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## CompTIA SY0-701 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><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>

Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <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>

## CompTIA Security+ Certification Exam Sample Questions (Q370-Q375):

### NEW QUESTION # 370

Which of the following architecture models ensures that critical systems are physically isolated from the network to prevent access from users with remote access privileges?

- A. Air-gapped
- B. Segmentation
- C. Virtualized
- D. Serverless

**Answer: A**

Explanation:

An air-gapped (C) system is completely isolated from unsecured networks (like the internet) and other systems, preventing any form of remote access. This is often used in highly sensitive environments such as military, nuclear, or critical infrastructure systems.

This is mentioned under Domain 3.4: Given a scenario, apply cybersecurity resilience concepts in the CompTIA Security+ SY0-701 Exam Objectives, specifically under "Isolation (e.g., air-gapped)".

Reference: CompTIA Security+ SY0-701 Objectives, Domain 3.4 - "Cybersecurity resilience: Isolation (e.g., air-gapped)."

### NEW QUESTION # 371

Which of the following explains why an attacker cannot easily decrypt passwords using a rainbow table attack?

- A. Digital signatures
- B. Salting
- C. Perfect forward secrecy
- D. Hashing

**Answer: B**

### NEW QUESTION # 372

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. References = 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 # 373

Which of the following describes a situation where a user is authorized before being authenticated?

- A. Privilege escalation
- B. Race condition
- C. Impersonation
- D. Tailgating

**Answer: A**

Explanation:

Privilege escalation can occur if authorization is granted without proper authentication, allowing a user to gain higher-level access than intended.

### NEW QUESTION # 374

An administrator has identified and fingerprinted specific files that will generate an alert if an attempt is made to email these files outside of the organization. Which of the following best describes the tool the administrator is using?

- A. IPS
- B. DLP
- C. SCAP
- D. SNMP traps

**Answer: B**

Explanation:

The administrator is using a Data Loss Prevention (DLP) tool, which is designed to identify, monitor, and protect sensitive data. By fingerprinting specific files, DLP ensures that these files cannot be emailed or sent outside the organization without triggering an alert or blocking the action. This is a key feature of DLP systems, which prevent data exfiltration and ensure data security compliance.

\* SNMP traps are used for network management and monitoring, not data protection.

\* SCAP (Security Content Automation Protocol) is a set of standards for automating vulnerability management and policy compliance, unrelated to file monitoring.

\* IPS (Intrusion Prevention System) blocks network-based attacks but does not handle file fingerprinting.

## NEW QUESTION # 375

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