

➤ **Vendor: CompTIA**

➤ **Exam Code: CS0-002**

➤ **Exam Name: CompTIA CSA+ Certification Exam**

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QUESTION 12

Because some clients have reported unauthorized activity on their accounts, a security analyst is reviewing network packet captures from the company's API server. A portion of a capture file is shown below:

```
POST /services/v1_0/Public/Members.svc/soap
<s:Envelope+xmlns:s="http://schemas.s/soap/envelope/"><s:Body><GetIPLocation+xmlns="http://tempuri.org/">
<request+xmlns:a="http://schemas.somesite.org"+xmlns:i="http://www.w3.org/2001/XMLSchema-instance"></s:Body></s:Envelope> 192.168.1.22 - - api.somesite.com 200 0 1006 1001 0
192.168.1.22
POST /services/v1_0/Public/Members.svc/soap
<a:Password>Password123</a:Password><a:ResetPasswordToken+i:nil="true"/>
<a:ShouldImpersonatedAuthenticationBePopulated+i:nil="true"/><a:Username>somebody@companyname.com</a:Username></request></Login></s:Body></s:Envelope> 192.168.5.66 - -
api.somesite.com 200 0 11558 1712 2024 192.168.4.89
POST /services/v1_0/Public/Members.svc/soap
<s:Envelope+xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"><s:Body><GetIPLocation+xmlns="http://tempuri.org/">
<a:IPAddress>516.7.446.605</a:IPAddress><a:ZipCode+i:nil="true"/></request></GetIPLocation></s:Body></s:Envelope> 192.168.1.22 - - api.somesite.com 200 0 1003 1011 307
192.168.1.22
POST /services/v1_0/Public/Members.svc/soap
<s:Envelope+xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"><s:Body><IsLoggedIn+xmlns="http://tempuri.org/">
<request+xmlns:a="http://schemas.datacontract.org/2004/07/somesite.web+xmlns:i="http://www.w3.org/2001/XMLSchema-instance"><a:Authentication>
<a:ApiToken>kmL4krg2CwwWBan5BREgv5Djb7syxXTNKcWFuSjd</a:ApiToken><a:ImpersonateUserId>0</a:ImpersonateUserId><a:LocationId>161222</a:LocationId>
<a:NetworkId>4</a:NetworkId><a:ProviderId>'1=1</a:ProviderId><a:UserId>13026046</a:UserId></a:Authentication></request></IsLoggedIn></s:Body></s:Envelope> 192.168.5.66 - -
api.somesite.com 200 0 1378 1209 48 192.168.4.89
```

Which of the following MOST likely explains how the clients' accounts were compromised?

- A. The clients' authentication tokens were impersonated and replayed.
- B. The clients' usernames and passwords were transmitted in cleartext.
- C. An XSS scripting attack was carried out on the server.
- D. A SQL injection attack was carried out on the server.

Answer: A

QUESTION 13

A monthly job to install approved vendor software updates and hot fixes recently stopped working. The security team

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performed a vulnerability scan, which identified several hosts as having some critical OS vulnerabilities, as referenced in the common vulnerabilities and exposures (CVE) database.

Which of the following should the security team do NEXT to resolve the critical findings in the most effective manner? (Choose two.)

- A. Patch the required hosts with the correct updates and hot fixes, and rescan them for vulnerabilities.
- B. Remove the servers reported to have high and medium vulnerabilities.
- C. Tag the computers with critical findings as a business risk acceptance.
- D. Manually patch the computers on the network, as recommended on the CVE website.
- E. Harden the hosts on the network, as recommended by the NIST framework.
- F. Resolve the monthly job issues and test them before applying them to the production network.

Answer: AB

QUESTION 14

A development team is testing a new application release. The team needs to import existing client PHI data records from the production environment to the test environment to test accuracy and functionality.

Which of the following would BEST protect the sensitivity of this data while still allowing the team to perform the testing?

- A. Deidentification
- B. Encoding
- C. Encryption
- D. Watermarking

Answer: C

QUESTION 15

A network attack that is exploiting a vulnerability in the SNMP is detected.

Which of the following should the cybersecurity analyst do FIRST?

