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การสอบวัดระดับก้าวภาษาอังกฤษ
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ECCouncil Certified Ethical Hacker Exam (CEHv13) Sample Questions (Q109-Q114):

NEW QUESTION # 109

A penetration tester identifies malware on a system that hides its presence and gives an attacker access to administrative functions without being detected. What type of malware is this?

- A. Ransomware
- **B. Rootkit**
- C. Virus
- D. Keylogger

Answer: B

Explanation:

CEH courseware describes rootkits as specialized malware designed to conceal their presence while providing persistent, unauthorized access to system-level functions. Rootkits typically modify low-level components of the operating system-such as kernel modules, drivers, or system processes-to hide files, processes, registry keys, and network connections. Their primary purpose is to grant attackers administrative privileges without triggering alerts, making them extremely stealthy and dangerous. CEH emphasizes that rootkits often accompany other malware to maintain long-term control after initial compromise. In contrast, viruses replicate by attaching to files, keyloggers record keystrokes but do not hide system-level access, and ransomware encrypts data rather than conceals operations. The defining characteristics in this scenario- cloaking activity, providing admin-level control, persisting undetected-are directly aligned with rootkit behavior as described in CEH training material.

NEW QUESTION # 110

Log monitoring tools performing behavioral analysis have alerted several suspicious logins on a Linux server occurring during non-business hours. After further examination of all login activities, it is noticed that none of the logins have occurred during typical work hours. A Linux administrator who is investigating this problem realizes the system time on the Linux server is wrong by more than twelve hours. What protocol used on Linux servers to synchronize the time has stopped working?

- A. OSPP
- B. Time Keeper
- **C. NTP**
- D. PPP

Answer: C

Explanation:

Comprehensive and Detailed Explanation From CEH v13 Guide:

The Network Time Protocol (NTP) is used by systems, including Linux servers, to synchronize their clocks with a time server. If NTP fails, time discrepancies may lead to inaccurate log records and affect security monitoring.

CEH v13 Reference:

Module 17: Evading IDS, Firewalls, and Honeypots - Log Tampering

"Accurate timekeeping is essential for proper logging and correlation. NTP ensures system time is synchronized across hosts."

NEW QUESTION # 111

Calvin, a grey-hat hacker, targets a web application that has design flaws in its authentication mechanism. He enumerates usernames from the login form of the web application, which requests users to feed data and specifies the incorrect field in case of invalid credentials. Later, Calvin uses this information to perform social engineering.

Which of the following design flaws in the authentication mechanism is exploited by Calvin?

- A. User impersonation

- B. Insecure transmission of credentials
- C. Password reset mechanism
- D. **Verbose failure messages**

Answer: D

Explanation:

Verbose failure messages are detailed error messages that reveal too much information about authentication failures. In the described scenario, the web application specifies whether the username or password is incorrect. This behavior enables attackers to:

Enumerate valid usernames by submitting random inputs and observing which error message is returned.

Use the valid usernames to conduct targeted attacks such as brute-force attempts or social engineering.

According to CEH v13:

Authentication mechanisms should provide generic error messages such as "Invalid username or password" to avoid exposing system behavior.

Verbose error messages violate the principle of "fail securely."

Incorrect Options:

- A). Insecure transmission relates to credentials being sent over unencrypted channels (e.g., HTTP instead of HTTPS).
- C). User impersonation involves taking on the identity of another user, not enumeration.
- D). Password reset mechanisms are a different component of authentication, not mentioned in this context.

Reference - CEH v13 Official Courseware:

Module 14: Hacking Web Applications

Section: "Authentication Bypass Techniques"

Subsection: "Enumeration via Verbose Error Messages"

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NEW QUESTION # 112

You are a cybersecurity consultant for a smart city project. The project involves deploying a vast network of IoT devices for public utilities like traffic control, water supply, and power grid management. The city administration is concerned about the possibility of a Distributed Denial of Service (DDoS) attack crippling these critical services. They have asked you for advice on how to prevent such an attack. What would be your primary recommendation?

- A. Establish strong, unique passwords for each IoT device.
- B. Implement IP address whitelisting for all IoT devices.
- C. Deploy network intrusion detection systems (IDS) across the IoT network.
- D. **Implement regular firmware updates for all IoT devices.**

Answer: D

Explanation:

Implementing regular firmware updates for all IoT devices is the primary recommendation to prevent DDoS attacks on the smart city project. Firmware updates can fix security vulnerabilities, patch bugs, and improve performance of the IoT devices, making them less susceptible to malware infections and botnet recruitment¹². Firmware updates can also enable new security features, such as encryption, authentication, and firewall, that can protect the IoT devices from unauthorized access and data theft³. Firmware updates should be done automatically or remotely, without requiring user intervention, to ensure timely and consistent security across the IoT network⁴.

The other options are not as effective or feasible as firmware updates for the following reasons:

* B. Deploying network intrusion detection systems (IDS) across the IoT network can help detect and alert DDoS attacks, but not prevent them. IDS can monitor network traffic and identify malicious patterns, such as high volume, spoofed IP addresses, or unusual protocols, that indicate a DDoS attack⁵.

However, IDS cannot block or mitigate the attack, and may even be overwhelmed by the flood of traffic, resulting in false positives or missed alerts. Moreover, deploying IDS across a vast network of IoT devices can be costly, complex, and resource-intensive, as it requires dedicated hardware, software, and personnel.

