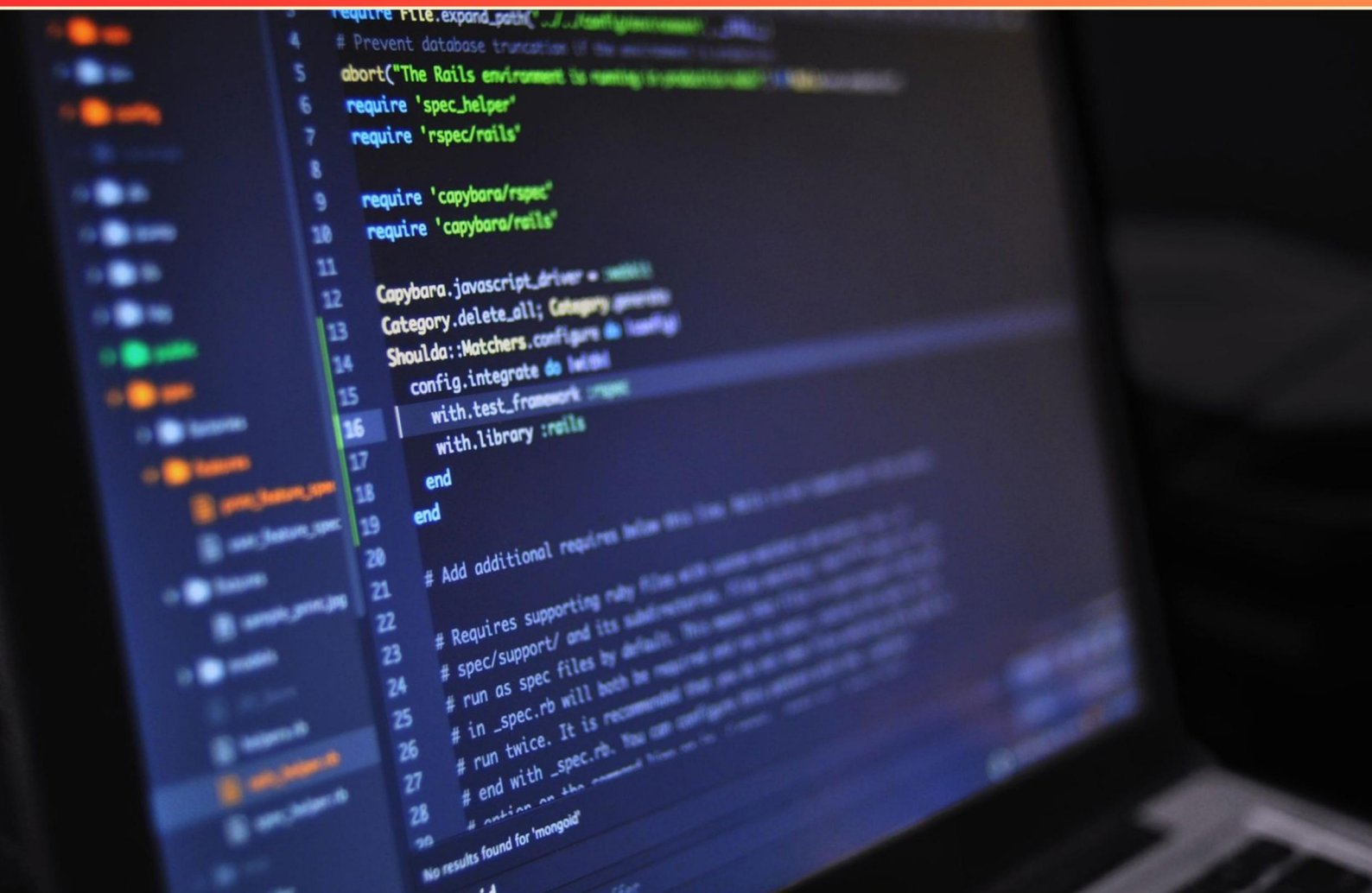


ETHICAL HACKING ESSENTIALS PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE

<https://ethicalhackingessentials.examzify.com>



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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

