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CompTIA PT0-003 認定試験の出題範囲：

トピック	出題範囲
トピック 1	<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.
トピック 2	<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.
トピック 3	<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.
トピック 4	<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.
トピック 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.

PT0-003日本語版問題解説、PT0-003資格練習

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CompTIA PenTest+ Exam 認定 PT0-003 試験問題 (Q113-Q118):

質問 # 113

A penetration tester plans to conduct reconnaissance during an engagement using readily available resources. Which of the following resources would most likely identify hardware and software being utilized by the client?

- A. Protocol scanning
- B. Cached pages
- C. Job boards
- D. Cryptographic flaws

正解: C

解説:

To conduct reconnaissance and identify hardware and software used by a client, job boards are an effective resource. Companies often list the technologies they use in job postings to attract qualified candidates. These listings can provide valuable insights into the specific hardware and software platforms the client is utilizing.

Explanation:

* Reconnaissance:

* This is the first phase in penetration testing, involving gathering as much information as possible about the target.

* Reconnaissance can be divided into two types: passive and active. Job boards fall under passive reconnaissance, where the tester gathers information without directly interacting with the target systems.

* Job Boards:

* Job postings often include detailed descriptions of the technologies and tools used within the company.

* For example, a job posting for a network administrator might list specific brands of hardware (like Cisco routers) or software (like VMware).

* Examples of Job Boards:

* Websites like LinkedIn, Indeed, Glassdoor, and company career pages can be used to find relevant job postings.

* These postings might mention operating systems (Windows, Linux), development frameworks (Spring, .NET), databases (Oracle, MySQL), and more.

Pentest References:

* OSINT (Open Source Intelligence): Using publicly available sources to gather information about a target.

* Job boards are a key source of OSINT, providing indirect access to the internal technologies of a company.

* This information can be used to tailor subsequent phases of the penetration test, such as vulnerability scanning and exploitation, to the specific technologies identified.

By examining job boards, a penetration tester can gain insights into the hardware and software environments of the target, making this a valuable reconnaissance tool.

質問 # 114

A company recently moved its software development architecture from VMs to containers. The company has asked a penetration tester to determine if the new containers are configured correctly against a DDoS attack.

Which of the following should a tester perform first?

- A. Perform a vulnerability check against the hypervisor.
- B. Determine if security tokens are easily available.
- C. Scan the containers for open ports.
- D. Test the strength of the encryption settings.

正解: C

解説:

The first step that a tester should perform to determine if the new containers are configured correctly against a DDoS attack is to scan the containers for open ports. Open ports are entry points for network communication and can expose services or applications that may be vulnerable to DDoS attacks. Scanning the containers for open ports can help the tester identify which services or applications are running on the containers, and which ones may need to be secured or disabled to prevent DDoS attacks. Scanning the containers for open ports can also help the tester discover any unauthorized or malicious services or applications that may have been installed on the containers by previous attackers or compromised containers. Scanning the containers for open ports can be done by using tools such as Nmap, which can perform network scanning and enumeration by sending packets to hosts and analyzing their responses¹. The other options are not the first steps that a tester should perform to determine if the new containers are configured correctly against a DDoS attack. Testing the strength of the encryption settings is not relevant to DDoS attacks, as encryption does not prevent or mitigate DDoS attacks, but rather protects data confidentiality and integrity. Determining if security tokens are easily available is not relevant to DDoS attacks, as security tokens are used for authentication and authorization, not for preventing or mitigating DDoS attacks. Performing a vulnerability check against the hypervisor is not relevant to DDoS attacks, as the hypervisor is not directly exposed to network traffic, but rather manages the virtual machines or containers that run on it.

質問 # 115

A penetration tester is attempting to discover vulnerabilities in a company's web application.

Which of the following tools would most likely assist with testing the security of the web application?

- A. Nikto
- B. sqlmap
- C. OpenVAS
- D. Nessus

正解: A

解説:

When testing the security of a web application, specific tools are designed to uncover vulnerabilities and issues.

Nikto:

Purpose: Nikto is a web server scanner that performs comprehensive tests against web servers for multiple items, including potentially dangerous files/programs, outdated versions, and other security issues.

