

# Digital-Forensics-in-Cybersecurity Latest Test Experience

## - Digital-Forensics-in-Cybersecurity Training Questions

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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Domain Incident Reporting and Communication:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Domain Digital Forensics in Cybersecurity:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Domain Evidence Analysis with Forensic Tools:</b> 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Domain Recovery of Deleted Files and Artifacts:</b> 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.</li> </ul>

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## **Pass Guaranteed Quiz Latest Digital-Forensics-in-Cybersecurity - Digital Forensics in Cybersecurity (D431/C840) Course Exam Latest Test Experience**

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## **WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q80-Q85):**

### **NEW QUESTION # 80**

Which characteristic applies to magnetic drives compared to solid-state drives (SSDs)?

- A. Higher cost
- B. Less susceptible to damage
- C. Faster read/write speeds
- **D. Lower cost**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Magnetic hard drives generally have a lower cost per gigabyte compared to solid-state drives (SSDs).

However, they are more susceptible to mechanical damage and slower in data access.

\* SSDs have no moving parts and provide better durability and speed but at a higher price.

\* Forensics practitioners consider these differences during evidence acquisition.

Reference: Digital forensics texts and hardware overviews describe magnetic drives as cost-effective but fragile compared to SSDs.

### NEW QUESTION # 81

On which file does the Windows operating system store hashed passwords?

- A. NTUSER.dat
- B. System
- C. SAM
- D. Kerberos

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Windows stores user account password hashes in the Security Account Manager (SAM) file, located in C:

\Windows\System32\config. This file contains encrypted NTLM password hashes that can be extracted with forensic tools for analysis.

\* SAM is critical for authentication evidence.

\* The file is locked when Windows is running and must be acquired via imaging or offline analysis.

\* Kerberos is an authentication protocol, not a password storage file.

Reference: NIST Windows Forensic Analysis documentation identifies the SAM file as the location of hashed credentials.

### NEW QUESTION # 82

Which term describes the used space between the end of a file and the end of the last cluster assigned to the file?

- A. Host protected area
- B. Unallocated space
- C. File slack
- D. Volume slack

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

File slack is the space between the logical end of a file and the physical end of the last cluster allocated to the file. This space may contain residual data from previously deleted files or fragments, making it significant in forensic investigations.

\* Unallocated space refers to clusters not currently assigned to any file.

\* Volume slack includes slack space at the volume level but is less specific.

\* Host protected area is a reserved part of the disk for system use, unrelated to slack space.

\* File slack is a recognized forensic artifact often examined for hidden data or remnants.

Reference: This concept is extensively described in forensic textbooks and NIST publications on file systems, including SP 800-86 and SWGDE best practices.

### NEW QUESTION # 83

A forensic examiner is reviewing a laptop running OS X which has been compromised. The examiner wants to know if any shell commands were executed by any of the accounts.

Which log file or folder should be reviewed?

- A. /Users/<user>/Library/Preferences
- B. /var/vm
- C. /var/log
- D. /Users/<user>/.bash\_history

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The .bash\_history file located in each user's home directory (e.g., /Users/<user>/.bash\_history) records the history of shell commands entered by the user in bash shell sessions. Reviewing this file allows investigators to see the commands executed by a specific user.

\* /var/vm contains virtual memory swap files, not command history.

\* /var/log contains system logs but not individual user shell command history.

\* /Users/<user>/Library/Preferences stores application preferences.

NIST guidelines and macOS forensics literature confirm `bash_history` as the standard location for shell command histories on OS X systems.

#### NEW QUESTION # 84

Which information is included in an email header?

- A. Sender's MAC address
- B. Number of pages
- C. Message-Digest
- **D. Content-Type**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

An email header contains metadata about the email including sender, receiver, routing information, and content details. The `Content-Type` header specifies the media type of the email body (e.g., `text/plain`, `text/html`, `multipart/mixed`), indicating how the email content should be interpreted.

\* Sender's MAC address is not typically included in email headers.

\* Number of pages is not relevant to email metadata.

\* Message-Digest is a term related to cryptographic hashes but is not a standard email header field.

Reference: RFC 5322 and forensic email analysis references outline that email headers contain fields like `Content-Type` describing the format of the message content, essential for proper parsing and forensic examination.

#### NEW QUESTION # 85

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