

# EC-Council Digital Forensics Essentials (DFE) Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## **1. Start with a Diagnostic Review**

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## **2. Study in Short, Focused Sessions**

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## **3. Learn from the Explanations**

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## **4. Track Your Progress**

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## **5. Simulate the Real Exam**

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## **6. Repeat and Review**

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## Questions

- 1. What is the correct order of steps to retrieve an email header from Microsoft Outlook?**
  - A. 5 -> 3 -> 2 -> 4 -> 1**
  - B. 1 -> 5 -> 4 -> 2 -> 3**
  - C. 6 -> 4 -> 1 -> 5 -> 2**
  - D. 1 -> 5 -> 3 -> 2 -> 4**
- 2. Which phase is Xavier in when he documents all tasks performed to resolve the case?**
  - A. Data analysis**
  - B. Post-investigation phase**
  - C. Evidence preservation**
  - D. Search and seizure**
- 3. What advantage does a forensically ready incident response team provide to an organization?**
  - A. Reduces the need for legal counsel**
  - B. Ensures compliance with regulatory requirements**
  - C. Minimizes investigation costs**
  - D. Expedites evidence collection**
- 4. Which PsLoggedOn parameter helps retrieve the details of locally logged-in users?**
  - A. -l**
  - B. -x**
  - C. -n**
  - D. -a**
- 5. Where are the logs on a Linux system that record details about running services typically located?**
  - A. /var/log/syslog**
  - B. /var/log/messages**
  - C. /var/log/daemon.log**
  - D. /etc/log**

- 6. What allows users to receive emails in conjunction with other email communication components?**
- A. Webmail interface**
  - B. SMTP server**
  - C. Mail transfer agent**
  - D. Mail user agent**
- 7. During which phase does the investigator photograph the computer monitor's screen?**
- A. Data acquisition**
  - B. Documentation of the electronic crime scene**
  - C. Evidence preservation**
  - D. Case analysis**
- 8. Which functionality of Autopsy extracts web history and bookmarks from browsers?**
- A. Operating system artifacts**
  - B. Web artifacts**
  - C. File signatures**
  - D. Network metadata**
- 9. Which component of EFS is responsible for user access to encrypted files?**
- A. EFS Client**
  - B. EFS Server**
  - C. EFS Service**
  - D. Encryption Interceptor**
- 10. What command did Zayn execute to view TCP and UDP network connections on a Windows machine?**
- A. ipconfig**
  - B. netstat -ano**
  - C. tracert**
  - D. nslookup**



## **Answers**

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1. D
2. B
3. B
4. A
5. C
6. B
7. B
8. B
9. A
10. B

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## **Explanations**

**1. What is the correct order of steps to retrieve an email header from Microsoft Outlook?**

- A. 5 -> 3 -> 2 -> 4 -> 1
- B. 1 -> 5 -> 4 -> 2 -> 3
- C. 6 -> 4 -> 1 -> 5 -> 2
- D. 1 -> 5 -> 3 -> 2 -> 4**

To retrieve an email header from Microsoft Outlook, the correct order of steps involves accessing the specific email, copying the header information, and ensuring that the header can be viewed. The process usually begins by selecting the email for which you want the header information. After that, navigating to the properties or options of the email allows you to view the header content. The first step involves opening the email in question. Once the email is open, accessing the 'File' menu or the 'More' options will allow you to find the details of the email. After selecting the appropriate options in the menu for the email properties, you can view and copy the header information. Finally, you can paste or note down the header details for your analysis or documentation. The correct sequence, therefore, ensures that you first access the email, get to the right menu, and then view and copy the required information in a logical flow. This thorough understanding of the retrieval process is important in digital forensics for proper email analysis and investigation.

