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CompTIA PenTest+ Certification Exam

CompTIA PT0-001

Version Demo

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QUESTION NO: 1

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**QUESTION NO: 2**

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**QUESTION NO: 3 - (SIMULATION)****SIMULATION**

You are a penetration tester reviewing a client's website through a web browser.

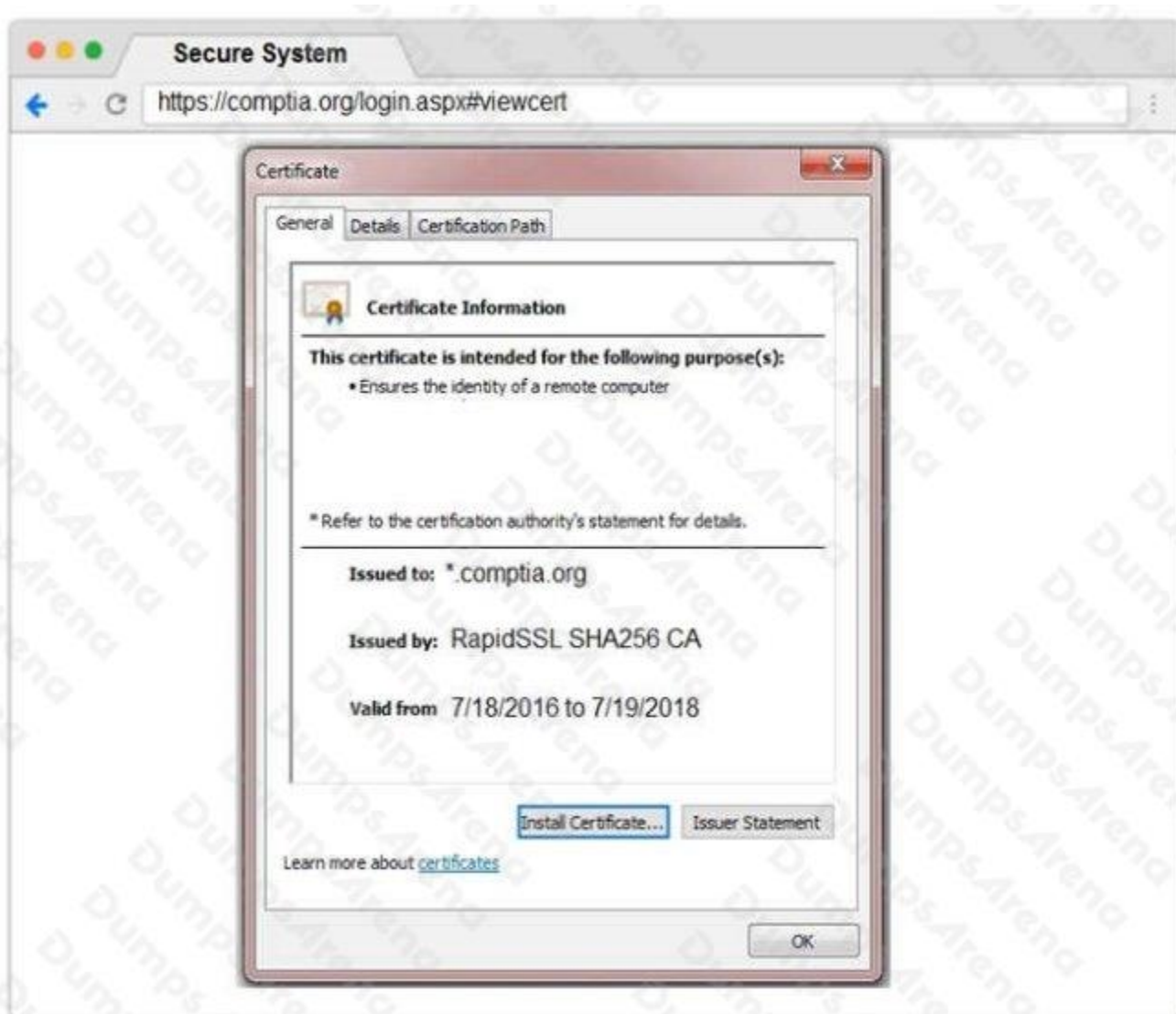
INSTRUCTIONS

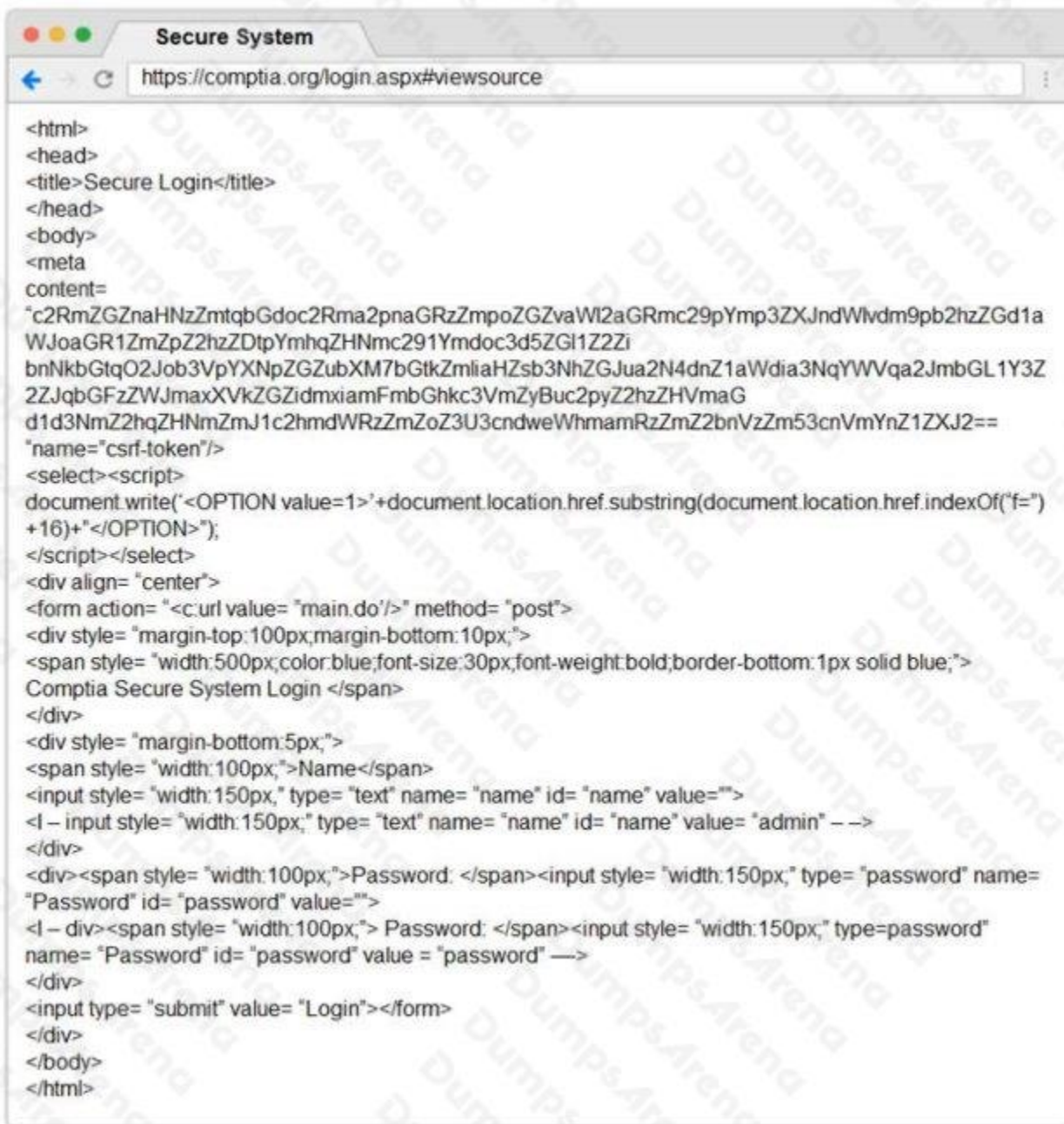
Review all components of the website through the browser to determine if vulnerabilities are present.

Remediate ONLY the highest vulnerability from either the certificate, source, or cookies.

