

COMPTIA SECURITY+ PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED 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. 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 technology integrates multiple communication methods into an enterprise network?**
 - A. Domain Name System (DNS)
 - B. Unified Communications
 - C. Load Balancer
 - D. Internal Border Gateway Protocol (iBGP)
- 2. What mechanism prevents poisoning attacks on the DHCP database?**
 - A. ARP Broadcast
 - B. DHCP Snooping
 - C. Switch Spoofing
 - D. 6to4
- 3. What architecture is characterized by hosted virtual desktops managed from a centralized server, often utilizing DaaS?**
 - A. Distributed Computing
 - B. Centralized Computing
 - C. Cloud-Based Architecture
 - D. Virtual Workspace Model
- 4. Which access control model allows an administrator to implement security policies across all users?**
 - A. Discretionary Access Control (DAC)
 - B. Rule-Based Access Control
 - C. Role-Based Access Control
 - D. Mandatory Access Control (MAC)
- 5. What does an Application Programming Interface (API) Gateway do?**
 - A. Manages network security settings
 - B. Aggregates services to fulfill API requests
 - C. Encrypts data between services
 - D. Monitors API usage for anomalies

- 6. What is the concept that allows sharing computing resources within a cloud?**
- A. Single Tenancy
 - B. Multitenancy
 - C. Cloud Federation
 - D. Resource Pooling
- 7. Which process allows two parties to jointly evaluate a publicly known function without revealing their inputs?**
- A. Secure Function Evaluation (SFE)
 - B. Cryptographic Exchange
 - C. Secure Multi-Party Computation
 - D. Joint Data Processing
- 8. Which technology enables seamless transition from IPv4 to IPv6 networks?**
- A. 6to4
 - B. Teredo
 - C. Dynamic ARP Inspection
 - D. DHCP Snooping
- 9. Which plan specifically refers to actions taken during a disaster?**
- A. Crisis Action Plan
 - B. Recovery Strategy Plan
 - C. Emergency Action Plan
 - D. Disaster Recovery Plan (DRP)
- 10. Which of the following devices is used for process automation in industrial systems?**
- A. Fieldbus
 - B. Modbus
 - C. Programmable Logic Controller (PLC)
 - D. Workstation Computer

Answers

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

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Explanations

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1. What technology integrates multiple communication methods into an enterprise network?

- A. Domain Name System (DNS)
- B. Unified Communications**
- C. Load Balancer
- D. Internal Border Gateway Protocol (iBGP)

Unified Communications refers to a system that integrates various communication methods such as voice, video, messaging, and collaboration tools into a cohesive framework within an enterprise network. This integration enhances communication efficiency and streamlines workflows, allowing employees to communicate seamlessly across different platforms. By utilizing Unified Communications, organizations can improve collaboration among team members, regardless of their geographical location. This technology typically leverages protocols and systems to connect various communication channels, making it easier for users to switch between voice calls, video meetings, and instant messaging without the need for disparate tools and systems. The other options do not provide this integration capability. DNS is primarily concerned with translating domain names into IP addresses for network communication. A load balancer distributes network or application traffic across multiple servers to ensure reliability and optimize resource use, but it does not integrate communication methods. Internal Border Gateway Protocol is used for routing data within larger networks, particularly between autonomous systems, and is not focused on communication methods. Thus, Unified Communications is the most appropriate choice for integrating multiple communication strategies in an enterprise setting.

2. What mechanism prevents poisoning attacks on the DHCP database?

- A. ARP Broadcast
- B. DHCP Snooping**
- C. Switch Spoofing
- D. 6to4

The correct answer is DHCP Snooping, which is a security feature that helps protect against unauthorized DHCP servers and various types of attacks, including DHCP database poisoning. DHCP Snooping acts as a gatekeeper by filtering DHCP messages between clients and servers in a network. It ensures that only trusted DHCP servers can send legitimate DHCP responses to clients. When enabled, DHCP Snooping maintains a binding table that contains information about which MAC addresses were assigned which IP addresses. This helps prevent malicious users from injecting false DHCP offers that could redirect traffic or compromise device configurations. By only allowing DHCP messages from predetermined trusted sources, it effectively reduces the risk of man-in-the-middle attacks and helps maintain an accurate and secure DHCP database. Other options do not offer the specific focused protection against DHCP-related vulnerabilities. For instance, ARP Broadcast is related to the Address Resolution Protocol and does not directly address DHCP security issues. Switch Spoofing pertains to methods attackers might use to compromise switches, but it doesn't specifically target DHCP database integrity. The 6to4 option is a technique for transmitting IPv6 packets over an IPv4 network and is not related to DHCP security at all. Thus, DHCP Snooping is the most relevant and effective mechanism to prevent poisoning attacks on the DHCP database.

