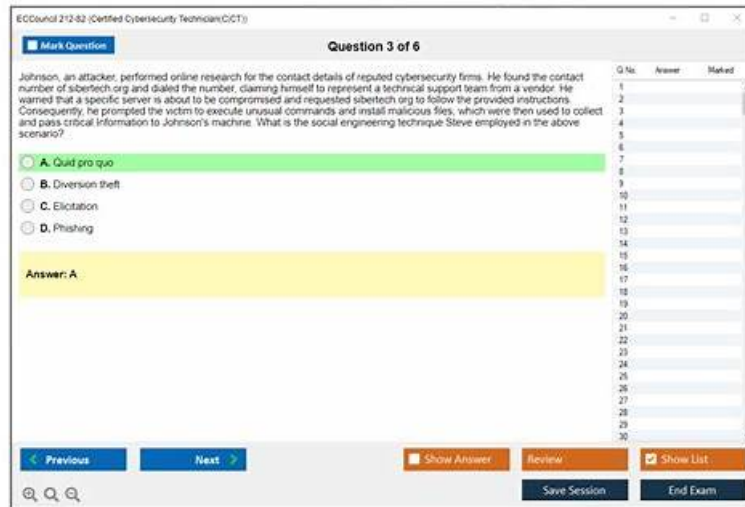


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ECCouncil Certified Cybersecurity Technician Sample Questions (Q38-Q43):

NEW QUESTION # 38

Rhett, a security professional at an organization, was instructed to deploy an IDS solution on their corporate network to defend against evolving threats. For this purpose, Rhett selected an IDS solution that first creates models for possible intrusions and then compares these models with incoming events to make detection decisions.

Identify the detection method employed by the IDS solution in the above scenario.

- A. Anomaly detection
- B. Protocol anomaly detection
- C. Signature recognition
- D. Not-use detection

Answer: A

Explanation:

Anomaly detection is a type of IDS detection method that involves first creating models for possible intrusions and then comparing these models with incoming events to make a detection decision. It can detect unknown or zero-day attacks by looking for deviations from normal or expected behavior

NEW QUESTION # 39

You have been assigned to perform a vulnerability assessment of a web server located at IP address 20.20.10.26. Identify the vulnerability with a severity score of 8.0. You can use the OpenVAS vulnerability scanner, available with the Parrot Security machine, with credentials admin/password for this challenge.

- A. Anonymous FTP Login Reporting
- B. FTP Unencrypted Cleartext Login
- C. TCP timestamps
- D. UDP timestamps

Answer: C

Explanation:

TCP Timestamps is the vulnerability with a severity score of 8.0. This can be verified by performing a vulnerability assessment of the web server located at IP address 20.20.10.26 using the OpenVAS vulnerability scanner, available with the Parrot Security machine, with credentials admin/password. To perform the vulnerability assessment, one can follow these steps:

Launch the Parrot Security machine and open a terminal. Enter the command `sudo openvas-start` to start the OpenVAS service and wait for a few minutes until it is ready.

Open a web browser and navigate to `https://127.0.0.1:9392` to access the OpenVAS web interface. Enter the credentials admin/password to log in to OpenVAS. Click on Scans -> Tasks from the left menu and then click on the blue icon with a star to create a new task.

Enter a name and a comment for the task, such as "Web Server Scan". Select "Full and fast" as the scan config from the drop-down menu. Click on the icon with a star next to Target to create a new target. Enter a name and a comment for the target, such as "Web Server". Enter 20.20.10.26 as the host in the text box and click on Save. Select "Web Server" as the target from the drop-down menu and click on Save. Click on the green icon with a play button next to the task name to start the scan and wait for it to finish. Click on the task name to view the scan report and click on Results from the left menu to see the list of vulnerabilities found.

Sort the list by Severity in descending order and look for the vulnerability with a severity score of

8.0. The screenshot below shows an example of performing these steps: The vulnerability with a severity score of 8.0 is TCP Timestamps, which is an option in TCP packets that can be used to measure round-trip time and improve performance, but it can also reveal information about the system's uptime, clock skew, or TCP sequence numbers, which can be used by attackers to launch various attacks, such as idle scanning, OS fingerprinting, or TCP hijacking. The vulnerability report provides more details about this vulnerability, such as its description, impact, solution, references, and CVSS score.

NEW QUESTION # 40

You are Harris working for a web development company. You have been assigned to perform a task for vulnerability assessment on the given IP address 20.20.10.26. Select the vulnerability that may affect the website according to the severity factor.

