

FedVTE Cybersecurity Analyst 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

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- 1. Which type of attack involves redirecting users from a legitimate site to a fraudulent one?**
 - A. Phishing attack**
 - B. Denial of Service (DoS) attack**
 - C. Man-in-the-Middle (MitM) attack**
 - D. SQL Injection attack**

- 2. How can an organization prepare for phishing attacks?**
 - A. By ignoring suspicious emails and focusing on internal security.**
 - B. Through training employees, implementing email filtering, and regular testing.**
 - C. By increasing the number of emails sent to customers.**
 - D. By encrypting all outgoing communications.**

- 3. What does the term 'zero-day vulnerability' mean?**
 - A. A known flaw in software that has a public fix**
 - B. A flaw unknown to the vendor that could be exploited**
 - C. A vulnerability that the vendor has announced a fix for**
 - D. A flaw that can be exploited on the same day as its discovery**

- 4. What is the purpose of vulnerability scanning?**
 - A. To remove viruses and malware from systems**
 - B. To identify weaknesses in systems and applications that could be exploited by attackers**
 - C. To verify compliance with legal regulations**
 - D. To ensure all software is updated to the latest version**

- 5. Which of the following is a method to harden a web application?**
 - A. Using static coding practices**
 - B. Implementing SSL encryption**
 - C. Relying on default configurations**
 - D. Restricting access to developers only**

6. What does the acronym "MFA" stand for?

- A. Multiple Financial Authorizations**
- B. Multi-Factor Authentication**
- C. Mandatory Field Allocation**
- D. Maximum False Alarm**

7. What is the function of an Access Control List (ACL)?

- A. To analyze network traffic for performance improvements**
- B. To define permissions and access rights for users and groups to resources in a system**
- C. To detect and respond to unauthorized access attempts**
- D. To encrypt sensitive data in storage**

8. Bro and Snort are examples of what kind of Linux security feature?

- A. Intrusion detection systems**
- B. Firewall configurations**
- C. Encryption tools**
- D. Access control measures**

9. In an asset classification process, which of the following would be least likely to be considered a critical asset?

- A. Customer data**
- B. Financial records**
- C. Log files**
- D. Infrastructure servers**

10. What is used to record the order in which evidence was handled, by whom, and the nature of the evidence handling?

- A. Evidence log**
- B. Chain of custody**
- C. Security protocol**
- D. Incident report**

Answers

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

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Explanations

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1. Which type of attack involves redirecting users from a legitimate site to a fraudulent one?

- A. Phishing attack
- B. Denial of Service (DoS) attack
- C. Man-in-the-Middle (MitM) attack**
- D. SQL Injection attack

The type of attack that involves redirecting users from a legitimate site to a fraudulent one is a Man-in-the-Middle (MitM) attack. This type of attack occurs when an adversary intercepts the communication between two parties. By doing so, the attacker can manipulate the information being sent, which may include redirecting users to fake websites that resemble the legitimate ones. The goal of the attacker often is to capture sensitive information such as login credentials or financial data by deceiving the users into believing they are on a secure and trusted site when, in fact, they are being led to a malicious one. MitM attacks can utilize various tactics, including intercepting network traffic over unsecured Wi-Fi networks or employing malware to modify the user's session. This method exploits the user's trust in legitimate sites, and the outcome can have serious repercussions, such as identity theft or financial loss. In contrast, other types of attacks listed involve different mechanisms; for instance, phishing attacks directly solicit users through emails or messages to reveal sensitive information, while denial-of-service (DoS) attacks focus on overwhelming a service to make it unavailable, and SQL injection involves exploiting vulnerabilities in a database layer rather than redirecting users.

2. How can an organization prepare for phishing attacks?

- A. By ignoring suspicious emails and focusing on internal security.
- B. Through training employees, implementing email filtering, and regular testing.**
- C. By increasing the number of emails sent to customers.
- D. By encrypting all outgoing communications.

