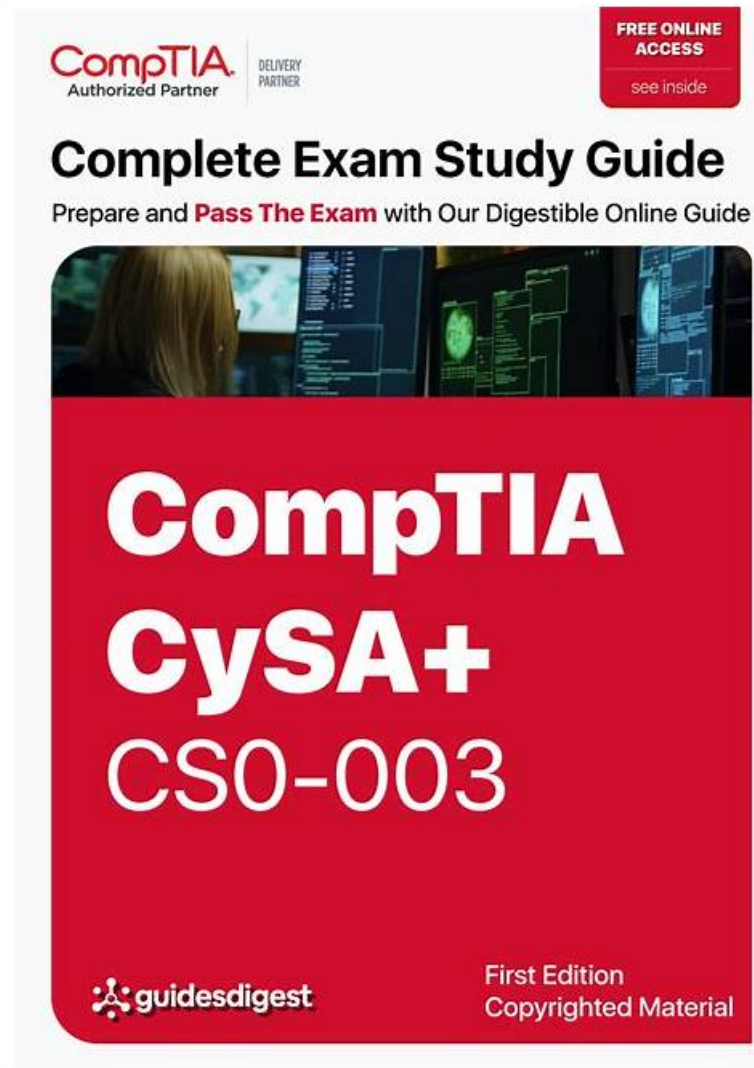


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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q409-Q414):

NEW QUESTION # 409

A Chief Information Security Officer (CISO) is concerned that a specific threat actor who is known to target the company's business type may be able to breach the network and remain inside of it for an extended period of time. Which of the following techniques should be performed to meet the CISO's goals?

- A. Vulnerability scanning
- B. Passive discovery
- **C. Adversary emulation**
- D. Bug bounty

Answer: C

Explanation:

Explanation

The correct answer is B. Adversary emulation.

Adversary emulation is a technique that involves mimicking the tactics, techniques, and procedures (TTPs) of a specific threat actor or group to test the effectiveness of the security controls and incident response capabilities of an organization¹. Adversary emulation can help identify and address the gaps and weaknesses in the security posture of an organization, as well as improve the readiness and skills of the security team.

Adversary emulation can also help measure the dwell time, which is the duration that a threat actor remains undetected inside the network².

The other options are not the best techniques to meet the CISO's goals. Vulnerability scanning (A) is a technique that involves scanning the network and systems for known vulnerabilities, but it does not simulate a real attack or test the incident response capabilities. Passive discovery is a technique that involves collecting information about the network and systems without sending any packets or probes, but it does not identify or exploit any vulnerabilities or test the security controls. Bug bounty (D) is a program that involves rewarding external researchers or hackers for finding and reporting vulnerabilities in an organization's systems or applications, but it does not focus on a specific threat actor or group.

NEW QUESTION # 410

A cybersecurity analyst notices unusual network scanning activity coming from a country that the company does not do business with. Which of the following is the best mitigation technique?

- A. Block the specific IP address of the scans at the network firewall.
- B. Perform a historical trend analysis and look for similar scanning activity.
- **C. Block the IP range of the scans at the network firewall.**
- D. Geoblock the offending source country.

Answer: C

Explanation:

Blocking the IP range of the scans at the network firewall is a proactive measure to prevent further network scanning activity from the suspicious source country. By blocking the entire IP range, you can effectively prevent any potential malicious traffic from that region from reaching your network, reducing the attack surface.

NEW QUESTION # 411

When undertaking a cloud migration of multiple SaaS applications, an organization's systems administrators struggled with the complexity of extending identity and access management to cloud-based assets. Which of the following service models would have reduced the complexity of this project?

- A. ZTNA
- B. SWG
- **C. OpenID**
- D. SDN

Answer: C

Explanation:

OpenID is an authentication protocol that simplifies identity and access management (IAM) by enabling users to use a single set of credentials to access multiple cloud-based SaaS applications. It reduces the complexity of managing multiple credentials and extends IAM to cloud-based assets effectively, making it an ideal solution for this scenario.

NEW QUESTION # 412

An e-commerce organization recently experienced a cyberattack. During a lessons learned meeting, a cybersecurity analyst requests that the RTO be prioritized. Which of the following is the greatest concern?

- **A. Availability**
- B. Integrity
- C. Confidentiality
- D. Non-repudiation

Answer: A

Explanation:

Prioritizing the Recovery Time Objective (RTO) focuses on how quickly services must be restored after an incident. This directly relates to availability, ensuring that systems and services are accessible to users within an acceptable time frame.

NEW QUESTION # 413

During normal security monitoring activities, the following activity was observed:

```
cd C:\Users\Documents\HR\Employees
```

```
takeown/f.*
```

SUCCESS:

Which of the following best describes the potentially malicious activity observed?

- A. Data exfiltration
- **B. Unauthorized privileges**
- C. File configuration changes
- D. Registry changes or anomalies

Answer: B

Explanation:

The takeown command is used to take ownership of a file or folder that previously was denied access to the current user or group.

The activity observed indicates that someone has taken ownership of all files and folders under the C:\Users\Documents\HR\Employees directory, which may contain sensitive or confidential information.

This could be a sign of unauthorized privileges, as the user or group may not have the legitimate right or need to access those files or folders.

Taking ownership of files or folders could also enable the user or group to modify or delete them, which could affect the integrity or availability of the data.

NEW QUESTION # 414

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- [illegible]