Hint: Greenbone web credentials: admin/password

- A. Anonymous FTP Login Reporting
- B. TCP timestamps
- C. FTP Unencrypted Cleartext Login
- D. UDP timestamps

Answer: C

Explanation:

FTP Unencrypted Cleartext Login is the vulnerability that may affect the website according to the severity factor in the above scenario. A vulnerability is a weakness or flaw in a system or network that can be exploited by an attacker to compromise its security or functionality. A vulnerability assessment is a process that involves identifying, analyzing, and evaluating vulnerabilities in a system or network using various tools and techniques. Greenbone is a tool that can perform vulnerability assessment on various targets using various tests and scans. To perform a vulnerability assessment on the given IP address 20.20.10.26, one has to follow these steps:

Open a web browser and type 20.20.10.26:9392

Press Enter key to access the Greenbone web interface.

Enter admin as username and password as password.
Click on Login button.
Click on Scans menu and select Tasks option.
Click on Start Scan icon next to IP Address Scan task.
Wait for the scan to complete and click on Report icon next to IP Address Scan task.
Observe the vulnerabilities found by the scan.
The vulnerabilities found by the scan are:

The vulnerability that may affect the website according to the severity factor is FTP Unencrypted Cleartext Login, which has a medium severity level. FTP Unencrypted Cleartext Login is a vulnerability that allows an attacker to intercept or sniff FTP login credentials that are sent in cleartext over an unencrypted connection. An attacker can use these credentials to access or modify files or data on the FTP server. TCP timestamps and UDP timestamps are vulnerabilities that allow an attacker to estimate the uptime of a system or network by analyzing the timestamp values in TCP or UDP packets. Anonymous FTP Login Reporting is a vulnerability that allows an attacker to access an FTP server anonymously without providing any username or password.

NEW QUESTION # 41

SecuraCorp, a leading financial institution, is worried about zero-day vulnerabilities. With a sprawling network infrastructure and multiple transaction points, it needs a system that does not solely rely on signatures but can effectively identify suspicious patterns based on the behavior in the network. Which type of IDS/IPS should SecuraCorp primarily deploy for its needs?

- A. Signature-based IDS
- B. Network-based IDS
- C. Host-based IDS
- D. Anomaly-based IDS

Answer: D

Explanation:

SecuraCorp needs an Intrusion Detection System (IDS) that can identify suspicious patterns based on behavior rather than relying solely on known signatures. Here's why an Anomaly-based IDS is the best fit:

* Anomaly-based IDS:

* Behavior Analysis: Detects deviations from normal network behavior, which is crucial for identifying zero-day vulnerabilities.

* Pattern Recognition: Uses machine learning and statistical methods to identify unusual patterns that might indicate malicious activity.

* Advantages: Effective against unknown threats and zero-day exploits because it does not rely on predefined signatures.

* Network-based IDS: Primarily monitors network traffic but often relies on signatures, making it less effective against unknown threats.

* Signature-based IDS: Relies on a database of known attack signatures, which is not sufficient for detecting new or unknown threats.

* Host-based IDS: Monitors individual systems but might not provide a comprehensive view of the network.

References:

* EC-Council Certified Security Analyst (ECSA) materials.

NEW QUESTION # 42

TechSolutions, a leading IT consultancy, has been contracted to overhaul the wireless network infrastructure for the city's public libraries. With thousands of users accessing the network daily, there is a critical need for robust encryption that can deter potential threats. TechSolutions must also consider the diverse range of devices used by library-goers and ensure backward compatibility. Which encryption mechanism would best suit this scenario?

- A. TKIP (Temporal Key Integrity Protocol)
- B. AES-CCMP (Advanced Encryption Standard with Counter Mode Cipher Block Chaining Message Authentication Code Protocol)
- C. WEP (Wired Equivalent Privacy)
- D. WPA3 (Wi-Fi Protected Access 3)

Answer: D

Explanation:

For TechSolutions to overhaul the wireless network infrastructure for the city's public libraries, WPA3 is the best choice due to the following reasons:

* Security: WPA3 provides enhanced security over previous protocols like WPA2, offering stronger encryption mechanisms and

protection against brute-force attacks.

* Backward Compatibility: WPA3 ensures compatibility with devices supporting WPA2, making it suitable for diverse devices used by library-goers.

* Features:

* Simultaneous Authentication of Equals (SAE): Enhances security during the handshake process.

* Forward Secrecy: Protects past communications even if the current encryption key is compromised.

* Improved Encryption: Uses AES-256 in Galois/Counter Mode (AES-GCM) for secure encryption.

References:

* Wi-Fi Alliance WPA3 Overview: Wi-Fi Alliance

* Analysis of WPA3 features: ACM Digital Library

NEW QUESTION # 43

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