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







The image shows a web browser window with the title "Secure System". The address bar displays the URL "https://comptia.org/login.aspx#viewsource". The main content area shows the raw HTML source code of the page. The code includes a title "Secure Login", a meta content-type declaration, a long CSRF token, a script for CSRF protection, and a login form with fields for Name, Password, and a Login button.

```
<html>
<head>
<title>Secure Login</title>
</head>
<body>
<meta
content=
"c2RmZGZnaHNzZmtqbGdoc2Rma2pnaGRzZmpoZGZvaWI2aGRmc29pYmp3ZXJndWlvd m9pb2hzZGd1a
WJoaGR1ZmZpZ2hzZDtpYmhqZHNmc291Ymdoc3d5ZGI1Z2Zi
bnNkbGtQ02Job3VpYXNpZGZubXM7bGtZmliaHZsb3NhZGJua2N4dnZ1aWdia3NqYWVqa2JmbGL1Y3Z
2ZJqbGFzZWJmaxXVkJGZidmxiamFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
d1d3NmZ2hqZHNmZmJ1c2hmdWRzZmZoZ3U3cndweWhmamRzZmZ2bnVzM53cnVmYnZ1ZXJ2==
"name="csrf-token"/>
<select><script>
document.write('<OPTION value=1>'+document.location.href.substring(document.location.href.indexOf("=")
+16)+'</OPTION>');
</script></select>
<div align="center">
<form action="<c:url value="main.do"/>" method="post">
<div style="margin-top:100px;margin-bottom:10px;">
<span style="width:500px;color:blue;font-size:30px;font-weight:bold;border-bottom:1px solid blue;">
Comptia Secure System Login </span>
</div>
<div style="margin-bottom:5px;">
<span style="width:100px;">Name</span>
<input style="width:150px;" type="text" name="name" id="name" value="">
<input style="width:150px;" type="text" name="name" id="name" value="admin" -->
</div>
<div><span style="width:100px;">Password: </span><input style="width:150px;" type="password" name=
"Password" id="password" value="">
<div><span style="width:100px;"> Password: </span><input style="width:150px;" type=password"
name="Password" id="password" value="password" -->
</div>
<input type="submit" value="Login"></form>
</div>
</body>
</html>
```


Secure System

https://comptia.org/login.aspx#viewcookies

Name	Value	Domain	Path	Expires / ...	Size	HTTP	Secure	SameSite
ASP.NET_SessionId	h1bcxtse2ewvqf4bdcby3v	www.com...	/	Session	41			
_utma	36104370.911013732.1508266963.1508266963.1508266963.1	comptia.o...	/	2019-10-1...	59			
_utmb	36104370.7.9.1508267988443	comptia.o...	/	2017-10-1...	32			
_utmc	36104370	comptia.o...	/	Session	14			
_utmt	1	comptia.o...	/	2017-10-1...	7			
_utmv	36104370.12=Account%20Type=Not%20Defined=1	comptia.o...	/	2019-10-1...	48			
_utmz	36104370.1508266963.1.1.utmcsr=google(utmccn=(organic))utmcs...	comptia.o...	/	2018-04-1...	99			
_sp_id.0767	4a84066c68851c.1508266964.1.1508268019.1508266964.81f0347...	comptia.o...	/	2019-10-1...	99			
_sp_ses.0767	*	comptia.o...	/	2017-10-1...	13			

Secure System

https://comptia.org/login.aspx#remediatecert

Certificate

General Details Certification Path

Certificate Information

This certificate is intended for the following purpose(s):

- Ensures the identity of a remote computer

* Refer to the certification authority's statement for details.

