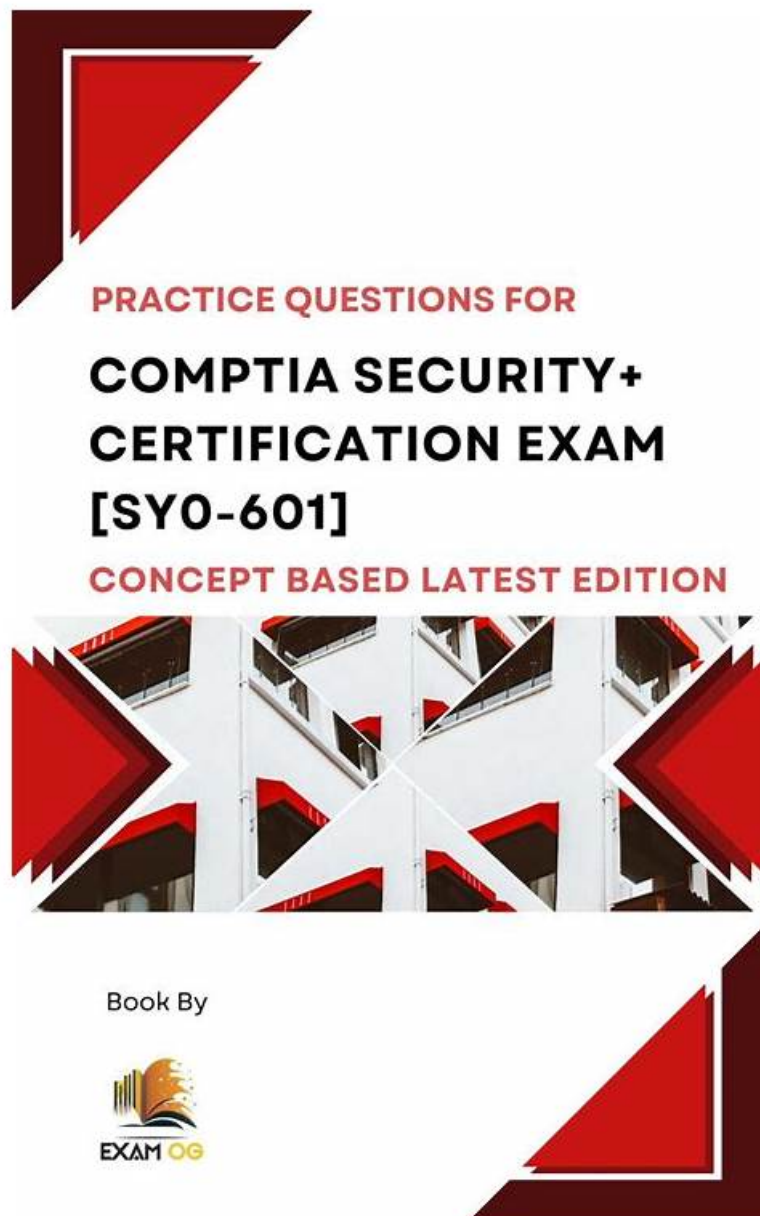


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## CompTIA SY0-701 Exam Syllabus Topics:

Topic	Details
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Topic 1	<ul style="list-style-type: none"> <li>• <b>General Security Concepts:</b> 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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Threats, Vulnerabilities, and Mitigations:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Security Operations:</b> 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>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Security Architecture:</b> 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 5	<ul style="list-style-type: none"> <li>• <b>Security Program Management and Oversight:</b> 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.</li> </ul>

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## CompTIA Security+ Certification Exam Sample Questions (Q735-Q740):

### NEW QUESTION # 735

A security analyst needs to improve the company's authentication policy following a password audit. Which of the following should be included in the policy? (Select two).

- **A. Complexity**
- B. Biometrics
- C. Least privilege
- D. Security keys
- **E. Length**
- F. Something you have

**Answer: A,E**

Explanation:

A strong authentication policy should enforce password length (e.g., minimum of 12-16 characters) and complexity (mix of uppercase, lowercase, numbers, and symbols). These measures significantly reduce the risk of brute-force attacks.

Least privilege (C) relates to access control, not authentication policies.

Something you have (D) and biometrics (F) pertain to multi-factor authentication (MFA) but are not password policy requirements.

Reference:

CompTIA Security+ SY0-701 Official Study Guide, General Security Concepts domain.

