

# WGU Digital-Forensics-in-Cybersecurity Exam Questions Preparation Material By RealVCE

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## WGU D432 – DIGITAL FORENSICS IN CYBERSECURITY ACTUAL REAL EXAM CORRECT QUESTIONS AND ANSWERS 2024.

American Standard Code for Information Interchange (ASCII) - ANSWER >>>A set of codes defining all the various keystrokes you could make, including letters, numbers, characters, and even the spacebar and return keys.

Anonymous remailing - ANSWER >>>The process of sending an email message to an anonymizer. The anonymizer strips identifying information from an email message before forwarding it with the anonymous mailing computer's IP address.

Anti-forensics - ANSWER >>>The actions that perpetrators take to conceal their locations, activities, or identities.

Asymmetric cryptography - ANSWER >>>Cryptography wherein two keys are used: one to encrypt the message and another to decrypt it.

Asynchronous transfer mode (ATM) - ANSWER >>>A high-speed connection technology that uses fixed-length, 53-byte packets called cells.

Authenticate - ANSWER >>>To verify the identity of a person, or to verify evidence.

Base transceiver station (BTS) - ANSWER >>>The part of the cell network responsible for communications between the mobile phone and the network switching system.

Basic input/output system (BIOS) - ANSWER >>>The basic instructions stored on a chip for booting up the computer.

Bit-level information - ANSWER >>>Information at the level of actual 1s and 0s stored in memory or on the storage device.

Block cipher - ANSWER >>>A form of cryptography that encrypts data in blocks; 64-bit blocks are quite common, although some algorithms (like AES) use larger blocks.

Bootstrap environment - ANSWER >>>A special program, such as U-Boot or RedBoot, that is stored in a special section of the flash memory.

Brute-force attack - ANSWER >>>An attack in which the attacker tries to decrypt a message by simply applying every possible key in the keyspace.

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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

**>> Digital-Forensics-in-Cybersecurity Exam Pattern <<**

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

### **NEW QUESTION # 52**

The chief executive officer (CEO) of a small computer company has identified a potential hacking attack from an outside competitor. Which type of evidence should a forensics investigator use to identify the source of the hack?

- A. File system metadata
- B. Browser history
- **C. Network transaction logs**
- D. Email archives

### **Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Network transaction logs capture records of network connections, including source and destination IP addresses, ports, and timestamps. These logs are essential in identifying the attacker's origin and understanding the nature of the intrusion.

\* Network logs provide traceability back to the attacker.

\* Forensic procedures prioritize collecting network logs to identify unauthorized access.

Reference: NIST SP 800-86 discusses the importance of network logs in digital investigations to attribute cyberattacks.

### **NEW QUESTION # 53**

Which universal principle must be observed when handling digital evidence?

- A. Avoid making changes to the evidence
- B. Get the signatures of two witnesses
- C. Keep the evidence in a plastic bag
- D. Make a copy and analyze the original

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The foremost principle in digital forensics is never altering the original evidence. This ensures integrity, authenticity, and admissibility in court.

- \* Investigators analyze forensic copies, not originals.
- \* Write-blockers and hashing are used to prevent changes.
- \* Any alteration-intentional or accidental-can invalidate evidence.

Reference:NIST SP 800-86 and SP 800-101 define the unaltered preservation of evidence as the first and most essential forensic rule.

#### NEW QUESTION # 54

A forensic investigator needs to identify where email messages are stored on a Microsoft Exchange server.

Which file extension is used by Exchange email servers to store the mailbox database?

- A. .mail
- B. .db
- C. .edb
- D. .nsf

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Microsoft Exchange Server uses the.edbfile extension for its Extensible Storage Engine (ESE) database files.

These.edbfiles contain the mailbox data including emails, calendar items, and contacts.

- \* .nsfis used by IBM Lotus Notes.
- \* .mailand.dbare generic extensions but not standard for Exchange.
- \* The.edbfile is the primary data store for Exchange mailboxes.

Reference:According to Microsoft technical documentation and forensic manuals, the Exchange mailbox database is stored in.edbfiles, which forensic examiners analyze to recover email evidence.

#### NEW QUESTION # 55

A forensic investigator needs to know which file type to look for in order to find emails from a specific client.

Which file extension is used by Eudora?

- A. .mbx
- B. .ost
- C. .pst
- D. .dbx

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Eudora email client uses the.mbxfile extension to store email messages. The.mbxformat stores emails in a mailbox file similar to the standard mbox format used by other email clients.

- \* .dbxis used by Microsoft Outlook Express.
- \* .ostand.pstare file types used by Microsoft Outlook.
- \* Therefore,.mbxis specific to Eudora.

Reference:Digital forensics literature and software documentation clearly indicate Eudora's.mbxfile format as the repository for its

email storage.

### NEW QUESTION # 56

A forensic scientist is examining a computer for possible evidence of a cybercrime.

Why should the forensic scientist copy files at the bit level instead of the OS level when copying files from the computer to a forensic computer?

- A. Copying files at the OS level will copy extra information that is unnecessary.
- B. Copying files at the OS level changes the timestamp of the files.
- C. Copying files at the OS level takes too long to be practical.
- D. **Copying files at the OS level fails to copy deleted files or slack space.**

#### Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Bit-level (or bit-stream) copying captures every bit on the storage media, including files, deleted files, slack space (unused space within a cluster), and unallocated space. This ensures all digital evidence, including artifacts not visible at the OS level, is preserved for analysis.

- \* Copying at the OS level captures only allocated files visible in the file system, missing deleted files and slack space.
- \* Bit-level copying is a cornerstone of forensic best practices as specified in NIST SP 800-86 and SWGDE guidelines.
- \* Timestamp changes and unnecessary information issues are secondary concerns compared to the completeness of evidence.

### NEW QUESTION # 57

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