To effectively prepare for phishing attacks, an organization should focus on comprehensive strategies that include training employees, implementing email filtering, and conducting regular testing. Training employees is crucial because humans are often the weakest link in cybersecurity. By educating staff about the characteristics of phishing emails—such as unexpected attachments, misspellings, and requests for sensitive information—organizations empower their employees to recognize and avoid potential threats. Email filtering reduces the likelihood of phishing attempts reaching employees in the first place by filtering out suspicious emails based on predefined criteria. These filters can identify common phishing characteristics and quarantine or block these emails before they can cause harm. Regular testing, such as simulated phishing exercises, helps assess the effectiveness of training and identify areas for improvement. It allows organizations to measure how well employees can identify phishing attempts and reinforces the importance of vigilance. Together, these proactive measures form a robust defense against phishing attacks, addressing both technological and human factors in cybersecurity preparedness.

3. What does the term 'zero-day vulnerability' mean?

- A. A known flaw in software that has a public fix
- B. A flaw unknown to the vendor that could be exploited**
- C. A vulnerability that the vendor has announced a fix for
- D. A flaw that can be exploited on the same day as its discovery

The term 'zero-day vulnerability' refers to a flaw that is unknown to the vendor or the software development team, meaning that there is no available patch or fix at the time it is discovered. Because the vendor is unaware of the vulnerability, it is particularly dangerous; attackers can exploit it to gain unauthorized access to systems or data before the vendor has the opportunity to address the issue. This concept is critical in cybersecurity because once a vulnerability is known, it typically becomes a race between the vendor issuing a patch and attackers attempting to exploit the vulnerability. The term "zero-day" highlights the idea that the software developers have had zero days to address the vulnerability since they are unaware of its existence. Understanding this dynamic is key for cybersecurity professionals as they work to protect systems from such vulnerabilities.

4. What is the purpose of vulnerability scanning?

- A. To remove viruses and malware from systems
- B. To identify weaknesses in systems and applications that could be exploited by attackers**
- C. To verify compliance with legal regulations
- D. To ensure all software is updated to the latest version

Vulnerability scanning serves the critical purpose of identifying weaknesses in systems and applications that could be exploited by attackers. This process involves scanning networks, systems, and applications for known vulnerabilities that could potentially be leveraged by malicious actors to gain unauthorized access, steal data, or disrupt services. The primary goal is to provide organizations with a proactive means to detect and address security gaps before they can be exploited, allowing for timely remediation measures. By identifying these vulnerabilities, organizations can prioritize risk management efforts and strengthen their overall security posture. While aspects such as removal of malware, compliance verification, and ensuring software updates are important in cybersecurity practices, they do not directly align with the main objective of vulnerability scanning. In essence, vulnerability scanning is fundamentally about identifying and assessing potential entry points for attacks, making it a crucial activity in maintaining cybersecurity defenses.

5. Which of the following is a method to harden a web application?

- A. Using static coding practices**
- B. Implementing SSL encryption**
- C. Relying on default configurations**
- D. Restricting access to developers only**

Implementing SSL encryption is a fundamental method to harden a web application. SSL (Secure Sockets Layer) encrypts the data transmitted between a user's browser and the web server, preventing attackers from easily intercepting or tampering with sensitive information, such as passwords, credit card numbers, and personal data. By ensuring that all data in transit is encrypted, SSL helps maintain confidentiality and integrity, making it significantly more difficult for malicious actors to exploit vulnerabilities in the application. This encryption not only protects user data during transmission but also instills trust in users, as they see secure indicators in their browsers, such as HTTPS and the padlock icon. This is particularly important for any web application that handles sensitive or private information, reinforcing the overall security posture of the application and its ability to handle potential threats from attackers.

6. What does the acronym "MFA" stand for?

- A. Multiple Financial Authorizations**
- B. Multi-Factor Authentication**
- C. Mandatory Field Allocation**
- D. Maximum False Alarm**

The acronym "MFA" stands for Multi-Factor Authentication. This is a security mechanism that requires the use of two or more verification factors to gain access to a system or account. Traditional authentication typically relies on a single factor, such as a password. However, multi-factor authentication enhances security by requiring additional forms of identification, which can include something you know (like a password), something you have (like a smartphone or hardware token), or something you are (like a fingerprint or facial recognition). By implementing MFA, organizations significantly reduce the risk of unauthorized access, as it is much more challenging for an attacker to compromise multiple distinct authentication factors compared to just one. This method is crucial in cybersecurity practices as it mitigates the impact of password theft and strengthens overall security posture.

