources necessary for their job functions.

In a Zero Trust model, RBAC is continuously evaluated alongside contextual factors such as device posture, user behavior, and session risk. This reduces the potential damage from compromised insider accounts and prevents privilege abuse.

Static IP rules and perimeter segmentation rely on outdated trust assumptions, while firewalls alone cannot address insider misuse. AI+ Network materials identify RBAC as a foundational mechanism for enforcing least-privilege access within Zero Trust frameworks.

NEW QUESTION # 54

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