

Jason Dion Security+ Course Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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

- 1. Which type of network topology allows for direct communication between devices?**
 - A. Star topology**
 - B. Bus topology**
 - C. Ring topology**
 - D. Peer-to-peer topology**
- 2. What does the acronym MFA stand for?**
 - A. Multi-Factor Authentication**
 - B. Multiple Frequency Analysis**
 - C. Managed Firewall Access**
 - D. Master File Algorithm**
- 3. What does a macro virus do?**
 - A. Infects an operating system during boot-up**
 - B. It executes when a document is opened**
 - C. Infects files completely at random**
 - D. Requires manual execution to spread**
- 4. What primary function do Network Attached Storage (NAS) devices serve?**
 - A. They perform data analysis for databases**
 - B. They connect directly to a network for data storage**
 - C. They transmit data securely over the internet**
 - D. They provide power backup to computers**
- 5. What type of attack can exploit a faulty application to execute unauthorized commands?**
 - A. Phishing attack**
 - B. Denial of Service attack**
 - C. Code injection attack**
 - D. Man-in-the-middle attack**

- 6. What distinguishes a metamorphic virus?**
- A. It creates multiple copies quickly**
 - B. It rewrites itself entirely before infection**
 - C. It attaches to external storage devices**
 - D. It is simple to detect**
- 7. In information security, what does the term "threat vector" refer to?**
- A. The type of malware used in an attack**
 - B. The path or method used by a hacker to gain access to a computer or network**
 - C. The software used to defend against threats**
 - D. The plan created to respond to threats**
- 8. What distinguishes a Network DLP System from other DLP systems?**
- A. It is always hardware-based only**
 - B. It detects data at rest on servers**
 - C. It is installed on the network perimeter to monitor data in transit**
 - D. It encrypts files on removable media**
- 9. What does it mean when data is encrypted?**
- A. It is compressed for storage**
 - B. It is converted into a format that is unreadable without a key**
 - C. It is divided into smaller packets for transmission**
 - D. It is backed up in multiple locations**
- 10. Which type of malware blocks access to a system until a ransom is paid?**
- A. Spyware**
 - B. Adware**
 - C. Trojan horse**
 - D. Ransomware**

Answers

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

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Explanations

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1. Which type of network topology allows for direct communication between devices?

- A. Star topology**
- B. Bus topology**
- C. Ring topology**
- D. Peer-to-peer topology**

Peer-to-peer topology facilitates direct communication between devices by allowing each device on the network to connect with others without needing a centralized server. In this topology, all devices (or peers) have equal capabilities and responsibilities, enabling them to send and receive data directly from one another. This leads to a decentralized network structure where resources and data are shared directly, making it efficient for certain types of applications, such as file sharing or collaborative work. Other topologies, such as star, bus, and ring, typically involve some hierarchical structure or centralized management that can limit direct communication. For instance, in a star topology, all devices are connected through a central hub, which means devices communicate indirectly via the hub rather than directly with each other. Similarly, bus topology relies on a single central cable, and ring topology connects devices in a circular manner, both of which also restrict direct device-to-device communication. The peer-to-peer structure, however, is specifically designed for and best suited to facilitate that direct interaction.

2. What does the acronym MFA stand for?

- A. Multi-Factor Authentication**
- B. Multiple Frequency Analysis**
- C. Managed Firewall Access**
- D. Master File Algorithm**

MFA stands for Multi-Factor Authentication, which is a security mechanism that requires users to provide multiple forms of verification to gain access to a system or application. This approach significantly enhances security by combining different types of authentication factors, usually categorized as something the user knows (like a password), something the user has (like a security token or smartphone), and something the user is (like biometric verification such as fingerprints or facial recognition). By requiring multiple factors for authentication, it helps protect against unauthorized access, as an attacker would need to compromise more than just a single authentication method to gain entry. Other options like Multiple Frequency Analysis and Managed Firewall Access are not widely recognized terms related to authentication protocols. Master File Algorithm, while it sounds technical, does not pertain to user authentication techniques. Multi-Factor Authentication is the standard term that emphasizes the importance of layering security controls to safeguard sensitive information.

