

# CISSP Domain 3 - Risk Identification, Monitoring, and Analysis Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. What is a primary objective of risk analysis?**
  - A. To eliminate all potential risks**
  - B. To identify and evaluate risks associated with an organization**
  - C. To increase financial investment in projects**
  - D. To enhance information technology infrastructure**
- 2. Nmap is categorized as which type of tool?**
  - A. Vulnerability scanner**
  - B. Web application fuzzer**
  - C. Network design and layout**
  - D. Port scanner**
- 3. What type of risk is associated with legal penalties and non-compliance with regulations?**
  - A. Operational risk**
  - B. Financial risk**
  - C. Compliance risk**
  - D. Reputational risk**
- 4. Which type of scanning is most practical for determining vulnerabilities in web applications?**
  - A. Port scanning**
  - B. Service validation**
  - C. Vulnerability scanning**
  - D. Penetration testing**
- 5. What is the purpose of regression testing in software development?**
  - A. To ensure new functionality works as intended**
  - B. To evaluate performance under high loads**
  - C. To uncover new bugs introduced by changes**
  - D. To test the application's security measures**

- 6. What is the primary goal of risk identification in cybersecurity?**
- A. To recognize potential threats and vulnerabilities that could affect an organization's assets**
  - B. To mitigate all risks before they occur**
  - C. To create awareness among employees about security**
  - D. To develop a comprehensive security policy**
- 7. During a log review, what type of attack is indicated by repeated invalid login attempts from the same user?**
- A. A pass-the-hash attack**
  - B. A brute-force attack**
  - C. A man-in-the-middle attack**
  - D. A dictionary attack**
- 8. Which framework is specifically focused on information security controls?**
- A. ITIL**
  - B. CMM**
  - C. ISO 27002**
  - D. PMBOK Guide**
- 9. Which of the following techniques is primarily quantitative in risk assessment?**
- A. Delphi technique**
  - B. Monte Carlo simulation**
  - C. Focus group discussions**
  - D. SWOT analysis**
- 10. Which risk assessment approach combines both quantitative and qualitative methods?**
- A. Qualitative risk assessment**
  - B. Combination of quantitative and qualitative risk assessment**
  - C. Neither quantitative nor qualitative risk assessment**
  - D. Quantitative risk assessment**

## **Answers**

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

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## **Explanations**

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## 1. What is a primary objective of risk analysis?

- A. To eliminate all potential risks
- B. To identify and evaluate risks associated with an organization**
- C. To increase financial investment in projects
- D. To enhance information technology infrastructure

The primary objective of risk analysis is to identify and evaluate risks associated with an organization. This involves systematically examining potential threats and vulnerabilities that can impact assets, operations, and overall organizational objectives. By identifying these risks, organizations can assess their likelihood and potential impact, leading to informed decision-making regarding risk management strategies. Understanding the risks allows organizations to prioritize them based on severity and credibility, which is essential for effective resource allocation and implementing appropriate controls. This proactive approach aids in enhancing the resilience and security posture of the organization, ultimately supporting its mission and objectives. In contrast, the other options do not capture the essence of risk analysis. Eliminating all potential risks is unrealistic, as some risk is inherent in any business operation. Increasing financial investment in projects may not directly relate to risk analysis, and enhancing IT infrastructure, while important, is more of a response to identified risks rather than the objective of the analysis itself. Thus, focusing on risk identification and evaluation is central to understanding and managing an organization's risk landscape effectively.

## 2. Nmap is categorized as which type of tool?

- A. Vulnerability scanner
- B. Web application fuzzer
- C. Network design and layout
- D. Port scanner**

Nmap, which stands for Network Mapper, is primarily categorized as a port scanner. This classification is based on its primary function, which is to discover hosts and services on a network by sending packets and analyzing the responses. It helps in identifying open ports on a target system, which signifies what services are running and can provide insights into potential security vulnerabilities present in those services. Nmap can also perform various other network security tasks, such as OS detection and service version detection, but its core competency is in scanning for open ports. By mapping the network in this manner, it allows administrators and security professionals to better understand the attack surface of their systems and to assess the security posture of their networks. While it can be used in combination with vulnerability scanning and can identify issues related to web applications, its primary role does not align with the other choices listed, such as vulnerability scanners or web application fuzzers. Thus, the categorization of Nmap as a port scanner effectively captures its main functionality and use case within network security practices.

