WGU Digital-Forensics-in-Cybersecurity: Digital Forensics in Cybersecurity (D431/C840) Course Exam test questions - Lead2pass pass exam

1. Which law requires both parties to consent to the recording of a conversation?
   A. Electronic Communications Privacy (ECPA)
   B. Communications Assistance to Law Enforcement Act (CALEA)
   C. USA Patriot Act
   D. Health Insurance Portability and Accountability Act (HIPPA)
   - ANSWER ✓ A. Electronic Communication Privacy (ECPA)

2. Which law is related to the disclosure of personally identifiable protected health information (PHI)?
   A. Federal Privacy Act of 1974
   B. Electronic Communication Privacy Act
   C. Health Insurance Portability and Accountability Act (HIPAA)
   D. CAN-SPAM Act - ANSWER ✓ C. Health Insurance Portability and Accountability Act (HIPAA)

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

Topic	Details

Topic 1	• 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 2	• 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.
Topic 3	• 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 4	• 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	• 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.

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q73-Q78):

NEW QUESTION # 73
A user at a company attempts to hide the combination to a safe that stores confidential information in a data file called vacationdetails.doc.
What is vacationdetails.doc called, in steganographic terms?

- A. Snow
- B. Payload
- C. Carrier
- D. Channel

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In steganography, the file that hides secret information is called the carrier. The carrier file appears normal and contains embedded hidden data (the payload).
* Payload refers to the actual secret data hidden inside the carrier.
* Snow refers to random noise or artifacts, often in images or files.

* Channel refers to the medium or communication path used to transmit data.
Thus, vacationdetails.doc is the carrier file containing the hidden information.
Reference:Standard steganography literature and forensic documentation define the carrier as the file used to conceal payload data.

NEW QUESTION # 74
What is one purpose of steganography?

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

Answer: B

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 # 75
How should a forensic scientist obtain the network configuration from a Windows PC before seizing it from a crime scene?

- A. By opening the Network and Sharing Center
- B. By using the ipconfig command from a command prompt on the computer
- C. By rebooting the computer into safe mode
- D. By checking the system properties

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The ipconfig command executed at a Windows command prompt displays detailed network configuration information such as IP addresses, subnet masks, and default gateways. Collecting this information prior to seizure preserves volatile evidence relevant to the investigation.
* Documenting network settings supports the understanding of the suspect system's connectivity at the time of seizure.
* NIST recommends capturing volatile data (including network configuration) before shutting down or disconnecting a suspect machine.
Reference:NIST SP 800-86 and forensic best practices recommend gathering volatile evidence using system commands like ipconfig.

NEW QUESTION # 76
An employee sends an email message to a fellow employee. The message is sent through the company's messaging server. Which protocol is used to send the email message?

- A. POP3
- B. SNMP
- C. IMAP
- D. SMTP

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
SMTP (Simple Mail Transfer Protocol) is the protocol used to send email messages from a client to a mail server or between mail servers. It handles the transmission of outgoing mail. IMAP and POP3 are protocols used for retrieving email, not sending it. SNMP

is used for network management.
* IMAP and POP3 are for receiving emails.
* SNMP is unrelated to email delivery.
This is documented in RFC 5321 and supported by all standard email system operations, including forensic analyses.

NEW QUESTION # 77
Which method is used to implement steganography through pictures?

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

Answer: B

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 # 78
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