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WGU D488 Cybersecurity Architecture and Engineering Final Exam Test | 2025 Complete D488 Cybersecurity Architecture and Engineering Actual Exam with Correct Verified Answers | Already Graded A+ Exam

An IT security team has been notified that external contractors are using their personal laptops to gain access to the corporate network. The team needs to recommend a solution that will prevent unapproved devices from accessing the network.

Which solution fulfills these requirements?

- A) Implementing a demilitarized zone (DMZ)
- B) Installing a hardware security module
- C) Implementing port security
- D) Deploying a software firewall
- C) Implementing port security**

Which method allows a process to check if a certificate is still valid by referencing a list of revoked and suspended certificates?

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>> Relevant WGU Cybersecurity-Architecture-and-Engineering Answers <<

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q135-Q140):

NEW QUESTION # 135

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. Symmetric algorithm
- D. Block cipher

Answer: C

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 # 136

Which device does a Local Area Network (LAN) need to communicate over the Internet?

- A. Repeater
- B. Multiplexer
- C. Router
- D. Switch

Answer: C

Explanation:

* A Local Area Network (LAN) requires a router to communicate over the Internet.

* The router serves as a gateway that connects the LAN to the external network (Internet) and directs data traffic between the LAN and the Internet.

* The other options:

* Multiplexer combines multiple signals into one.

* Repeater amplifies signals to extend the range.

* Switch connects devices within the LAN but does not facilitate Internet communication.

* Therefore, a router is the necessary device for a LAN to communicate over the Internet.

References:

* "Computer Networking: A Top-Down Approach" by James Kurose and Keith Ross, which explains network devices and their functions.

* "CCNA Routing and Switching Study Guide" by Todd Lammle, which covers routers and their roles in networks.

NEW QUESTION # 137

A healthcare organization is required to comply with the Health Insurance Portability and Accountability Act (HIPAA), which regulates the privacy and security of personal health information. The organization uses simple network management protocol (SNMP) to manage and monitor its network devices.

Which security control will protect the confidentiality of network device information within this organization?

- A. Security monitoring
- B. Network segmentation
- C. Access controls
- **D. Encryption**

Answer: D

Explanation:

The correct answer is C - Encryption.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) clearly states that encryption protects the confidentiality of transmitted information. In the case of SNMP (especially older versions like SNMPv1 and SNMPv2), communications are unencrypted, making encryption critical to protecting network management information from unauthorized disclosure.

Access controls (A) restrict who can access systems but do not encrypt data. Network segmentation (B) separates systems but does not encrypt traffic. Security monitoring (D) detects threats but does not protect data confidentiality.

Reference Extract from Study Guide:

"Encryption safeguards sensitive data transmitted over the network, ensuring confidentiality in compliance with privacy regulations such as HIPAA."

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

NEW QUESTION # 138

Which characteristic applies to machine-level languages?

- A. They use language translators known as compilers
- **B. They use language translators known as assemblers**
- C. They use collection of short scripts
- D. They use cables to connect circuits

Answer: B

Explanation:

Machine-level languages, also known as assembly languages, are low-level programming languages that are closely related to machine code.

* Definition: Machine-level languages consist of instructions that are directly executed by a computer's CPU.

* Assemblers: An assembler is a tool that translates assembly language code into machine code.

* Characteristics: Assembly languages are specific to a computer architecture and provide a way to write programs that can be executed by the hardware directly.

References

* "Structured Computer Organization" by Andrew S. Tanenbaum

* "Computer Systems: A Programmer's Perspective" by Randal E. Bryant and David R. O'Hallaron

NEW QUESTION # 139

Which block cipher mode of operation for encrypting data is simple and efficient but provides no confidentiality beyond that of the underlying block cipher?

- A. Cipher Block Chaining (CBC)
- B. Output Feedback (OFB)
- **C. Electronic Codebook (ECB)**
- D. Counter (CTR)

Answer: C

Explanation:

Electronic Codebook (ECB) is the simplest mode of block cipher operation, but it encrypts each block independently, which results in identical ciphertext for identical plaintext blocks- making it unsafe for use with structured or repetitive data.

NIST SP 800-38A (Recommendation for Block Cipher Modes of Operation):

"ECB reveals patterns in plaintext and should not be used when such patterns are meaningful and predictable." Though efficient, ECB lacks semantic security and is rarely recommended in practice.

#WGU Course Alignment:

Domain: Cryptography

Topic: Evaluate block cipher modes for appropriate use cases

NEW QUESTION # 140

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