- A. Apply the required patches to remediate the vulnerability.
- B. Escalate the incident to senior management for guidance.
- C. Disable all privileged user accounts on the network.
- D. Temporarily block the attacking IP address.

Answer: A

QUESTION 16

An organization is moving its infrastructure to the cloud in an effort to meet the budget and reduce staffing requirements. The organization has three environments: development, testing, and production. These environments have interdependencies but must remain relatively segmented.

Which of the following methods would BEST secure the company's infrastructure and be the simplest to manage and maintain?

- A. Create three separate cloud accounts for each environment.
Configure account peering and security rules to allow access to and from each environment.
- B. Create one cloud account with one VPC for all environments.
Purchase a virtual firewall and create granular security rules.
- C. Create one cloud account and three separate VPCs for each environment.
Create security rules to allow access to and from each environment.
- D. Create three separate cloud accounts for each environment and a single core account for network services.
Route all traffic through the core account.

Answer: C

QUESTION 17

A pharmaceutical company's marketing team wants to send out notifications about new products to alert users of recalls and newly discovered adverse drug reactions. The team plans to use the names and mailing addresses that users have provided.

Which of the following data privacy standards does this violate?

- A. Purpose limitation
- B. Sovereignty
- C. Data minimization
- D. Retention

Answer: A

QUESTION 18

A user receives a potentially malicious email that contains spelling errors and a PDF document. A security analyst reviews the email and decides to download the attachment to a Linux sandbox for review.

Which of the following commands would MOST likely indicate if the email is malicious?

- A. `sha256sum ~/Desktop/file.pdf`
- B. `file ~/Desktop/file.pdf`
- C. `strings ~/Desktop/file.pdf | grep "<script"`
- D. `cat < ~/Desktop/file.pdf | grep -i .exe`

Answer: A

QUESTION 19

A development team signed a contract that requires access to an on-premises physical server. Access must be restricted to authorized users only and cannot be connected to the Internet.

Which of the following solutions would meet this requirement?

- A. Establish a hosted SSO.
- B. Implement a CASB.
- C. Virtualize the server.
- D. Air gap the server.

Answer: A

QUESTION 20

SIMULATION

You are a cybersecurity analyst tasked with interpreting scan data from Company A's servers. You must verify the requirements are being met for all of the servers and recommend changes if you find they are not.

The company's hardening guidelines indicate the following:

- TLS 1.2 is the only version of TLS running.
- Apache 2.4.18 or greater should be used.
- Only default ports should be used.

INSTRUCTIONS

Using the supplied data, record the status of compliance with the company's guidelines for each server.

The question contains two parts: make sure you complete Part 1 and Part 2. Make recommendations for issues based ONLY on the hardening guidelines provided.

Part 1

Scan Data	Compliance Report
<p>AppServ1 AppServ2 AppServ3 AppServ4</p> <pre> root@INFOSEC:~# curl --head appserv1.fictionalorg.com:443 HTTP/1.1 200 OK Date: Wed, 26 Jun 2019 21:15:15 GMT Server: Apache/2.4.18 (CentOS) Last-Modified: Wed, 26 Jun 2019 21:10:22 GMT ETag: "13520-58c407930177d" Accept-Ranges: bytes Content-Length: 79136 Vary: Accept-Encoding Cache-Control: max-age=3600 Expires: Wed, 26 Jun 2019 22:15:15 GMT Content-Type: text/html root@INFOSEC:~# nmap --script ssl-enum-ciphers appsrv1.fictionalorg.com -p 443 Starting Nmap 6.40 (http://nmap.org) at 2019-06-26 16:07 CDT Nmap scan report for AppSrv1.fictionalorg.com (10.21.4.68) Host is up (0.042s latency). rDNS record for 10.21.4.68: inaddrArpe.fictionalorg.com PORT STATE SERVICE 443/tcp open https _ ssl-enum-ciphers: _ TLSv1.2: _ ciphers: _ TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong _ TLS_RSA_WITH_AES_128_CBC_SHA - strong _ TLS_RSA_WITH_AES_128_GCM_SHA256 - strong _ TLS_RSA_WITH_AES_256_CBC_SHA - strong _ TLS_RSA_WITH_AES_256_GCM_SHA384 - strong _ compressors: _ NULL _ _ least strength: strong Nmap done: 1 IP address (1 host up) scanned in 8.63 seconds root@INFOSEC:~# nmap --top-ports 10 appserv1.fictionalorg.com Starting Nmap 6.40 (http://nmap.org) at 2019-06-27 10:13 CDT Nmap scan report for appsrv1.fictionalorg.com (10.21.4.68) Host is up (0.15s latency). rDNS record for 10.21.4.68: appsrv1.fictionalorg.com PORT STATE SERVICE 80/tcp open http 443/tcp open https Nmap done: 1 IP address (1 host up) scanned in 0.42 seconds </pre>	<p>Fill out the following report based on your analysis of the scan data.</p> <ul style="list-style-type: none"> <input type="checkbox"/> AppServ1 is only using TLS 1.2 <input type="checkbox"/> AppServ2 is only using TLS 1.2 <input type="checkbox"/> AppServ3 is only using TLS 1.2 <input type="checkbox"/> AppServ4 is only using TLS 1.2 <input type="checkbox"/> AppServ1 is using Apache 2.4.18 or greater <input type="checkbox"/> AppServ2 is using Apache 2.4.18 or greater <input type="checkbox"/> AppServ3 is using Apache 2.4.18 or greater <input type="checkbox"/> AppServ4 is using Apache 2.4.18 or greater

