

CompTIA Security+ (SY0-701) Certification Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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

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 general purpose of a Dropper in a malware context?**
 - A. To initiate a denial of service attack**
 - B. To connect to an external command and control server**
 - C. To install additional malicious payloads**
 - D. To create a secure connection for the user**
- 2. Which control is exemplified by using antivirus software to quarantine malware?**
 - A. Preventative Controls**
 - B. Corrective Controls**
 - C. Directive Controls**
 - D. Deterrent Controls**
- 3. Which malware encrypts files on a computer to demand a ransom for decryption?**
 - A. Adware**
 - B. Spyware**
 - C. Ransomware**
 - D. Worm**
- 4. What is NOT a focus of regular audits in maintaining data integrity?**
 - A. Identifying unauthorized changes**
 - B. Reviewing hardware performance**
 - C. Ensuring compliance with policies**
 - D. Addressing discrepancies**
- 5. Which of the following is an example of a protective measure for digital information?**
 - A. Biometric security locks**
 - B. Data masking**
 - C. Cabling for workstations**
 - D. Office interior design**

- 6. What type of redundancy ensures that an alternate path is available for data transmission?**
- A. Network Redundancy**
 - B. Power Redundancy**
 - C. Server Redundancy**
 - D. Storage Redundancy**
- 7. What is one of the primary reasons for ensuring data integrity?**
- A. It enables faster data processing**
 - B. It ensures decisions are made based on correct information**
 - C. It reduces the cost of data storage**
 - D. It simplifies the data management process**
- 8. What is the primary function of software firewalls?**
- A. To protect a single computer from unwanted internet traffic**
 - B. To encrypt data at rest**
 - C. To remove malware from a system**
 - D. To block all outgoing connections**
- 9. Which type of controls encompasses procedures and measures for data protection governed by human actions?**
- A. Technical Controls**
 - B. Managerial Controls**
 - C. Operational Controls**
 - D. Physical Controls**
- 10. Adware is primarily designed to do what?**
- A. Harvest credentials**
 - B. Install additional software**
 - C. Display advertisements**
 - D. Encrypt files**

Answers

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

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Explanations

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1. What is the general purpose of a Dropper in a malware context?

- A. To initiate a denial of service attack**
- B. To connect to an external command and control server**
- C. To install additional malicious payloads**
- D. To create a secure connection for the user**

In the context of malware, the primary purpose of a Dropper is to install additional malicious payloads on a target system. A Dropper is a type of malware designed specifically to deploy other types of malicious software, which may include Trojans, spyware, ransomware, or other harmful payloads. Once the Dropper has successfully executed its initial phase on the target device, it can then download and install these secondary threats, thereby compromising the system further. The Dropper often does this stealthily, working without the user's knowledge, and may take advantage of vulnerabilities in the system to facilitate its actions. This process is crucial for attackers, as it allows them to establish a foothold and potentially execute a range of malicious activities on the compromised system. The effectiveness of a Dropper lies in its ability to bypass security measures and operate unnoticed, making it a fundamental component of many multi-stage attacks.

2. Which control is exemplified by using antivirus software to quarantine malware?

- A. Preventative Controls**
- B. Corrective Controls**
- C. Directive Controls**
- D. Deterrent Controls**

Using antivirus software to quarantine malware is an example of corrective controls. Corrective controls are implemented to address and mitigate the impact of security incidents once they have occurred. They are designed to restore systems or data to normal operations after an unwanted event, such as a malware infection. When antivirus software identifies a piece of malware, it can quarantine it, effectively isolating it from the rest of the system to prevent further harm. This action helps to remediate the infection and allows for a cleanup process to restore the affected systems or files. The primary goal of corrective controls is to fix the problems that arise from security breaches and to prevent further damage from occurring, even after the incident has taken place. In contrast, preventative controls would focus on measures taken to avoid security breaches in the first place, directive controls provide guidance on expected behaviors, and deterrent controls aim to discourage malicious actions. Therefore, the action of quarantining malware properly aligns with the role of corrective controls in cybersecurity.

3. Which malware encrypts files on a computer to demand a ransom for decryption?

- A. Adware
- B. Spyware
- C. Ransomware**
- D. Worm

Ransomware is a type of malware specifically designed to encrypt files or even lock a computer's system, rendering it inaccessible to the user. The primary mechanism of ransomware involves taking control of the user's data and demanding a ransom payment in exchange for the decryption key needed to regain access to the files. This type of malware typically spreads through phishing emails, malicious downloads, or exploit kits, seeking to maximize its impact by encrypting as many files as possible. Ransomware attacks can be particularly damaging to individuals and organizations, as they can lead to significant data loss and operational downtime while also posing challenges regarding recovery and data integrity. In contrast, adware is software that displays unwanted advertisements; spyware secretly monitors user activity without consent; and worms are self-replicating malware that spread across networks but do not necessarily encrypt files or demand ransom. This distinction clarifies why ransomware is the correct answer in this context—its defining feature is the act of demanding payment for file decryption.

4. What is NOT a focus of regular audits in maintaining data integrity?

- A. Identifying unauthorized changes
- B. Reviewing hardware performance**
- C. Ensuring compliance with policies
- D. Addressing discrepancies

Regular audits are integral to maintaining data integrity, focusing on various aspects that directly impact the accuracy and consistency of data. The key purpose of these audits includes identifying unauthorized changes, which helps in ensuring that only intended modifications are made to the data and that any tampering or accidental edits are caught early. Additionally, addressing discrepancies is crucial, as this process involves investigating any inconsistencies found in the data to resolve potential issues affecting integrity. Ensuring compliance with policies is another critical area covered in audits. This ensures that the organization's data management practices align with established policies, industry standards, and regulatory requirements, thus reinforcing the trustworthiness of their data. Reviewing hardware performance, while it can be relevant in a broader context of system operations, does not directly pertain to maintaining data integrity during regular audits. The primary focus of audits is to assess and verify the integrity of data, rather than evaluating the performance of the underlying hardware that stores or processes that data. This distinction is vital for understanding the scope and objectives of data integrity audits.