### NEW QUESTION # 736

A security analyst is reviewing the following logs:

Which of the following attacks is most likely occurring?

- A. Pass-the-hash
- B. Brute-force
- C. Password spraying
- D. Account forgery

**Answer: C**

Explanation:

Password spraying is a type of brute force attack that tries common passwords across several accounts to find a match. It is a mass trial-and-error approach that can bypass account lockout protocols. It can give hackers access to personal or business accounts and information. It is not a targeted attack, but a high-volume attack tactic that uses a dictionary or a list of popular or weak passwords<sup>12</sup>.

The logs show that the attacker is using the same password ("password123") to attempt to log in to different accounts ("admin", "user1", "user2", etc.) on the same web server. This is a typical pattern of password spraying, as the attacker is hoping that at least one of the accounts has a weak password that matches the one they are trying. The attacker is also using a tool called Hydra, which is one of the most popular brute force tools, often used in cracking passwords for network authentication<sup>3</sup>.

Account forgery is not the correct answer, because it involves creating fake accounts or credentials to impersonate legitimate users or entities. There is no evidence of account forgery in the logs, as the attacker is not creating any new accounts or using forged credentials.

Pass-the-hash is not the correct answer, because it involves stealing a hashed user credential and using it to create a new authenticated session on the same network. Pass-the-hash does not require the attacker to know or crack the password, as they use the stored version of the password to initiate a new session<sup>4</sup>. The logs show that the attacker is using plain text passwords, not hashes, to try to log in to the web server.

Brute-force is not the correct answer, because it is a broader term that encompasses different types of attacks that involve trying different variations of symbols or words until the correct password is found. Password spraying is a specific type of brute force attack that uses a single common password against multiple accounts<sup>5</sup>. The logs show that the attacker is using password spraying, not brute force in general, to try to gain access to the web server. Reference = 1: Password spraying: An overview of password spraying attacks ... - Norton, 2: Security: Credential Stuffing vs. Password Spraying - Baeldung, 3: Brute Force Attack: A definition + 6 types to know | Norton, 4: What is a Pass-the-Hash Attack? - CrowdStrike, 5: What is a Brute Force Attack? | Definition, Types & How It Works - Fortinet

### NEW QUESTION # 737

A penetration tester begins an engagement by performing port and service scans against the client environment according to the rules of engagement. Which of the following reconnaissance types is the tester performing?

- A. Defensive
- B. Passive
- C. Offensive
- D. Active

**Answer: D**

Explanation:

Active reconnaissance is a type of reconnaissance that involves sending packets or requests to a target and analyzing the responses. Active reconnaissance can reveal information such as open ports, services, operating systems, and vulnerabilities. However, active reconnaissance is also more likely to be detected by the target or its security devices, such as firewalls or intrusion detection systems. Port and service scans are examples of active reconnaissance techniques, as they involve probing the target for specific information.

### NEW QUESTION # 738

Which of the following can be used to compromise a system that is running an RTOS?

- A. Memory injection
- B. Cross-site scripting

- C. Replay attack
- D. Ransomware

**Answer: A**

### NEW QUESTION # 739

After reviewing the following vulnerability scanning report:

Server:192.168.14.6

Service: Telnet

Port: 23 Protocol: TCP

Status: Open Severity: High

Vulnerability: Use of an insecure network protocol

A security analyst performs the following test:

`nmap -p 23 192.168.14.6 -script telnet-encryption`

PORT STATE SERVICE REASON

23/tcp open telnet syn-ack

I telnet encryption:

|\_ Telnet server supports encryption

Which of the following would the security analyst conclude for this reported vulnerability?

- A. A rescan is required.
- B. It is considered noise.
- **C. It is a false positive.**
- D. Compensating controls exist.

**Answer: C**

Explanation:

A false positive is a result that indicates a vulnerability or a problem when there is none. In this case, the vulnerability scanning report shows that the telnet service on port 23 is open and uses an insecure network protocol. However, the security analyst performs a test using nmap and a script that checks for telnet encryption support. The result shows that the telnet server supports encryption, which means that the data transmitted between the client and the server can be protected from eavesdropping. Therefore, the reported vulnerability is a false positive and does not reflect the actual security posture of the server. The security analyst should verify the encryption settings of the telnet server and client and ensure that they are configured properly<sup>3</sup>. Reference: 3: Telnet Protocol - Can You Encrypt Telnet?

### NEW QUESTION # 740

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