Issued to: *.comptia.org

Issued by: RapidSSL SHA256 CA

Valid from: 7/18/2016 to 7/19/2018

[Install Certificate...](#) [Issuer Statement](#)

[Learn more about certificates](#)

OK

Drag and Drop Options

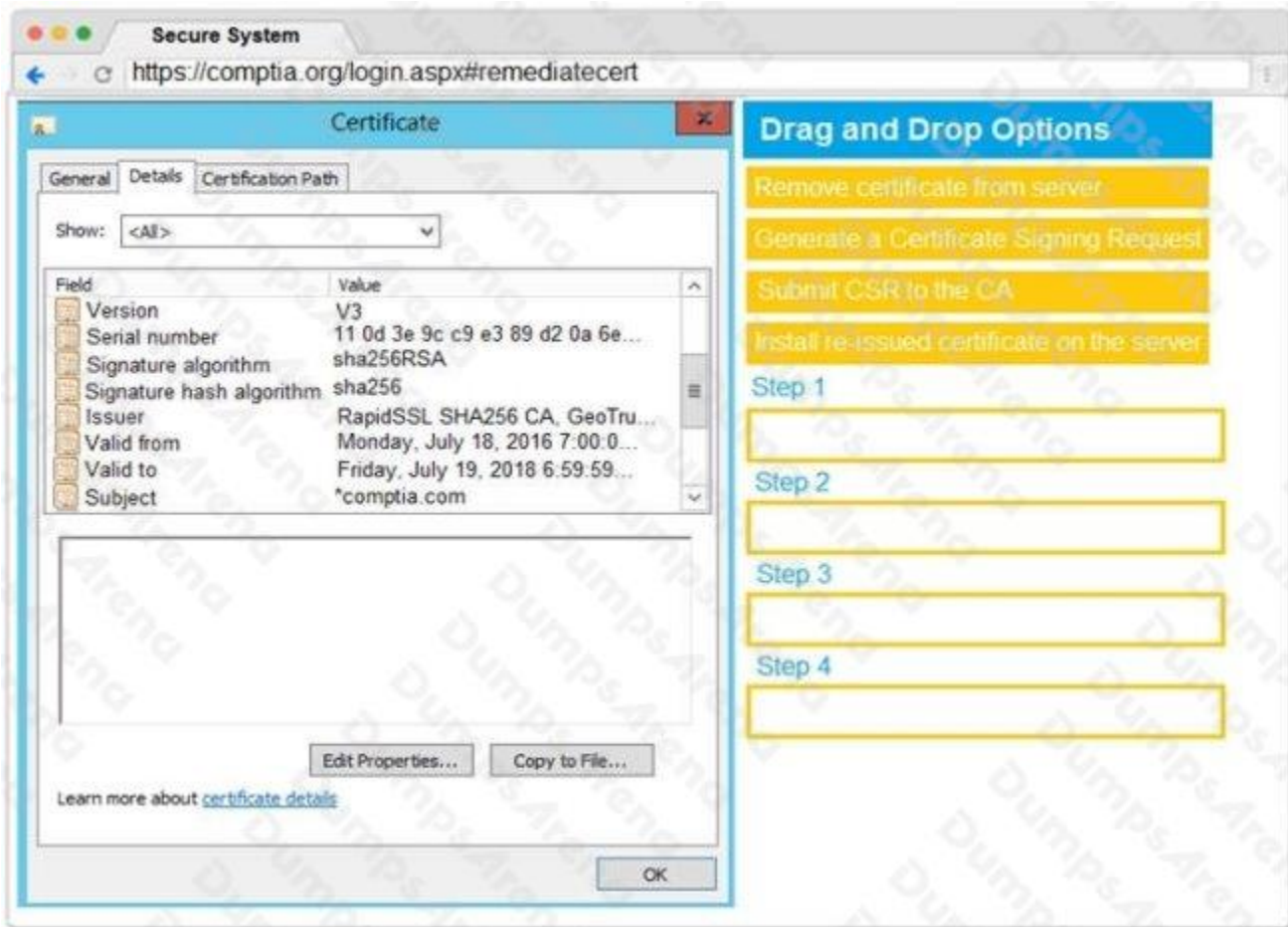
- Remove certificate from server
- Generate a Certificate Signing Request
- Submit CSR to the CA
- Install re-issued certificate on the server