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- 1. What component of IoT technology collected incident data from CCTV devices and forwarded the information to Bob?**
 - A. Gateways
 - B. Sensors
 - C. Middleware
 - D. Handlers

- 2. What type of attack floods a victim's ability to reassemble fragmented packets, resulting in reduced performance?**
 - A. Ping of Death
 - B. Fragmentation Attack
 - C. SYN Flood Attack
 - D. Permanent DoS (PDoS) Attack

- 3. What motivates an insider to leak confidential information for payment?**
 - A. Financial gain
 - B. Revenge
 - C. Discontent
 - D. Job dissatisfaction

- 4. What operation is defined when a tester decides what will be tested and who will perform the testing?**
 - A. Executing the test
 - B. Defining the scope
 - C. Analyzing results
 - D. Documenting vulnerabilities

- 5. Which of the following best describes the phase where an attacker engages in network surveillance?**
 - A. Reconnaissance
 - B. Exploitation
 - C. Delivery
 - D. Action on objectives

- 6. Which spread spectrum technique uses a pseudo-random noise-spreading code to protect signals from interference?**
- A. Frequency Hopping Spread Spectrum (FHSS)
 - B. Direct-Sequence Spread Spectrum (DSSS)
 - C. Time Hopping Spread Spectrum (THSS)
 - D. Orthogonal Frequency Division Multiplexing (OFDM)
- 7. In what scenario would an attacker utilize a rootkit?**
- A. To boost system performance
 - B. To conceal their presence on a system
 - C. To analyze system vulnerabilities
 - D. To enhance user experience
- 8. What is the primary goal of session hijacking?**
- A. To disrupt user access
 - B. To steal confidential information
 - C. To take control of user sessions
 - D. To monitor user activity
- 9. What is the component of malware that performs its intended harmful action upon activation?**
- A. Loader
 - B. Payload
 - C. Stub
 - D. Wrapper
- 10. What type of threat did Elon represent by sharing sensitive information with competitors?**
- A. External threat
 - B. Internal threat
 - C. Natural threat
 - D. Unintentional threat

Answers

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

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Explanations

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1. What component of IoT technology collected incident data from CCTV devices and forwarded the information to Bob?

- A. Gateways**
- B. Sensors
- C. Middleware
- D. Handlers

The correct component responsible for collecting incident data from CCTV devices and forwarding the information is the gateway. Gateways serve as crucial nodes in the Internet of Things (IoT) architecture; they connect various devices and facilitate communication between them and the broader internet or cloud services. In the scenario described, the gateway would capture data generated by the CCTV devices—such as video footage or motion detection alerts—and then relay that information to Bob or another designated endpoint. This functionality is essential for enabling real-time data processing and analysis in IoT setups. The other components play different roles in IoT schemes. Sensors are the devices that gather data from the physical environment, middleware acts as a bridge or layer that facilitates communication and data management between different systems and devices, while handlers are typically associated with processes or programs that manage specific tasks such as responding to events or executing commands. Each of these components has distinct functions, but in this specific context of data collection and forwarding, the gateway is the pivotal component.

2. What type of attack floods a victim's ability to reassemble fragmented packets, resulting in reduced performance?

- A. Ping of Death
- B. Fragmentation Attack**
- C. SYN Flood Attack
- D. Permanent DoS (PDoS) Attack

The type of attack that floods a victim's ability to reassemble fragmented packets is known as a fragmentation attack. This attack exploits the way that data is divided into smaller packets for transmission over a network. When a large packet is too big to meet the maximum transmission unit (MTU) of a network, it gets fragmented into smaller packets. In a fragmentation attack, an attacker deliberately sends a large number of fragmented packets to the target system. The system has to allocate resources to process and reassemble these fragments, which can overwhelm its capacity and lead to degraded performance or even a denial of service. Such attacks are particularly effective against systems with limited resources, as they create unnecessary overhead in managing the fragments instead of focusing on legitimate traffic. Other forms of attacks mentioned, like a ping of death, involve sending malformed packets that can crash systems, while SYN flood attacks target the TCP handshake process, and permanent DoS (PDoS) attacks are geared towards permanently damaging a target device. These attacks do not specifically focus on exploiting the packet reassembly process like fragmentation attacks do.

