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CompTIA PT0-003 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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 2	<ul style="list-style-type: none"> 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.
Topic 3	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

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CompTIA PenTest+ Exam Sample Questions (Q267-Q272):

NEW QUESTION # 267

You are a penetration tester running port scans on a server.

INSTRUCTIONS

Part 1: Given the output, construct the command that was used to generate this output from the available options.

Part 2: Once the command is appropriately constructed, use the given output to identify the potential attack vectors that should be investigated further.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

□

Answer:

Explanation:

See explanation below

Explanation:

Part 1 - 192.168.2.2 -O -sV --top-ports=100 and SMB vulns

Part 2 - Weak SMB file permissions

<https://subscription.packtpub.com/book/networking-and-servers/9781786467454/1/ch01lvl1sec13/fingerprinting-os-and-services-running-on-a-target-host>

NEW QUESTION # 268

A penetration tester is researching a path to escalate privileges. While enumerating current user privileges, the tester observes the following output:

mathematica

Copy code

SeAssignPrimaryTokenPrivilege Disabled

SeIncreaseQuotaPrivilege Disabled

SeChangeNotifyPrivilege Enabled

SeManageVolumePrivilege Enabled

SeImpersonatePrivilege Enabled

SeCreateGlobalPrivilege Enabled

SeIncreaseWorkingSetPrivilege Disabled

Which of the following privileges should the tester use to achieve the goal?

- A. SeImpersonatePrivilege
- B. SeChangeNotifyPrivilege
- C. SeManageVolumePrivilege
- **D. SeCreateGlobalPrivilege**

Answer: D

Explanation:

ImpersonatePrivilege for Escalation:

The SeImpersonatePrivilege allows a process to impersonate a user after authentication. This is a common privilege used in token stealing or pass-the-token attacks to escalate privileges.

Exploits like Rotten Potato and Juicy Potato specifically target this privilege to elevate access to SYSTEM.

Why Not Other Options?

B (SeCreateGlobalPrivilege): This allows processes to create global objects but does not directly enable privilege escalation.

C (SeChangeNotifyPrivilege): This is related to bypassing traverse checking and does not facilitate privilege escalation.

D (SeManageVolumePrivilege): This allows volume maintenance but is not relevant for privilege escalation.

CompTIA Pentest+ References:

Domain 3.0 (Attacks and Exploits)

NEW QUESTION # 269

A consultant starts a network penetration test. The consultant uses a laptop that is hardwired to the network to try to assess the network with the appropriate tools. Which of the following should the consultant engage first?

- A. Service discovery
- **B. Host discovery**
- C. OS fingerprinting
- D. DNS enumeration

Answer: B

Explanation:

In network penetration testing, the initial steps involve gathering information to build an understanding of the network's structure, devices, and potential entry points. The process generally follows a structured approach, starting from broad discovery methods to more specific identification techniques. Here's a comprehensive breakdown of the steps:

* Host Discovery

* Objective: Identify live hosts on the network.

* Tools & Techniques:

* Ping Sweep: Using tools like nmap with the -sn option (ping scan) to check for live hosts by sending ICMP Echo requests.

* ARP Scan: Useful in local networks, arp-scan can help identify all devices on the local subnet by broadcasting ARP requests.

`nmap -sn 192.168.1.0/24`

* References:

* The GoBox HTB write-up emphasizes the importance of identifying hosts before moving to service enumeration.

* The Forge HTB write-up also highlights using Nmap for initial host discovery in its enumeration phase.

Service Discovery (Option A):

* Objective: After identifying live hosts, determine the services running on them.

* Tools & Techniques:

* Nmap: Often used with options like -sV for version detection to identify services.

`nmap -sV 192.168.1.100`

* References:

* As seen in multiple write-ups (e.g., Anubis HTB and Bolt HTB), service discovery follows host identification to understand the services available for potential exploitation.

OS Fingerprinting (Option B):

* Objective: Determine the operating system of the identified hosts.

* Tools & Techniques:

* Nmap: With the -O option for OS detection.

`nmap -O 192.168.1.100`

* References:

* Accurate OS fingerprinting helps tailor subsequent attacks and is often performed after host and service discovery, as highlighted in the write-ups.

DNS Enumeration (Option D):

* Objective: Identify DNS records and gather subdomains related to the target domain.

* Tools & Techniques:

* dnsenum, dnsrecon, and dig.

`dnsenum example.com`

*

NEW QUESTION # 270

Which of the following types of information would MOST likely be included in an application security assessment report addressed to developers? (Choose two.)

- **A. Null pointer dereferences**
- B. A cyclomatic complexity score of 3
- C. Use of non-optimized sort functions
- **D. Poor input sanitization**
- E. Use of deprecated Javadoc tags
- F. Non-compliance with code style guide

Answer: A,D

NEW QUESTION # 271

A penetration tester is authorized to perform a DoS attack against a host on a network. Given the following input:

```
ip = IP("192.168.50.2")
tcp = TCP(sport=RandShort(), dport=80, flags="S")
raw = RAW(b"X"*1024)
p = ip/tcp/raw
send(p, loop=1, verbose=0)
```

Which of the following attack types is most likely being used in the test?

- A. Smurf attack
- **B. SYN flood**
- C. FragAttack
- D. MDK4

Answer: B

Explanation:

A SYN flood attack exploits the TCP handshake process by sending a large number of SYN packets to a target, consuming resources and causing a denial of service.

* Understanding the Script:

* `ip = IP("192.168.50.2")`: Sets the target IP address.

* `tcp = TCP(sport=RandShort(), dport=80, flags="S")`: Creates a TCP packet with a SYN flag set.

* `raw = RAW(b"X"*1024)`: Adds a payload to the packet.

* `p = ip/tcp/raw`: Combines IP, TCP, and RAW layers into a single packet.

* `send(p, loop=1, verbose=0)`: Sends the packet in a loop continuously.

* Purpose of SYN Flood:

* Resource Exhaustion: The attack consumes resources by opening many half-open connections.

* Denial of Service: The target system becomes unable to process legitimate requests due to resource depletion.

* Detection and Mitigation:

* Rate Limiting: Implement rate limiting on incoming SYN packets.

* SYN Cookies: Use SYN cookies to handle large numbers of SYN requests without consuming resources.

* Firewalls and IDS: Deploy firewalls and Intrusion Detection Systems (IDS) to detect and mitigate SYN flood attacks.

* References from Pentesting Literature:

* SYN flood attacks are a classic denial-of-service technique discussed in penetration testing guides.

* HTB write-ups frequently illustrate the use of SYN flood attacks to test the resilience of network services.

Step-by-Step ExplanationReferences:

* Penetration Testing - A Hands-on Introduction to Hacking

* HTB Official Writeups

NEW QUESTION # 272

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