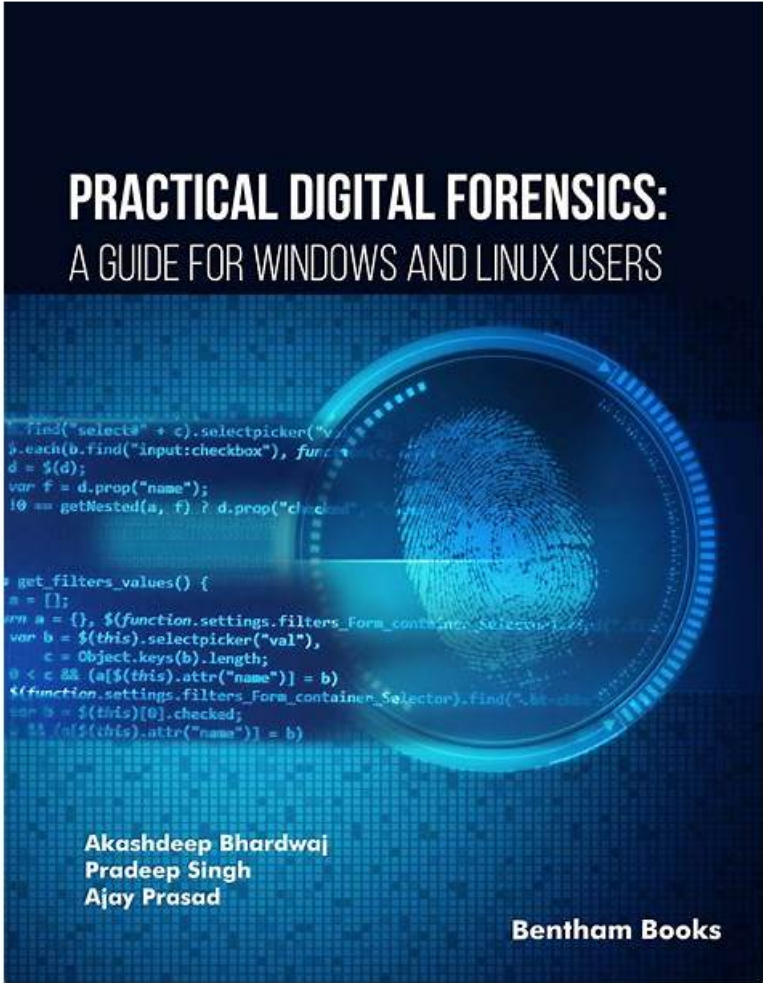# Digital-Forensics-in-Cybersecurity Preparation | Exam Digital-Forensics-in-Cybersecurity PDF

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

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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 (Q54-Q59):

NEW QUESTION # 54
A user at a company attempts to hide the combination to a safe that stores confidential information in a data file called vacationdetails.doc.
What is vacationdetails.doc called, in steganographic terms?

- A. Channel
- B. Payload
- C. Snow
- D. Carrier

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In steganography, the file that hides secret information is called the carrier. The carrier file appears normal and contains embedded hidden data (the payload).
* Payload refers to the actual secret data hidden inside the carrier.
* Snow refers to random noise or artifacts, often in images or files.
* Channel refers to the medium or communication path used to transmit data.
Thus, vacationdetails.doc is the carrier file containing the hidden information.
Reference: Standard steganography literature and forensic documentation define the carrier as the file used to conceal payload data.

NEW QUESTION # 55

An employee sends an email message to a fellow employee. The message is sent through the company's messaging server.
Which protocol is used to send the email message?

- A. IMAP
- B. SNMP
- C. SMTP
- D. POP3

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
SMTP (Simple Mail Transfer Protocol) is the protocol used to send email messages from a client to a mail server or between mail servers. It handles the transmission of outgoing mail. IMAP and POP3 are protocols used for retrieving email, not sending it. SNMP is used for network management.
* IMAP and POP3 are for receiving emails.
* SNMP is unrelated to email delivery.
This is documented in RFC 5321 and supported by all standard email system operations, including forensic analyses.

NEW QUESTION # 56
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. Steganophony
- B. Wolf
- C. Snow
- D. QuickStego

Answer: C

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 # 57
After a company's single-purpose, dedicated messaging server is hacked by a cybercriminal, a forensics expert is hired to investigate the crime and collect evidence.
Which digital evidence should be collected?

- A. Server configuration files
- B. User login credentials
- C. Firewall logs
- D. Email contents

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Firewall logs record network traffic to and from the messaging server and can provide evidence of unauthorized access attempts or data exfiltration. Collecting these logs allows investigators to reconstruct the attack timeline and identify the attacker's IP address and methods.
* Firewall logs are critical for network-level forensics.

* According to NIST SP 800-86, log files provide primary evidence for intrusion investigations.
Reference:NIST guidelines on incident handling emphasize collecting firewall logs to track attacker behavior.

NEW QUESTION # 58
Which type of information does a Windows SAM file contain?

- A. Hash of local Windows passwords
- B. Encrypted local Windows passwords
- C. Hash of network passwords
- D. Encrypted network passwords

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The Windows Security Account Manager (SAM) file stores hashed passwords for local Windows user accounts. These hashes are used to authenticate users without storing plaintext passwords.
* The SAM file stores local account password hashes, not network passwords.
* Passwords are hashed (not encrypted) using algorithms like NTLM or LM hashes.
* Network password management occurs elsewhere (e.g., Active Directory).
Reference:NIST SP 800-86 and standard Windows forensics texts explain that the SAM file contains hashed local account credentials critical for forensic investigations involving Windows systems.

NEW QUESTION # 59
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