Part 1

Scan Data

AppServ1 AppServ2 AppServ3 AppServ4

```
root@INFOSEC:~# curl --head appsrv2.fictionalorg.com:443
HTTP/1.1 200 OK
Date: Wed, 26 Jun 2019 21:15:15 GMT
Server: Apache/2.3.48 (CentOS)
Last-Modified: Wed, 26 Jun 2019 21:10:22 GMT
ETag: "13520-58c407930177d"
Accept-Ranges: bytes
Content-Length: 79136
Vary: Accept-Encoding
Cache-Control: max-age=3600
Expires: Wed, 26 Jun 2019 22:15:15 GMT
Content-Type: text/html

root@INFOSEC:~# nmap --script ssl-enum-ciphers
appsrv2.fictionalorg.com -p 443

Starting Nmap 6.40 ( http://nmap.org ) at 2019-06-26 16:07 CDT

Nmap scan report for AppSrv2.fictionalorg.com (10.21.4.69)
Host is up (0.042s latency).
rDNS record for 10.21.4.69: inaddrArpa.fictionalorg.com
Not shown: 998 filtered ports
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https
| ssl-enum-ciphers:
|   TLSv1.0:
|     ciphers:
|       TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong
|       TLS_RSA_WITH_AES_128_CBC_SHA - strong
|       TLS_RSA_WITH_AES_256_CBC_SHA - strong
|     compressors:
|       NULL
|   TLSv1.1:
|     ciphers:
|       TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong
|       TLS_RSA_WITH_AES_128_CBC_SHA - strong
|       TLS_RSA_WITH_AES_256_CBC_SHA - strong
|     compressors:
|       NULL
|   TLSv1.2:
|     ciphers:
|       TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong
|       TLS_RSA_WITH_AES_128_CBC_SHA - strong
|       TLS_RSA_WITH_AES_128_GCM_SHA256 - strong
|       TLS_RSA_WITH_AES_256_CBC_SHA - strong
|       TLS_RSA_WITH_AES_256_GCM_SHA384 - strong
|     compressors:
|       NULL
|_  least strength: strong

Nmap done: 1 IP address (1 host up) scanned in 8.63 seconds

root@INFOSEC:~# nmap --top-ports 10 appsrv2.fictionalorg.com

Starting Nmap 6.40 ( http://nmap.org ) at 2019-06-27 10:13 CDT

Nmap scan report for appsrv2.fictionalorg.com (10.21.4.69)
Host is up (0.15s latency).
rDNS record for 10.21.4.69: appsrv2.fictionalorg.com
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https

Nmap done: 1 IP address (1 host up) scanned in 0.42 seconds
```

Compliance Report

Fill out the following report based on your analysis of the scan data.

