

Exam Digital-Forensics-in-Cybersecurity Quick Prep - Quiz Realistic WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Dumps PDF

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 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 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 3	<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 4	<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 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.

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q52-Q57):

NEW QUESTION # 52

Which method is used to implement steganography through pictures?

- **A. Least Significant Bit (LSB) insertion**
- B. Encrypting image pixels
- C. File compression
- D. Metadata alteration

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Least Significant Bit (LSB) insertion involves modifying the least significant bits of image pixel data to embed hidden information. Changes are imperceptible to the human eye, making this a common steganographic technique.

* LSB insertion is widely studied and targeted in steganalysis.

* It allows covert data embedding without increasing file size significantly.

Reference:Forensic and anti-forensics manuals reference LSB as a standard image steganography method.

NEW QUESTION # 53

A cybercriminal communicates with his compatriots using steganography. The FBI discovers that the criminal group uses white space to hide data in photographs.

Which tool can the cybercriminals use to facilitate this type of communication?

- A. QuickStego
- B. Wolf
- C. Steganophony
- **D. Snow**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Snow is a tool that encodes hidden messages using whitespace characters (spaces and tabs), which can be embedded in text and sometimes in image file metadata or formats that allow invisible characters. It is commonly used to hide data in plain sight, including within digital images.

* Steganophony focuses on hiding data in VoIP.

* Wolf is not recognized as a steganography tool for whitespace.

* QuickStego is another tool for text-based steganography but less commonly associated with whitespace specifically.

Forensic and cybersecurity literature often cites Snow as the preferred tool for whitespace-based steganography.

NEW QUESTION # 54

A victim of Internet fraud fell for an online offer after using a search engine to find a deal on an expensive software purchase. Once the victim learned about the fraud, he contacted a forensic investigator for help.

Which digital evidence should the investigator collect?

- A. Whois records
- **B. Computer logs**
- C. Email headers
- D. Virus signatures

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Internet fraud investigations, computer logs are critical because they provide a record of user activity, including browsing history, downloads, and system events. These logs can help establish a timeline, identify malicious access, and confirm fraudulent transactions.

* Computer logs may include browser history, system event logs, and application logs that document the victim's interaction with the fraudulent offer.

* Whois records help identify domain registration details but are secondary evidence.

* Email headers are relevant if communication via email was part of the fraud but less critical than logs that show direct interaction.

* Virus signatures are used in malware investigations, not directly relevant to fraud evidence collection.

Reference: According to guidelines by the International Journal of Digital Crime and Forensics and the SANS Institute, capturing logs is essential in building a case for Internet fraud as it provides objective data about the victim's system and activities.

NEW QUESTION # 55

Which technique allows a cybercriminal to hide information?

- A. Cryptography
- **B. Steganography**
- C. Encryption
- D. Steganalysis

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Steganography is the technique of hiding information within another file, message, image, or medium to conceal the existence of the information itself. It differs from encryption in that the data is hidden, not just scrambled.

* Steganalysis is the detection or analysis of hidden data.

* Encryption and cryptography involve scrambling data but do not inherently hide its existence.

NIST and digital forensics guidelines define steganography as the art of concealed writing or data hiding, used by criminals to evade detection.

NEW QUESTION # 56

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?

- A. Antivirus
- **B. Sniffer**
- C. Firewall
- D. Packet filter

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A sniffer, also known as a packet analyzer, captures network traffic in real time and allows IT staff to monitor and analyze data packets passing through the network. This is crucial when investigating potential data leaks or network vulnerabilities. Using a sniffer helps identify unauthorized transmissions of sensitive data and trace suspicious activity at the packet level.

* Sniffers collect raw network data which can be analyzed for patterns or anomalies.

* According to NIST guidelines on network forensics, packet capture tools (sniffers) are essential in gathering digital evidence related to network security incidents.

Reference: NIST Special Publication 800-86 (Guide to Integrating Forensic Techniques into Incident Response) highlights the importance of sniffers in network-based investigations.

NEW QUESTION # 57

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