* C. Establishing strong, unique passwords for each IoT device can prevent unauthorized access and brute-force attacks, but not DDoS attacks. Passwords can protect the IoT devices from being compromised by hackers who try to guess or crack the default or weak credentials. However, passwords cannot prevent DDoS attacks that exploit known or unknown vulnerabilities in the IoT devices, such as buffer overflows, command injections, or protocol flaws. Moreover, establishing and managing strong, unique passwords for each IoT device can be challenging and impractical, as it requires user awareness, memory, and effort.

* D. Implementing IP address whitelisting for all IoT devices can restrict network access and communication to trusted sources, but not DDoS attacks. IP address whitelisting can filter out unwanted or malicious traffic by allowing only the predefined IP addresses to connect to the IoT devices.

However, IP address whitelisting cannot prevent DDoS attacks that use spoofed or legitimate IP addresses, such as reflection or amplification attacks, that bypass the whitelisting rules. Moreover, implementing IP address whitelisting for all IoT devices can be difficult and risky, as it requires constant updating, testing, and monitoring of the whitelist, and may block legitimate or emergency traffic by mistake.

References:

- 1: How to proactively protect IoT devices from DDoS attacks - Synopsys
- 2: IoT and DDoS: Cyberattacks on the Rise | A10 Networks
- 3: Detection and Prevention of DDoS Attacks on the IoT - MDPI
- 4: How to Secure IoT Devices: 5 Best Practices | IoT For All
- 5: Intrusion Detection Systems (IDS) Part 1 - Network Security | Coursera
- 6: DDoS Attacks: Detection and Mitigation - Cisco
- 7: The Challenges of IoT Security - Infosec Resources
- 8: IoT Security: How to Protect Connected Devices and the IoT Ecosystem | Kaspersky
- 9: IoT Security: Common Vulnerabilities and Attacks | IoT For All
- 10: The Password Problem: How to Use Passwords Effectively in 2021 | Dashlane Blog
- 11: What is IP Whitelisting? | Cloudflare
- 12: DDoS Attacks: Types, Techniques, and Protection | Cloudflare
- 13: IP Whitelisting: Pros and Cons | Imperva

NEW QUESTION # 113

Heather's company has decided to use a new customer relationship management tool. After performing the appropriate research, they decided to purchase a subscription to a cloud-hosted solution. The only administrative task that Heather will need to perform is the management of user accounts. The provider will take care of the hardware, operating system, and software administration including patching and monitoring.

Which of the following is this type of solution?

- A. CaaS
- B. PaaS
- **C. SaaS**
- D. IaaS

Answer: C

Explanation:

Software as a service (SaaS) allows users to attach to and use cloud-based apps over the web. Common examples are email, calendaring and workplace tool (such as Microsoft workplace 365).

SaaS provides a whole software solution that you get on a pay-as-you-go basis from a cloud service provider.

You rent the use of an app for your organization and your users connect with it over the web, typically with an internet browser. All of the underlying infrastructure, middleware, app software system and app knowledge are located within the service provider's knowledge center. The service provider manages the hardware and software system and with the appropriate service agreement, can make sure the availability and also the security of the app and your data as well. SaaS allows your organization to induce quickly up and running with an app at token upfront cost.

Common SaaS scenarios

This tool having used a web-based email service like Outlook, Hotmail or Yahoo! Mail, then you have got already used a form of SaaS. With these services, you log into your account over the web, typically from an internet browser. The e-mail software system is found on the service provider's network and your messages are held on there moreover. you can access your email and hold on messages from an internet browser on any laptop or Internet-connected device.

The previous examples are free services for personal use. For organizational use, you can rent productivity apps, like email, collaboration and calendaring, and sophisticated business applications like client relationship management (CRM), enterprise resource planning (ERP) and document management. You buy the use of those apps by subscription or per the level of use.

Advantages of SaaS

Gain access to stylish applications. to supply SaaS apps to users, you don't need to purchase, install, update or maintain any hardware, middleware or software system. SaaS makes even sophisticated enterprise applications, like ERP and CRM, affordable for organizations that lack the resources to shop for, deploy and manage the specified infrastructure and software system themselves. Pay just for what you utilize. you furthermore may economize because the SaaS service automatically scales up and down per the level of usage.

Use free shopper software system. Users will run most SaaS apps directly from their web browser without needing to transfer and install any software system, though some apps need plugins. this suggests that you simply don't need to purchase and install special software system for your users.

Mobilise your hands simply. SaaS makes it simple to "mobilise" your hands as a result of users will access SaaS apps and

knowledge from any Internet-connected laptop or mobile device. You don't ought to worry concerning developing apps to run on differing types of computers and devices as a result of the service supplier has already done therefore. additionally, you don't ought to bring special experience aboard to manage the safety problems inherent in mobile computing. A fastidiously chosen service supplier can make sure the security of your knowledge, no matter the sort of device intense it.

Access app knowledge from anyplace. With knowledge hold on within the cloud, users will access their info from any Internet-connected laptop or mobile device. And once app knowledge is hold on within the cloud, no knowledge is lost if a user's laptop or device fails.

NEW QUESTION # 114

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