

Review Key Concepts With PT0-003 Exam-Preparation Questions



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CompTIA PT0-003 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
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"> 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.

>> PT0-003 Mock Test <<

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CompTIA PenTest+ Exam Sample Questions (Q207-Q212):

NEW QUESTION # 207

A penetration tester is conducting a penetration test and discovers a vulnerability on a web server that is owned by the client. Exploiting the vulnerability allows the tester to open a reverse shell. Enumerating the server for privilege escalation, the tester discovers the following:

```
netstat -antu
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Foreign Address State
tcp 0 0 10.1.1.24:48850 24.176.9.43:59036 ESTABLISHED
tcp 0 0 0.0.0.0:22 :0.0.0.0* LISTEN
tcp 0 0 10.1.1.24:50112 136.12.56.217:58003 ESTABLISHED
tcp 0 0 10.1.1.24:80 115.93.193.245:40243 ESTABLISHED
tcp 0 0 10.1.1.24:80 210.117.12.2:40252 ESTABLISHED
tcp6 0 0 :::22 :::* LISTEN
udp 0 0 10.1.1.24:161 0.0.0.0:*
```

Which of the following should the penetration tester do NEXT?

- A. Investigate the high numbered port connections.
- B. Close the reverse shell the tester is using.
- C. Note this finding for inclusion in the final report.

- D. Contact the client immediately.

Answer: A

Explanation:

The image shows the output of the `netstat -antu` command, which displays active internet connections for the TCP and UDP protocols. The output shows that there are four established TCP connections and two listening UDP connections on the host. The established TCP connections have high numbered ports as their local addresses, such as 49152, 49153, 49154, and 49155. These ports are in the range of ephemeral ports, which are dynamically assigned by the operating system for temporary use by applications or processes. The foreign addresses of these connections are also high numbered ports, such as 4433, 4434, 4435, and 4436. These ports are not well-known or registered ports for any common service or protocol. The combination of high numbered ports for both local and foreign addresses suggests that these connections are suspicious and may indicate a backdoor or a covert channel on the host. Therefore, the penetration tester should investigate these connections next to determine their nature and purpose. The other options are not appropriate actions for the penetration tester at this stage.

NEW QUESTION # 208

In a file stored in an unprotected source code repository, a penetration tester discovers the following line of code:

```
sshpas -p donotchange ssh admin@192.168.6.14
```

Which of the following should the tester attempt to do next to take advantage of this information? (Select two).

- **A. Investigate to find whether other files containing embedded passwords are in the code repository.**
- B. Run a password-spraying attack with Hydra against all the SSH servers.
- C. Confirm whether the server 192.168.6.14 is up by sending ICMP probes.
- D. Use Nmap to identify all the SSH systems active on the network.
- E. Use an external exploit through Metasploit to compromise host 192.168.6.14.
- **F. Take a screen capture of the source code repository for documentation purposes.**

Answer: A,F

Explanation:

When a penetration tester discovers hard-coded credentials in a file within an unprotected source code repository, the next steps should focus on documentation and further investigation to identify additional security issues.

Taking a Screen Capture (Option B):

Documentation: It is essential to document the finding for the final report. A screen capture provides concrete evidence of the discovered hard-coded credentials.

Audit Trail: This ensures that there is a record of the vulnerability and can be used to communicate the issue to stakeholders, such as the development team or the client.

Investigating for Other Embedded Passwords (Option C):

Thorough Search: Finding one hard-coded password suggests there might be others. A thorough investigation can reveal additional credentials, which could further compromise the security of the system.

Automation Tools: Tools like `truffleHog`, `git-secrets`, and `grep` can be used to scan the repository for other instances of hard-coded secrets.

Pentest Reference:

Initial Discovery: Discovering hard-coded credentials often occurs during source code review or automated scanning of repositories.

Documentation: Keeping detailed records of all findings is a critical part of the penetration testing process. This ensures that all discovered vulnerabilities are reported accurately and comprehensively.

Further Investigation: After finding a hard-coded credential, it is best practice to look for other security issues within the same repository. This might include other credentials, API keys, or sensitive information.

Steps to Perform:

Take a Screen Capture:

Use a screenshot tool to capture the evidence of the hard-coded credentials. Ensure the capture includes the context, such as the file path and relevant code lines.

Investigate Further:

Use tools and manual inspection to search for other embedded passwords.

Commands such as `grep` can be helpful:

```
grep -r 'password' /path/to/repository
```

Tools like `truffleHog` can search for high entropy strings indicative of secrets:

```
trufflehog --regex --entropy=True /path/to/repository
```

By documenting the finding and investigating further, the penetration tester ensures a comprehensive assessment of the repository, identifying and mitigating potential security risks effectively.

NEW QUESTION # 209

A penetration tester needs to upload the results of a port scan to a centralized security tool. Which of the following commands would allow the tester to save the results in an interchangeable format?

- A. `nmap -A 192.168.0.10-100 -oX results`
- B. `nmap -iL results 192.168.0.10-100`
- C. `nmap 192.168.0.10-100 | grep "results"`
- D. `nmap 192.168.0.10-100 -O > results`

Answer: A

NEW QUESTION # 210

An Nmap scan shows open ports on web servers and databases. A penetration tester decides to run WPScan and SQLmap to identify vulnerabilities and additional information about those systems.

Which of the following is the penetration tester trying to accomplish?

- A. Identify all the vulnerabilities in the environment.
- B. Uncover potential criminal activity based on the evidence gathered.
- C. Maintain confidentiality of the findings.
- D. **Limit invasiveness based on scope.**

Answer: D

NEW QUESTION # 211

A penetration tester is preparing a password-spraying attack against a known list of users for the company "example". The tester is using the following list of commands:

```
pw-inspector -i sailwords -t 8 -S pass
```

```
spray365.py spray -ep plan
```

```
users="/user.txt"; allwords="/words.txt"; pass="/passwords.txt"; plan="/spray.plan" spray365.py generate --password-file $pass --userfile $user --domain "example.com" --execution-plan $plan cew -m 5 "http://www.example.com" -w sailwords
```

Which of the following is the correct order for the list of the commands?

- A. 3, 4, 1, 2, 5
- B. 3, 1, 2, 5, 4
- C. 2, 3, 1, 4, 5
- D. 3, 5, 1, 4, 2

Answer: A

Explanation:

Let's break it down in order:

Step 3: Sets environment variables (paths to user list, password list, etc.).

Step 4: Generates the execution plan using `spray365.py generate` with the variables set in step 3.

Step 1: Filters the password list using `pw-inspector` to enforce a minimum password policy.

Step 2: Executes the password spraying using the generated plan.

Step 5: Optionally verifies availability or reachability using `cew` (custom enumeration wrapper).

The correct logical order of operations matches option A.

CompTIA PenTest+ Reference:

PT0-003 Objective 2.3: Perform password attacks.

Kali tools & scripts usage and scripting logic are core elements in PenTest+ methodology.

NEW QUESTION # 212

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