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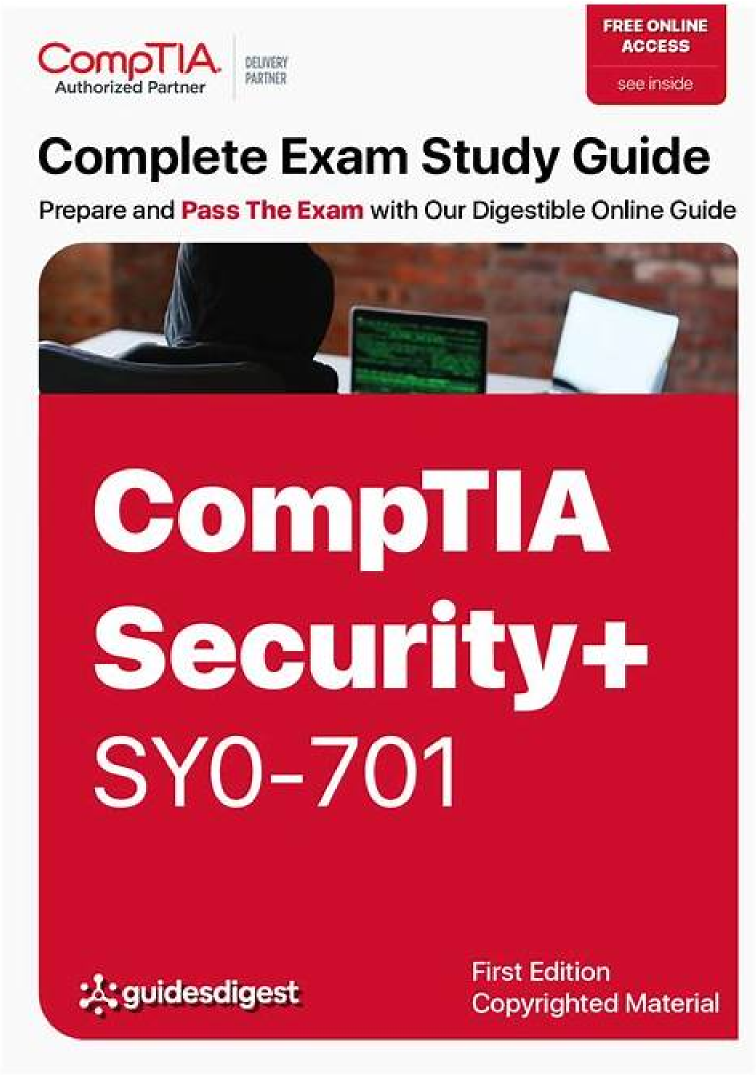

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CompTIA SY0-701 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	- 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 3	- 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.
Topic 4	- 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.
Topic 5	- 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.

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CompTIA Security+ Certification Exam Sample Questions (Q473-Q478):

NEW QUESTION # 473
A company's web filter is configured to scan the URL for strings and deny access when matches are found.
Which of the following search strings should an analyst employ to prohibit access to non-encrypted websites?

- A. encryption=off\
- B. :443
- C. www.*.com
- D. http://

Answer: D

Explanation:
A web filter is a device or software that can monitor, block, or allow web traffic based on predefined rules or policies. One of the common methods of web filtering is to scan the URL for strings and deny access when matches are found. For example, a web filter can block access to websites that contain the words "gambling",
"porn", or "malware" in their URLs. A URL is a uniform resource locator that identifies the location and protocol of a web resource.
A URL typically consists of the following components: protocol://domain:port
/path?query#fragment. The protocol specifies the communication method used to access the web resource, such as HTTP, HTTPS, FTP, or SMTP. The domain is the name of the web server that hosts the web resource, such as www.google.com or www.bing.com. The port is an optional number that identifies the specific service or application running on the web server, such as 80 for HTTP or 443 for HTTPS. The path is the specific folder or file name of the web resource, such as /index.html or /images/logo.png. The query is an optional string that contains additional information or parameters for the web resource, such as ?q=security or
?lang=en. The fragment is an optional string that identifies a specific part or section of the web resource, such as #introduction or #summary.

To

prohibit access to non-encrypted websites, an analyst should employ a search string that matches the protocol of non-encrypted web traffic, which is HTTP. HTTP stands for hypertext transfer protocol, and it is a standard protocol for transferring data between web servers and web browsers. However, HTTP does not provide any encryption or security for the data, which means that anyone who intercepts the web traffic can read or modify the data. Therefore, non-encrypted websites are vulnerable to eavesdropping, tampering, or spoofing attacks. To access a non-encrypted website, the URL usually starts with http://, followed by the domain name and optionally the port number. For example, http://www.example.com or http://www.example.com:80. By scanning the URL for the string http://, the web filter can identify and block non-encrypted websites.

The other options are not correct because they do not match the protocol of non-encrypted web traffic.

Encryption=off is a possible query string that indicates the encryption status of the web resource, but it is not a standard or mandatory parameter. Https:// is the protocol of encrypted web traffic, which uses hypertext transfer protocol secure (HTTPS) to provide encryption and security for the data. Www.*.com is a possible domain name that matches any website that starts with www and ends with .com, but it does not specify the protocol. :443 is the port number of HTTPS, which is the protocol of encrypted web traffic. References = CompTIA Security+ Study Guide (SY0-701), Chapter 2: Securing Networks, page

69. Professor Messer's CompTIA SY0-701 Security+ Training Course, Section 2.1: Network Devices and Technologies, video: Web Filter (5:16).

