

# CompTIA PenTest+ Practice Test (Sample)

## Study Guide



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

**This is a sample study guide. To access the full version with hundreds of questions,**

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.**

## 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.**

## 7. Use Other Tools

**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!**

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## **Questions**

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- 1. What type of debugging tool is GNU Debugger (GDB)?**
  - A. Only for Windows**
  - B. Open-source for various platforms**
  - C. Only for Linux**
  - D. Paid software**
- 2. What is the name of the open-source reverse engineering tool developed by the NSA?**
  - A. Barracuda**
  - B. Ghidra**
  - C. Interactive Disassembler**
  - D. Frida**
- 3. What does OWASP ZAP stand for?**
  - A. Zed Attack Proxy**
  - B. Zero-day Attack Program**
  - C. Visibility Access Proxy**
  - D. Zero Attack Prevention**
- 4. What is a jumpbox used for in a network security context?**
  - A. A system for accessing and managing devices in a separate security zone**
  - B. A tool for scanning vulnerabilities in applications**
  - C. An automated backup system for network files**
  - D. A firewall that protects against external threats**
- 5. Which tool can be used to intercept and analyze HTTP traffic during security testing?**
  - A. Snort**
  - B. Burp Suite**
  - C. Nmap**
  - D. Netcat**

**6. Which tool is primarily focused on exploiting browser vulnerabilities to execute attacks?**

- A. Burp Suite Community Edition**
- B. BeEF**
- C. SQLmap**
- D. OWASP ZAP**

**7. What is the primary purpose of OllyDbg?**

- A. Network analysis**
- B. Binary code analysis in Windows applications**
- C. File transfer protocol**
- D. System monitoring**

**8. What is the process of creating a simulation of a computing environment called?**

- A. Cloud Computing**
- B. Virtualization**
- C. Emulation**
- D. Simulation**

**9. Which organization was established to enhance software security and became a US nonprofit charity in 2004?**

- A. ISO**
- B. CERT**
- C. OWASP**
- D. NIST**

**10. What should happen if evidence of a compromise is found during a PenTest?**

- A. The PenTest continues as planned**
- B. The Incident Response Team should be notified**
- C. A detailed report should be created**
- D. Further testing should be avoided**

## **Answers**

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

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## **Explanations**

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## 1. What type of debugging tool is GNU Debugger (GDB)?

- A. Only for Windows
- B. Open-source for various platforms**
- C. Only for Linux
- D. Paid software

GNU Debugger (GDB) is an open-source debugging tool that provides developers with the ability to observe and control the execution of programs across various platforms. One of its key features is its versatility, as it can be used on Unix-like systems (such as Linux) as well as on Windows and macOS. This is essential for developers who work in cross-platform environments, allowing them to debug applications consistently regardless of the operating system in use. Since GDB is released under the GNU General Public License, it is freely available, making it accessible to anyone who wishes to use it for software development and debugging. This open-source nature encourages collaboration and contributions from the programming community, which further enhances its capabilities and support for different architectures and programming languages. In contrast, options that suggest GDB is limited to a specific operating system or is paid software do not accurately represent its functionality and accessibility. GDB's broad applicability and affordability as an open-source tool are what make it a fundamental resource in the realm of debugging.

## 2. What is the name of the open-source reverse engineering tool developed by the NSA?

- A. Barracuda
- B. Ghidra**
- C. Interactive Disassembler
- D. Frida

The correct answer is Ghidra, an open-source reverse engineering tool developed by the NSA. Ghidra is designed for analyzing compiled software and can decompile and disassemble various programming languages, making it a powerful resource for security professionals and researchers in understanding and dissecting software for vulnerabilities or malicious behavior. Its extensive features include a user-friendly GUI, support for a variety of formats, and the ability to extend its functionalities through scripts and plugins. While Barracuda is known in the context of network security, and Interactive Disassembler is a well-known commercial reverse engineering tool, they are not associated with the NSA. Frida, which is a dynamic instrumentation toolkit, is useful for various security-related tasks, but it is also not developed by the NSA and serves a different purpose than Ghidra in terms of reverse engineering capabilities.

