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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 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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.

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WGU Digital Forensics in Cybersecurity (D431/C840) Course Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

Which technique allows a cybercriminal to hide information?

- A. Steganography
- B. Cryptography
- C. Encryption
- D. Steganalysis

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Steganography is the technique of hiding information within another file, message, image, or medium to conceal the existence of the information itself. It differs from encryption in that the data is hidden, not just scrambled.

* Steganalysis is the detection or analysis of hidden data.

* Encryption and cryptography involve scrambling data but do not inherently hide its existence.

NIST and digital forensics guidelines define steganography as the art of concealed writing or data hiding, used by criminals to evade detection.

NEW QUESTION # 12

Which characteristic applies to magnetic drives compared to solid-state drives (SSDs)?

- A. Faster read/write speeds
- B. Higher cost
- C. Less susceptible to damage
- **D. Lower cost**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Magnetic hard drives generally have a lower cost per gigabyte compared to solid-state drives (SSDs).

However, they are more susceptible to mechanical damage and slower in data access.

* SSDs have no moving parts and provide better durability and speed but at a higher price.

* Forensics practitioners consider these differences during evidence acquisition.

Reference: Digital forensics texts and hardware overviews describe magnetic drives as cost-effective but fragile compared to SSDs.

NEW QUESTION # 13

Tom saved a message using the least significant bit (LSB) method in a sound file and uploaded this sound to his own website.

What is the carrier in this example?

- **A. The sound file**
- B. Tom's website
- C. The least significant bit method
- D. The message

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In steganography, the carrier is the file or medium used to hide the secret message. In this example, the sound file is the carrier because it contains the hidden message embedded using the least significant bit method. The message is the payload, and the website is merely the distribution platform.

* LSB is the embedding technique, not the carrier.

* The message is the payload, not the carrier.

* The website is not involved in data hiding.

NIST and steganography references clearly define the carrier as the container holding the hidden data.

NEW QUESTION # 14

Which tool should be used with sound files, video files, and image files?

- A. MP3Stego
- B. Snow
- C. Stealth Files 4
- **D. StegVideo**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

StegVideo is a steganographic tool designed to embed hidden messages within multimedia files such as sound, video, and image files, making it suitable for multi-media steganography.

* Snow is mainly used for text-based steganography.

* MP3Stego is specialized for MP3 audio files only.

* Stealth Files 4 is a general steganography tool but less commonly referenced for multimedia.

Forensic and academic sources identify StegVideo as a tool for multimedia steganography, useful in complex digital investigations.

NEW QUESTION # 15

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

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

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 # 16

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