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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 (Q140-Q145):

NEW QUESTION # 140

A software development company has experienced a noticeable slowdown in its network performance, which suggests that some machines on the network may have been infected by a botnet. The company has decided to analyze the threats and vulnerabilities within the enterprise based on the indicators of compromise to mitigate the risk.

What should the company do to detect a botnet and other malware-based threats within the enterprise based on the indicators of compromise?

- A. Constantly scan for known signatures on every machine
- B. Implement a configuration management solution
- C. Define strict firewall rules
- D. Use two-factor authentication for external users

Answer: A

Explanation:

The correct answer is C - Constantly scan for known signatures on every machine.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), scanning for known malware signatures is an essential method for detecting infections such as botnets. Signature-based detection compares files and behaviors against databases of known indicators of compromise (IOCs).

Two-factor authentication (A) protects login processes but does not detect malware. Firewall rules (B) help control access but do not detect infections. Configuration management (D) ensures system setup integrity but does not detect botnets.

Reference Extract from Study Guide:

"Signature-based scanning detects malware and botnets by comparing system files and behaviors against databases of known threats and indicators of compromise (IOCs)."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Malware Detection and Threat Response

NEW QUESTION # 141

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

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

Answer: A

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 # 142

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. Shut down and remove the end-of-life machines
- C. Block the end-of-life machines
- D. Disconnect the end-of-life machines

Answer: A

Explanation:

The correct answer is D - Upgrade the remaining end-of-life machines.

As outlined in WGU Cybersecurity Architecture and Engineering (KFO1 / D488), the best way to address end-of-life systems is to upgrade them to supported versions. End-of-life systems no longer receive security patches, leaving them highly vulnerable.

Upgrading restores security and compliance.

Shutting down (A), disconnecting (B), or blocking (C) are temporary solutions that may disrupt operations but do not solve the root problem.

Reference Extract from Study Guide:

"Upgrading end-of-life systems is critical to restoring security and compliance, as unsupported systems are vulnerable to exploitation."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Vulnerability Management and Remediation

NEW QUESTION # 143

What is the role of the compiler?

- **A. To create an executable program by translating all of the code at one time**
- B. To take the most recent line of code, translate it, and execute the machine code
- C. To run scripting languages to test one line of code at a time
- D. To create executable code that is compatible with different operating systems

Answer: A

Explanation:

Step by Step Comprehensive Detailed ExplanationA compiler is a program that translates source code written in a high-level programming language into machine code.

* Definition: A compiler processes the entire source code of a program and translates it into a machine code executable.

* Functionality: This process is typically done in several stages, including lexical analysis, syntax analysis, semantic analysis, optimization, and code generation.

* Output: The result is an executable file that can be run on a specific operating system.

References

* "Compilers: Principles, Techniques, and Tools" by Alfred V. Aho, Monica S. Lam, Ravi Sethi, and Jeffrey D. Ullman

* NISTIR 7860, "C++ Coding Standards"

NEW QUESTION # 144

Which item is an input device?

- A. Printer
- **B. Scanner**
- C. Flash Drive
- D. CD

Answer: B

Explanation:

- * An input device is any hardware component that allows a user to enter data into a computer.
- * A scanner is an input device that converts physical documents into digital format.
- * The other options:
- * Printer is an output device.
- * Flash drive is a storage device.
- * CD can be both storage and media for input/output depending on the context but is not primarily used for direct data input.
- * Therefore, a scanner is the correct answer for an input device.

References:

- * "Introduction to Computer Science" by ITL Education Solutions Limited, which discusses input and output devices.
- * "Digital Fundamentals" by Thomas L. Floyd, which includes information on various peripherals.

NEW QUESTION # 145

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