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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q126-Q131):

NEW QUESTION # 126

Which is true about access rights?

- A. They are defined by the machine language.
- B. They are part of the System Development Life Cycle.
- C. They require the use of a compiler.
- **D. They limit users to permitted items.**

Answer: D

Explanation:

Access rights are critical components of access control mechanisms in information security. They specify what actions users or systems can perform on specific resources, limiting them to only permitted items.

* Definition: Access rights, also known as permissions, are rules that define the allowed actions on a resource (e.g., read, write, execute).

* Implementation: Access rights are typically implemented using Access Control Lists (ACLs), Role-Based Access Control (RBAC), or other access control models.

* Purpose: The main goal is to enforce the principle of least privilege, ensuring that users can only access the resources necessary for their role.

References

* NIST Special Publication 800-53

* ISO/IEC 27001:2013

* "Computer Security: Principles and Practice" by William Stallings

NEW QUESTION # 127

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

Answer: C

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 # 128

An organization needs to securely exchange confidential documents with a third-party vendor over an unsecured network connection. The organization wants to ensure that the documents can only be read by the intended recipient and cannot be intercepted or read by unauthorized parties.

Which type of encryption meets the needs of the organization?

- **A. Asymmetric encryption**
- B. Block ciphers
- C. Hash functions
- D. Stream ciphers

Answer: A

Explanation:

The correct answer is B - Asymmetric encryption.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), asymmetric encryption uses a pair of public and private keys, allowing the sender to encrypt the documents with the recipient's public key, ensuring that only the recipient's private key can decrypt them. This guarantees confidentiality even over an unsecured network.

Stream ciphers (A) and block ciphers (C) are types of symmetric encryption, requiring a shared secret key.

Hash functions (D) provide integrity, not confidentiality.

Reference Extract from Study Guide:

"Asymmetric encryption enables secure data exchange by allowing encryption with a public key and decryption only with a corresponding private key, ensuring confidentiality over unsecured networks."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Cryptographic Methods and Key Management

NEW QUESTION # 129

During a vulnerability assessment, several end-of-life operating systems were discovered within the environment. Which action should be taken to resolve the issue?

- **A. Upgrade the remaining end-of-life machines**
- B. Disconnect the end-of-life machines
- C. Block the end-of-life machines
- D. Shutdown and remove the end-of-life machines

Answer: A

Explanation:

The most sustainable solution to eliminate security risks associated with legacy systems is to upgrade them to supported versions that receive security updates and patches.

NIST SP 800-128 (Guide for Security-Focused Configuration Management):

"Systems running unsupported or outdated software must be prioritized for upgrade to ensure that known vulnerabilities are mitigated." While short-term isolation may work temporarily, it does not address the root cause or meet compliance requirements long-term.

#WGU Course Alignment:

Domain: System Security Engineering

Topic: Perform lifecycle management and upgrade legacy systems

NEW QUESTION # 130

An organization wants to implement a new encryption solution for a real-time video conferencing application.

The organization wants to ensure that the encryption solution provides protection for the video stream without causing significant delays or latency in the conference.

Which type of encryption will meet the needs of the organization?

- A. Asymmetric encryption
- B. Block ciphers
- **C. Stream ciphers**
- D. Hash functions

Answer: C

Explanation:

The correct answer is C - Stream ciphers.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) content explains that stream ciphers encrypt data bit-by-bit or byte-by-byte, making them highly efficient and suitable for real-time applications like video conferencing where low latency is critical.

Block ciphers (A) encrypt large chunks of data, causing latency. Asymmetric encryption (B) is too slow for real-time data streams.

Hash functions (D) are used for data integrity, not for ongoing data encryption.

Reference Extract from Study Guide:

"Stream ciphers encrypt data continuously and are ideal for real-time applications such as video or audio streaming where low latency is essential."

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

NEW QUESTION # 131

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