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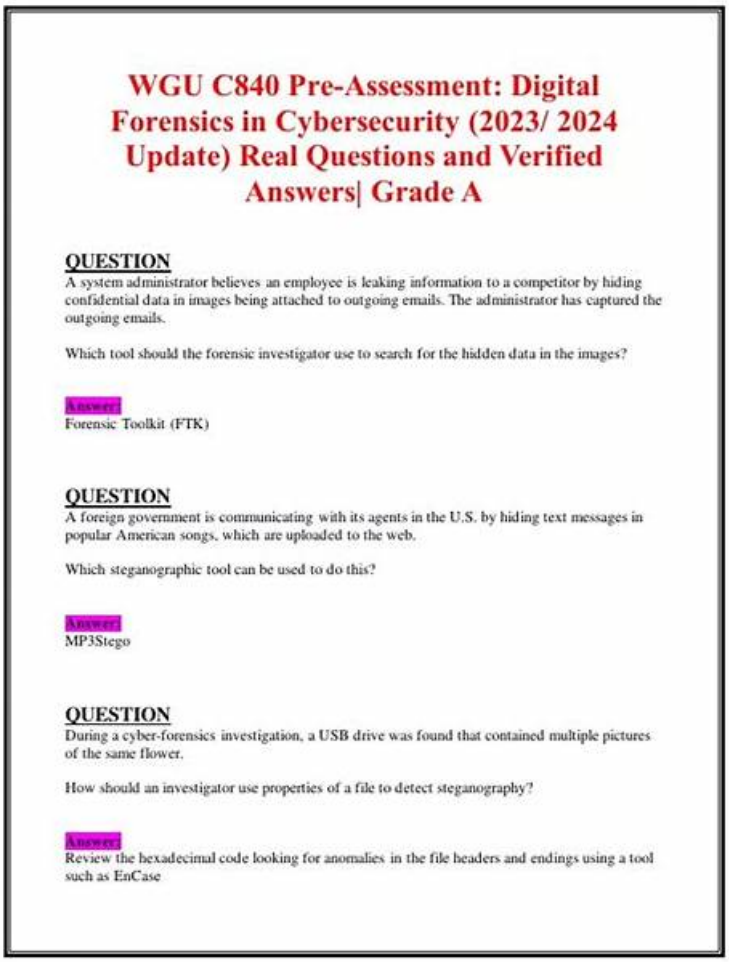

WGU C840 Pre-Assessment: Digital Forensics in Cybersecurity (2023/ 2024 Update) Real Questions and Verified Answers| Grade A

QUESTION
A system administrator believes an employee is leaking information to a competitor by hiding confidential data in images being attached to outgoing emails. The administrator has captured the outgoing emails.

Which tool should the forensic investigator use to search for the hidden data in the images?

Answer:
Forensic Toolkit (FTK)

QUESTION
A foreign government is communicating with its agents in the U.S. by hiding text messages in popular American songs, which are uploaded to the web.

Which steganographic tool can be used to do this?

Answer:
MP3Stego

QUESTION
During a cyber-forensics investigation, a USB drive was found that contained multiple pictures of the same flower.

How should an investigator use properties of a file to detect steganography?

Answer:
Review the hexadecimal code looking for anomalies in the file headers and endings using a tool such as EnCase

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

Topic	Details
Topic 1	• 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	• 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	• 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 4	• 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	• 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.

WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21
A forensic specialist is about to collect digital evidence from a suspect's computer hard drive. The computer is off.
What should be the specialist's first step?

- A. Make a forensic copy of the computer's hard drive.
- B. Turn the computer on and photograph the desktop.
- C. Turn the computer on and remove any malware.
- D. Carefully review the chain of custody form.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Before any action on evidence, especially when seizing or processing digital devices, the forensic specialist must first carefully review and document the chain of custody (CoC) to ensure proper handling and legal compliance. This includes verifying seizure procedures

and documenting the status of the device before any interaction.
* Turning the computer on prematurely risks altering or destroying volatile data.
* Making a forensic copy (imaging) can only happen after proper documentation and preservation steps.
* Photographing the desktop is relevant only after power-on but only if approved and documented.
This process aligns with NIST guidelines (SP 800-86) and the Scientific Working Group on Digital Evidence (SWGDE) principles emphasizing preservation and documentation as foundational steps.

NEW QUESTION # 22
Which law is related to the disclosure of personally identifiable protected health information (PHI)?

- A. Electronic Communications Privacy Act (ECPA)
- B. Communications Assistance to Law Enforcement Act (CALEA)
- C. Health Insurance Portability and Accountability Act (HIPAA)
- D. The Privacy Protection Act (PPA)

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
HIPAA establishes standards to protect sensitive patient health information (PHI) and regulates the use and disclosure of such information. Forensic investigators dealing with health data must comply with HIPAA to avoid legal violations.
* HIPAA compliance is critical when handling medical records in investigations.
* Breach of PHI privacy can result in civil and criminal penalties.
Reference:HIPAA is widely referenced in cybersecurity and forensic policies relating to healthcare data protection.

NEW QUESTION # 23
Which Windows 7 operating system log stores events collected from remote computers?

- A. ForwardedEvents
- B. Security
- C. Application
- D. System

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
TheForwardedEventslog in Windows 7 is specifically designed to store events collected from remote computers via event forwarding. This log is part of the Windows Event Forwarding feature used in enterprise environments to centralize event monitoring.
* TheSystemandApplicationlogs store local system and application events.
* TheSecuritylog stores local security-related events.
* ForwardedEventscollects and stores events forwarded from other machines.
Microsoft documentation and NIST SP 800-86 mention the use of ForwardedEvents for centralized event log collection in investigations.

NEW QUESTION # 24
Which Windows component is responsible for reading the boot.ini file and displaying the boot loader menu on Windows XP during the boot process?

- A. NTLDR
- B. Winload.exe
- C. BCD
- D. BOOTMGR

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:

NTLDR (NT Loader) is the boot loader for Windows NT-based systems including Windows XP. It reads the boot.ini configuration file and displays the boot menu, initiating the boot process.
* Later Windows versions (Vista and above) replaced NTLDR with BOOTMGR.
* Understanding boot components assists forensic investigators in boot process analysis.
Reference:Microsoft technical documentation and forensic training materials outline NTLDR's role in legacy Windows systems.

NEW QUESTION # 25
How should a forensic scientist obtain the network configuration from a Windows PC before seizing it from a crime scene?

- A. By opening the Network and Sharing Center
- B. By using the ipconfig command from a command prompt on the computer
- C. By rebooting the computer into safe mode
- D. By checking the system properties

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The ipconfig command executed at a Windows command prompt displays detailed network configuration information such as IP addresses, subnet masks, and default gateways. Collecting this information prior to seizure preserves volatile evidence relevant to the investigation.
* Documenting network settings supports the understanding of the suspect system's connectivity at the time of seizure.
* NIST recommends capturing volatile data (including network configuration) before shutting down or disconnecting a suspect machine.
Reference:NIST SP 800-86 and forensic best practices recommend gathering volatile evidence using system commands like ipconfig.

NEW QUESTION # 26
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