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WGU D431 DIGITAL FORENSICS IN CYBERSECURITY EXAM 2024 COMPLETE QUESTIONS AND ANSWERS//LATEST UPDATE

Question 1:

What is the primary purpose of digital forensics? A) To secure a network against intrusions
B) To collect, analyze, and preserve electronic evidence
C) To create new cybersecurity policies
D) To train employees on cybersecurity best practices

Answer: B

Question 2:

Which of the following is considered volatile data in digital forensics?
A) Hard drive contents
B) RAM contents
C) USB drive data
D) Cloud storage files

Answer: B

Question 3:

What is the first step in the digital forensic process? A) Analysis
B) Collection
C) Examination
D) Reporting

Answer: B

Question 4:

Which file system is commonly used by Windows operating systems?
A) HFS+
B) EXT4

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q41-Q46):

NEW QUESTION # 41

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

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

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 # 42

Which principle of evidence collection states that access to evidence must be tracked from the time it is seized through its use in court?

- A. Evidence record
- B. Chain of custody
- C. Event log
- D. Audit log

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Chain of Custody (CoC) is the documented and unbroken transfer record of evidence handling, from seizure to presentation in court. It ensures that the evidence has been preserved, controlled, and protected from tampering or alteration.

* Evidence record documents evidence details but is less formal than CoC.

* Event log and audit log are system-generated records and do not replace the formal CoC.

* CoC is a fundamental forensic principle as outlined by NIST SP 800-86 and the Scientific Working Group on Digital Evidence (SWGDE) best practices, ensuring evidence admissibility and reliability in legal proceedings.

NEW QUESTION # 43

A digital forensic examiner receives a computer used in a hacking case. The examiner is asked to extract information from the computer's Registry.

How should the examiner proceed when obtaining the requested digital evidence?

- A. Ensure that any tools and techniques used are widely accepted
- B. Download a tool from a hacking website to extract the data

- C. Investigate whether the computer was properly seized
- D. Enlist a colleague to witness the investigative process

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In digital forensics, the use of reliable, validated, and widely accepted tools and techniques is critical to maintain the integrity and admissibility of digital evidence. According to the National Institute of Standards and Technology (NIST) guidelines and the Scientific Working Group on Digital Evidence (SWGDE) standards, any forensic process must utilize methods that are recognized by the forensic community and have undergone rigorous testing to ensure accuracy and reliability.

- * Using validated tools helps prevent evidence contamination or loss and ensures that results can withstand legal scrutiny.
- * While proper seizure and witnessing are important, the priority in the extraction phase is to use appropriate, trusted tools.
- * Downloading tools from unauthorized or suspicious sources can compromise the evidence and is not an ethical or legal practice.

Reference:NIST SP 800-101 (Guidelines on Mobile Device Forensics) and SWGDE Best Practices emphasize tool validation and adherence to community-accepted methods as foundational principles in forensic examination.

NEW QUESTION # 44

What is a reason to use steganography?

- A. To delete secret data
- B. To save secret data
- C. To erase secret data
- D. To highlight secret data

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Steganography is used to save or embed secret data within another file or medium, allowing covert communication without alerting observers to the presence of the data.

- * The goal is to conceal, not highlight or delete data.
- * It does not erase or delete secret data; instead, it hides it.

This aligns with standard definitions in cybersecurity and forensic literature including NIST's cybersecurity frameworks.

NEW QUESTION # 45

A forensic investigator suspects that spyware has been installed to a Mac OS X computer by way of an update.

Which Mac OS X log or folder stores information about system and software updates?

- A. /var/log/daily.out
- B. /Library/Receipts
- C. /var/vm
- D. /var/spool/cups

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The/Library/Receipts folder on Mac OS X contains receipts that track software installation and updates, including system and application updates. This folder helps forensic investigators determine which updates were installed and when, useful for detecting suspicious or unauthorized software installations like spyware.

- * /var/spool/cups is related to printer spooling.
- * /var/log/daily.out contains daily system log summaries but not detailed update records.
- * /var/vm contains virtual memory files.

NIST and Apple forensics documentation indicate that/Library/Receiptsis a key location for examining software installation history.

NEW QUESTION # 46

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