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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 (Q14-Q19):

NEW QUESTION # 14

A financial institution is planning to conduct a business impact analysis (BIA) to evaluate the criticality of its business processes and functions.

Which steps will allow the company to perform a BIA?

- A. Determine recovery time objectives and recovery point objectives, develop recovery strategies, and document the recovery plan
- **B. Determine business processes and recovery criticality, identify resource requirements, and identify recovery priorities for system resources**
- C. Monitor network and system activity, detect security incidents, and respond quickly to minimize the impact on critical business processes
- D. Develop business continuity plans and procedures, establish a crisis management team, and test the plan regularly

Answer: B

Explanation:

The correct answer is C - Determine business processes and recovery criticality, identify resource requirements, and identify recovery priorities for system resources.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), a BIA identifies critical business functions, determines the impact of disruptions, and establishes recovery priorities, including resource needs.

A (monitoring) relates to incident response. B (developing BCP) is after BIA. D (recovery strategies) is part of disaster recovery planning after BIA findings.

Reference Extract from Study Guide:

"Business impact analysis (BIA) involves determining critical business processes, evaluating their recovery requirements, and prioritizing system recovery efforts."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Business Impact Analysis Procedures

NEW QUESTION # 15

A company is looking to monitor and detect any suspicious activity on its servers. The company wants to implement a security solution that can detect any unauthorized access or unusual activity on the servers.

Which security technology will meet the needs of this company?

- A. Two-factor authentication
- B. Hardware security module (HSM)
- **C. Host-based intrusion detection system (HIDS)**
- D. Antivirus tools

Answer: C

Explanation:

The correct answer is D - Host-based intrusion detection system (HIDS).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), a HIDS monitors individual servers or endpoints for suspicious activity and potential breaches. It provides real-time detection of unauthorized access and unusual behaviors on hosts. HSM (A) protects cryptographic keys. Two-factor authentication (B) strengthens user authentication but does not monitor server activity. Antivirus tools (C) detect malware but are not designed to detect broader suspicious behaviors.

Reference Extract from Study Guide:

"Host-based intrusion detection systems (HIDS) monitor individual servers for unauthorized activities, unauthorized access attempts, and changes to critical system files."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Intrusion Detection Systems

NEW QUESTION # 16

A corporate website is currently being redesigned, which leaves it vulnerable to security threats. Management does not want to provide an attacker with any information about the web server. Which strategy should be used to prevent an attacker from gaining unauthorized information?

- A. Enabling Hypertext Transfer Protocol Secure (HTTPS) over Domain Name Service (DNS)
- B. Becoming PCI-DSS compliant and certified
- C. Using HTTPS for all page and content requests
- **D. Obfuscating error messages on the site or within the Uniform Resource Locator (URL)**

Answer: D

Explanation:

Obfuscating error messages prevents attackers from receiving technical details (e.g., software version, file paths, or database errors) that they can use for exploitation. This is part of secure coding and error handling practices.

OWASP Secure Coding Practices - Error Handling and Logging:

"Applications should not disclose detailed error messages to users. Instead, provide generic messages to prevent leakage of system or application details." HTTPS secures transport, but doesn't address information disclosure via error output.

#WGU Course Alignment:

Domain: Information Systems and Architecture

Topic: Implement secure design practices (e.g., error handling, obfuscation)

NEW QUESTION # 17

An organization is experiencing multiple instances of attempted access from geographical locations where there are no corporate offices or staff.

What should a network administrator do to prevent further access attempts?

- A. Adjust the Domain Name Service (DNS) server A Records
- B. Adjust the rule sets within the Security Information and Event Manager (SIEM) tool
- **C. Adjust the firewall configuration to drop traffic from these addresses**
- D. Adjust the main proxy server to only allow specific addresses

Answer: C

Explanation:

Geo-IP filtering at the firewall is a well-established method of blocking traffic from regions that the organization does not do business with or has no legitimate presence in.

NIST SP 800-41 Rev. 1 (Guidelines on Firewalls):

"Firewalls can be configured to block traffic based on geolocation or IP ranges to reduce exposure to known hostile regions."

Firewalls are the first line of defense in the network perimeter; adjusting SIEM rules doesn't actively block access.

#WGU Course Alignment:

Domain: Network Security

Topic: Implement firewall filtering rules for geographic and IP-based restrictions

NEW QUESTION # 18

A financial institution is concerned about a potential data breach due to employees accessing the company network using personal devices. They have decided to implement a bring your own device (BYOD) policy to mitigate the risk.

Which risk mitigation strategy will reduce the risk of a data breach in this scenario?

- A. Providing security awareness training for employees
- B. Conducting regular security audits of the company network
- **C. Implementing a mobile device management (MDM) solution**
- D. Blocking access to the company network from personal devices

Answer: C

Explanation:

The correct answer is C - Implementing a mobile device management (MDM) solution.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) describes that an MDM solution enables organizations to enforce security policies on personal devices, such as encryption, remote wipe capabilities, and application controls. MDM allows safe access to corporate resources while managing the inherent risks of BYOD environments.

Blocking access (A) contradicts the BYOD policy goal. Security audits (B) monitor but do not control personal devices. Awareness training (D) is important but does not enforce technical protections on devices.

Reference Extract from Study Guide:

"Mobile device management (MDM) solutions enforce security policies on employee-owned devices, ensuring compliance and reducing the risks associated with BYOD implementations."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Mobile Device Security

NEW QUESTION # 19

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