### 3. What does OWASP ZAP stand for?

- A. Zed Attack Proxy**
- B. Zero-day Attack Program**
- C. Visibility Access Proxy**
- D. Zero Attack Prevention**

OWASP ZAP stands for Zed Attack Proxy, which is an open-source web application security scanner developed by the Open Web Application Security Project (OWASP). The tool is designed to help security professionals find vulnerabilities in web applications while testing for security issues in a user-friendly way. ZAP acts as a "man-in-the-middle" proxy, allowing users to intercept and modify the requests and responses between a client and a server. This capability is essential for conducting penetration tests, as it enables the identification of security flaws such as cross-site scripting (XSS), SQL injection, and other common attacks. The alternative options present various security concepts, but they do not accurately represent what OWASP ZAP stands for. The association of "Zed Attack Proxy" with ZAP emphasizes its primary purpose of analyzing web applications for security weaknesses, thus highlighting its importance in the field of penetration testing.

### 4. What is a jumpbox used for in a network security context?

- A. A system for accessing and managing devices in a separate security zone**
- B. A tool for scanning vulnerabilities in applications**
- C. An automated backup system for network files**
- D. A firewall that protects against external threats**

A jumpbox, often referred to as a jump server, serves as a secure intermediary for accessing and managing devices that reside in different security zones, particularly those that are more sensitive or isolated within a network. By using a jumpbox, security professionals can access these devices without directly exposing them to external networks or potential threats. This setup enhances security by providing a controlled path for administrative access, limiting points of network exposure, and helping to enforce security policies by logging access attempts. In the context of network security, options that refer to scanning vulnerabilities, automated backups, or firewalls do not accurately describe the primary function of a jumpbox. A tool for scanning vulnerabilities is typically used to identify weaknesses in applications or systems, while an automated backup system is concerned with data preservation rather than secure access. A firewall serves as a protective barrier to block unauthorized access from external threats but does not facilitate management of devices across different security zones like a jumpbox does. Hence, the primary role of a jumpbox focuses on secure connectivity and management, making the first choice the best representation of its purpose.

## 5. Which tool can be used to intercept and analyze HTTP traffic during security testing?

- A. Snort
- B. Burp Suite**
- C. Nmap
- D. Netcat

Burp Suite is a powerful tool specifically designed for web application security testing. It enables security professionals to intercept, inspect, and modify HTTP(S) traffic between a web browser and a target application. This capability is crucial for identifying vulnerabilities such as cross-site scripting, SQL injection, and other common web application issues. Burp Suite provides a user-friendly interface that allows testers to manipulate requests and responses easily, making it ideal for testing session management and authentication mechanisms. Additionally, it includes features like a proxy for intercepting traffic, scanners for automated testing, and various extensions to extend its functionality further. In contrast, Snort is primarily an intrusion detection system, focusing on monitoring and analyzing network traffic for malicious activity rather than specific HTTP traffic analysis. Nmap is a network scanning tool that identifies devices, services, and vulnerabilities on a network, but it does not specialize in HTTP traffic interception or analysis. Netcat is a networking utility that reads and writes data across network connections, but it lacks the sophisticated interfaces and capabilities for nearly as comprehensive HTTP testing as Burp Suite provides. Thus, Burp Suite stands out as the most suitable option for intercepting and analyzing HTTP traffic during security testing due to its dedicated features designed for web application security assessment.

## 6. Which tool is primarily focused on exploiting browser vulnerabilities to execute attacks?

- A. Burp Suite Community Edition
- B. BeEF**
- C. SQLmap
- D. OWASP ZAP

The correct choice is focused on exploiting vulnerabilities in web browsers, particularly those that can be leveraged through manipulative interactions with client-side scripting and web applications. This tool is designed specifically to test and exploit browser-related vulnerabilities by using techniques that manipulate the behavior of browsers and their associated clients. BeEF, or Browser Exploitation Framework, operates by allowing penetration testers to launch attacks from web browsers, creating a framework to test the security of web applications and client-side attacks. It allows the security professional to control the web browser of a target user and execute a variety of attack vectors, effectively turning the browser into a point of exploitation. This capability differentiates it from other tools that are broader in scope or focus on different aspects of security testing. For instance, while Burp Suite Community Edition and OWASP ZAP are powerful tools for scanning and testing web applications and APIs for vulnerabilities, they do not specifically target the act of exploiting browser vulnerabilities. SQLmap, on the other hand, is explicitly designed for automating the process of detecting and exploiting SQL injection vulnerabilities and thus does not address browser exploits at all. Understanding the specialized focus of BeEF helps in recognizing the significance of client-side security and the impact that at-risk web browsers can have on user