Relevance: It is designed specifically for discovering vulnerabilities in web applications, making it the most appropriate choice for a penetration tester targeting a web application.

質問 # 116

During the reconnaissance phase, a penetration tester collected the following information from the DNS records:

A----> www

A----> host

TXT --> vpn.comptia.org

SPF---> ip=2.2.2.2

Which of the following DNS records should be in place to avoid phishing attacks using spoofing domain techniques?

- A. SOA
- B. DMARC
- C. MX
- D. CNAME

正解: B

解説:

DMARC (Domain-based Message Authentication, Reporting & Conformance) is an email authentication protocol that helps prevent email spoofing and phishing. It builds on SPF (Sender Policy Framework) and DKIM (DomainKeys Identified Mail) to provide a mechanism for email senders and receivers to improve and monitor the protection of the domain from fraudulent email.

Understanding DMARC:

SPF: Defines which IP addresses are allowed to send emails on behalf of a domain.

DKIM: Provides a way to check that an email claiming to come from a specific domain was indeed authorized by the owner of that domain.

DMARC: Uses SPF and DKIM to determine the authenticity of an email and specifies what action to take if the email fails the authentication checks.

Implementing DMARC:

Create a DMARC policy in your DNS records. This policy can specify to reject, quarantine, or take no action on emails that fail SPF or DKIM checks.

Example DMARC record: v=DMARC1; p=reject; rua=mailto:dmarc-reports@yourdomain.com; Benefits of DMARC:

Helps to prevent email spoofing and phishing attacks.

Provides visibility into email sources through reports.

Enhances domain reputation by ensuring only legitimate emails are sent from the domain.

DMARC Record Components:

v: Version of DMARC.

p: Policy for handling emails that fail the DMARC check (none, quarantine, reject).

rua: Reporting URI of aggregate reports.

ruf: Reporting URI of forensic reports.

pct: Percentage of messages subjected to filtering.

Real-World Example:

A company sets up a DMARC policy with p=reject to ensure that any emails failing SPF or DKIM checks are rejected outright, significantly reducing the risk of phishing attacks using their domain.

References from Pentesting Literature:

In "Penetration Testing - A Hands-on Introduction to Hacking," DMARC is mentioned as part of email security protocols to prevent phishing.

HTB write-ups often highlight the importance of DMARC in securing email communications and preventing spoofing attacks.

Step-by-Step ExplanationReferences:

Penetration Testing - A Hands-on Introduction to Hacking

HTB Official Writeups

質問 # 117

A penetration tester creates a list of target domains that require further enumeration. The tester writes the following script to perform vulnerability scanning across the domains:

```
line 1: #!/usr/bin/bash
```

```
line 2: DOMAINS_LIST = "/path/to/list.txt"
```

```
line 3: while read -r i; do
```

```
line 4: nikto -h $i -o scan-$i.txt &
```

```
line 5: done
```

The script does not work as intended. Which of the following should the tester do to fix the script?

- A. Change line 4 to `nikto $i | tee scan-$i.txt`.
- B. Change line 2 to `{"domain1", "domain2", "domain3", }`.
- C. Change line 3 to `while true; read -r i; do`.
- **D. Change line 5 to `done < "$DOMAINS_LIST"`.**

正解: D

解説:

The issue with the script lies in how the while loop reads the file containing the list of domains. The current script doesn't correctly redirect the file's content to the loop. Changing line 5 to `done < "$DOMAINS_LIST"` correctly directs the loop to read from the file.

Step-by-Step Explanation

Original Script:

```
DOMAINS_LIST="/path/to/list.txt"
```

```
while read -r i; do
```

```
nikto -h $i -o scan-$i.txt &
```

```
done
```

Identified Problem:

The while `read -r i; do` loop needs to know which file to read lines from. Without redirecting the input file to the loop, it doesn't process any input.

Solution:

Add `done < "$DOMAINS_LIST"` to the end of the loop to specify the input source.

Corrected script:

```
DOMAINS_LIST="/path/to/list.txt"
```

```
while read -r i; do
```

```
nikto -h $i -o scan-$i.txt &
```

```
done < "$DOMAINS_LIST"
```

`done < "$DOMAINS_LIST"` ensures that the while loop reads each line from `DOMAINS_LIST`.