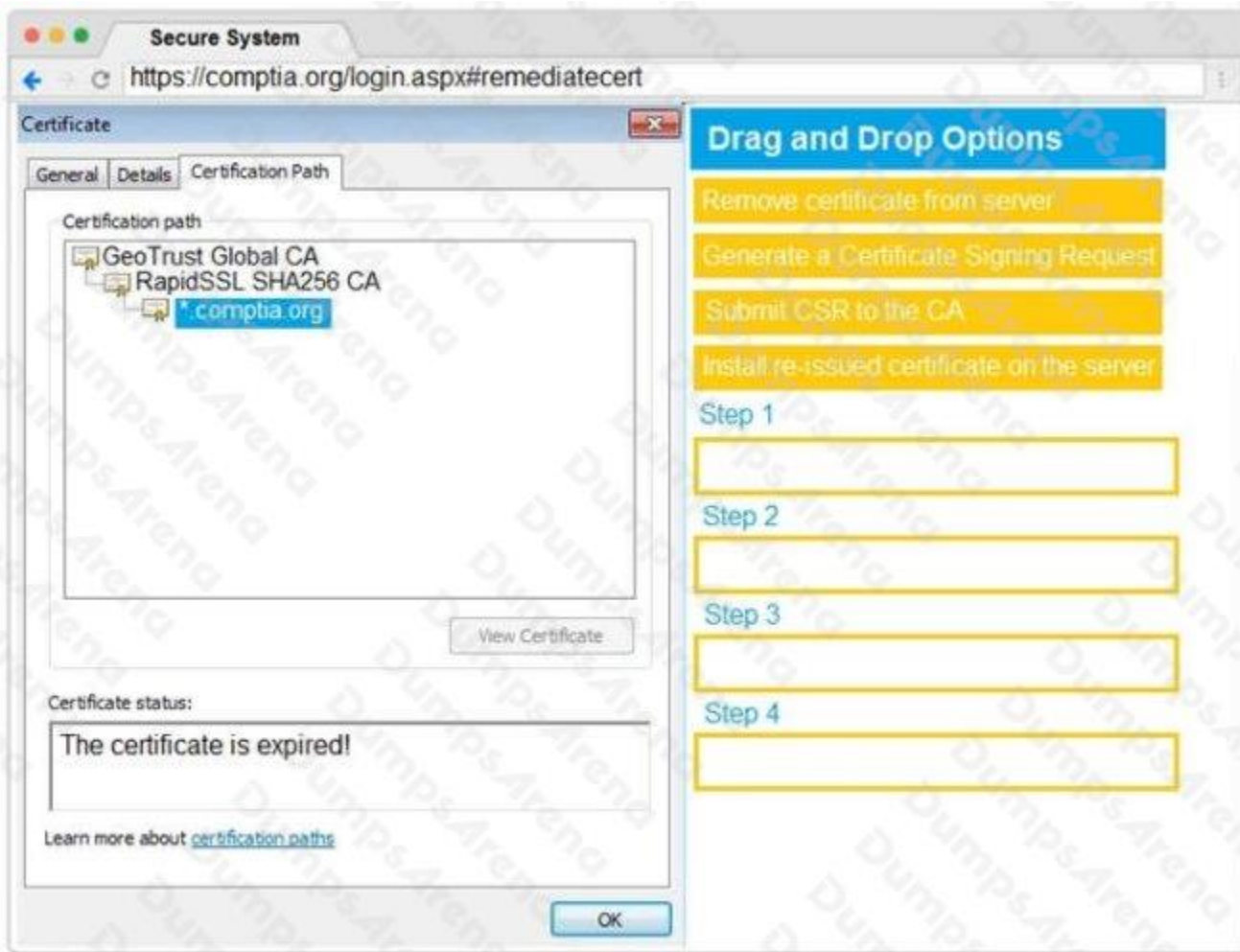
Step 1

Step 2

Step 3

Step 4






```

Secure System
https://comptia.org/login.aspx#remediatesource

1 <html>
2 <head>
3 <title>Secure Login</title>
4 </head>
5 <body>
6 <meta
7 content=
  "c2RmZGZnaHNZmZmtqbGdoc2Rma2pnaGRzZmpoZGZvaWl2aGRmc29pYmp3ZXJndWlvdmd9pb2hzZGd1a
  WJoaGR1ZmZpZ2hzZDtpYmhqZHNmc291Ymdoc3d5ZGI1Z2Zi
8 bnNkbGtqO2Job3VpYXNpZGZubXM7bGtZmliaHZsb3NhZGJua2N4dnZ1aWdia3NqYVWVqa2JmbGL1Y3Z
  2ZJqbGFzZWJmaxXVkZGZidmxiamFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
9 d1d3NmZ2hqZHNmZmJ1c2hmdWRzZmZoZ3U3cndweWhmamRzZmZ2bnVzZm53cnVmYnZ1ZXJ2==
  "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:100px;margin-bottom:10px;">
16 <span style="width:500px;color:blue;font-size:30px;font-weight:bold;border-bottom:1px solid blue;">
  Comptia Secure System Login </span>
17 </div>
18 <div style="margin-bottom:5px;">
19 <span style="width:100px;">Name</span>
20 <input style="width:150px;" type="text" name="name" id="name" value="">
21 <l -- 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 <l -- div><span style="width:100px;"> Password: </span><input style="width:150px;" type=password"
  name="Password" id="password" value="password" -->
25 </div>
26 <input type="submit" value="Login"></form>
27 </div>
28 </body>
29 </html>

```

Name	Value	Domain	Path	Expires /...	Size	HTTP	Secure	SameSite
ASP.NET_SessionId	h1bcxdtse2ewvqef4bdcby3v	www.com...	/	Session	41	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_utma	36104370 911013732 1508266963 1508266963 1508266963 1	comptia.o...	/	2019-10-1...	59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_utmb	36104370 7.9 1508267988443	comptia.o...	/	2017-10-1...	32	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_utmc	36104370	comptia.o...	/	Session	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_utmf	1	comptia.o...	/	2017-10-1...	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_utmv	36104370 (2=Account%20Type=Not%20Defined=1	comptia.o...	/	2019-10-1...	48	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_utmz	36104370 1508266963 1 1 utmc=google/utmcc=(organic)/utm...	comptia.o...	/	2018-04-1...	99	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_sp_id.0767	4a84866c8851c 1508266964 1 1508268019 1508266964 818347	comptia.o...	/	2019-10-1...	99	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete
_sp_ses.0767	*	comptia.o...	/	2017-10-1...	13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> delete

ANSWER: See explanation below.

Explanation:

- Step 1 - Generate a Certificate Signing Request
- Step 2 - Submit CSR to the CA
- Step 3 - Install re-issued certificate on the server
