

## Data acquisition

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**1. Which of the following best describes the concept of data storage fundamentals?**

- A) Encrypting data
- B) Storing data in the cloud
- C) Methods of saving and accessing data
- D) Managing digital evidence

**Answer:** C) Methods of saving and accessing data

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**2. Which type of data storage is most commonly used for large-scale, long-term data retention?**

- A) Cloud storage
- B) USB flash drive
- C) Hard drive
- D) Optical disk

**Answer:** C) Hard drive

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**3. What is the main focus of cyber crimes?**

- A) Intellectual property protection
- B) Illegal activities involving computer systems and networks
- C) Data encryption
- D) Cloud computing

**Answer:** B) Illegal activities involving computer systems and networks

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**4. Which of the following is NOT a common type of cyber crime?**

- A) Phishing
- B) Hacking
- C) DDoS attacks
- D) Data encryption

**Answer:** D) Data encryption

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**5. Cyber forensics primarily deals with the analysis of what?**

- A) Financial records
- B) Digital evidence
- C) Physical evidence
- D) Criminal behavior

**Answer:** B) Digital evidence

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**6. What is a critical aspect of cyber forensics principles?**

- A) Physical security
- B) Preserving digital evidence
- C) Understanding hardware
- D) Encrypting data

**Answer:** B) Preserving digital evidence

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**7. What is the most important principle when dealing with digital evidence?**

- A) Speed of collection
- B) Accuracy of data destruction
- C) Chain of custody
- D) Use of encrypted devices

**Answer:** C) Chain of custody

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**8. Which of the following is NOT considered a step in digital evidence seizure?**

- A) Isolation of the device
- B) Secure storage
- C) Data encryption
- D) Documenting the seizure

**Answer:** C) Data encryption

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**9. Which of the following tools is commonly used for forensic data acquisition?**

- A) Antivirus software
- B) Encrypted hard drive
- C) Write-blocker
- D) Cloud backup software

**Answer:** C) Write-blocker

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**10. What is the role of forensic hardware tools?**

- A) To analyze network traffic
- B) To recover and preserve digital evidence
- C) To encrypt sensitive data
- D) To detect malware

**Answer:** B) To recover and preserve digital evidence

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**11. When acquiring data, which of the following actions is the most critical?**

- A) Making a backup copy
- B) Encrypting the data
- C) Ensuring no data alteration occurs
- D) Analyzing the data immediately

**Answer:** C) Ensuring no data alteration occurs

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**12. The process of securing and preserving digital evidence is called:**

- A) Data acquisition
- B) Data analysis
- C) Data seizure
- D) Data destruction

**Answer:** A) Data acquisition

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**13. What is a write-blocker used for in digital forensics?**

- A) Encrypting data
- B) Preventing modification of data during acquisition
- C) Recovering lost files
- D) Analyzing encrypted data

**Answer:** B) Preventing modification of data during acquisition

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**14. In the context of cyber forensics, what is the primary purpose of seizing digital evidence?**

- A) To analyze the data
- B) To present it in court
- C) To maintain its integrity for investigation
- D) To store it in a secure location

**Answer:** C) To maintain its integrity for investigation

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**15. Which of the following methods is NOT recommended when seizing digital evidence?**

- A) Documenting the seizure process
- B) Handling evidence without gloves
- C) Securing the device in a faraday bag
- D) Labeling the evidence clearly

**Answer:** B) Handling evidence without gloves

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**16. Which type of data storage device requires physical disconnection before evidence collection?**

- A) RAM
- B) SSD
- C) Hard drive
- D) Cloud storage

**Answer:** C) Hard drive

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**17. What type of crimes are cyber forensics used to investigate?**

- A) Corporate espionage
- B) Intellectual property theft
- C) Digital data theft
- D) All of the above

**Answer:** D) All of the above

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**18. Digital evidence seizure must always ensure which of the following?**

- A) Immediate analysis of data
- B) Data is not modified in any way
- C) Evidence is secured within a day
- D) None of the above

**Answer:** B) Data is not modified in any way

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**19. What tool is used to capture the entire content of a storage device without altering it?**