3. What does a macro virus do?

- A. Infects an operating system during boot-up
- B. It executes when a document is opened**
- C. Infects files completely at random
- D. Requires manual execution to spread

A macro virus is a type of malware that targets applications, particularly those that handle documents, such as word processors and spreadsheets. It is written using the macro programming language within these applications, which allows it to automate certain tasks. The correct answer highlights that a macro virus executes when a document is opened. This is significant because the virus is embedded within a document's macro code. When a user opens a document containing a macro virus, the malicious code executes automatically, often without the user's awareness. This can lead to damage or unauthorized actions such as corrupting files, stealing data, or spreading to other documents. In comparison, the other options do not accurately reflect the behavior of a macro virus. Infecting an operating system during boot-up is more characteristic of a boot sector virus rather than a macro virus. The random infection of files is not a defining attribute of macro viruses either; instead, they specifically target documents with macros. Additionally, while some malware requires manual execution to spread, a macro virus can activate itself upon opening a document, making it distinct in its method of execution.

4. What primary function do Network Attached Storage (NAS) devices serve?

- A. They perform data analysis for databases
- B. They connect directly to a network for data storage**
- C. They transmit data securely over the internet
- D. They provide power backup to computers

Network Attached Storage (NAS) devices primarily serve the function of connecting directly to a network for data storage. This allows multiple users and devices across the network to access files and data stored on the NAS efficiently. NAS systems provide a centralized location for storing data, which simplifies file sharing, backup, and access management in both home and business environments. Additionally, because they are networked, NAS devices often come equipped with their own operating systems and software to manage storage, user permissions, and sometimes even perform tasks such as media streaming. By offering such features, NAS plays an important role in enhancing data accessibility and collaboration, making it a vital component of modern networked environments.

5. What type of attack can exploit a faulty application to execute unauthorized commands?

- A. Phishing attack**
- B. Denial of Service attack**
- C. Code injection attack**
- D. Man-in-the-middle attack**

A code injection attack occurs when an attacker is able to insert malicious code into a program or application that is then executed by the system. This type of attack exploits vulnerabilities within the application, allowing attackers to execute unauthorized commands, manipulate data, or gain elevated privileges. Code injection often targets input fields where unsanitized data can be processed, such as SQL databases, web applications, or scripting environments. For example, if a web application accepts user input without proper validation, an attacker might input a SQL command that alters the database's behavior, leading to data theft, data modification, or other malicious effects. This tactic leverages a flaw in the code which does not properly handle user input, thereby enabling the execution of the attack. While phishing attacks are designed to trick users into providing sensitive information, denial of service attacks aim to disrupt service availability, and man-in-the-middle attacks intercept communications between two parties, none of these directly exploit application-level code vulnerabilities to execute commands. Therefore, code injection is the specific type of attack that fits the description provided in the question.

6. What distinguishes a metamorphic virus?

- A. It creates multiple copies quickly**
- B. It rewrites itself entirely before infection**
- C. It attaches to external storage devices**
- D. It is simple to detect**

A metamorphic virus is distinguished by its ability to rewrite itself entirely before it infects other systems. This characteristic allows the virus to change its code each time it replicates, which helps it evade detection by antivirus software. Traditional signature-based detection methods, which rely on identifying known patterns or signatures of viruses, find it more challenging to recognize metamorphic viruses because their constantly changing code does not match previously identified signatures. This self-altering behavior makes metamorphic viruses particularly sophisticated and dangerous, as they can continue to spread and adapt to avoid being neutralized by security measures. The ability to rewrite its own code is a defining feature that sets it apart from other types of malware, including polymorphic viruses that only alter parts of their code. While other options might refer to traits commonly associated with different types of malware, they do not encapsulate the unique self-replicating and self-modifying nature of a metamorphic virus.