### **3. What type of risk is associated with legal penalties and non-compliance with regulations?**

- A. Operational risk**
- B. Financial risk**
- C. Compliance risk**
- D. Reputational risk**

Compliance risk refers specifically to the potential for legal penalties and non-compliance with laws and regulations that apply to an organization. This type of risk arises when an organization fails to adhere to established guidelines, industry regulations, or legal requirements. Non-compliance can lead to significant consequences, including fines, sanctions, legal action, and damage to the organization's reputation. Organizations must continuously monitor their operations and practices to ensure compliance with relevant laws such as data protection regulations, financial reporting standards, and health and safety laws. The goal is to mitigate compliance risk by implementing effective controls and strategies to align with regulatory requirements and avoid the adverse outcomes associated with non-compliance. In the context of the given question, compliance risk is the most relevant option because it directly connects to the legal and regulatory consequences faced by organizations that do not follow the necessary requirements. Other types of risks like operational, financial, and reputational risks may have some overlap but do not focus specifically on the implications of failing to comply with laws and regulations.

### **4. Which type of scanning is most practical for determining vulnerabilities in web applications?**

- A. Port scanning**
- B. Service validation**
- C. Vulnerability scanning**
- D. Penetration testing**

Vulnerability scanning is the most practical approach for identifying vulnerabilities in web applications. This type of scanning involves the use of automated tools that systematically probe web applications for known vulnerabilities based on common security issues and weaknesses. Vulnerability scanning tools are specifically designed to assess the security posture of applications by checking for issues such as SQL injection, cross-site scripting (XSS), misconfigurations, and outdated software components. These tools provide a comprehensive overview of potential vulnerabilities and often include reporting capabilities, making it easier for security professionals to prioritize and remediate issues. By utilizing vulnerability scanning, organizations can proactively identify and address security weaknesses in their web applications before malicious actors can exploit them. This process is essential in maintaining the security of web applications and ensuring compliance with various security standards and regulations.

**5. What is the purpose of regression testing in software development?**

- A. To ensure new functionality works as intended**
- B. To evaluate performance under high loads**
- C. To uncover new bugs introduced by changes**
- D. To test the application's security measures**

Regression testing is primarily focused on ensuring that recent changes in the software, such as enhancements or bug fixes, do not adversely affect existing functionality. The purpose is to identify any new bugs that might have been introduced unintentionally as a result of these changes. This is crucial in maintaining the integrity of the software as it evolves. When developers implement new features or make modifications, there is always a risk that these actions could disrupt previously working elements of the application. Therefore, regression testing systematically re-examines the application's functions to verify that they still perform as expected. This helps developers catch new or re-emerging issues early in the testing process, ensuring the overall quality of the software remains high. In contrast, other choices might touch upon important aspects of software quality assurance but do not directly define the primary purpose of regression testing. Ensuring new functionality works as intended is part of validation testing, which differs from regression testing's focus. Evaluating performance under high loads pertains to load testing or stress testing, which assesses how an application behaves under extreme conditions. Testing an application's security measures relates to security testing, which aims to find vulnerabilities, rather than ensuring the existing functionality remains intact after updates.

**6. What is the primary goal of risk identification in cybersecurity?**

- A. To recognize potential threats and vulnerabilities that could affect an organization's assets**
- B. To mitigate all risks before they occur**
- C. To create awareness among employees about security**
- D. To develop a comprehensive security policy**

The primary goal of risk identification in cybersecurity is to recognize potential threats and vulnerabilities that could affect an organization's assets. This process is essential because understanding the specific threats and vulnerabilities that an organization faces allows security professionals to take proactive measures to protect their assets. Identifying risks is the foundational step in the risk management process, as it enables organizations to become aware of what could go wrong—be it through human error, technological failures, or malicious attacks. By systematically pinpointing these risks, organizations can prioritize them based on factors such as their potential impact and the likelihood of occurrence. This understanding is critical for developing effective risk mitigation strategies and ensuring the organization's assets remain secure. Other options present valuable aspects of an organization's security posture but do not encapsulate the primary aim of risk identification. For instance, mitigating all risks before they occur is an ideal scenario but often not practical, as it may not be possible to eliminate all risks entirely. Creating awareness among employees about security is important for fostering a security-conscious culture but is not the main objective of risk identification itself. Similarly, developing a comprehensive security policy is crucial for guiding security efforts but stems from the risk identification process rather than being the main goal of it.