- A) Forensic imaging software
- B) File compression software
- C) Antivirus scanner
- D) Data encryption tool

**Answer:** A) Forensic imaging software

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**20. When analyzing digital evidence, what is a crucial part of maintaining its admissibility in court?**

- A) Anonymizing the data
- B) Ensuring the integrity of the evidence
- C) Encrypting the evidence
- D) Sharing the evidence with the defense

**Answer:** B) Ensuring the integrity of the evidence

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**21. What is the role of the “chain of custody” in digital forensics?**

- A) Ensuring the confidentiality of the data
- B) Tracking the movement and handling of evidence
- C) Maintaining evidence encryption
- D) Ensuring evidence is analyzed quickly

**Answer:** B) Tracking the movement and handling of evidence

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**22. Which of the following is an example of forensic hardware used in digital evidence collection?**

- A) Forensic imaging software
- B) Write-blocker

- C) Encryption software
- D) Data backup tool

**Answer:** B) Write-blocker

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**23. What is the first step in handling a digital device that is part of a crime scene?**

- A) Seize the device
- B) Analyze the data
- C) Disconnect the device from the network
- D) Encrypt the data

**Answer:** C) Disconnect the device from the network

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**24. Which of the following is an example of digital evidence?**

- A) A handwritten note
- B) A hard drive containing files
- C) A smartphone with fingerprints
- D) A witness statement

**Answer:** B) A hard drive containing files

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**25. Forensic software is primarily used for what purpose?**

- A) Preventing data loss
- B) Recovering deleted files
- C) Encrypting communication
- D) Backing up data to cloud storage

**Answer:** B) Recovering deleted files

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**26. What is the main challenge in investigating cyber crimes?**

- A) Lack of legal jurisdiction
- B) The speed at which data can be manipulated
- C) Difficulty in finding witnesses
- D) Inadequate hardware tools

**Answer:** B) The speed at which data can be manipulated

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**27. What is the difference between a forensic copy and a regular backup?**

- A) A forensic copy is a bit-by-bit duplicate, while a backup may skip certain files
- B) A forensic copy is encrypted, while a backup is not
- C) A forensic copy is stored on the cloud
- D) There is no difference between the two

**Answer:** A) A forensic copy is a bit-by-bit duplicate, while a backup may skip certain files

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**28. Which of the following is NOT a part of the digital evidence preservation process?**

- A) Creating a forensic copy
- B) Storing evidence on a personal device
- C) Using write-blockers
- D) Ensuring the evidence remains unaltered

**Answer:** B) Storing evidence on a personal device

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**29. What does a digital forensics investigator do when they find evidence of a cyber crime?**

- A) Encrypt the evidence
- B) Report the findings to authorities
- C) Delete the evidence
- D) Analyze the evidence immediately

**Answer:** B) Report the findings to authorities

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**30. Which of the following tools would be used for analyzing digital evidence from a smartphone?**

- A) FTK Imager
- B) Wireshark
- C) Cellebrite UFED
- D) EnCase

**Answer:** C) Cellebrite UFED

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**31. What is a write-blocker used for in forensic investigations?**

- A) To read data faster
- B) To prevent data from being altered during examination
- C) To encrypt data
- D) To store the evidence securely

**Answer:** B) To prevent data from being altered during examination

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**32. When collecting digital evidence, what is the first consideration to ensure its integrity?**

- A) Secure the device physically
- B) Encrypt the data immediately
- C) Disconnect from the internet
- D) Analyze the data as soon as possible

**Answer:** A) Secure the device physically

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**33. What is a primary factor in maintaining the integrity of digital evidence?**

- A) Storing the evidence in multiple locations
- B) Documenting all actions taken with the evidence
- C) Encrypting the evidence before examination
- D) Performing real-time analysis

**Answer:** B) Documenting all actions taken with the evidence

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**34. What should be done with a digital device that is suspected of being involved in a crime?**

- A) The device should be immediately turned off
- B) The device should be analyzed on-site
- C) The device should be disconnected from networks and transported securely
- D) The device should be encrypted and analyzed

