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CompTIA PT0-003 Exam Syllabus Topics:

Topic	Details
Topic 1	• Reconnaissance and Enumeration: This topic focuses on applying information gathering and enumeration techniques. Cybersecurity analysts will learn how to modify scripts for reconnaissance and enumeration purposes. They will also understand which tools to use for these stages, essential for gathering crucial information before performing deeper penetration tests.
Topic 2	• Attacks and Exploits: This extensive topic trains cybersecurity analysts to analyze data and prioritize attacks. Analysts will learn how to conduct network, authentication, host-based, web application, cloud, wireless, and social engineering attacks using appropriate tools. Understanding specialized systems and automating attacks with scripting will also be emphasized.
Topic 3	• Engagement Management: In this topic, cybersecurity analysts learn about pre-engagement activities, collaboration, and communication in a penetration testing environment. The topic covers testing frameworks, methodologies, and penetration test reports. It also explains how to analyze findings and recommend remediation effectively within reports, crucial for real-world testing scenarios.

Topic 4	• Vulnerability Discovery and Analysis: In this section, cybersecurity analysts will learn various techniques to discover vulnerabilities. Analysts will also analyze data from reconnaissance, scanning, and enumeration phases to identify threats. Additionally, it covers physical security concepts, enabling analysts to understand security gaps beyond just the digital landscape.
Topic 5	• Post-exploitation and Lateral Movement: Cybersecurity analysts will gain skills in establishing and maintaining persistence within a system. This topic also covers lateral movement within an environment and introduces concepts of staging and exfiltration. Lastly, it highlights cleanup and restoration activities, ensuring analysts understand the post-exploitation phase's responsibilities.

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CompTIA PenTest+ Exam Sample Questions (Q82-Q87):

NEW QUESTION # 82
During an engagement, a penetration tester needs to break the key for the Wi-Fi network that uses WPA2 encryption. Which of the following attacks would accomplish this objective?

- A. Initialization vector
- B. KRACK
- C. ChopChop
- D. Replay

Answer: B

Explanation:
KRACK (Key Reinstallation Attack) exploits a vulnerability in the WPA2 protocol to decrypt and inject packets, potentially allowing an attacker to break the encryption key and gain access to the Wi-Fi network.
* Understanding KRACK:
* Vulnerability: KRACK exploits flaws in the WPA2 handshake process, specifically the four-way handshake.
* Mechanism: The attack tricks the victim into reinstalling an already-in-use key by manipulating and replaying handshake messages.
* Attack Steps:
* Interception: Capture the four-way handshake packets between the client and the access point.
* Reinstallation: Force the client to reinstall the encryption key by replaying specific handshake messages.
* Decryption: Once the key is reinstalled, it can be used to decrypt packets and potentially inject malicious packets.
* Impact:
* Decryption: Allows an attacker to decrypt packets, potentially revealing sensitive information.
* Injection: Enables the attacker to inject malicious packets into the network.
* Mitigation:
* Patching: Ensure all devices and access points are patched with the latest firmware that addresses KRACK vulnerabilities.
* Encryption: Use additional encryption layers, such as HTTPS, to protect data in transit.
* References from Pentesting Literature:
* The KRACK attack is a significant topic in wireless security and penetration testing guides, illustrating the importance of securing wireless communications.
* HTB write-ups and other security assessments frequently reference KRACK when discussing vulnerabilities in WPA2.
Step-by-Step ExplanationReferences:
* Penetration Testing - A Hands-on Introduction to Hacking
* HTB Official Writeups

NEW QUESTION # 83
During a penetration test, a junior tester uses Hunter.io for an assessment and plans to review the information that will be collected. Which of the following describes the information the junior tester will receive from the Hunter.io tool?

- A. Data breach information about the organization that could be used for additional enumeration
- B. Information from the target's main web page that collects usernames, metadata, and possible data exposures
- C. A collection of email addresses for the target domain that is available on multiple sources on the internet
- D. DNS records for the target domain and subdomains that could be used to increase the external attack surface

Answer: C

Explanation:
Hunter.io is a tool used for finding professional email addresses associated with a domain. Here's what it provides:
Functionality of Hunter.io:
Email Address Collection: Gathers email addresses associated with a target domain from various sources across the internet.
Verification: Validates the email addresses to ensure they are deliverable.
Sources: Aggregates data from public sources, company websites, and other internet databases.
Comparison with Other Options:
DNS Records (B): Hunter.io does not focus on DNS records; tools like dig or nslookup are used for DNS information.
Data Breach Information (C): Services like Have I Been Pwned are used for data breach information.
Web Page Information (D): Tools like wget, curl, or specific web scraping tools are used for collecting detailed web page information.
Hunter.io is specifically designed to collect and validate email addresses for a given domain, making it the correct answer.