3. What motivates an insider to leak confidential information for payment?

A. Financial gain

B. Revenge

C. Discontent

D. Job dissatisfaction

The motivation for an insider to leak confidential information for payment primarily stems from the desire for financial gain. Individuals may be tempted to compromise security for monetary benefits, especially if they perceive that the payment outweighs the risks involved. Financial incentives can be compelling, particularly for individuals who might be experiencing financial difficulties or see a lucrative offer as an opportunity to enhance their lifestyle or resolve debts. While other motivations such as revenge, discontent, or job dissatisfaction can lead to breaches of trust, they are not necessarily tied directly to the act of leaking information for payment. Financial gain stands out as the most direct and clear-cut reason, where the insider is willing to betray their organization in exchange for tangible rewards. This motivation highlights the importance of robust security measures and monitoring systems to deter such activities.

4. What operation is defined when a tester decides what will be tested and who will perform the testing?

A. Executing the test

B. Defining the scope

C. Analyzing results

D. Documenting vulnerabilities

Defining the scope is a crucial step in the testing process as it establishes the parameters for what will be tested, including the systems, applications, and assets involved. This stage involves identifying the objectives, determining the extent of testing, and specifying which areas are off-limits. By doing so, the tester sets clear boundaries for the engagement, which helps both the testing team and the organization understand the focus of the assessment. This clarity ensures resources are allocated effectively and that the testing aligns with the organization's security goals and compliance requirements. This operation is foundational because it prevents misunderstandings later in the testing phase and limits the risks associated with exposure to sensitive areas not covered in the agreement. It helps ensure that the right people, often skilled in specific testing methods, are assigned to the appropriate tasks, enhancing the overall effectiveness of the ethical hacking efforts.

5. Which of the following best describes the phase where an attacker engages in network surveillance?

- A. Reconnaissance**
- B. Exploitation
- C. Delivery
- D. Action on objectives

The phase where an attacker engages in network surveillance is best described as reconnaissance. This initial stage of an attack involves gathering information about a target before launching any actual attacks. During reconnaissance, an attacker may use various techniques to map out network infrastructure, identify active devices, discover open ports, and gather details about system configurations. The primary goal is to collect as much relevant information as possible, which can aid in planning subsequent attack strategies. Gathering intelligence at this stage can include both passive and active methods. Passive methods may involve analyzing publicly available information such as social media, company websites, or open-source intelligence databases. Active methods could include scanning the network to identify live hosts and services running, which could help the attacker understand potential vulnerabilities. This phase is critical because it sets the foundation for the attacker's efforts to exploit weaknesses in the target's systems later on. Understanding the reconnaissance phase helps students appreciate the importance of network security measures designed to detect and prevent such information gathering activities.

6. Which spread spectrum technique uses a pseudo-random noise-spreading code to protect signals from interference?

- A. Frequency Hopping Spread Spectrum (FHSS)
- B. Direct-Sequence Spread Spectrum (DSSS)**
- C. Time Hopping Spread Spectrum (THSS)
- D. Orthogonal Frequency Division Multiplexing (OFDM)

The choice of Direct-Sequence Spread Spectrum (DSSS) as the correct answer is based on its method of utilizing a pseudo-random noise spreading code to enhance signal protection. In DSSS, the original data signal is modulated with a spreading code that is much wider in bandwidth than the data signal itself. This code is generated using pseudo-random sequences, which helps to spread the signal over a larger frequency band. This technique not only aids in reducing the likelihood of interference from other signals, but it also allows for better resistance against jamming and unauthorized interception. Because the transmitted signal resembles noise, it becomes challenging for unintended receivers to decipher it without knowing the specific spreading code being used. Other options represent different techniques that achieve spread spectrum communication in unique ways. Frequency Hopping Spread Spectrum (FHSS) uses rapid changes in frequency during transmission to avoid interference but does not utilize a pseudo-random sequence for signal modulation in the same manner as DSSS. Time Hopping Spread Spectrum (THSS) involves varying the time slots for transmission but lacks the bandwidth spreading characteristics of DSSS. Orthogonal Frequency Division Multiplexing (OFDM) employs a different modulation scheme focused on efficiently using available bandwidth rather than spreading the signal over a wide range.

