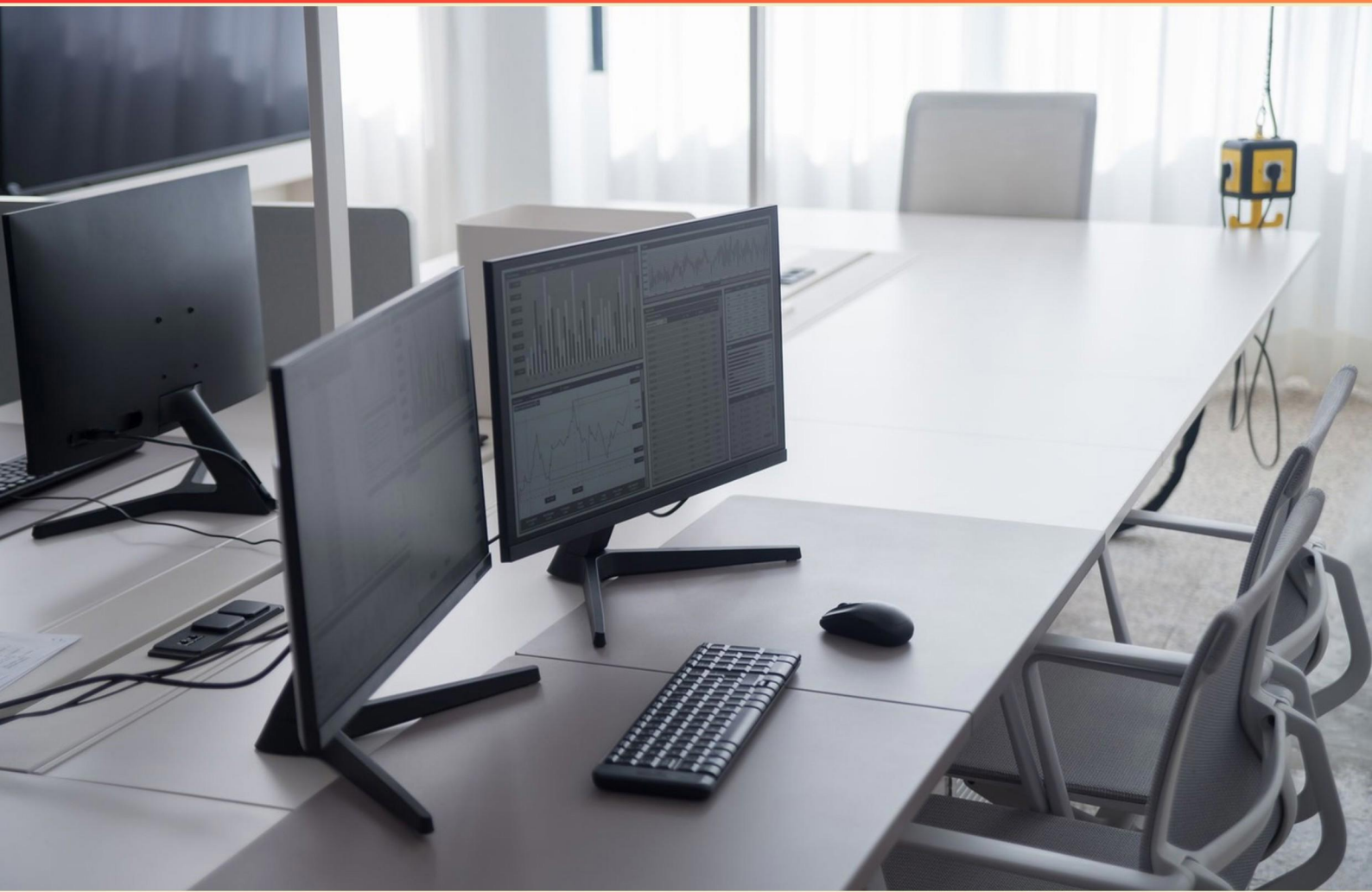


INFORMATION TECHNOLOGY SPECIALIST (ITS) CYBERSECURITY PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE

<https://its-cybersecurity.examzify.com>



Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

SAMPLE

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

SAMPLE

- 1. Which type of attack occurs when an attacker compromises a company's server to reroute a specific domain name to a fraudulent website?**
 - A. SQL Injection
 - B. Denial of Service
 - C. DNS Spoofing
 - D. Phishing