## 7. What is the primary purpose of OllyDbg?

- A. Network analysis
- B. Binary code analysis in Windows applications**
- C. File transfer protocol
- D. System monitoring

The primary purpose of OllyDbg is binary code analysis in Windows applications. OllyDbg is a popular and well-regarded debugger specifically designed for the analysis of executable files, such as programs compiled for the Windows operating system. It is particularly useful for reverse engineering applications, allowing security professionals, researchers, and developers to inspect the inner workings of binaries, study their behavior, and identify potential vulnerabilities. One of the key strengths of OllyDbg is its ability to display the assembly code of running processes in real-time, making it easier for users to understand how the application operates at a low level. It also features various tools for tracking function calls, memory allocations, and data manipulation within the program, which is invaluable for identifying security flaws and malware behavior. While network analysis, file transfer protocols, and system monitoring might involve other specialized tools, their functionalities do not align with what OllyDbg is designed for. Thus, understanding binary code analysis and reverse engineering applications is essential for cybersecurity practices, making OllyDbg a vital tool in that field.

## 8. What is the process of creating a simulation of a computing environment called?

- A. Cloud Computing
- B. Virtualization**
- C. Emulation
- D. Simulation

The process of creating a simulation of a computing environment is accurately described by the term "virtualization." Virtualization involves the use of software to create a virtual version of a hardware platform, storage device, network resources, or the entire computing environment. This allows multiple virtual systems to run on a single physical machine, improving resource utilization, flexibility, and scalability. In the context of penetration testing and cybersecurity, virtualization is particularly useful. It enables security professionals to set up isolated testing environments where they can safely conduct tests without affecting the physical machines or networks. These environments can be quickly spun up and dismantled as needed, which facilitates a more efficient testing process. While emulation and simulation may appear similar, they are distinct concepts. Emulation involves mimicking the functionality of one system using a different system, often to run software or applications that are not natively supported on the hardware. Similarly, simulation refers to creating a model that mimics real-world processes to analyze behavior and functionality. However, virtualization encompasses both of these aspects by allowing multiple computing environments to operate concurrently on a single infrastructure.

**9. Which organization was established to enhance software security and became a US nonprofit charity in 2004?**

- A. ISO**
- B. CERT**
- C. OWASP**
- D. NIST**

The organization established to enhance software security and recognized as a US nonprofit charity in 2004 is the Open Web Application Security Project (OWASP). OWASP focuses on improving the security of software by providing resources such as tools, guidelines, and methodologies to help developers and organizations understand and mitigate software vulnerabilities. It is widely known for its OWASP Top Ten project, which identifies and prioritizes the most critical security risks to web applications, serving as a valuable resource for developers, security professionals, and organizations aiming to improve their application security posture. In contrast, the other organizations mentioned have different focuses: ISO (International Organization for Standardization) sets international standards across various industries, CERT (Computer Emergency Response Team) deals with incident response and cybersecurity threats, and NIST (National Institute of Standards and Technology) provides standards and guidelines, primarily for federal agencies and organizations following its frameworks. Each of these plays an important role in their fields but does not specifically address the enhancement of software security in the same way OWASP does.

**10. What should happen if evidence of a compromise is found during a PenTest?**

- A. The PenTest continues as planned**
- B. The Incident Response Team should be notified**
- C. A detailed report should be created**
- D. Further testing should be avoided**

When evidence of a compromise is discovered during a penetration test, the appropriate action is to notify the Incident Response Team. This immediate communication is critical for several reasons. Firstly, identifying a compromise indicates a breach of security that could potentially affect the confidentiality, integrity, and availability of the organization's data and systems. The Incident Response Team is specially trained to handle such situations, ensuring that the breach is contained, investigated, and remedied according to established policies and procedures. Secondly, involving the Incident Response Team allows for a more thorough investigation of the detected compromise. They can analyze the situation to understand the scope and impact of the incident, which may require coordination with other teams, such as IT, legal, and management, to effectively address the compromise. Moreover, continuing with the penetration test without notifying the Incident Response Team could lead to further exposure of vulnerabilities or data, complicating the situation and potentially causing more significant damage. Additionally, creating a detailed report might be important later, but it would be premature to focus on documentation before addressing the immediate threats and vulnerabilities. In summary, notifying the Incident Response Team is a vital step to ensure that any signs of compromise are effectively managed and mitigated, keeping the organization safe from further risk.

# 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://comptia-pentestplus.examzify.com>**

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

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