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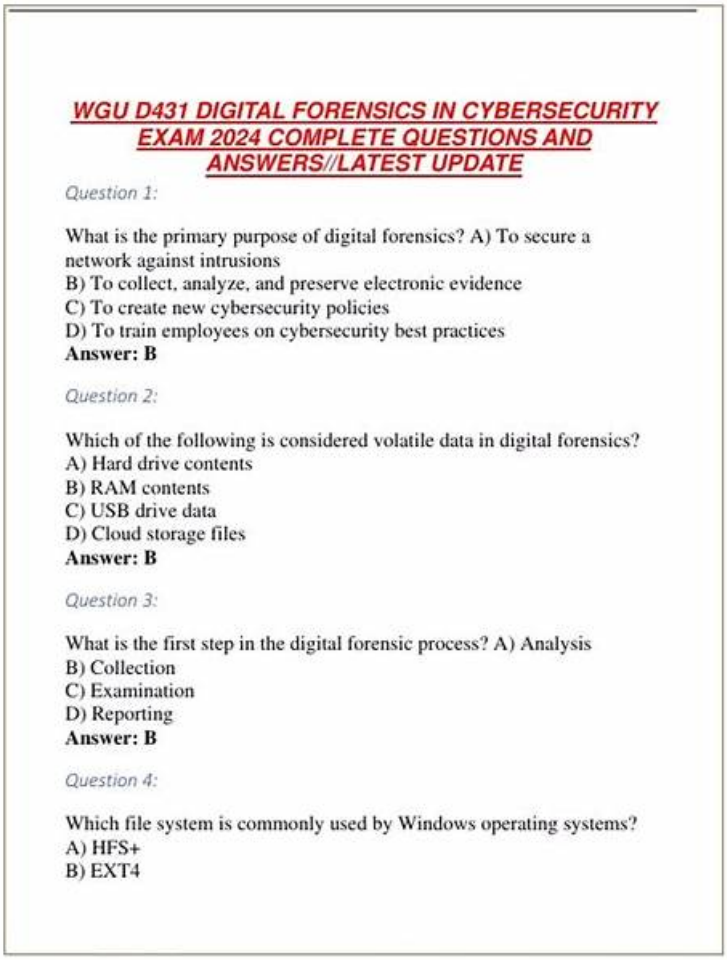

WGU D431 DIGITAL FORENSICS IN CYBERSECURITY EXAM 2024 COMPLETE QUESTIONS AND ANSWERS//LATEST UPDATE

Question 1:

What is the primary purpose of digital forensics? A) To secure a network against intrusions
B) To collect, analyze, and preserve electronic evidence
C) To create new cybersecurity policies
D) To train employees on cybersecurity best practices
Answer: B

Question 2:

Which of the following is considered volatile data in digital forensics?
A) Hard drive contents
B) RAM contents
C) USB drive data
D) Cloud storage files
Answer: B

Question 3:

What is the first step in the digital forensic process? A) Analysis
B) Collection
C) Examination
D) Reporting
Answer: B

Question 4:

Which file system is commonly used by Windows operating systems?
A) HFS+
B) EXT4

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50
How do forensic specialists show that digital evidence was handled in a protected, secure manner during the process of collecting and analyzing the evidence?

- A. By performing backups
- B. By deleting temporary files
- C. By encrypting all evidence
- D. By maintaining the chain of custody

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The chain of custody is a documented, chronological record detailing the seizure, custody, control, transfer, analysis, and disposition of evidence. Maintaining this record proves that the evidence was protected and unaltered, which is essential for court admissibility.
* Each transfer or access must be logged with date, time, and handler.
* Breaks in the chain can compromise the legal validity of evidence.
Reference:According to NIST and forensic best practices, the chain of custody documentation is mandatory for reliable evidence handling.

NEW QUESTION # 51
Which operating system (OS) uses the NTFS (New Technology File System) file operating system?

- A. Windows 8
- B. Mac OS X v10.5
- C. Linux
- D. Mac OS X v10.4

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
NTFS is the primary file system used by Microsoft Windows operating systems starting from Windows NT and continuing through modern versions including Windows 8. NTFS supports advanced features like file permissions, encryption, and journaling, which are critical for modern OS file management.
* Linux typically uses ext3, ext4, or other native file systems, not NTFS as a primary system.
* Mac OS X v10.4 and v10.5 use HFS+ as the native file system, not NTFS.
* Windows 8 uses NTFS as its default file system.
This is documented in official Microsoft and NIST digital forensics resources.

NEW QUESTION # 52
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 remove any malware.
- C. Carefully review the chain of custody form.
- D. Turn the computer on and photograph the desktop.

Answer: C

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 # 53
Which tool should a forensic investigator use to determine whether data are leaving an organization through steganographic methods?

- A. MP3Stego
- B. Data Encryption Standard (DES)
- C. Netstat
- D. Forensic Toolkit (FTK)

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Netstatis a command-line network utility tool used to monitor active network connections, open ports, and network routing tables. In the context of detecting data exfiltration potentially using steganographic methods, netstat can help a forensic investigator identify suspicious or unauthorized network connections through which hidden data may be leaving an organization.
* While netstat itself does not detect steganography within files, it can be used to monitor data flows and connections to external hosts, which is critical for identifying channels where steganographically hidden data could be transmitted.
* Data Encryption Standard (DES)is a cryptographic algorithm, not a forensic tool.
* MP3Stegois a steganography tool for embedding data in MP3 files and is not designed for detection or monitoring.
* Forensic Toolkit (FTK)is a forensic analysis software focused on acquiring and analyzing data from storage devices, not network monitoring.
Reference:NIST Special Publication 800-86 (Guide to Integrating Forensic Techniques into Incident Response) emphasizes the importance of network monitoring tools like netstat during forensic investigations to detect unauthorized data transmissions. Although steganographic detection requires specialized analysis, identifying suspicious network activity is the first step in uncovering covert channels used for data exfiltration.

NEW QUESTION # 54
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. Sniffer
- B. Firewall
- C. Antivirus
- D. Packet filter

Answer: A

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 # 55
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