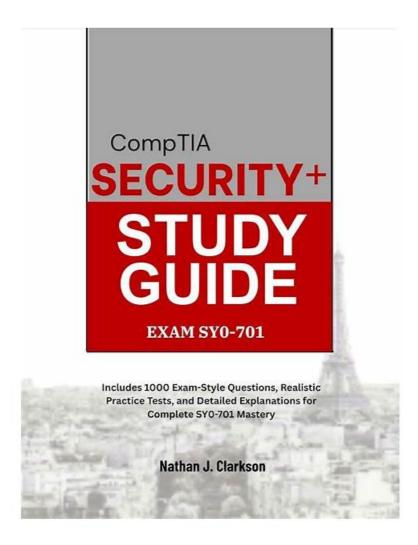
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# **CompTIA SY0-701 Exam Syllabus Topics:**

Topic	Details
Topic 1	General Security Concepts: This topic covers various types of security controls, fundamental security concepts, the importance of change management processes in security, and the significance of using suitable cryptographic solutions.
Topic 2	Threats, Vulnerabilities, and Mitigations: In this topic, you'll find discussions comparing threat actors and motivations, explaining common threat vectors and attack surfaces, and outlining different types of vulnerabilities. Moreover, the topic focuses on analyzing indicators of malicious activity in scenarios and exploring mitigation techniques used to secure enterprises against threats.

Topic 3	<ul> <li>Security Architecture: Here, you'll learn about security implications across different architecture models, applying security principles to secure enterprise infrastructure in scenarios, and comparing data protection concepts and strategies. The topic also delves into the importance of resilience and recovery in security architecture.</li> </ul>
Topic 4	Security Program Management and Oversight: Finally, this topic discusses elements of effective security governance, the risk management process, third-party risk assessment, and management processes. Additionally, the topic focuses on security compliance requirements, types and purposes of audits and assessments, and implementing security awareness practices in various scenarios.
Topic 5	<ul> <li>Security Operations: This topic delves into applying common security techniques to computing resources, addressing security implications of proper hardware, software, and data asset management, managing vulnerabilities effectively, and explaining security alerting and monitoring concepts. It also discusses enhancing enterprise capabilities for security, implementing identity and access management, and utilizing automation and orchestration for secure operations.</li> </ul>

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This is the reason why the experts suggest taking the SY0-701 practice test with all your concentration and effort. The more you can clear your doubts, the more easily you can pass the SY0-701 exam. TorrentVCE CompTIA Security+ Certification Exam (SY0-701) practice test works amazingly to help you understand the CompTIA SY0-701 Exam Pattern and how you can attempt the real CompTIA Exam Questions. It is just like the final SY0-701 exam pattern and you can change its settings.

# **CompTIA Security+ Certification Exam Sample Questions (Q500-Q505):**

## **NEW QUESTION # 500**

Which of the following is the best reason to complete an audit in a banking environment?

- A. Service-level requirement
- B. Regulatory requirement
- C. Self-assessment requirement
- D. Organizational change

#### Answer: B

# Explanation:

A regulatory requirement is a mandate imposed by a government or an authority that must be followed by an organization or an individual. In a banking environment, audits are often required by regulators to ensure compliance with laws, standards, and policies related to security, privacy, and financial reporting. Audits help to identify and correct any gaps or weaknesses in the security posture and the internal controls of the organization.

## Reference:

Official CompTIA Security+ Study Guide (SY0-701), page 507 Security+ (Plus) Certification | CompTIA IT Certifications 2

#### **NEW QUESTION # 501**

Which of the following vulnerabilities is exploited when an attacker overwrites a register with a malicious address?

- \* VM escape
  - A. Buffer overflow
  - B. SQL injection
  - C. Race condition

#### Answer: C

# Explanation:

A buffer overflow is a vulnerability that occurs when an application writes more data to a memory buffer than it can hold, causing the excess data to overwrite adjacent memory locations. A register is a small storage area in the CPU that holds temporary data or instructions. An attacker can exploit a buffer overflow to overwrite a register with a malicious address that points to a shellcode, which is a piece of code that gives the attacker control over the system. By doing so, the attacker can bypass the normal execution flow of the application and execute arbitrary commands.

References: CompTIA Security+ SY0-701 Certification Study Guide, Chapter 2: Threats, Attacks, and Vulnerabilities, Section 2.3: Application Attacks, Page 76 1; Buffer Overflows - CompTIA Security+ SY0-701 - 2.3 2

#### **NEW QUESTION # 502**

A security analyst is prioritizing vulnerability scan results using a risk-based approach. Which of the following is the most efficient resource for the analyst to use?

- A. Exposure factor
- B. Risk register
- C. Business impact analysis
- D. Common Vulnerability Scoring System

#### Answer: D

#### Explanation:

The Common Vulnerability Scoring System (CVSS) is a standardized framework for assessing the severity of vulnerabilities. It provides a numerical score (0-10) based on factors such as exploitability, impact, and complexity, helping security analysts prioritize remediation efforts based on risk.

- \* Business impact analysis (A)helps identifycritical business functions but does not specifically prioritize vulnerabilities.
- \* Risk register (C)tracks identified risks but does not classify vulnerabilities.
- \* Exposure factor (D)is used inquantitative risk assessmentbut is not an industry standard for vulnerability prioritization.

## **NEW QUESTION # 503**

Which of the following describes the process of concealing code or text inside a graphical image?

- A. Steganography
- B. Hashing
- C. Symmetric encryption
- D. Data masking

#### Answer: A

#### Explanation:

Steganography is the process of hiding information within another medium, such as an image, audio, video, or text file. The hidden information is not visible or noticeable to the casual observer, and can only be extracted by using a specific technique or key. Steganography can be used for various purposes, such as concealing secret messages, watermarking, or evading detection by antivirus software12 References:

1: CompTIA Security+ Study Guide: Exam SY0-701, 9th Edition, Chapter 5: Cryptography and PKI, page 233 2: CompTIA Security+ Certification Kit: Exam SY0-701, 7th Edition, Chapter 5: Cryptography and PKI, page 235

#### **NEW QUESTION # 504**

A security team created a document that details the order in which critical systems should be through back online after a major outage. Which of the following documents did the team create?

- A. Disaster recovery plan
- B. Communication plan
- C. Data retention policy
- D. Incident response plan

#### Answer: A

#### Explanation:

The document described in the question is a Disaster Recovery Plan (DRP). A DRP outlines the process and procedures for restoring critical systems and operations after a major disruption or outage. It includes the order in which systems should be brought back online to ensure minimal impact on business operations, prioritizing the most critical systems to recover first.

## **NEW QUESTION #505**

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