**Answer:** C) The device should be disconnected from networks and transported securely

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**35. When is it appropriate to analyze digital evidence?**



- A) Immediately after collection
- B) After securing and documenting it
- C) After copying the data to a personal device
- D) As soon as it is in the investigator's hands

**Answer:** B) After securing and documenting it

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**36. What is the primary goal of cyber forensics?**

- A) To prevent cyber crimes
- B) To recover data from damaged devices
- C) To identify and preserve digital evidence of criminal activity
- D) To analyze network traffic

**Answer:** C) To identify and preserve digital evidence of criminal activity

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**37. What is a key requirement for forensic imaging?**

- A) The image must be encrypted
- B) The image must be a bit-by-bit copy of the original device
- C) The image must include network data
- D) The image must be stored on a personal cloud account

**Answer:** B) The image must be a bit-by-bit copy of the original device

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**38. Which of the following is an example of forensic hardware used to extract data from a damaged device?**

- A) Forensic software
- B) Write-blocker
- C) JTAG tool
- D) Cloud backup tool

**Answer:** C) JTAG tool

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**39. What is the purpose of creating a chain of custody in digital forensics?**

- A) To document the handling and storage of evidence
- B) To prevent the modification of data
- C) To recover deleted files
- D) To encrypt sensitive information

**Answer:** A) To document the handling and storage of evidence

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**40. Which of the following best describes cyber forensics?**

- A) Collecting data from the cloud
- B) Investigating cyber crimes with digital evidence
- C) Backing up sensitive files
- D) Encrypting network traffic

**Answer:** B) Investigating cyber crimes with digital evidence

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**41. Which is NOT a component of forensic hardware tools?**

- A) Write-blocker
- B) Forensic imaging tool
- C) Digital analysis software
- D) Antivirus software

**Answer:** D) Antivirus software

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**42. What role does forensic software play in cyber forensics?**

- A) It helps in encrypting data
- B) It prevents malware from spreading
- C) It assists in recovering and analyzing digital evidence
- D) It stores data securely

**Answer:** C) It assists in recovering and analyzing digital evidence

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**43. Which of the following should NOT be used on a device containing potential digital evidence?**

- A) Write-blocker
- B) Data analysis software
- C) Antivirus software
- D) Encryption tool

**Answer:** C) Antivirus software

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**44. When handling digital evidence, what is the priority to ensure legal acceptance?**

- A) Encrypt the data immediately
- B) Ensure a clear chain of custody is maintained
- C) Analyze the data in an isolated environment
- D) Store the evidence on a personal device

**Answer:** B) Ensure a clear chain of custody is maintained

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**45. What is the best way to ensure digital evidence remains unaltered during investigation?**

- A) Use data compression tools
- B) Use a write-blocker to prevent modifications
- C) Encrypt all the evidence
- D) Share the evidence with other investigators

**Answer:** B) Use a write-blocker to prevent modifications

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**46. Which of the following could be a type of digital evidence in cyber forensics?**

- A) A password-protected file
- B) A system image
- C) A text message
- D) All of the above

**Answer:** D) All of the above

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**47. What is a key consideration when selecting forensic tools for data acquisition?**

- A) The speed of the tool
- B) The tool's ability to ensure data integrity
- C) The cost of the tool
- D) The ability of the tool to recover deleted files

**Answer:** B) The tool's ability to ensure data integrity

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**48. Which of the following is the most important to maintain when handling digital evidence?**

- A) Fast analysis
- B) Evidence integrity
- C) Encryption of the device
- D) Network connectivity

**Answer:** B) Evidence integrity

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**49. What is an essential characteristic of a forensic hardware tool used for data acquisition?**

- A) It should be able to encrypt data
- B) It should only be used by experts
- C) It should ensure the original data is not altered
- D) It should be able to repair damaged devices

**Answer:** C) It should ensure the original data is not altered

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**50. What is one of the major risks in handling digital evidence improperly?**

- A) Data encryption may be compromised
- B) The evidence could become inadmissible in court
- C) The device may be damaged
- D) The crime may go unreported

**Answer:** B) The evidence could become inadmissible in court

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