- ☐ AppServ1 is only using TLS 1.2
- ☐ AppServ2 is only using TLS 1.2
- ☐ AppServ3 is only using TLS 1.2
- ☐ AppServ4 is only using TLS 1.2
- ☐ AppServ1 is using Apache 2.4.18 or greater
- ☐ AppServ2 is using Apache 2.4.18 or greater
- ☐ AppServ3 is using Apache 2.4.18 or greater
- ☐ AppServ4 is using Apache 2.4.18 or greater

Part 1

Scan Data

AppServ1 AppServ2 AppServ3 AppServ4

Compliance Report

Fill out the following report based on your analysis of the scan data.

```

root@INFOSEC:~# curl --head appsrv3.fictionalorg.com:443
HTTP/1.1 200 OK
Date: Wed, 26 Jun 2019 21:15:15 GMT
Server: Apache/2.4.48 (CentOS)
Last-Modified: Wed, 26 Jun 2019 21:10:22 GMT
ETag: "13520-58c406780177e"
Accept-Ranges: bytes
Content-Length: 79136
Vary: Accept-Encoding
Cache-Control: max-age=3600
Expires: Wed, 26 Jun 2019 22:15:15 GMT
Content-Type: text/html

root@INFOSEC:~# nmap --script ssl-enum-ciphers
appsrv3.fictionalorg.com -p 443

Starting Nmap 6.40 ( http://nmap.org ) at 2019-06-26 16:07 CDT

Nmap scan report for AppSrv3.fictionalorg.com (10.21.4.70)
Host is up (0.042s latency).
rDNS record for 10.21.4.70: inaddrArpa.fictionalorg.com
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https
| ssl-enum-ciphers:
|   TLSv1.0:
|   | ciphers:
|   |   TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong
|   |   TLS_RSA_WITH_AES_128_CBC_SHA - strong
|   |   TLS_RSA_WITH_AES_256_CBC_SHA - strong
|   | compressors:
|   |   NULL
|   TLSv1.1:
|   | ciphers:
|   |   TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong
|   |   TLS_RSA_WITH_AES_128_CBC_SHA - strong
|   |   TLS_RSA_WITH_AES_256_CBC_SHA - strong
|   | compressors:
|   |   NULL
|   TLSv1.2:
|   | ciphers:
|   |   TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong
|   |   TLS_RSA_WITH_AES_128_CBC_SHA - strong
|   |   TLS_RSA_WITH_AES_128_GCM_SHA256 - strong
|   |   TLS_RSA_WITH_AES_256_CBC_SHA - strong
|   |   TLS_RSA_WITH_AES_256_GCM_SHA384 - strong
|   | compressors:
|   |   NULL
|_  least strength: strong

Nmap done: 1 IP address (1 host up) scanned in 8.63 seconds

root@INFOSEC:~# nmap --top-ports 10 appsrv3.fictionalorg.com

Starting Nmap 6.40 ( http://nmap.org ) at 2019-06-27 10:13 CDT

Nmap scan report for appsrv3.fictionalorg.com (10.21.4.70)
Host is up (0.15s latency).
rDNS record for 10.21.4.70: appsrv3.fictionalorg.com
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https

Nmap done: 1 IP address (1 host up) scanned in 0.42 seconds

```

- ☐ AppServ1 is only using TLS 1.2
- ☐ AppServ2 is only using TLS 1.2
- ☐ AppServ3 is only using TLS 1.2
- ☐ AppServ4 is only using TLS 1.2
- ☐ AppServ1 is using Apache 2.4.18 or greater
- ☐ AppServ2 is using Apache 2.4.18 or greater
- ☐ AppServ3 is using Apache 2.4.18 or greater
- ☐ AppServ4 is using Apache 2.4.18 or greater