NEW QUESTION # 474

An enterprise has been experiencing attacks focused on exploiting vulnerabilities in older browser versions with well-known exploits. Which of the following security solutions should be configured to best provide the ability to monitor and block these known signature-based attacks?

- A. DLP
- B. IPS
- C. IDS
- D. ACL

Answer: B

Explanation:

Explanation

An intrusion prevention system (IPS) is a security device that monitors network traffic and blocks or modifies malicious packets based on predefined rules or signatures. An IPS can prevent attacks that exploit known vulnerabilities in older browser versions by detecting and dropping the malicious packets before they reach the target system. An IPS can also perform other functions, such as rate limiting, encryption, or redirection. References: CompTIA Security+ Study Guide: Exam SY0-701, 9th Edition, Chapter 3: Securing Networks, page 132.

NEW QUESTION # 475

An employee receives a text message that appears to have been sent by the payroll department and is asking for credential verification. Which of the following social engineering techniques are being attempted? (Choose two.)

- A. Smishing
- B. Impersonation
- C. Typosquatting
- D. Vishing
- E. Misinformation
- F. Phishing

Answer: A,F

Explanation:

F) Misinformation is a type of social engineering technique that involves spreading false or misleading information to influence the beliefs, opinions, or actions of the target. Misinformation can be used to manipulate public perception, create confusion, damage reputation, or promote an agenda . Misinformation is not related to text messages or credential verification.

Reference = 1: What is Smishing? | Definition and Examples | Kaspersky 2: Smishing - Wikipedia 3: Impersonation Attacks: What Are They and How Do You Protect Against Them? 4: Impersonation - Wikipedia 5: What is Typosquatting? | Definition and Examples | Kaspersky 6: Typosquatting - Wikipedia 7: What is Phishing? | Definition and Examples | Kaspersky 8: Phishing - Wikipedia 9: What is Vishing? | Definition and Examples | Kaspersky : Vishing - Wikipedia : What is Misinformation? | Definition and Examples | Britannica : Misinformation - Wikipedia Explanation:

Smishing is a type of social engineering technique that uses text messages (SMS) to trick victims into revealing sensitive information, clicking malicious links, or downloading malware. Smishing messages often appear to come from legitimate sources, such as banks, government agencies, or service providers, and use urgent or threatening language to persuade the recipients to take action12. In this scenario, the text message that claims to be from the payroll department is an example of smishing.
Impersonation is a type of social engineering technique that involves pretending to be someone else, such as an authority figure, a trusted person, or a colleague, to gain the trust or cooperation of the target. Impersonation can be done through various channels, such as phone calls, emails, text messages, or in-person visits, and can be used to obtain information, access, or money from the victim34. In this scenario, the text message that pretends to be from the payroll department is an example of impersonation.
A) Typosquatting is a type of cyberattack that involves registering domain names that are similar to popular or well-known websites, but with intentional spelling errors or different extensions. Typosquatting aims to exploit the common mistakes that users make when typing web addresses, and redirect them to malicious or fraudulent sites that may steal their information, install malware, or display ads56. Typosquatting is not related to text messages or credential verification.
B) Phishing is a type of social engineering technique that uses fraudulent emails to trick recipients into revealing sensitive information, clicking malicious links, or downloading malware. Phishing emails often mimic the appearance and tone of legitimate organizations, such as banks, retailers, or service providers, and use deceptive or urgent language to persuade the recipients to take action78. Phishing is not related to text messages or credential verification.
D) Vishing is a type of social engineering technique that uses voice calls to trick victims into revealing sensitive information, such as passwords, credit card numbers, or bank account details. Vishing calls often appear to come from legitimate sources, such as law enforcement, government agencies, or technical support, and use scare tactics or false promises to persuade the recipients to comply9 . Vishing is not related to text messages or credential verification.

NEW QUESTION # 476
An organization's internet-facing website was compromised when an attacker exploited a buffer overflow.
Which of the following should the organization deploy to best protect against similar attacks in the future?

- A. TLS
- B. WAF
- C. SD-WAN
- D. NGFW

Answer: B

Explanation:
Explanation
A buffer overflow is a type of software 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. This can lead to unexpected behavior, such as crashes, errors, or code execution. A buffer overflow can be exploited by an attacker to inject malicious code or commands into the application, which can compromise the security and functionality of the system. An organization's internet-facing website was compromised when an attacker exploited a buffer overflow. To best protect against similar attacks in the future, the organization should deploy a web application firewall (WAF). A WAF is a type of firewall that monitors and filters the traffic between a web application and the internet. A WAF can detect and block common web attacks, such as buffer overflows, SQL injections, cross-site scripting (XSS), and more. A WAF can also enforce security policies and rules, such as input validation, output encoding, and encryption. A WAF can provide a layer of protection for the web application, preventing attackers from exploiting its vulnerabilities and compromising its data. References = Buffer Overflows - CompTIA Security+ SY0-701 - 2.3, Web Application Firewalls - CompTIA Security+ SY0-701 - 2.4, [CompTIA Security+ Study Guide with over 500 Practice Test Questions: Exam SY0-701, 9th Edition]

NEW QUESTION # 477
Which of the following should a security team do first before a new web server goes live?

- A. Enable network intrusion detection.
- B. Apply patch management.
- C. Harden the virtual host.
- D. Create WAF rules.

Answer: C

NEW QUESTION # 478

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