3. What architecture is characterized by hosted virtual desktops managed from a centralized server, often utilizing DaaS?

- A. Distributed Computing
- B. Centralized Computing**
- C. Cloud-Based Architecture
- D. Virtual Workspace Model

The architecture characterized by hosted virtual desktops managed from a centralized server, often utilizing Desktop as a Service (DaaS), is Centralized Computing. In this model, user desktops are not tied to individual physical machines but are instead hosted on a central server. This allows for easier management, maintenance, and updates since all virtual desktops can be controlled from one point. Centralized Computing effectively enhances security and reduces resource consumption at client machines because most processing and data storage occur on the server. This model also supports remote work environments where employees can access their desktops from various devices while relying on the central server for processing power and data storage. Other architectures, such as Distributed Computing, involve multiple interconnected devices that share processing tasks, but they do not specifically pertain to virtual desktop environments managed from a single location. Cloud-Based Architecture encompasses broader services that may include virtual desktops but is not solely defined by this feature. The Virtual Workspace Model, while relevant, is less specific in describing the centralized management aspect emphasized in this context.

4. Which access control model allows an administrator to implement security policies across all users?

- A. Discretionary Access Control (DAC)
- B. Rule-Based Access Control
- C. Role-Based Access Control**
- D. Mandatory Access Control (MAC)

The correct choice emphasizes the capability of Role-Based Access Control (RBAC) to implement security policies efficiently across all users within an organization. RBAC is centered around the roles that users hold within the organization. Each role is associated with the permissions required to perform particular tasks, allowing administrators to define what actions a user can perform based solely on their assigned role rather than on individual user permissions. This model facilitates a streamlined management process because when a user's role changes, only their role needs to be updated to reflect the new permissions, rather than changing permissions for every single user individually. This scalability and ease of management make RBAC particularly effective for organizations where user access needs to be controlled dynamically and ensures that policies remain consistent across all users in similar roles. By using RBAC, organizations can enforce security policies uniformly, reducing the risk of human error and ensuring that users have access only to the information necessary for their roles. This model supports various compliance requirements and enhances overall security posture by promoting the principle of least privilege.

5. What does an Application Programming Interface (API) Gateway do?

- A. Manages network security settings
- B. Aggregates services to fulfill API requests**
- C. Encrypts data between services
- D. Monitors API usage for anomalies

An Application Programming Interface (API) Gateway serves as a critical component in modern software architecture, particularly when dealing with microservices and distributed systems. Its primary function is to aggregate services to fulfill API requests. When a client application makes a request to an API, the API Gateway consolidates requests and routes them to the appropriate backend services based on predefined rules and configurations. This not only simplifies the communication process but also enhances the efficiency of service management by providing a single point of access for multiple services. By consolidating the services, the API Gateway can also perform additional tasks such as request transformation, routing, and combining multiple service calls into a single response. This functionality makes it easier for developers to manage their APIs and allows for improved performance and scalability. Other potential roles of an API Gateway, while important, are not its primary focus. For instance, while monitoring API usage for anomalies and managing security settings are important for overall API management and security, they are secondary to the core function of aggregating and routing service requests. Encryption can also be part of the API Gateway's offerings, particularly in securing communications between services, but again, the main task is to aggregate and manage the flow of requests effectively.

6. What is the concept that allows sharing computing resources within a cloud?

- A. Single Tenancy
- B. Multitenancy**
- C. Cloud Federation
- D. Resource Pooling

The concept that allows sharing computing resources within a cloud is multitenancy. In a multitenant architecture, multiple customers or tenants share the same physical resources while maintaining data isolation and security. This approach is fundamental to cloud computing because it enables efficient resource utilization, reduced costs, and scalability. Multitenancy allows cloud service providers to serve multiple customers using shared infrastructure, such as servers, storage, and networking, which leads to economies of scale. Each tenant's applications and data are segregated, ensuring privacy and security while benefiting from a shared pool of resources. This model is key to the functionality and appeal of cloud services, as it allows organizations to access powerful computing capabilities without having to invest in dedicated hardware. Other concepts like single tenancy involve dedicated resources for each user, which can lead to higher costs and inefficiency. Cloud federation refers to the connection and interoperability between multiple cloud services. Resource pooling is a technique that describes how cloud resources are allocated to multiple users, but it doesn't specifically address the shared aspect of different tenants utilizing those resources simultaneously. Multitenancy encapsulates the essence of sharing resources most effectively.