Part 1

Scan Data	Compliance Report
<p>AppServ1 AppServ2 AppServ3 AppServ4</p> <pre> root@INFOSEC:~# curl --head appsrv4.fictionalorg.com:443 HTTP/1.1 200 OK Date: Wed, 26 Jun 2019 21:15:15 GMT Server: Apache/2.4.48 (CentOS) Last-Modified: Wed, 26 Jun 2019 21:10:22 GMT ETag: "13520-58c406780177e" Accept-Ranges: bytes Content-Length: 79136 Vary: Accept-Encoding Cache-Control: max-age=3600 Expires: Wed, 26 Jun 2019 22:15:15 GMT Content-Type: text/html root@INFOSEC:~# nmap --script ssl-enum-ciphers appsrv4.fictionalorg.com -p 443 Starting Nmap 6.40 (http://nmap.org) at 2019-06-26 16:07 CDT Nmap scan report for AppSrv4.fictionalorg.com (10.21.4.71) Host is up (0.042s latency). rDNS record for 10.21.4.71: inaddrArpa.fictionalorg.com PORT STATE SERVICE 443/tcp open https _ TLSv1.2: ciphers: TLS_RSA_WITH_3DES_EDE_CBC_SHA - strong TLS_RSA_WITH_AES_128_CBC_SHA - strong TLS_RSA_WITH_AES_128_GCM_SHA256 - strong TLS_RSA_WITH_AES_256_CBC_SHA - strong TLS_RSA_WITH_AES_256_GCM_SHA384 - strong compressors: NULL _ least strength: strong Nmap done: 1 IP address (1 host up) scanned in 8.63 seconds root@INFOSEC:~# nmap --top-ports 10 appsrv4.fictionalorg.com Starting Nmap 6.40 (http://nmap.org) at 2019-06-27 10:13 CDT Nmap scan report for appsrv4.fictionalorg.com (10.21.4.71) Host is up (0.15s latency). rDNS record for 10.21.4.71: appsrv4.fictionalorg.com PORT STATE SERVICE 80/tcp open http 443/tcp open https 8675/tcp open ssh Nmap done: 1 IP address (1 host up) scanned in 0.42 seconds </pre>	<p>Fill out the following report based on your analysis of the scan data.</p> <ul style="list-style-type: none"> <input type="checkbox"/> AppServ1 is only using TLS 1.2 <input type="checkbox"/> AppServ2 is only using TLS 1.2 <input type="checkbox"/> AppServ3 is only using TLS 1.2 <input type="checkbox"/> AppServ4 is only using TLS 1.2 <input type="checkbox"/> AppServ1 is using Apache 2.4.18 or greater <input type="checkbox"/> AppServ2 is using Apache 2.4.18 or greater <input type="checkbox"/> AppServ3 is using Apache 2.4.18 or greater <input type="checkbox"/> AppServ4 is using Apache 2.4.18 or greater

Part 2

Scan Data	Configuration Change Recommendations
<p>AppServ1 AppServ2 AppServ3 AppServ4</p> <div style="background-color: black; height: 150px; width: 100%;"></div>	<p>+ Add recommendation for</p> <div style="border: 1px solid #ccc; padding: 5px; width: 100px;"> <p>AppSrv1</p> <p>AppSrv2</p> <p>AppSrv3</p> <p>AppSrv4</p> </div>

Answer:

Part 1 Answer:

Check on the following:

AppServ1 is only using TLS.1.2

AppServ4 is only using TLS.1.2

AppServ1 is using Apache 2.4.18 or greater

AppServ3 is using Apache 2.4.18 or greater

AppServ4 is using Apache 2.4.18 or greater

Part 2 answer:

Recommendation:

Recommendation is to disable TLS v1.1 on AppServ2 and AppServ3. Also upgrade AppServ2 Apache to version 2.4.48 from its current version of 2.3.48

QUESTION 21

A Chief Executive Officer (CEO) wants to implement BYOD in the environment. Which of the following options should the security analyst suggest to protect corporate data on these devices? (Choose two.)

- A. Disable VPN connectivity on the device.
- B. Disable Bluetooth on the device.
- C. Disable near-field communication on the device.
- D. Enable MDM/MAM capabilities.
- E. Enable email services on the device.
- F. Enable encryption on all devices.

Answer: DF

QUESTION 22

A security analyst positively identified the threat, vulnerability, and remediation. The analyst is ready to implement the corrective control. Which of the following would be the MOST inhibiting to applying the fix?

- A. Requiring a firewall reboot.
- B. Resetting all administrator passwords.
- C. Business process interruption.
- D. Full desktop backups.

Answer: D