

How to Prepare For Digital-Forensics-in-Cybersecurity Digital Forensics in Cybersecurity (D431/C840) Course Exam?

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 (D431/C840) Course Exam Sample Questions (Q75-Q80):

NEW QUESTION # 75

What is one purpose of steganography?

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

Answer: A

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 # 76

Tom saved a message using the least significant bit (LSB) method in a sound file and uploaded this sound to his own website.

What is the carrier in this example?

- A. The sound file
- B. The least significant bit method
- C. Tom's website
- D. The message

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In steganography, the carrier is the file or medium used to hide the secret message. In this example, the sound file is the carrier because it contains the hidden message embedded using the least significant bit method. The message is the payload, and the website is merely the distribution platform.

- * LSB is the embedding technique, not the carrier.
- * The message is the payload, not the carrier.
- * The website is not involved in data hiding.

NIST and steganography references clearly define the carrier as the container holding the hidden data.

NEW QUESTION # 77

An organization believes that a company-owned mobile phone has been compromised.

Which software should be used to collect an image of the phone as digital evidence?

- A. Forensic Toolkit (FTK)
- B. PTFinder
- C. Data Doctor
- D. Forensic SIM Cloner

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Forensic Toolkit (FTK) is a widely recognized and trusted software suite in digital forensics used to acquire and analyze forensic images of devices, including mobile phones. FTK supports the creation of bit-by-bit images of digital evidence, ensuring the integrity and admissibility of the evidence in legal contexts. This imaging process is crucial in preserving the original state of the device data without alteration.

- * FTK enables forensic investigators to perform logical and physical acquisitions of mobile devices.
- * It maintains the integrity of the evidence by generating cryptographic hash values (MD5, SHA-1) to prove that the image is an exact copy.
- * Other options such as PTFinder or Forensic SIM Cloner focus on specific tasks like SIM card cloning or targeted data extraction but do not provide full forensic imaging capabilities.
- * Data Doctor is more aligned with data recovery rather than forensic imaging.

Reference: According to standard digital forensics methodologies outlined by NIST Special Publication 800-

101 (Guidelines on Mobile Device Forensics) and the SANS Institute Digital Forensics and Incident Response guides, forensic tools used to acquire mobile device images must be capable of bit-stream copying with hash verification, which FTK provides.

NEW QUESTION # 78

Susan was looking at her credit report and noticed that several new credit cards had been opened lately in her name. Susan has not opened any of the credit card accounts herself.

Which type of cybercrime has been perpetrated against Susan?

- A. SQL injection
- B. Cyberstalking
- C. Malware
- D. Identity theft

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Identity theft occurs when an attacker unlawfully obtains and uses another person's personal information to open accounts, access credit, or commit fraud. The opening of credit cards without the victim's consent is a classic example.

- * SQL injection is a web application attack method that does not directly relate to this case.
- * Cyberstalking involves harassment via digital means and is unrelated.
- * Malware is malicious software and may be used to facilitate identity theft but is not the crime itself.

Reference: According to the U.S. Federal Trade Commission (FTC) definitions and NIST Cybersecurity Framework, identity theft is defined as the unauthorized use of someone's personal information for fraudulent purposes, perfectly matching Susan's situation.

NEW QUESTION # 79

A forensic investigator is acquiring evidence from an iPhone.

What should the investigator ensure before the iPhone is connected to the computer?

- A. That the phone has root privilege
- B. That the phone avoids syncing with the computer
- C. That the phone is powered off
- D. That the phone is in jailbreak mode

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Before connecting an iPhone to a forensic workstation, the investigator must ensure that the phone does not sync with the computer.

automatically. Automatic syncing may alter, delete, or overwrite evidence stored on the device or the computer, compromising forensic integrity.

* Jailbreak mode is not necessary and can complicate forensic analysis.

* Powering off the device prevents acquisition of volatile data.

* Root privileges (jailbreak) may aid access but are not mandatory before connection.

NIST mobile device forensic guidelines emphasize disabling automatic sync to preserve data integrity during acquisition.

NEW QUESTION # 80

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