**2. Which phase is Xavier in when he documents all tasks performed to resolve the case?**

- A. Data analysis
- B. Post-investigation phase**
- C. Evidence preservation
- D. Search and seizure

In the context of digital forensics, documenting all tasks performed to resolve a case is a critical component of the investigative process. This activity is typically found in the post-investigation phase. During this phase, forensics experts compile findings, assess the methods used throughout the investigation, and create detailed reports that outline the procedures undertaken, the data collected, and the conclusions drawn. This documentation serves several key purposes, including ensuring accountability, facilitating further investigation if needed, and helping to present findings in a legal context. The post-investigation phase also allows for the evaluation of the entire investigative process, which can highlight successful strategies as well as areas for improvement in future cases. It is essential for maintaining the integrity and transparency of the forensic examination. In contrast, the stages of data analysis, evidence preservation, and search and seizure involve initial investigation tasks and do not focus on the documentation or reporting aspect, which is distinctively characteristic of the post-investigation phase.

**3. What advantage does a forensically ready incident response team provide to an organization?**

- A. Reduces the need for legal counsel**
- B. Ensures compliance with regulatory requirements**
- C. Minimizes investigation costs**
- D. Expedites evidence collection**

A forensically ready incident response team significantly contributes to an organization's compliance with regulatory requirements. In many industries, organizations are subject to laws and regulations that dictate how data must be handled, retained, and disposed of—especially when it comes to sensitive information. When an incident occurs, having a well-prepared team ensures that the response aligns with these regulations, which may require specific protocols for evidence collection and handling. Additionally, a forensically ready team can demonstrate that an organization has taken the necessary steps to protect its data and respond appropriately to incidents, which can be critical in audits or legal proceedings. This preparedness helps mitigate the risks associated with non-compliance, such as fines, legal repercussions, and damage to reputation. The other choices, while they may reflect benefits of effective incident response, do not directly address the primary advantage of a forensically ready team in terms of ensuring adherence to regulatory frameworks.

**4. Which PsLoggedOn parameter helps retrieve the details of locally logged-in users?**

- A. -l**
- B. -x**
- C. -n**
- D. -a**

The parameter that retrieves the details of locally logged-in users when using PsLoggedOn is indeed the one that specifies that you are interested in local sessions. When you use the -l parameter, PsLoggedOn provides a list of users who are currently logged on to the local machine, allowing you to see not just the usernames but also the session IDs and other session-specific details. This information is critical in digital forensics or incident response scenarios where understanding who has accessed a system can aid in investigations. In the context of forensic analysis, knowing which users are currently logged on locally can assist in identifying possible unauthorized access or malicious user activity on the system. Each logged-on user's presence might have relevance in terms of system usage patterns, and can help investigators in correlating events tied to specific users. The other parameters available in PsLoggedOn serve different purposes. For instance, some may focus on remote connections or system details, which do not provide insights into local user sessions. Understanding the specific functions of each parameter can help forensic investigators effectively utilize tools like PsLoggedOn to gather relevant information during an analysis.

**5. Where are the logs on a Linux system that record details about running services typically located?**

- A. /var/log/syslog**
- B. /var/log/messages**
- C. /var/log/daemon.log**
- D. /etc/log**

On a Linux system, logs that contain details about running services are typically found in specific log files located in the /var/log directory. The reason /var/log/daemon.log is the correct choice is that this file is specifically designed to log information related to system services and daemons. It records activities and messages generated by background services, making it an essential resource for monitoring the behavior and status of running services. The other options, while they do contain logging information, focus on different aspects of system logging. For instance, /var/log/syslog captures a wide range of system messages, including system boot messages and kernel logs, which may or may not relate directly to service activities. Similarly, /var/log/messages is a more general log file that includes various system messages but is not limited to service logs. /etc/log is not a standard log location on Linux systems and therefore does not pertain to service logging at all.

**6. What allows users to receive emails in conjunction with other email communication components?**

- A. Webmail interface**
- B. SMTP server**
- C. Mail transfer agent**
- D. Mail user agent**

The correct answer is the SMTP server. This is crucial in the process of sending and receiving emails. SMTP, which stands for Simple Mail Transfer Protocol, is a protocol used specifically for transmitting email messages between servers. When a user sends an email, the message is transmitted from the sender's mail server to the recipient's mail server using SMTP. This ensures that the email is routed correctly over the internet to reach its destination, interfacing with other components such as the mail transfer agent. Understanding the role of the SMTP server is vital in digital communication, as it governs how emails are formatted and transferred across different networks, enabling users to communicate effectively through email. Other components like webmail interfaces or mail user agents are involved in managing and displaying emails but do not play the direct role in the transmission process that the SMTP server does.