5. Which of the following is an example of a protective measure for digital information?

- A. Biometric security locks**
- B. Data masking**
- C. Cabling for workstations**
- D. Office interior design**

Data masking is an effective protective measure for digital information as it involves obscuring specific data within a database so that it remains usable for testing or training purposes while protecting sensitive information from unauthorized access. By replacing original data with modified content that has a similar format but is not identifiable, organizations can reduce risks associated with data exposure while complying with privacy requirements. This technique ensures that when environments like development or testing are shared or used, sensitive information, such as personally identifiable information (PII), remains confidential and protected from potential threats or breaches. It plays a crucial role in data security strategies, particularly in environments where data sharing is necessary, yet maintaining confidentiality is a priority. Other options mentioned might contribute to overall security but do not specifically address the protection of digital information in the context of data handling and privacy as effectively as data masking does.

6. What type of redundancy ensures that an alternate path is available for data transmission?

- A. Network Redundancy**
- B. Power Redundancy**
- C. Server Redundancy**
- D. Storage Redundancy**

Network redundancy refers specifically to the design strategies that provide alternate pathways for data transmission. In a network, ensuring that there are multiple connections or routes allows for continuous communication even if one path fails. This redundancy can involve various technologies and configurations, such as additional cabling, switches, routers, or protocols that dynamically reroute traffic in case of a failure. The primary goal of network redundancy is to enhance reliability and minimize downtime, ensuring that data can still reach its destination even in the event of disruptions. Power redundancy focuses on providing backup power sources to prevent system outages due to power failure, which, while important for overall system reliability, does not pertain to data transmission paths. Server redundancy involves having duplicate servers that can take over in case one fails, often used to improve application availability rather than data transmission paths specifically. Storage redundancy ensures that data is replicated or backed up in different storage locations to protect against data loss, but it also does not address the alternate data routing needed for transmission.

7. What is one of the primary reasons for ensuring data integrity?

- A. It enables faster data processing**
- B. It ensures decisions are made based on correct information**
- C. It reduces the cost of data storage**
- D. It simplifies the data management process**

Ensuring data integrity is crucial primarily because it ensures that decisions are made based on correct information. When data integrity is maintained, it means that the data is accurate, consistent, and reliable over its lifecycle. This reliability is fundamental for organizations since decisions—whether operational, strategic, or analytical—are often based on the data at hand. If the data is corrupted, outdated, or incorrect, it can lead to poor decision-making, which can have detrimental effects on an organization's efficiency, credibility, and overall success. Therefore, maintaining data integrity is essential not only for the smooth functioning of processes but also for fostering trust in the information that drives critical business decisions.

8. What is the primary function of software firewalls?

- A. To protect a single computer from unwanted internet traffic**
- B. To encrypt data at rest**
- C. To remove malware from a system**
- D. To block all outgoing connections**

The primary function of software firewalls is to protect a single computer from unwanted internet traffic. Software firewalls act as a barrier between a device and the network, monitoring and controlling incoming and outgoing network traffic based on predetermined security rules. They help to prevent unauthorized access to the computer, ensuring that only legitimate traffic is allowed through, thereby safeguarding the system from potential threats such as hackers or malicious software. While encrypting data at rest is a critical security measure, it falls under the scope of data protection rather than the primary function of a firewall. Similarly, the removal of malware is a task typically handled by antivirus or anti-malware programs, not firewalls. Lastly, while a firewall can block outgoing connections based on specified rules, its function is not to block all outgoing connections indiscriminately. Instead, it selectively allows or denies traffic based on established criteria, focusing on protecting the computer from unwanted or harmful traffic rather than disrupting all outgoing communications.

9. Which type of controls encompasses procedures and measures for data protection governed by human actions?

- A. Technical Controls**
- B. Managerial Controls**
- C. Operational Controls**
- D. Physical Controls**

Operational controls encompass procedures and measures for data protection that rely heavily on human actions. These controls involve the day-to-day operational procedures that employees execute to ensure the security and integrity of data. This can include policies for handling data, training requirements for staff, incident response procedures, and other activities that depend on human involvement to function effectively.

Operational controls are vital because they define how systems should be managed and governed during regular operations. They are designed to address the practical aspects of maintaining security in an organization's work environment. For instance, if employees are trained on recognizing phishing attempts or are required to follow strict protocols when accessing sensitive information, these are examples of operational controls in action. Technical controls, on the other hand, involve the hardware or software solutions that enforce security. Managerial controls focus on the policies and governance aspect to manage risk, while physical controls relate to the physical security measures protecting the organization's facilities. Each plays a unique role in an overall security framework, but operational controls are specifically tailored to the actions that individuals must take to protect data.

10. Adware is primarily designed to do what?

- A. Harvest credentials**
- B. Install additional software**
- C. Display advertisements**
- D. Encrypt files**

Adware is primarily designed to display advertisements to users while they are browsing the internet or using software. The primary goal of adware is to generate revenue for the developers through advertising revenue. This can include pop-up ads, banner ads, or other forms of online advertising that are inserted into a user's browsing experience. While adware can sometimes bundle other software or attempt to collect user data for targeted advertising, its main function remains focused on advertising itself. This distinguishes it from other types of malware that might be focused on more malicious activities such as credential harvesting or file encryption. Understanding the primary function of adware helps in identifying and mitigating its presence in systems and distinguishing it from other security threats.

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://comptiasecplussy0701.examzify.com>

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