

WGU - Efficient Digital-Forensics-in-Cybersecurity - Exam Digital Forensics in Cybersecurity (D431/C840) Course Exam Course

WGU Course C840 - Digital Forensics in Cybersecurity exam 2024

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?

- A Sniffer
- B Disk analyzer
- C Tracer
- D Virus scanner - correct answer A

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 Obtain a search warrant from the police
- B Seize the computer under the USA Patriot Act
- C Obtain consent to search from the parents
- D Seize the computer under the Computer Security Act - correct answer C

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

- A By using the ipconfig command from a command prompt on the computer
- B By using the tracert command from a command prompt on the computer
- C By logging into the router to which the PC is connected
- D By installing a network packet sniffer on the computer - correct answer A

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q14-Q19):

NEW QUESTION # 14

A forensic investigator needs to know which file type to look for in order to find emails from a specific client. Which file extension is used by Eudora?

- A. .pst
- B. .dbx
- C. .mbx
- D. .ost

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Eudora email client uses the.mbxfile extension to store email messages. The.mbxformat stores emails in a mailbox file similar to the standard mbox format used by other email clients.

- * .dbxis used by Microsoft Outlook Express.
- * .ostand.pstare file types used by Microsoft Outlook.
- * Therefore,.mbxis specific to Eudora.

Reference:Digital forensics literature and software documentation clearly indicate Eudora's.mbxfile format as the repository for its email storage.

NEW QUESTION # 15

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

Answer: D

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 # 16

Which United States law requires telecommunications equipment manufacturers to provide built-in surveillance capabilities for federal agencies?

- A. Electronic Communications Privacy Act (ECPA)
- B. **Communications Assistance to Law Enforcement Act (CALEA)**
- C. The Privacy Protection Act (PPA)
- D. Health Insurance Portability and Accountability Act (HIPAA)

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

CALEA mandates that telecommunications equipment and service providers design systems capable of allowing federal law enforcement to conduct authorized electronic surveillance. This includes wiretapping and data interception capabilities.

* This law is essential for lawful monitoring in investigations.

* It affects hardware design and network infrastructure.

Reference:CALEA is consistently referenced in forensic standards concerning lawful interception requirements.

NEW QUESTION # 17

Which type of information does a Windows SAM file contain?

- A. Encrypted local Windows passwords
- B. Encrypted network passwords
- C. Hash of network passwords
- D. **Hash of local Windows passwords**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Windows Security Account Manager (SAM) file stores hashed passwords for local Windows user accounts. These hashes are used to authenticate users without storing plaintext passwords.

* The SAM file stores local account password hashes, not network passwords.

* Passwords are hashed (not encrypted) using algorithms like NTLM or LM hashes.

* Network password management occurs elsewhere (e.g., Active Directory).

Reference:NIST SP 800-86 and standard Windows forensics texts explain that the SAM file contains hashed local account credentials critical for forensic investigations involving Windows systems.

NEW QUESTION # 18

Where is the default location for 32-bit programs installed by a user on a 64-bit version of Windows 7?

- A. C:\ProgramData
- B. C:\Windows
- C. C:\Program files
- D. **C:\Program files (x86)**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

On 64-bit versions of Windows operating systems (including Windows 7), 32-bit applications are installed by default into the folder C:\Program Files (x86). This separation allows the OS to distinguish between 64-bit and

32-bit applications and apply appropriate system calls and redirection.

* C:\Program Files is reserved for native 64-bit applications.

* C:\ProgramData contains application data shared across users.

* C:\Windows contains system files, not program installations.

This structure is documented in Microsoft Windows Internals and Windows Forensics guides, including official NIST guidelines on Windows forensic investigations.

NEW QUESTION # 19

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