7. In information security, what does the term "threat vector" refer to?

- A. The type of malware used in an attack**
- B. The path or method used by a hacker to gain access to a computer or network**
- C. The software used to defend against threats**
- D. The plan created to respond to threats**

The term "threat vector" refers to the specific path or method that a hacker uses to infiltrate a computer system or network. Understanding threat vectors is crucial in the field of information security because it helps security professionals identify vulnerabilities and potential points of entry that attackers may exploit. By recognizing these vectors, organizations can implement appropriate defenses to mitigate the risks associated with various types of attacks. For instance, a threat vector could involve tactics such as phishing emails that trick users into revealing login credentials, exploiting software vulnerabilities, or utilizing physical access to a device. Knowledge of these vectors enables security teams to enhance their security posture, develop better detection measures, and respond effectively to potential breaches. The other choices relate to different aspects of cybersecurity but do not align with the specific definition of a threat vector. For example, the type of malware signifies the nature of an attack rather than the method of access, and defensive software focuses on prevention rather than the attack method itself. Lastly, a response plan pertains to how an organization handles incidents rather than the pathways through which incidents occur.

8. What distinguishes a Network DLP System from other DLP systems?

- A. It is always hardware-based only**
- B. It detects data at rest on servers**
- C. It is installed on the network perimeter to monitor data in transit**
- D. It encrypts files on removable media**

A Network DLP (Data Loss Prevention) system specifically focuses on monitoring and protecting data as it is transmitted across the network. This involves intercepting data that is being sent to external locations, ensuring that sensitive information does not leave the organization without proper security measures. The distinguishing feature of a network DLP system is its placement at the network perimeter, which allows it to monitor data in transit effectively. This can include emails being sent, files uploaded to cloud services, and any other outbound traffic. By analyzing this data flow, the system can enforce policies that prevent unauthorized data sharing and protect against data leaks. Other types of DLP systems might focus on different aspects, such as data at rest or data in use. For example, some systems are designed to monitor data stored on servers (data at rest) or to operate on endpoints to protect information while it is being processed or accessed (data in use). A network DLP system, however, is uniquely positioned to safeguard data as it moves between networks.

9. What does it mean when data is encrypted?

- A. It is compressed for storage
- B. It is converted into a format that is unreadable without a key**
- C. It is divided into smaller packets for transmission
- D. It is backed up in multiple locations

When data is encrypted, it is transformed into a format that is unreadable without the appropriate decryption key. This process ensures that even if unauthorized individuals gain access to the data, they cannot interpret it without the key needed to revert it back to its original, readable form. Encryption is a critical aspect of data security, as it protects sensitive information during storage and transmission, ensuring confidentiality and integrity against threats like eavesdropping or data breaches. The other options describe processes related to data management and transmission but do not pertain directly to encryption. For instance, compressing data focuses on reducing the file size for storage efficiency, dividing data into smaller packets relates to how data is structured for transmission over networks, and backing up data involves creating copies to prevent loss. Each of these processes serves different purposes but does not ensure the same level of security that encryption provides.

10. Which type of malware blocks access to a system until a ransom is paid?

- A. Spyware
- B. Adware
- C. Trojan horse
- D. Ransomware**

Ransomware is specifically designed to block access to a system or data until a ransom is paid by the victim. This form of malware typically encrypts files or locks users out of their systems, displaying a message that demands payment to restore access. The primary objective of ransomware is financial gain through coercion, making it distinct from other types of malware. In contrast, spyware aims to gather information about a user or organization without their knowledge, typically for the purpose of data theft. Adware, on the other hand, generates unwanted advertisements, which can be intrusive but do not generally restrict access to the system. Trojan horses disguise themselves as legitimate software but can serve various malicious purposes, including opening backdoors for further attacks, but they do not inherently block access like ransomware does. Therefore, the unique characteristic of ransomware, which is to hold a system hostage until payment is made, clearly establishes it as the correct answer.

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://dionsecurityplus.examzify.com>

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