NEW QUESTION # 84
During an engagement, a penetration tester found some weaknesses that were common across the customer's entire environment. The weaknesses included the following:
Weaker password settings than the company standard
Systems without the company's endpoint security software installed
Operating systems that were not updated by the patch management system
Which of the following recommendations should the penetration tester provide to address the root issue?

- A. Patch the out-of-date operating systems.
- B. Deploy an endpoint detection and response system.
- C. Implement a configuration management system.
- D. Add all systems to the vulnerability management system.

Answer: C

Explanation:
Identified Weaknesses:
Weaker password settings than the company standard: Indicates inconsistency in password policies across systems.
Systems without the company's endpoint security software installed: Suggests lack of uniformity in security software deployment.
Operating systems not updated by the patch management system: Points to gaps in patch management processes.
Configuration Management System:
Definition: A configuration management system automates the deployment, maintenance, and enforcement of configurations across all systems in an organization.
Benefits: Ensures consistency in security settings, software installations, and patch management across the entire environment.
Examples: Tools like Ansible, Puppet, and Chef can help automate and manage configurations, ensuring compliance with organizational standards.

NEW QUESTION # 85
A penetration tester gains initial access to a target system by exploiting a recent RCE vulnerability. The patch for the vulnerability will be deployed at the end of the week. Which of the following utilities would allow the tester to reenter the system remotely after the patch has been deployed? (Select two).

- A. sc.exe

- B. rundll.exe
- C. netsh.exe
- D. chgusr.exe
- E. cmd.exe
- F. schtasks.exe

Answer: A,F

Explanation:
To reenter the system remotely after the patch for the recently exploited RCE vulnerability has been deployed, the penetration tester can use schtasks.exe and sc.exe.
* schtasks.exe:
* Purpose: Used to create, delete, and manage scheduled tasks on Windows systems.
* Persistence: By creating a scheduled task, the tester can ensure a script or program runs at a specified time, providing a persistent backdoor.
* Example:
schtasks /create /tn "Backdoor" /tr "C:\path\to\backdoor.exe" /sc daily /ru SYSTEM
* sc.exe:
* Purpose: Service Control Manager command-line tool used to manage Windows services.
* Persistence: By creating or modifying a service to run a malicious executable, the tester can maintain persistent access.
* Example:
sc create backdoor binPath= "C:\path\to\backdoor.exe" start= auto
* Other Utilities:
* rundll.exe: Used to run DLLs as applications, not typically used for persistence.
* cmd.exe: General command prompt, not specifically used for creating persistence mechanisms.
* chgusr.exe: Used to change install mode for Remote Desktop Session Host, not relevant for persistence.
* netsh.exe: Used for network configuration, not typically used for persistence.
Pentest References:
* Post-Exploitation: Establishing persistence is crucial to maintaining access after initial exploitation.
* Windows Tools: Understanding how to leverage built-in Windows tools like schtasks.exe and sc.exe to create backdoors that persist through reboots and patches.
By using schtasks.exe and sc.exe, the penetration tester can set up persistent mechanisms that will allow reentry into the system even after the patch is applied.

NEW QUESTION # 86
A penetration tester has just started a new engagement. The tester is using a framework that breaks the life cycle into 14 components. Which of the following frameworks is the tester using?

- A. OSSTMM
- B. CREST
- C. MITRE ATT&CK
- D. OWASP MASVS

Answer: A

Explanation:
The OSSTMM (Open Source Security Testing Methodology Manual) is a comprehensive framework for security testing that includes 14 components in its life cycle. Here's why option B is correct:
* OSSTMM: This methodology breaks down the security testing process into 14 components, covering various aspects of security assessment, from planning to execution and reporting.
* OWASP MASVS: This is a framework for mobile application security verification and does not have a 14-component life cycle.
* MITRE ATT&CK: This is a knowledge base of adversary tactics and techniques but does not describe a 14-component life cycle.
* CREST: This is a certification body for penetration testers and security professionals but does not provide a specific 14-component framework.
References from Pentest:
* Anubis HTB: Emphasizes the structured approach of OSSTMM in conducting comprehensive security assessments.
* Writeup HTB: Highlights the use of detailed methodologies like OSSTMM to cover all aspects of security testing.
Conclusion:

Option B, OSSTMM, is the framework that breaks the life cycle into 14 components, making it the correct answer.

NEW QUESTION # 87
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