- 2. What is the primary goal of a Denial of Service (DoS) attack?**
 - A. Steal sensitive information
 - B. Disrupt service availability
 - C. Increase network traffic
 - D. Compromise user credentials

- 3. What is the aim of conducting an active reconnaissance attack during an internal penetration test?**
 - A. To execute a denial of service attack
 - B. To scan systems for vulnerabilities and identify weaknesses for attack
 - C. To gather information on user habits
 - D. To assess physical security of the environment

- 4. Which protocol allows network administrators to monitor and manage network performance?**
 - A. HTTP
 - B. SNMP
 - C. FTP
 - D. TCP

- 5. How is a "security incident" defined?**
 - A. An event that may indicate a potential breach of security
 - B. One that requires a firmware update
 - C. A user's failure to comply with security protocols
 - D. A situation leading to the termination of an employee

- 6. Which type of factor is represented by a PIN number in cybersecurity?**
- A. Something you have
 - B. Something you know
 - C. Something you are
 - D. Something you do
- 7. In the Cyber Kill Chain framework, what step involves obtaining an automated tool to deliver a malware payload?**
- A. Delivery
 - B. Exploit
 - C. Weaponization
 - D. Installation
- 8. Which category of cybersecurity measures involves implementing policies to avoid vulnerabilities?**
- A. Preventive measures
 - B. Detective measures
 - C. Responsive measures
 - D. Recovery measures
- 9. What type of attack involves substituting a source IP address to impersonate a legitimate system?**
- A. ARP Spoofing
 - B. IP Spoofing
 - C. DNS Spoofing
 - D. Port Scanning
- 10. What does the acronym "VPN" stand for?**
- A. Variable Private Network
 - B. Virtual Public Network
 - C. Virtual Private Network
 - D. Vulnerable Private Network

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. Which type of attack occurs when an attacker compromises a company's server to reroute a specific domain name to a fraudulent website?

- A. SQL Injection
- B. Denial of Service
- C. DNS Spoofing**
- D. Phishing

The scenario described is a clear instance of DNS Spoofing. This type of attack involves an attacker manipulating or compromising the Domain Name System (DNS) to redirect users from a legitimate website to a fraudulent one. When a specific domain name is entered, rather than the traffic being directed to the intended server, it is rerouted to a malicious site controlled by the attacker. This tactic allows the attacker to potentially capture sensitive information, such as login credentials or financial data, as users believe they are interacting with a legitimate website. This makes DNS Spoofing particularly disruptive and dangerous for both users and organizations. Other types of attacks mentioned do not align with this description. SQL Injection involves injecting malicious SQL queries into an application to manipulate databases, Denial of Service aims to disrupt service availability primarily by overwhelming resources, and Phishing typically refers to attempts to trick users into providing personal information through emails or messages rather than directly manipulating DNS records. Understanding these distinctions helps clarify why DNS Spoofing is the most fitting answer in this case.

2. What is the primary goal of a Denial of Service (DoS) attack?

- A. Steal sensitive information
- B. Disrupt service availability**
- C. Increase network traffic
- D. Compromise user credentials

The primary goal of a Denial of Service (DoS) attack is to disrupt service availability. In such an attack, the perpetrator aims to make a service or a network resource unavailable to its intended users by overwhelming it with a flood of illegitimate requests or traffic. This can result in legitimate users being unable to access the targeted service, which can lead to significant operational disruptions for businesses and individuals alike. While other options may involve different forms of malicious activity, they do not capture the essence of what a DoS attack seeks to achieve. For example, stealing sensitive information or compromising user credentials relates to the unauthorized access and manipulation of data, rather than simply denying access to a service. Additionally, while a DoS attack may incidentally cause increased network traffic as it seeks to overwhelm a target, that increase in traffic itself is not the goal. The focus is squarely on service disruption, making it the correct answer.

