

Latest WGU Digital-Forensics-in-Cybersecurity Study Notes & Digital-Forensics-in-Cybersecurity Passing Score

WGU C840 Digital Forensics in Cybersecurity Pre-Assessment

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? -
✓✓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? - ✓✓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? - ✓✓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.

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Newest Digital-Forensics-in-Cybersecurity - Latest Digital Forensics in Cybersecurity (D431/C840) Course Exam Study Notes

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

Topic	Details
Topic 1	<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 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 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.
Topic 4	<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 5	<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.

WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q31-Q36):

NEW QUESTION # 31

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. /var/spool/cups
- C. /var/vm
- **D. /Library/Receipts**

Answer: D

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/Receipts is a key location for examining software installation history.

NEW QUESTION # 32

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

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

Answer: D

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 # 33

Which operating system (OS) uses the NTFS (New Technology File System) file operating system?

- A. Mac OS X v10.5
- B. Linux
- C. Mac OS X v10.4
- **D. Windows 8**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NTFS is the primary file system used by Microsoft Windows operating systems starting from Windows NT and continuing through modern versions including Windows 8. NTFS supports advanced features like file permissions, encryption, and journaling, which are critical for modern OS file management.

* Linux typically uses ext3, ext4, or other native file systems, not NTFS as a primary system.

* Mac OS X v10.4 and v10.5 use HFS+ as the native file system, not NTFS.

* Windows 8 uses NTFS as its default file system.

This is documented in official Microsoft and NIST digital forensics resources.

NEW QUESTION # 34

How do forensic specialists show that digital evidence was handled in a protected, secure manner during the process of collecting and analyzing the evidence?

- A. By performing backups
- B. By deleting temporary files
- **C. By maintaining the chain of custody**
- D. By encrypting all evidence

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The chain of custody is a documented, chronological record detailing the seizure, custody, control, transfer, analysis, and disposition of evidence. Maintaining this record proves that the evidence was protected and unaltered, which is essential for court admissibility.

* Each transfer or access must be logged with date, time, and handler.

* Breaks in the chain can compromise the legal validity of evidence.

Reference:According to NIST and forensic best practices, the chain of custody documentation is mandatory for reliable evidence

handling.

NEW QUESTION # 35

While collecting digital evidence from a running computer involved in a cybercrime, the forensic investigator makes a list of items that need to be collected.

Which piece of digital evidence should be collected first?

- A. Chat room logs
- B. Temporary Internet files
- C. Recently accessed files
- **D. Security logs**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When collecting evidence from a running system, volatile and critical evidence such as security logs should be collected first as they are most susceptible to being overwritten or lost. Security logs may contain valuable information on unauthorized access or malicious activity.

* Chat room logs, recently accessed files, and temporary internet files are important but often less volatile or can be recovered from disk later.

* NIST SP 800-86 and SANS Incident Response Guidelines prioritize the collection of volatile logs and memory contents first.

This approach helps ensure preservation of time-sensitive data critical for forensic analysis.

NEW QUESTION # 36

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