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**WGU Cybersecurity Architecture and Engineering (D488)
QUESTION & ANSWERS**

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q127-Q132):

NEW QUESTION # 127

Which security technique should be used to prevent data exfiltration?

- A. Multi-factor authentication (MFA)
- B. Intrusion detection software (IDS)
- C. Intrusion prevention software (IPS)
- **D. Data loss prevention (DLP)**

Answer: D

Explanation:

The correct answer is C - Data loss prevention (DLP).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), DLP technologies monitor and control the transfer of sensitive information outside of the corporate network, preventing unauthorized data exfiltration whether by internal misuse or external threats.

MFA (A) strengthens authentication but does not monitor data transfer. IDS (B) detects intrusions but does not prevent data loss. IPS (D) blocks network attacks but is not specifically designed for preventing exfiltration of sensitive data.

Reference Extract from Study Guide:

"Data loss prevention (DLP) solutions protect sensitive data by monitoring, detecting, and blocking potential data exfiltration attempts."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Data Protection Technologies

NEW QUESTION # 128

The security operations center (SOC) team has been alerted about malicious traffic on the corporate network and is concerned about a distributed denial of service (DDoS) attack. An analyst has been tasked with inspecting network traffic in the on-premises data center to investigate the issue.

Which type of file should the analyst use to inspect the traffic?

- A. Syslog messages
- B. Web server access log
- **C. Packet capture**
- D. Operating system event log

Answer: C

Explanation:

The correct answer is D - Packet capture.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488) content, packet captures (PCAP files) allow analysts to inspect individual network packets to understand traffic patterns, detect anomalies, and investigate attacks like DDoS. A packet capture provides complete network session data, enabling in-depth analysis of traffic behavior at the packet level.

Web server access logs (A) only capture web activity. Syslog messages (B) primarily record system events but not raw traffic data. Operating system event logs (C) focus on system-level actions, not network flows.

Reference Extract from Study Guide:

"Packet captures record the full network traffic and are essential for investigating network-based attacks such as DDoS incidents by analyzing traffic flows, protocols, and payloads."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Network Security Monitoring Concepts

NEW QUESTION # 129

How are IT and globalization related?

- A. IT allows businesses to reach global HIPAA compliance.
- **B. IT allows businesses to have a global reach.**
- C. IT allows businesses to create a global common gateway interface (CGI).
- D. IT allows businesses to create tax havens for global companies.

Answer: B

Explanation:

Information Technology (IT) has revolutionized the way businesses operate, enabling them to reach global markets and audiences. IT facilitates communication, data exchange, and operational efficiency across borders, allowing companies to manage global operations and engage with international customers seamlessly. This global reach is a critical aspect of modern business strategies, driven by advancements in IT infrastructure and services.

NEW QUESTION # 130

A cybersecurity analyst at a healthcare organization was tasked with analyzing the indicators of compromise (IOCs) to identify potential threats and vulnerabilities within the enterprise. The analyst notices unknown users logging on to the company's wireless local-area network (WLAN).

What is a potential vulnerability the healthcare organization is facing based on the IOCs identified?

- **A. Unsecured wireless access points**
- B. Regular security awareness training for employees
- C. A strong password policy
- D. Up-to-date anti-malware software

Answer: A

Explanation:

The correct answer is A - Unsecured wireless access points.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) explains that unauthorized logins to a WLAN often indicate poorly secured wireless access points, such as those lacking strong encryption (e.g., WPA2/WPA3), not using strong passwords, or having open access without authentication. This vulnerability can allow attackers to access internal systems and sensitive data.

Up-to-date anti-malware software (B), a strong password policy (C), and regular security training (D) are good security practices but do not directly explain unauthorized WLAN access.

Reference Extract from Study Guide:

"Unauthorized wireless access often results from unsecured wireless configurations, including weak encryption, open networks, or default credentials, posing significant risks to organizational assets."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Wireless Security Concepts

NEW QUESTION # 131

A professional services organization deployed security edge devices in key locations on its corporate network.

How will these devices improve the organization's security posture?

- **A. They act as an initial defense layer for potential threats**
- B. They protect from severe Distributed Denial-of-Service (DDoS) attacks
- C. They are a set of Trusted Platform Module (TPM) devices
- D. They act as a Security Information and Event Management (SIEM) module for a SOC analyst

Answer: A

Explanation:

Security edge devices (such as NGFWs, IDS/IPS, and secure gateways) are deployed at the network perimeter to inspect and filter

traffic, providing an initial layer of defense against external threats before they reach internal systems.

NIST SP 800-41 Rev. 1:

"Edge security devices enforce security policy at network boundaries and act as a first line of defense by preventing unauthorized or malicious traffic from entering the internal network." They are not TPMs or SIEMs, though they may generate data consumed by SIEMs.

#WGU Course Alignment:

Domain: Network Security

Topic: Deploy perimeter defense technologies at network entry points

NEW QUESTION # 132

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