3. What is the aim of conducting an active reconnaissance attack during an internal penetration test?

- A. To execute a denial of service attack
- B. To scan systems for vulnerabilities and identify weaknesses for attack**
- C. To gather information on user habits
- D. To assess physical security of the environment

The aim of conducting an active reconnaissance attack during an internal penetration test is to scan systems for vulnerabilities and identify weaknesses for attack. This phase of penetration testing is crucial because it allows security professionals to actively interact with the systems in the target environment. By employing tools and techniques such as port scanning, network mapping, and vulnerability scanning, testers can gather detailed information about the network's configuration, the operating systems in use, services running, and potential security flaws. This detailed insight helps in forming a strategy for further exploitation and ultimately aids in strengthening the organization's security posture by identifying areas needing improvement. The other options, while related to security assessments, do not focus on the primary goal of an active reconnaissance attack. Executing a denial of service attack does not align with the purpose of penetration testing, which is to assess security, not disrupt services. Gathering information on user habits might fall under social engineering or user behavior analysis, which are distinct from active reconnaissance. Lastly, assessing physical security pertains to evaluating the tangible aspects of security, such as access controls to facilities, rather than the technical vulnerabilities within a system or network.

4. Which protocol allows network administrators to monitor and manage network performance?

- A. HTTP
- B. SNMP**
- C. FTP
- D. TCP

The correct choice is SNMP, which stands for Simple Network Management Protocol. SNMP is specifically designed for network management and monitoring. It enables network administrators to collect and organize information about various network devices, such as routers, switches, firewalls, and servers. By using SNMP, administrators can track network performance, detect failures, and configure devices remotely. SNMP operates on a client-server architecture where the SNMP manager communicates with SNMP agents installed on the network devices. SNMP agents gather performance metrics and status data, which the manager then retrieves for analysis. This makes SNMP a crucial tool in ensuring a network runs efficiently and helps in proactive management of network resources. Other protocols like HTTP, FTP, and TCP serve different purposes. HTTP (Hypertext Transfer Protocol) is primarily used for transferring web pages. FTP (File Transfer Protocol) facilitates the transfer of files over a network, while TCP (Transmission Control Protocol) ensures reliable communication across networks, providing error correction and data integrity. None of these protocols are intended for monitoring or managing the performance of network devices, which is why SNMP is the most suitable choice for this function.

5. How is a "security incident" defined?

- A. An event that may indicate a potential breach of security
- B. One that requires a firmware update
- C. A user's failure to comply with security protocols
- D. A situation leading to the termination of an employee

A "security incident" is defined as an event that may indicate a potential breach of security. This definition aligns with industry standards and best practices in cybersecurity, which emphasize the importance of recognizing and responding to events that could compromise the confidentiality, integrity, or availability of an organization's information systems or data. Understanding this definition is crucial because it encompasses a wide range of scenarios. For instance, a security incident could involve unauthorized access attempts, malware infections, or any other anomalies that could suggest that a security protocol may have been violated or that sensitive data could be at risk. By defining security incidents in terms of potential breaches, organizations can prioritize their responses and implement necessary measures to mitigate risks. The other choices focus on more specific situations that do not encapsulate the broader concept of a security incident. For example, requiring a firmware update may be related to security but is not inherently indicative of a security incident. Similarly, a user's failure to comply with security protocols may contribute to incidents but, on its own, does not define what an incident is. Termination of an employee, while potentially resulting from security violations, is also not a definition of a security incident. Thus, the most accurate understanding of a security incident is one that recognizes it as something indicative of

6. Which type of factor is represented by a PIN number in cybersecurity?

- A. Something you have
- B. Something you know
- C. Something you are
- D. Something you do

A PIN number is classified as "something you know" in cybersecurity. This type of factor is crucial for authentication purposes, as it relies on the user possessing knowledge of a specific piece of information—namely the Personal Identification Number. In many scenarios, entering a PIN is a way to prove identity to access secure systems, accounts, or information. This knowledge-based factor ensures that only individuals who have memorized the PIN can gain access, making it a foundational element of security protocols like two-factor authentication (2FA), where users combine something they know (the PIN) with something they have (like a security token or smartphone). Understanding the categories of authentication factors assists cybersecurity professionals in designing more robust security systems, effectively combining various types of factors to enhance protection against unauthorized access.