7. What is the function of an Access Control List (ACL)?

- A. To analyze network traffic for performance improvements
- B. To define permissions and access rights for users and groups to resources in a system**
- C. To detect and respond to unauthorized access attempts
- D. To encrypt sensitive data in storage

An Access Control List (ACL) serves the critical function of defining permissions and access rights for users and groups to various resources within a system. This mechanism establishes rules that dictate who can interact with specific resources, such as files, directories, or network objects, and what actions they are permitted to perform. For instance, an ACL can specify that a certain user has the ability to read, write, or execute a file, while another user might only have permission to read that file. ACLs are widely used in various operating systems and network devices to enhance security by explicitly stating access levels, thereby helping to prevent unauthorized access to sensitive data or system resources. This capability is essential in managing access control effectively and ensuring that only authorized individuals have the ability to view or modify information. By focusing on the permissions assigned through ACLs, organizations can better safeguard their data and maintain compliance with various security policies.

8. Bro and Snort are examples of what kind of Linux security feature?

- A. Intrusion detection systems**
- B. Firewall configurations
- C. Encryption tools
- D. Access control measures

Bro and Snort are both examples of intrusion detection systems (IDS). An intrusion detection system is designed to monitor network traffic for suspicious activities and potential threats, allowing administrators to identify and respond to security breaches. Bro, which is now known as Zeek, operates as a network security monitor that provides deep analysis of network traffic, enabling users to script their own security detections. Snort, on the other hand, is a widely used open-source IDS/IPS (intrusion prevention system) that analyzes network traffic in real-time and logs packets for the detection of various types of network attacks. The distinction of being classified as intrusion detection systems highlights their primary function: to detect and alert on potential threats within a network, rather than performing other security functions like packet filtering (which is common in firewalls), providing encryption for data, or managing user access rights. These specialized roles differentiate IDS from other types of security measures, reinforcing why Bro and Snort fall under this category.

9. In an asset classification process, which of the following would be least likely to be considered a critical asset?

- A. Customer data**
- B. Financial records**
- C. Log files**
- D. Infrastructure servers**

In the context of asset classification, critical assets are typically those that have a direct impact on the organization's ability to operate, maintain compliance, and protect its reputation. Customer data, financial records, and infrastructure servers are all essential components that contribute significantly to business operations and security. Customer data is vital because it relates directly to users and clients, which directly impacts trust and business viability. Financial records are critical as they hold sensitive financial information necessary for operations and legal compliance. Infrastructure servers are foundational to IT operations as they host applications, databases, and services that support business functions. On the other hand, log files, while useful for monitoring and security incident response, do not usually represent critical information. They are often used for auditing and troubleshooting rather than being pivotal to ongoing business operations. In an asset classification framework, log files would generally be categorized as less critical compared to the other options listed, as they don't have a direct effect on business continuity or client trust in the same manner as customer data, financial records, or infrastructure servers. This makes them the least likely to be considered critical assets.

10. What is used to record the order in which evidence was handled, by whom, and the nature of the evidence handling?

- A. Evidence log**
- B. Chain of custody**
- C. Security protocol**
- D. Incident report**

The correct answer is related to the concept of the chain of custody. This term refers specifically to the process that tracks and documents the handling of evidence from the moment it is collected until it is presented in court or destroyed. Maintaining an accurate chain of custody ensures that the evidence remains admissible in legal proceedings by providing a clear record of what happened to the evidence, who interacted with it, and how it was maintained throughout the investigation. This is crucial for establishing the integrity and authenticity of the evidence. In contrast to the chain of custody, an evidence log primarily serves as a detailed list of items collected but may not provide the comprehensive tracking of who handled each piece of evidence or the specific details of that handling over time. Security protocol refers to the broader set of guidelines and procedures for protecting organizational assets, and incident reports summarize the details of security incidents but do not specifically track evidence handling. Therefore, the chain of custody is the most appropriate term for documenting the handling process of evidence in a forensic context.

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://fedvtecybersecurityanalyst.examzify.com>

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

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