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The Computer Security Act of 1987

Passed to improve the security and privacy of sensitive information in federal computer systems. The law requires the establishment of minimum acceptable security practices, creation of computer security plans, and training of system users or owners of facilities that house sensitive information.

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WGU Digital-Forensics-in-Cybersecurity Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Domain Recovery of Deleted Files and Artifacts: This domain measures the skills of Digital Forensics Technicians and focuses on collecting evidence from deleted files, hidden data, and system artifacts. It includes identifying relevant remnants, restoring accessible information, and understanding where digital traces are stored within different systems.

Topic 2	<ul style="list-style-type: none"> • Domain Incident Reporting and Communication: This domain measures the skills of Cybersecurity Analysts and focuses on writing incident reports that present findings from a forensic investigation. It includes documenting evidence, summarizing conclusions, and communicating outcomes to organizational stakeholders in a clear and structured way.
Topic 3	<ul style="list-style-type: none"> • Domain Digital Forensics in Cybersecurity: This domain measures the skills of Cybersecurity technicians and focuses on the core purpose of digital forensics in a security environment. It covers the techniques used to investigate cyber incidents, examine digital evidence, and understand how findings support legal and organizational actions.
Topic 4	<ul style="list-style-type: none"> • Domain Evidence Analysis with Forensic Tools: This domain measures skills of Cybersecurity technicians and focuses on analyzing collected evidence using standard forensic tools. It includes reviewing disks, file systems, logs, and system data while following approved investigation processes that ensure accuracy and integrity.
Topic 5	<ul style="list-style-type: none"> • Domain Legal and Procedural Requirements in Digital Forensics: This domain measures the skills of Digital Forensics Technicians and focuses on laws, rules, and standards that guide forensic work. It includes identifying regulatory requirements, organizational procedures, and accepted best practices that ensure an investigation is defensible and properly executed.

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

Which law requires a search warrant or one of the recognized exceptions to search warrant requirements for searching email messages on a computer?

- A. Communications Assistance to Law Enforcement Act (CALEA)
- B. Electronic Communications Privacy Act (ECPA)
- C. Stored Communications Act
- **D. The Fourth Amendment to the U.S. Constitution**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Fourth Amendment protects against unreasonable searches and seizures, requiring law enforcement to obtain a search warrant based on probable cause before searching private emails on computers, except in certain recognized exceptions (such as consent or exigent circumstances).

* Protects privacy rights in digital communication.

* Failure to obtain proper legal authorization can invalidate evidence.

Reference: NIST guidelines and U.S. Supreme Court rulings affirm the Fourth Amendment's application to digital searches.

NEW QUESTION # 48

Which method is used to implement steganography through pictures?

- **A. Least Significant Bit (LSB) insertion**
- B. Metadata alteration
- C. File compression
- D. Encrypting image pixels

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Least Significant Bit (LSB) insertion involves modifying the least significant bits of image pixel data to embed hidden information. Changes are imperceptible to the human eye, making this a common steganographic technique.

* LSB insertion is widely studied and targeted in steganalysis.

* It allows covert data embedding without increasing file size significantly.

Reference:Forensic and anti-forensics manuals reference LSB as a standard image steganography method.

NEW QUESTION # 49

On which file does the Windows operating system store hashed passwords?

- A. Kerberos
- **B. SAM**
- C. System
- D. NTUSER.dat

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Windows stores user account password hashes in the Security Account Manager (SAM) file, located in C:

\Windows\System32\config. This file contains encrypted NTLM password hashes that can be extracted with forensic tools for analysis.

* SAM is critical for authentication evidence.

* The file is locked when Windows is running and must be acquired via imaging or offline analysis.

* Kerberos is an authentication protocol, not a password storage file.

Reference:NIST Windows Forensic Analysis documentation identifies the SAM file as the location of hashed credentials.

NEW QUESTION # 50

A police detective investigating a threat traces the source to a house. The couple at the house shows the detective the only computer the family owns, which is in their son's bedroom. The couple states that their son is presently in class at a local middle school.

How should the detective legally gain access to the computer?

- A. Get a warrant without consent
- B. Wait for the son to return and ask for consent
- **C. Obtain consent to search from the parents**
- D. Search immediately without consent due to emergency

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To legally search the computer located in the home, the detective must obtain consent from someone with authority over the premises - in this case, the parents. Parental consent is generally sufficient for searches within their household unless other legal considerations apply. This ensures compliance with constitutional protections against unlawful searches.

* Obtaining valid consent is a fundamental requirement under the Fourth Amendment for legal search and seizure.

* Forensic investigators must avoid searches without proper consent or a warrant to maintain admissibility of evidence.

Reference:NIST SP 800-101 and standard forensic ethics protocols emphasize obtaining lawful consent or warrants prior to accessing digital evidence.

NEW QUESTION # 51

What is one purpose of steganography?

- A. To encrypt data for security
- B. To delete files securely
- C. To compress large files
- **D. To deliver information secretly**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Steganography is used to conceal information within other seemingly innocuous data, such as embedding messages inside image files, allowing secret delivery of information without detection.

* Unlike encryption, steganography hides the existence of the message itself.

* It is an anti-forensic technique used to evade detection.

Reference: NIST and digital forensics literature describe steganography as covert communication methodology.

NEW QUESTION # 52

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