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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q195-Q200):

NEW QUESTION # 195

A cloud hosting provider is concerned about the potential risks associated with attacks that target the confidentiality and integrity of sensitive data stored on its servers' volatile memory. The provider has decided to implement hardening techniques and endpoint security controls to mitigate the risk.

Which hardening technique will meet the needs of this provider?

- A. Conducting regular security awareness training for all employees

- B. Enforcing a strong password complexity policy for all user accounts
- C. Implementing a next-generation antivirus system to detect and prevent malware attacks
- D. Implementing secure encrypted enclaves and AMD Secure Memory Encryption

Answer: D

Explanation:

To protect data in use (within memory), the provider must implement hardware-level memory encryption and trusted execution environments (secure enclaves), which protect against cold boot attacks, memory scraping, and unauthorized access.

NIST SP 800-207A (Hardware-Enabled Security: Enclaves):

"Trusted execution environments and memory encryption mechanisms help ensure that data remains protected even when systems are compromised at lower levels." This is a modern cloud security best practice especially useful for confidential computing environments.

#WGU Course Alignment:

Domain: System Security Engineering / Cryptography

Topic: Protect data in use with hardware-based encryption and enclaves

NEW QUESTION # 196

A financial institution conducted a cybersecurity assessment, which identified several vulnerabilities, including outdated software and weak password policies.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. Implementing security patches and updates on a regular basis and using hybrid cloud topology
- B. Installing antivirus software on all endpoints and using on-premise topology
- C. Conducting regular security audits and penetration testing and using private cloud topology
- D. Creating strong password policies and enforcing multifactor authentication and using public cloud topology

Answer: A

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 # 197

Which encryption technique can be used to enable a third-party provider to perform calculations on encrypted data without decrypting the data?

- A. Secure function evaluation (SFE)
- B. Private information retrieval (PIR)
- C. Secure Sockets Layer (SSL)
- D. Homomorphic encryption

Answer: D

Explanation:

The correct answer is A - Homomorphic encryption.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), homomorphic encryption allows computations to be performed directly on encrypted data without needing to decrypt it first. This ensures the confidentiality of the data even during

processing.

SFE (B) allows two parties to jointly compute a function without revealing inputs but is not the same. SSL (C) secures communication channels. PIR (D) is for retrieving information privately, not computing on encrypted data.

Reference Extract from Study Guide:

"Homomorphic encryption allows operations on encrypted data, enabling secure processing by third parties without exposing underlying data."

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

NEW QUESTION # 198

Which IT role is responsible for the installation and maintenance of hardware and software that make up a computer network?

- A. Network administrator
- B. Database support specialist
- C. IT manager
- D. Web administrator

Answer: A

Explanation:

The IT role responsible for the installation and maintenance of hardware and software that make up a computer network is the Network Administrator. Their responsibilities include:

- * Network installation: Setting up and configuring network hardware, such as routers, switches, firewalls, and servers.
 - * Network maintenance: Ensuring the network operates smoothly, performing regular updates, and troubleshooting issues.
 - * Security management: Implementing security measures to protect the network from unauthorized access, attacks, and breaches.
 - * Performance monitoring: Monitoring network performance and making necessary adjustments to optimize speed and reliability.
- Therefore, the Network Administrator is the correct role for these responsibilities.

References

- * William Stallings, "Data and Computer Communications," Pearson.
- * Andrew S. Tanenbaum and David J. Wetherall, "Computer Networks," Pearson.

NEW QUESTION # 199

An organization wants to ensure that its website is free of certain vulnerabilities before the final hand-off to the client.

What testing method should the organization use to inspect traffic to detect potential issues?

- A. Port scanner
- B. Domain interceptor
- C. Bastion scanner
- D. HTTP interceptor

Answer: D

Explanation:

The correct answer is C - HTTP interceptor.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), an HTTP interceptor is a tool or method used to capture, inspect, and manipulate HTTP/S traffic between a client and server. It allows testers to identify security vulnerabilities such as improper input validation, session management flaws, and exposure of sensitive data.

A Bastion scanner (A) is not a standard tool for traffic inspection. Port scanners (B) check for open ports but do not inspect HTTP traffic content. Domain interceptors (D) are not a recognized testing tool in this context.

Reference Extract from Study Guide:

"HTTP interceptors allow for the inspection and manipulation of web traffic, helping to identify application vulnerabilities prior to deployment."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Web Application Security Testing

NEW QUESTION # 200

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