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WGU D431 OA DIGITAL FORENSICS IN
CYBERSECURITY DIAGRAM 2025
ACTUAL EXAM COMPLETE EXAM
QUESTIONS WITH DETAILED
VERIFIED ANSWERS (100% CORRECT
ANSWERS) /ALREADY GRADED A+

a proprietary format that is defined by Guidance Software for use in its tool to store hard drive images and individual files. It includes a hash of the file to ensure nothing was changed when it was copied from the source -ANSWER...Encase

A digital forensics investigation suite by AccessData that runs on Windows Server or server clusters for faster searching and analysis due to data indexing when importing evidence -ANSWER...Forensic Toolkit (FTK)

Library and collection of command-line tools allowing investigation of volume and file system

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

Which storage format is a magnetic drive?

- A. CD-ROM
- B. Blu-ray
- C. SSD
- **D. SATA**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

SATA (Serial ATA) refers to an interface standard commonly used for connecting magnetic hard disk drives (HDDs) and solid-state drives (SSDs) to a computer. The term SATA itself describes the connection, but most HDDs that use SATA as an interface are magnetic drives.

* CD-ROM and Blu-ray are optical storage media, not magnetic.

* SSD (Solid State Drive) uses flash memory, not magnetic storage.

* Magnetic drives rely on spinning magnetic platters, which are typically connected via SATA or other interfaces.

This differentiation is emphasized in digital forensic training and hardware documentation, including those from NIST and forensic hardware textbooks.

NEW QUESTION # 39

A company has identified that a hacker has modified files on one of the company's computers. The IT department has collected the storage media from the hacked computer.

Which evidence should be obtained from the storage media to identify which files were modified?

- **A. File timestamps**
- B. Public IP addresses
- C. Private IP addresses
- D. Operating system version

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

File timestamps, including creation time, last modified time, and last accessed time, are fundamental metadata attributes stored with each file on a file system. When files are modified, these timestamps usually update, providing direct evidence about when changes occurred. Examining file timestamps helps forensic investigators identify which files were altered and estimate the time of unauthorized activity.

* IP addresses (private or public) are network-related evidence, not stored on the storage media's files directly.

* Operating system version is system information but does not help identify specific file modifications.

* Analysis of file timestamps is a standard forensic technique endorsed by NIST SP 800-86 (Guide to Integrating Forensic Techniques into Incident Response) for determining file activity and changes on digital media.

NEW QUESTION # 40

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

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

Answer: A

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 # 41

Which tool should a forensic investigator use to determine whether data are leaving an organization through steganographic methods?

- A. Forensic Toolkit (FTK)
- B. Netstat
- C. Data Encryption Standard (DES)
- D. MP3Stego

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Netstat is a command-line network utility tool used to monitor active network connections, open ports, and network routing tables. In the context of detecting data exfiltration potentially using steganographic methods, netstat can help a forensic investigator identify suspicious or unauthorized network connections through which hidden data may be leaving an organization.

- * While netstat itself does not detect steganography within files, it can be used to monitor data flows and connections to external hosts, which is critical for identifying channels where steganographically hidden data could be transmitted.
- * Data Encryption Standard (DES) is a cryptographic algorithm, not a forensic tool.
- * MP3Stego is a steganography tool for embedding data in MP3 files and is not designed for detection or monitoring.
- * Forensic Toolkit (FTK) is a forensic analysis software focused on acquiring and analyzing data from storage devices, not network monitoring.

Reference: NIST Special Publication 800-86 (Guide to Integrating Forensic Techniques into Incident Response) emphasizes the importance of network monitoring tools like netstat during forensic investigations to detect unauthorized data transmissions. Although steganographic detection requires specialized analysis, identifying suspicious network activity is the first step in uncovering covert channels used for data exfiltration.

NEW QUESTION # 42

Which forensics tool can be used to bypass the passcode of an Apple iPhone running the iOS operating system?

- A. LOphCrack
- B. XRY
- C. iStumbler
- D. Ophcrack

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

XRY is a commercial forensic tool specifically designed to extract data from mobile devices, including Apple iPhones. It has capabilities to bypass or work around iOS passcodes under certain conditions to acquire data for forensic analysis.

- * iStumbler is a Wi-Fi scanning tool.
- * Ophcrack and LOphCrack are password cracking tools for Windows systems, not mobile devices.

XRY is widely referenced in digital forensics training and NIST mobile device forensic guidelines as a leading tool for iOS data

extraction.

NEW QUESTION # 43

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