**7. During which phase does the investigator photograph the computer monitor's screen?**

**A. Data acquisition**

**B. Documentation of the electronic crime scene**

**C. Evidence preservation**

**D. Case analysis**

The correct answer is associated with the phase that involves taking detailed notes and capturing visual evidence of the scene, which includes photographing the computer monitor's screen. This phase is crucial for establishing a comprehensive record of the original state of the scene before any changes occur. Documenting the electronic crime scene includes not only physical aspects but also critical information displayed on devices at the time of the investigation. Such photographs can provide invaluable context for the situation leading to the incident and support the investigator's findings later in court. In contrast, during the data acquisition phase, the focus is primarily on gathering and preserving the data stored on devices, which may not involve visual documentation of the screen itself. Evidence preservation refers to the methods used to protect the integrity of collected data and items, while case analysis pertains to examining the collected evidence and drawing conclusions. Each of these processes serves different purposes, but photographing the screen falls specifically under the documentation of the electronic crime scene, as it ensures that all relevant details are captured early in the investigation.

**8. Which functionality of Autopsy extracts web history and bookmarks from browsers?**

**A. Operating system artifacts**

**B. Web artifacts**

**C. File signatures**

**D. Network metadata**

The correct choice is based on the specific capabilities of Autopsy, which is a digital forensics platform. In the context of extracting web history and bookmarks from browsers, the term "Web artifacts" accurately represents the type of data that Autopsy can analyze. Web artifacts encompass various data types related to web browsing activities, including history, bookmarks, cached pages, and cookies. These artifacts can provide crucial insights into a user's online behavior and activities, making them essential for investigations that require uncovering the web usage patterns of a subject. The other options refer to different aspects of digital evidence collection and analysis. For instance, operating system artifacts generally pertain to data stored by the operating system itself, such as system files and logs, rather than browsing history. File signatures are related to identifying file types based on their content rather than extracting specific user data. Network metadata deals with data packets and traffic analysis, which does not directly provide access to web browsing history or bookmarks. In summary, "Web artifacts" specifically refers to the functionality that allows the extraction of browsing history and bookmarks, making it the correct choice in this scenario.

**9. Which component of EFS is responsible for user access to encrypted files?**

- A. EFS Client**
- B. EFS Server**
- C. EFS Service**
- D. Encryption Interceptor**

The EFS Client is responsible for user access to encrypted files in the Encrypting File System (EFS). This component operates on the user's machine and directly interacts with the file system to manage the encryption and decryption of files. When a user attempts to access an encrypted file, the EFS Client ensures the necessary permissions and encryption keys are in place, allowing the user to seamlessly access their data without needing to understand the underlying encryption processes. The other components mentioned do play important roles within the overall EFS architecture. For instance, the EFS Server handles requests related to the EFS from networked environments, and the EFS Service manages overall encryption operations on the system level. However, neither of these components is directly responsible for the individual user's access to encrypted files. The Encryption Interceptor is a mechanism that helps in intercepting file operations to facilitate encryption and decryption but does not manage user access directly. Therefore, the EFS Client stands out as the key component that grants users the access they need to their encrypted files.

**10. What command did Zayn execute to view TCP and UDP network connections on a Windows machine?**

- A. ipconfig**
- B. netstat -ano**
- C. tracert**
- D. nslookup**

The command that allows a user to view TCP and UDP network connections on a Windows machine is "netstat -ano." This command provides a comprehensive view of the current network connections and listening ports, along with their associated process IDs. The flags used in the command have specific functions: "a" displays all connections and listening ports, "n" shows the addresses and port numbers in numerical form, and "o" includes the process ID for each connection. This command is vital in network troubleshooting and security analysis, as it helps identify which applications are using network resources and can be used to detect any unauthorized connections or potential malicious activities. The ability to see active connections enables administrators or forensic analysts to monitor the state of network activity effectively. Other options like ipconfig are used for configuration information rather than active connections, tracert is meant for tracing network routers to a specific destination, and nslookup is designed for querying DNS records.



## Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://eccouncildfe.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**