

Digital-Forensics-in-Cybersecurity Digital Forensics in Cybersecurity (D431/C840) Course Exam Learning Material in 3 Different Formats



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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 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 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 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	<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.

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

NEW QUESTION # 50

Which description applies to the Advanced Forensic Format (AFF)?

- A. An open file standard developed by AccessData
- **B. An open file standard used by Sleuth Kit and Autopsy**
- C. A proprietary format developed by Guidance Software
- D. A proprietary format used by the iLook tool

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Advanced Forensic Format (AFF) is an open file format designed for storing disk images and related forensic metadata. It was developed by the Sleuth Kit community and is supported by forensic tools such as Sleuth Kit and Autopsy. AFF allows efficient storage, compression, and metadata annotation, which makes it suitable for forensic investigations.

* AccessData is known for FTK format, not AFF.

* iLook uses proprietary formats unrelated to AFF.

* Guidance Software developed the EnCase Evidence File (E01) format.

* AFF is widely recognized in open-source forensic toolchains.

Reference: The AFF format and its use with Sleuth Kit and Autopsy are documented in digital forensics literature and the AFF official documentation, as endorsed by the NIST and forensic tool developer communities.

NEW QUESTION # 51

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

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

Answer: B

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

Answer: B

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 forensics tool can be used to bypass the passcode of an Apple iPhone running the iOS operating system?

- A. Ophcrack
- B. LOphCrack
- **C. XRY**
- D. iStumbler

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

XRY is a commercial forensic tool specifically designed to extract data from mobile devices, including Apple iPhones. It has capabilities to bypass or work around iOS passcodes under certain conditions to acquire data for forensic analysis.

* iStumbler is a Wi-Fi scanning tool.

* Ophcrack and LOphCrack are password cracking tools for Windows systems, not mobile devices.

XRY is widely referenced in digital forensics training and NIST mobile device forensic guidelines as a leading tool for iOS data extraction.

NEW QUESTION # 54

A forensic investigator wants to collect evidence from a file created by a Macintosh computer running OS X 10.8.

Which file type can be created by this OS?

- A. NTFS
- B. ReiserFS
- C. MFS
- **D. HFS+**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Mac OS X 10.8 (Mountain Lion) uses the HFS+ (Hierarchical File System Plus) file system by default for its native storage volumes. HFS+ is Apple's proprietary file system introduced in the late 1990s, designed for macOS.

* ReiserFS is a Linux file system

* MFS (Macintosh File System) is an outdated file system replaced by HFS.

* NTFS is a Windows file system

This is well documented in Apple technical specifications and forensic analysis standards for macOS systems.

Reference: Digital forensics references including NIST guidelines and vendor documentation confirm HFS+ as the standard file system for Mac OS X versions prior to APFS adoption.

NEW QUESTION # 55

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