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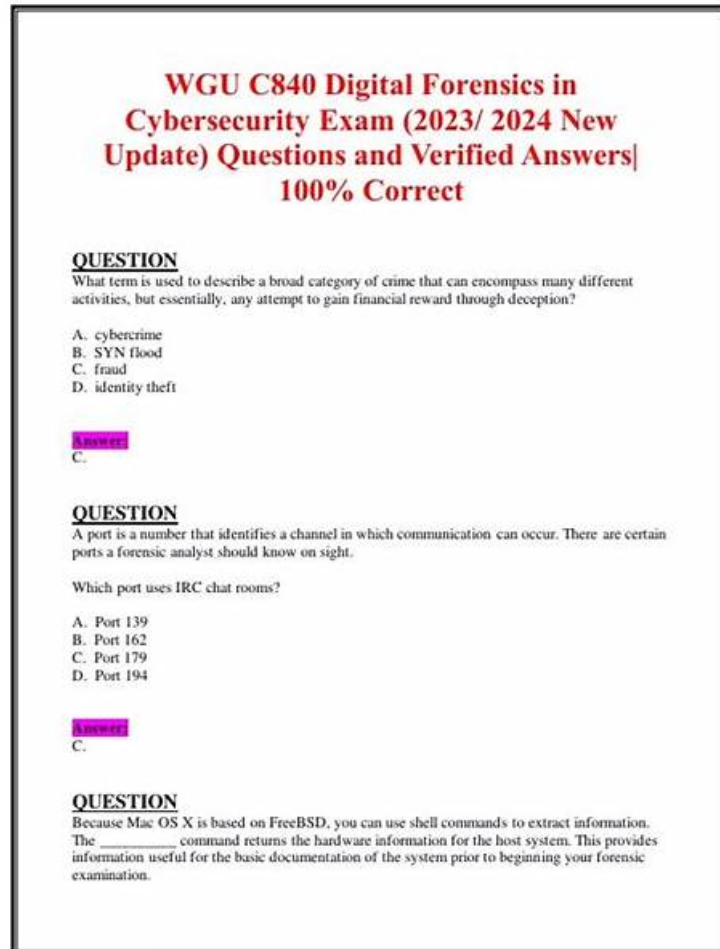
WGU C840 Digital Forensics in Cybersecurity Exam (2023/ 2024 New Update) Questions and Verified Answers| 100% Correct

QUESTION

What term is used to describe a broad category of crime that can encompass many different activities, but essentially, any attempt to gain financial reward through deception?

A. cybercrime
B. SYN flood
C. fraud
D. identity theft

Answer:
C.

QUESTION

A port is a number that identifies a channel in which communication can occur. There are certain ports a forensic analyst should know on sight.

Which port uses IRC chat rooms?

A. Port 139
B. Port 162
C. Port 179
D. Port 194

Answer:
C.

QUESTION

Because Mac OS X is based on FreeBSD, you can use shell commands to extract information. The _____ command returns the hardware information for the host system. This provides information useful for the basic documentation of the system prior to beginning your forensic examination.

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q45-Q50):

NEW QUESTION # 45
Which law or guideline lists the four states a mobile device can be in when data is extracted from it?

- A. Communications Assistance to Law Enforcement Act (CALEA)
- B. Health Insurance Portability and Accountability Act (HIPAA)
- C. NIST SP 800-72 Guidelines
- D. Electronic Communications Privacy Act (ECPA)

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
NIST Special Publication 800-72 provides guidelines for mobile device forensics and identifies four device states during data extraction: active, idle, powered off, and locked. These states influence how data can be accessed and preserved.
* Understanding these states helps forensic investigators select appropriate acquisition techniques.
* NIST SP 800-72 is a key reference for mobile device forensic methodologies.
Reference:NIST SP 800-72 offers authoritative guidelines on handling mobile device data in forensic investigations.

NEW QUESTION # 46
Which file system is supported by Mac?

- A. FAT32
- B. Hierarchical File System Plus (HFS+)
- C. NTFS
- D. EXT4

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Mac systems traditionally use the Hierarchical File System Plus (HFS+), which supports features such as journaling and metadata handling suited for Mac OS environments. Newer versions use APFS but HFS+ remains relevant.
* NTFS is primarily a Windows file system.
* EXT4 is a Linux file system.
* FAT32 is a generic cross-platform file system but lacks advanced features.
Reference:Apple and NIST documentation confirm HFS+ as a Mac-supported file system for forensic analysis.

NEW QUESTION # 47
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 takes too long to be practical.
- B. Copying files at the OS level fails to copy deleted files or slack space.
- C. Copying files at the OS level changes the timestamp of the files.
- D. Copying files at the OS level will copy extra information that is unnecessary.

Answer: B

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 # 48
Which principle of evidence collection states that access to evidence must be tracked from the time it is seized through its use in court?

- A. Event log
- B. Audit log
- C. Evidence record
- D. Chain of custody

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The Chain of Custody (CoC) is the documented and unbroken transfer record of evidence handling, from seizure to presentation in court. It ensures that the evidence has been preserved, controlled, and protected from tampering or alteration.
* Evidence record documents evidence details but is less formal than CoC.
* Event log and audit log are system-generated records and do not replace the formal CoC.
* CoC is a fundamental forensic principle as outlined by NIST SP 800-86 and the Scientific Working Group on Digital Evidence (SWGDE) best practices, ensuring evidence admissibility and reliability in legal proceedings.

NEW QUESTION # 49
A digital forensic examiner receives a computer used in a hacking case. The examiner is asked to extract information from the computer's Registry.
How should the examiner proceed when obtaining the requested digital evidence?

- A. Download a tool from a hacking website to extract the data
- B. Enlist a colleague to witness the investigative process
- C. Ensure that any tools and techniques used are widely accepted
- D. Investigate whether the computer was properly seized

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In digital forensics, the use of reliable, validated, and widely accepted tools and techniques is critical to maintain the integrity and admissibility of digital evidence. According to the National Institute of Standards and Technology (NIST) guidelines and the Scientific Working Group on Digital Evidence (SWGDE) standards, any forensic process must utilize methods that are recognized by the forensic community and have undergone rigorous testing to ensure accuracy and reliability.
* Using validated tools helps prevent evidence contamination or loss and ensures that results can withstand legal scrutiny.
* While proper seizure and witnessing are important, the priority in the extraction phase is to use appropriate, trusted tools.
* Downloading tools from unauthorized or suspicious sources can compromise the evidence and is not an ethical or legal practice.
Reference:NIST SP 800-101 (Guidelines on Mobile Device Forensics) and SWGDE Best Practices emphasize tool validation and adherence to community-accepted methods as foundational principles in forensic examination.

NEW QUESTION # 50

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