

Digital-Forensics-in-Cybersecurity Study Tool Make You Master Digital-Forensics-in-Cybersecurity Exam in a Short Time

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 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 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 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.

WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q32-Q37):

NEW QUESTION # 32

Which file stores local Windows passwords in the Windows\System32\ directory and is subject to being cracked by using a live CD?

- A. IPsec
- **B. SAM**
- C. HAL
- D. Ntldr

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The SAM (Security Account Manager) file located in the Windows\System32\config directory stores hashed local user account passwords. It can be accessed and extracted using a live CD or bootable forensic tool, which allows the forensic investigator to bypass the running operating system and avoid altering the evidence.

* IPsec is related to network security policies, not password storage.

* HAL (Hardware Abstraction Layer) is a system file managing hardware interaction.

* Ntldr is a boot loader file in Windows NT systems.

Cracking password hashes extracted from the SAM file is a common forensic practice to recover user passwords during investigations.

Reference: NIST Special Publication 800-86 and Windows forensic textbooks confirm that the SAM file is the repository of local password hashes accessible via forensic live CDs or imaging.

NEW QUESTION # 33

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 # 34

An organization has identified a system breach and has collected volatile data from the system.

Which evidence type should be collected next?

- A. Temporary data
- B. File timestamps
- C. Running processes
- **D. Network connections**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In incident response, after collecting volatile data (such as contents of RAM), the next priority is often to collect network-related evidence such as active network connections. Network connections can reveal ongoing communications, attacker activity, command and control channels, or data exfiltration paths.

* Running processes and temporary data are also volatile but typically collected simultaneously or immediately after volatile memory.

* File timestamps relate to non-volatile data and are collected later after volatile data acquisition to preserve evidence integrity.

* This sequence is supported by NIST SP 800-86 and SANS Incident Handler's Handbook which emphasize the volatility of evidence and recommend capturing network state immediately after memory.

NEW QUESTION # 35

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

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

Answer: A

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 # 36

Which method of copying digital evidence ensures proper evidence collection?

- A. File-level copy
- B. Encrypted transfer
- C. Bit-level copy
- D. Cloud backup

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A bit-level (bitstream) copy creates an exact sector-by-sector duplicate of the original media, capturing all files, deleted data, and slack space. This method is essential to preserve the entirety of digital evidence without modification.

* Bit-level imaging maintains forensic soundness.

* It allows investigators to perform analysis without altering original data.

Reference: NIST SP 800-86 and digital forensics best practices emphasize bit-level copying for evidence acquisition.

NEW QUESTION # 37

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