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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q172-Q177):

NEW QUESTION # 172
A financial institution conducted a cybersecurity assessment, which identified several vulnerabilities, including outdated software and weak password policies. The company also needs to implement a new core banking system that can handle a large number of transactions while ensuring the security of customer data.
Which risk mitigation process is the most effective approach to address these vulnerabilities, and what is the best topology for the

new core banking system?

- A. Installing antivirus software on all endpoints and using on-premise topology
- B. Implementing security patches and updates on a regular basis and using hybrid cloud topology
- C. Creating strong password policies and enforcing multifactor authentication and using public cloud topology
- D. Conducting regular security audits and penetration testing and using private cloud topology

Answer: B

Explanation:
The correct answer is B - Implementing security patches and updates on a regular basis and using hybrid cloud topology.
WGU Cybersecurity Architecture and Engineering (KFO1 / D488) emphasizes that timely application of security patches is critical to addressing vulnerabilities like outdated software. A hybrid cloud topology offers the flexibility and scalability needed by financial institutions while keeping sensitive data protected in more controlled environments.
Strong password policies (A) help, but public cloud alone may not be best for sensitive banking systems.
Antivirus (C) addresses only part of the threat. Private cloud (D) improves security but may not offer the scalability benefits of a hybrid approach.
Reference Extract from Study Guide:
"Timely application of security patches mitigates vulnerabilities, and hybrid cloud models balance the need for scalability and sensitive data protection in financial institutions."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Mitigation Strategies and Cloud Topologies

NEW QUESTION # 173
An organization wants to securely transmit sensitive information between two parties. The organization wants to use a cryptographic technique that allows both parties to encrypt and decrypt messages using the same key.
The organization is also concerned about the performance impact of the encryption technique.
Which type of cryptographic algorithm meets the needs of the organization?

- A. Asymmetric algorithm
- B. Hash function
- C. Block cipher
- D. Symmetric algorithm

Answer: D

Explanation:
The correct answer is C - Symmetric algorithm.
According to the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) study material, symmetric encryption uses the same key for both encryption and decryption, offering high speed and lower computational overhead compared to asymmetric algorithms. This makes symmetric encryption ideal when both security and performance are important factors.
Block cipher (A) is a type of symmetric algorithm but not the broader category being asked. Hash functions (B) are for data integrity, not encryption/decryption. Asymmetric algorithms (D) are more secure for key exchange but have higher computational cost.
Reference Extract from Study Guide:
"Symmetric encryption algorithms use a single shared key for encryption and decryption, offering efficient and high-performance protection for sensitive data transmissions."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Cryptography Fundamentals

NEW QUESTION # 174
An IT organization recently implemented a hybrid cloud deployment. The security team must be able to correlate event data combined from different sources in a central location.
What is the best solution?

- A. File integrity monitoring (FIM)
- B. Intrusion detection system (IDS)
- C. Data loss prevention (DLP)
- D. Security information and event management (SIEM)

Answer: D

Explanation:
The correct answer is D - Security information and event management (SIEM).
According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), a SIEM collects and correlates event data from multiple sources (such as cloud and on-premises environments) in real-time. It provides centralized visibility, analysis, and alerting, which is critical in hybrid cloud deployments.
File integrity monitoring (A) watches for unauthorized file changes, not event correlation. DLP (B) protects sensitive data but does not correlate events. IDS (C) detects network intrusions but does not combine event data centrally.
Reference Extract from Study Guide:
"Security information and event management (SIEM) systems collect, normalize, correlate, and analyze security event data from multiple sources, providing centralized monitoring and alerting."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Security Monitoring and Event Management

NEW QUESTION # 175
A system analyst is reviewing risk documents and noticed that the date of many risks are more than three years old.
What should be proposed to leadership regarding these risks?

- A. A process to confirm that risk documents are readily available to all individuals
- B. A process to determine how involved leadership is in assignment risk scores
- C. A process to reassess risks on a defined schedule
- D. A process to evaluate how risks are captured on risk documents

Answer: C

Explanation:
The correct answer is A - A process to reassess risks on a defined schedule.
Based on the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) Study Guide, risks must be reassessed periodically because the threat landscape, organizational assets, and business processes evolve over time. Risks identified years ago might have changed in likelihood, impact, or may have been mitigated already. Therefore, it is essential to establish a formal process for periodic risk review and reassessment to maintain accurate and actionable risk profiles.
Availability of risk documents (B), methods of capture (C), and leadership involvement in scoring (D) are important, but they do not directly address the primary issue of outdated risk assessments.
Reference Extract from Study Guide:
"Organizations must implement a periodic review and reassessment process for risks to ensure that risk profiles reflect the current threat environment, organizational changes, and mitigation efforts."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Management Framework

NEW QUESTION # 176
In which state is data considered information?

- A. Processed
- B. Unprocessed
- C. Input
- D. Raw

Answer: A

Explanation:
Data is considered information when it has been processed and organized in a meaningful way. Raw data in its unprocessed state is not useful until it undergoes processing to become interpretable and actionable information. Processing can involve sorting, aggregating, and analyzing data to extract valuable insights.

NEW QUESTION # 177
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