**7. During a log review, what type of attack is indicated by repeated invalid login attempts from the same user?**

- A. A pass-the-hash attack**
- B. A brute-force attack**
- C. A man-in-the-middle attack**
- D. A dictionary attack**

A brute-force attack is characterized by an attacker systematically attempting numerous combinations of usernames and passwords in order to gain unauthorized access to an account. When there are repeated invalid login attempts from the same user, it suggests that there is an effort to guess the password. This aligns directly with the behavior of a brute-force attack, as the attacker is trying each possible password until the correct one is found. In cases of brute-force attacks, the attacker usually does not have prior knowledge of the password, which means they are relying on trying many different combinations within a given timeframe. The significant number of incorrect attempts typically points to the brute-force method since the alternative would be a successful login if the correct password were known, or sudden changes in login patterns which could indicate other types of attacks. In contrast, other types of attacks such as pass-the-hash attacks involve using hashed credentials to log in without needing to guess the password, while man-in-the-middle attacks often do not involve repetitive login attempts—rather, they intercept communications between two parties. Dictionary attacks, while similar to brute-force in the sense of trying multiple passwords, utilize a predefined list of commonly used passwords, making them more specific and likely not indicated by straight serial invalid attempts from the same user without indicating typical

**8. Which framework is specifically focused on information security controls?**

- A. ITIL**
- B. CMM**
- C. ISO 27002**
- D. PMBOK Guide**

ISO 27002 is designed specifically to provide guidelines for establishing, implementing, maintaining, and continuously improving information security management practices. It outlines security controls based on internationally recognized best practices, making it a vital resource for organizations looking to enhance their information security posture. The framework includes detailed descriptions of various security controls and how to implement them, focusing on areas such as risk assessment and treatment, and aligns closely with the principles of ISO 27001, which deals with establishing an information security management system. This makes ISO 27002 particularly relevant for organizations that aim to protect their information assets effectively. In contrast, ITIL is primarily focused on IT service management, CMM (Capability Maturity Model) addresses process improvement and organizational maturity, while PMBOK (Project Management Body of Knowledge) provides standards for project management. These frameworks do not specifically target information security controls in the way that ISO 27002 does.

**9. Which of the following techniques is primarily quantitative in risk assessment?**

- A. Delphi technique**
- B. Monte Carlo simulation**
- C. Focus group discussions**
- D. SWOT analysis**

The Monte Carlo simulation is primarily quantitative in risk assessment because it uses mathematical models and statistical techniques to analyze the potential outcomes of different risk scenarios. This method employs random sampling and repeated calculations to project the impact of risk on a project or an organization's objectives. By simulating a wide range of possible outcomes, it provides a quantitative basis for decision-making and allows organizations to understand the probabilities and potential financial impacts of different risks. In contrast, techniques like the Delphi technique and focus group discussions are more qualitative. They rely on expert opinions and group discussions rather than numerical data analysis. SWOT analysis, which assesses strengths, weaknesses, opportunities, and threats, is also qualitative and is primarily used to provide a strategic overview rather than numerical risk evaluation. Therefore, the use of Monte Carlo simulations stands out as a robust quantitative tool that is valuable in risk assessment scenarios.

**10. Which risk assessment approach combines both quantitative and qualitative methods?**

- A. Qualitative risk assessment**
- B. Combination of quantitative and qualitative risk assessment**
- C. Neither quantitative nor qualitative risk assessment**
- D. Quantitative risk assessment**

The approach that combines both quantitative and qualitative methods is indeed the combination of quantitative and qualitative risk assessment. This method is beneficial because it leverages the strengths of both types of assessments to provide a more comprehensive view of risks. Quantitative risk assessment focuses on numerical data and statistical methods to evaluate risks, enabling organizations to assign precise values to potential losses and impacts. This allows for a more straightforward calculation of risk exposure and helps in prioritizing risks based on measurable criteria. On the other hand, qualitative risk assessment relies on subjective judgment and descriptive data to identify risks and their potential impacts. It allows organizations to understand the context of risks, the scenarios in which they may occur, and the associated factors that contribute to their likelihood and impact. By combining both approaches, organizations benefit from the quantitative analysis that can support decision-making with data, while also incorporating qualitative insights that add depth and context to the risk evaluation process. This holistic view enables better-informed choices concerning risk management strategies and resource allocation.