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C840: Digital Forensics in Cybersecurity Pre-Assessment 50 questions fully solved 2023

The chief information officer of an accounting firm believes sensitive data is being exposed on the local network.

Which tool should the IT staff use to gather digital evidence about this security vulnerability? - answer Sniffer

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? - answer Obtain consent to search from the parents

How should a forensic scientist obtain the network configuration from a Windows PC before seizing it from a crime scene? - answer By using the ipconfig command from a command prompt on the computer

The human resources manager of a small accounting firm believes he may have been a victim of a phishing scam. The manager clicked on a link in an email message that asked him to verify the logon credentials for the firm's online bank account.

Which digital evidence should a forensic investigator collect to investigate this incident? - answer Browser cache

After a company's single-purpose, dedicated messaging server is hacked by a cybercriminal, a forensics expert is hired to investigate the crime and collect evidence.

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

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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.
Topic 5	<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.

WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

Which type of storage format should be transported in a special bag to reduce electrostatic interference?

- A. Optical discs
- B. Magnetic media
- C. Solid-state drives
- D. Flash drives

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Magnetic media such as hard drives and magnetic tapes are sensitive to electrostatic discharge (ESD), which can damage data. They must be transported in anti-static bags or containers to reduce the risk of electrostatic interference.

* SSDs and flash drives are less vulnerable to ESD but still benefit from proper packaging.

* Proper handling protocols prevent unintentional data loss or corruption.

Reference: NIST SP 800-101 and forensic evidence handling standards specify anti-static packaging for magnetic storage media.

NEW QUESTION # 70

Which tool can be used to make a bit-by-bit copy of a Windows Phone 8?

- A. Data Doctor
- B. Wolf
- C. Pwnage
- **D. Forensic Toolkit (FTK)**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Forensic Toolkit (FTK) is a comprehensive forensic suite capable of acquiring bit-by-bit images from various devices, including Windows Phone 8, by supporting physical and logical extractions. FTK is widely accepted and used for mobile device forensic imaging.

* Data Doctor is primarily a data recovery tool, not specialized for mobile forensic imaging.

* Pwnage is related to jailbreaking iOS devices.

* Wolf is not a recognized forensic imaging tool for Windows Phone 8.

NIST mobile device forensic standards cite FTK as a preferred tool for mobile device imaging.

NEW QUESTION # 71

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. IMAP
- B. POP3
- C. SNMP
- **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 # 72

Which tool identifies the presence of steganography?

- A. DiskDigger
- **B. Disk Investigator**
- C. ComputerCOP
- D. Forensic Toolkit (FTK)

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Disk Investigator is a forensic tool that can analyze disk images and file systems to identify hidden data, including the presence of steganography by examining slack space, hidden files, and embedded data.

* DiskDigger is mainly a data recovery tool.

* FTK is a comprehensive forensic suite but does not specialize in steganography detection.

* ComputerCOP is a parental control software, not a forensic tool.

Digital forensic best practices recognize Disk Investigator as useful for detecting steganographic content in files and disk areas.

NEW QUESTION # 73

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

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

Answer: B

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 # 74

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