7. Which process allows two parties to jointly evaluate a publicly known function without revealing their inputs?

- A. Secure Function Evaluation (SFE)**
- B. Cryptographic Exchange
- C. Secure Multi-Party Computation
- D. Joint Data Processing

The correct answer is the process known as Secure Multi-Party Computation (MPC). This method enables two or more parties to jointly compute a function over their inputs while keeping those inputs private. The key aspect of MPC is that it allows parties to collaborate and obtain the result of the computation without revealing their individual data to one another. In this scenario, every party contributes their own data, and through cryptographic techniques, they compute the desired outcome based on a publicly known function, ensuring that no party has access to the other parties' private inputs throughout the process. This is particularly useful in scenarios where privacy is paramount, such as when two companies want to analyze shared data without exposing sensitive information. Secure Function Evaluation, while similar in purpose, is more specific and typically refers to a particular implementation of such computations rather than the broader category represented by Secure Multi-Party Computation. Cryptographic Exchange and Joint Data Processing do not accurately encapsulate the idea of two parties computing a function while keeping their inputs secret. Therefore, the comprehensive nature of Secure Multi-Party Computation makes it the correct answer in this context.

8. Which technology enables seamless transition from IPv4 to IPv6 networks?

- A. 6to4**
- B. Teredo
- C. Dynamic ARP Inspection
- D. DHCP Snooping

The technology that enables a seamless transition from IPv4 to IPv6 networks is 6to4. This mechanism provides a way for IPv6 packets to be transmitted over an IPv4 network by encapsulating the IPv6 packets within IPv4 packets. By doing so, it facilitates communication between IPv4-only devices and those that have transitioned to IPv6, effectively allowing them to coexist and communicate during the transition period. The 6to4 protocol automatically assigns an IPv6 address based on an IPv4 address, which helps in simplifying the addressing scheme while leveraging existing IPv4 infrastructure. This bridging is crucial as the world moves towards the adoption of IPv6, ensuring that organizations and individuals can communicate without interruption during the transition phase. Other technologies mentioned, like Teredo, also facilitate IPv6 transition but they operate under different circumstances, such as crossing NAT (Network Address Translation) devices. Dynamic ARP Inspection and DHCP Snooping are security features used within IPv4 networks to mitigate certain types of attacks on the network layer; they do not address the transition between IPv4 and IPv6. Understanding these distinctions helps clarify why 6to4 is the most appropriate choice for enabling a smooth transition between the two protocols.

9. Which plan specifically refers to actions taken during a disaster?

- A. Crisis Action Plan
- B. Recovery Strategy Plan
- C. Emergency Action Plan
- D. Disaster Recovery Plan (DRP)**

The Disaster Recovery Plan (DRP) specifically outlines the procedures and actions to be taken in the event of a disaster to ensure the recovery of critical business functions and the restoration of data, applications, and IT infrastructure. This plan is designed to address the aftermath of a disaster, detailing the methods to restore systems to operational status in the quickest and most efficient manner possible. Key components of a DRP often include identification of critical systems, recovery time objectives, the strategy for data backup and restoration, roles and responsibilities of the disaster recovery team, and communication plans. It is essential for organizations to have a well-defined DRP to minimize downtime and financial loss when facing catastrophic events such as natural disasters, cyberattacks, or hardware failures. Other plans mentioned, while related, serve slightly different purposes. The Crisis Action Plan primarily focuses on managing the immediate response to a critical incident, which might not necessarily involve the restoration of IT resources. The Recovery Strategy Plan outlines higher-level strategies for recovery but does not delve into the detailed procedures found in a DRP. The Emergency Action Plan typically details response actions during an emergency to protect lives and property, often prior to the activation of detailed recovery procedures. Thus, the DRP stands out as the comprehensive approach specifically

10. Which of the following devices is used for process automation in industrial systems?

- A. Fieldbus
- B. Modbus
- C. Programmable Logic Controller (PLC)**
- D. Workstation Computer

The Programmable Logic Controller (PLC) is specifically designed for process automation in industrial systems. It functions as a robust, specialized computer that accepts inputs from sensors, processes the information based on a pre-written program, and then sends commands to control various machinery and processes. PLCs are integral in a wide range of industrial applications, from manufacturing processes to assembly lines and complex equipment control. The reliance on PLCs helps ensure efficiency, reliability, and safety in industrial operations by allowing for automation of routine tasks, real-time monitoring, and the ability to respond to various inputs. They are programmed to execute logical operations, facilitate sequencing, and manage timing control, which are essential for automating processes effectively. Other devices mentioned are relevant in industrial systems but serve different roles. Fieldbus refers to a communication protocol used in automation and control systems to connect various devices, whereas Modbus is a communication protocol commonly used within industrial electronics for transmitting information. Lastly, a workstation computer is typically used for general computing tasks and data analysis, rather than directly controlling industrial processes.

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://comptiasecurityplus.examzify.com>

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

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