7. In what scenario would an attacker utilize a rootkit?

- A. To boost system performance
- B. To conceal their presence on a system**
- C. To analyze system vulnerabilities
- D. To enhance user experience

A rootkit is a type of malicious software designed to gain unauthorized access to a computer or network while concealing its presence and the presence of other malicious software. The primary purpose of utilizing a rootkit is to hide itself and other malicious activities from the user and security tools. This allows attackers to maintain long-term access to the system and perform various actions without detection, such as stealing data, monitoring user activities, or installing additional malware. The other options do not align with the primary function of a rootkit. Enhancing system performance or user experience is not a goal of a rootkit; in fact, a rootkit can often degrade performance as it operates stealthily in the background. Analyzing system vulnerabilities is more associated with penetration testing and ethical hacking rather than malicious activities, which is not the intent behind deploying a rootkit. Thus, the correct answer highlights the concealment aspect, which is essential for attackers looking to maintain undetected control over a compromised system.

8. What is the primary goal of session hijacking?

- A. To disrupt user access
- B. To steal confidential information
- C. To take control of user sessions**
- D. To monitor user activity

The primary goal of session hijacking is to take control of user sessions. In this type of attack, an adversary exploits a valid computer session to gain unauthorized access to information or services in a system. By hijacking a session, the attacker can impersonate the legitimate user and perform actions as if they were the user, potentially accessing sensitive data and resources without detection. This goal centers around intercepting or manipulating session information, such as session cookies or tokens, which are used to maintain authenticated sessions. Once an attacker gains control, they can execute commands, access personal information, and even alter the behavior of the session to their advantage. This is why understanding session management and security is crucial in protecting against such threats. While there are other motives that attackers may have, such as disrupting access or monitoring activity, those actions are generally means to an end rather than the primary focus of session hijacking itself. The essence of the attack lies in exploiting a session to assert control over user actions and information flow.

9. What is the component of malware that performs its intended harmful action upon activation?

- A. Loader
- B. Payload**
- C. Stub
- D. Wrapper

The component of malware that performs its intended harmful action upon activation is referred to as the payload. The payload is the part of the malware responsible for carrying out the malicious actions that it was designed to execute, which may include actions like stealing data, corrupting files, or enabling unauthorized access to the system. Understanding this concept is vital in cybersecurity because recognizing the payload helps professionals develop strategies for detection and prevention of malware attacks. For example, when analyzing malware, researchers focus on the payload to understand the potential impact of an infection, and this knowledge directly informs response strategies for mitigating harm and securing systems against future attacks. In contrast, the loader is responsible for setting up the execution environment for the malware but does not carry out the malicious activity itself. The stub is typically a small piece of code used to distract or manage execution, while the wrapper usually serves as a protective layer that obscures the true nature of the malware or modifies its behavior. These components are essential in the malware's overall functionality, but the payload is specifically defined by its role in executing the harmful actions.

10. What type of threat did Elon represent by sharing sensitive information with competitors?

- A. External threat
- B. Internal threat**
- C. Natural threat
- D. Unintentional threat

The situation involving Elon sharing sensitive information with competitors exemplifies an internal threat. Internal threats originate from within an organization and typically involve individuals who have authorized access to information or resources. By sharing this sensitive data, Elon is leveraging his insider status, which makes this action particularly concerning from a security perspective. An internal threat can manifest in various ways, such as malicious insiders, carelessness, or—like in this case—an inadvertent release of information that could be exploited by competitors. Because of the familiarity and access these insiders possess, they may unintentionally cause harm that has the potential to undermine an organization's competitive edge or security posture. In contrast, external threats come from outside the organization, such as hackers or cybercriminals. Natural threats refer to disasters like earthquakes or floods that can disrupt services. Unintentional threats usually describe situations where no malicious intent is involved, but they differ from internal threats that can stem from careless or poor judgment among individuals within the organization. In this case, since the threat arises directly from a person with internal access, categorizing it as an internal threat is the most accurate.

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.

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

<https://ethicalhackingessentials.examzify.com>

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

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