7. In the Cyber Kill Chain framework, what step involves obtaining an automated tool to deliver a malware payload?

- A. Delivery
- B. Exploit
- C. Weaponization**
- D. Installation

In the Cyber Kill Chain framework, the step that involves obtaining an automated tool to deliver a malware payload is weaponization. During this phase, the attacker creates a malicious payload and packages it for delivery to the target. This process often includes utilizing automated tools to ensure that the malware is effectively crafted and ready for delivery, enhancing the efficiency and stealth of the attack. Weaponization is a crucial step because, without a properly crafted payload, the subsequent steps in the attack chain, such as delivery and exploitation, cannot be effectively executed. This step is focused on combining the exploit and the payload, which can include creating or assembling malware that can be delivered through various channels, such as email, websites, or removable media. Thus, understanding weaponization is essential for recognizing how attackers prepare their tools for launching an attack.

8. Which category of cybersecurity measures involves implementing policies to avoid vulnerabilities?

- A. Preventive measures**
- B. Detective measures
- C. Responsive measures
- D. Recovery measures

Preventive measures are designed to implement policies, practices, and controls that minimize the risk of vulnerabilities being exploited in a system or network. This proactive category focuses on stopping potential threats before they can cause harm or compromise data integrity, confidentiality, and availability. Examples include access controls, firewalls, encryption, and employee training on security best practices. The other categories, while crucial for a comprehensive cybersecurity strategy, do not primarily focus on avoiding vulnerabilities. Detective measures involve identifying and alerting to potential security breaches that have already occurred or are occurring, while responsive measures are about acting upon detected incidents to mitigate damage. Recovery measures pertain to restoring systems and data after a security incident has taken place. Therefore, preventive measures are essential for establishing a fortified cybersecurity posture by proactively addressing vulnerabilities.

9. What type of attack involves substituting a source IP address to impersonate a legitimate system?

- A. ARP Spoofing
- B. IP Spoofing**
- C. DNS Spoofing
- D. Port Scanning

The attack that involves substituting a source IP address to impersonate a legitimate system is known as IP Spoofing. In this type of attack, the attacker manipulates the packet header to replace their own IP address with that of another device, which is often a trusted or legitimate source. This allows the attacker to obfuscate their identity and potentially gain unauthorized access to systems or data, as the communication appears to originate from a trusted entity. IP Spoofing can be used in various malicious activities, such as Denial of Service (DoS) attacks, where the attacker floods a target with traffic using IP addresses that appear legitimate, or during the process of gaining access to secure networks by masquerading as a recognized IP address. Understanding IP Spoofing is crucial for network security, as it highlights the importance of validating IP addresses and implementing security measures that can detect and prevent such deceptive tactics. In contrast, ARP Spoofing involves sending false Address Resolution Protocol (ARP) messages to a local network, DNS Spoofing refers to corrupting the DNS cache to redirect users to fraudulent sites, and Port Scanning is a technique used to identify open ports on a networked device. Each of these methods serves different purposes within the

10. What does the acronym "VPN" stand for?

- A. Variable Private Network
- B. Virtual Public Network
- C. Virtual Private Network**
- D. Vulnerable Private Network

The acronym "VPN" stands for Virtual Private Network. A VPN creates a secure, encrypted connection over a less secure network, such as the Internet. This technology enables users to send and receive data as if their devices were directly connected to a private network. By establishing this secure tunnel, a VPN ensures that sensitive information is protected from interception and unauthorized access. The term "virtual" refers to the fact that this private network is not physically defined by cables and hardware but rather is established through software and protocols. The 'private' aspect indicates that the VPN provides a level of privacy and security, safeguarding data traveling over public networks. Other terms in the options, such as 'Variable' and 'Vulnerable,' do not accurately capture the concept of a VPN, as they do not pertain to the functionality of secure and private network connections. Similarly, "Virtual Public Network" incorrectly suggests that the network is public rather than private, which detracts from the fundamental purpose of a VPN. Overall, the definition and function of a Virtual Private Network make it essential for effective cybersecurity practices when accessing the internet or connecting to remote resources.

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://its-cybersecurity.examzify.com>

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

SAMPLE