- Step 4 - Remove Certificate from Server

QUESTION NO: 4

An Internet-accessible database server was found with the following ports open: 22, 53, 110, 1433, and 3389. Which of the following would be the BEST hardening technique to secure the server?

- A. Ensure all protocols are using encryption.
- B. Employ network ACLs.
- C. Disable source routing on the server.
- D. Ensure the IDS rules have been updated.

ANSWER: B

QUESTION NO: 5

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 'Endlf'.
- 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

QUESTION NO: 6

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

QUESTION NO: 7

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?PHP88B5F2A0-3C92-11d3-
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

QUESTION NO: 8 - (DRAG DROP)

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.

Select and Place:

Drag and Drop Options

```
exec_scan(sys.argv[1], $PORTS)
```

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

```
export $PORTS = 21, 22
```

```
self .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()
}
```

```
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()
}
```

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

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

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

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

```
#!/usr/bin/bash
```

```
{(ports => 21 :ports => 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()
```

o 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:



Explanation:

QUESTION NO: 9

A penetration tester discovers SNMP on some targets. Which of the following should the penetration tester try FIRST?

- A. Sniff SNMP traffic.
- B. Use default credentials.

- C. Upload a new config file.
- D. Conduct a MITM.

ANSWER: B

QUESTION NO: 10

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

QUESTION NO: 11

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: C D

QUESTION NO: 12

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**QUESTION NO: 13**

A penetration tester is outside of an organization's network and is attempting to redirect users to a fake password reset website hosted on the penetration tester's box. Which of the following techniques is suitable to attempt this?

- A. Employ NBNS poisoning.
- B. Perform ARP spoofing.
- C. Conduct a phishing campaign.
- D. Use an SSL downgrade attack.

ANSWER: C**QUESTION NO: 14**

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**Explanation:**

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

QUESTION NO: 15

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