

## Exam Questions CS0-002

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

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**NEW QUESTION 1**

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

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

**Answer: B**

**NEW QUESTION 2**

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

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

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

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

**Answer: B**

**NEW QUESTION 3**

A security analyst needs to reduce the overall attack surface.

Which of the following infrastructure changes should the analyst recommend?

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

**Answer: C**

**NEW QUESTION 4**

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 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**

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

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

**Answer:** A

#### NEW QUESTION 7

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 8

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

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

**Answer:** B

#### NEW QUESTION 9

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

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

**Answer:** D

#### NEW QUESTION 10

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 10

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 14

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 18

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 19

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 24

It is important to parameterize queries to prevent:

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

Answer: A

#### NEW QUESTION 25

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

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

Answer: C

#### NEW QUESTION 30

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

```
18 17.646496 67.53.200.1 67.53.200.12 TCP 58 47669 -> 22 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
19 17.646944 67.53.200.1 67.53.200.12 TCP 58 47669 -> 445 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
20 17.648631 67.53.200.12 67.53.200.1 TCP 58 22 -> 47669 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460
21 17.648646 67.53.200.1 67.53.200.12 TCP 58 47669 -> 80 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
22 17.648887 67.53.200.12 67.53.200.1 TCP 54 445 -> 47669 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
23 17.649763 67.53.200.12 67.53.200.1 TCP 54 80 -> 47669 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
```

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

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

Answer: C

#### NEW QUESTION 35

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

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

Answer: A

#### NEW QUESTION 38

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 39

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 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 47

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

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

**Answer:** A

#### NEW QUESTION 51

A hybrid control is one that:

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

**Answer:** B

#### NEW QUESTION 56

Ransomware is identified on a company's network that affects both Windows and MAC hosts. The command and control channel for encryption for this variant uses TCP ports from 11000 to 65000. The channel goes to good1. Iholdbadkeys.com, which resolves to IP address 72.172.16.2.

Which of the following is the MOST effective way to prevent any newly infected systems from actually encrypting the data on connected network drives while causing the least disruption to normal Internet traffic?

- A. Block all outbound traffic to web host good1. Iholdbadkeys.com at the border gateway.
- B. Block all outbound TCP connections to IP host address 72.172.16.2 at the border gateway.
- C. Block all outbound traffic on TCP ports 11000 to 65000 at the border gateway.
- D. Block all outbound traffic on TCP ports 11000 to 65000 to IP host address 72.172.16.2 at the border gateway.

**Answer:** A

#### NEW QUESTION 57

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

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

Which of the following attack types is occurring?

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

**Answer:** A

#### NEW QUESTION 62

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 64

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

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

#### Firewall ACL

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

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

- A. PC1
- B. PC2
- C. Server1
- D. Server2
- E. Firewall

**Answer:** B

#### NEW QUESTION 66

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 68

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 70

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

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

Answer: A

#### NEW QUESTION 75

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 76

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 80

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

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

Answer: A

#### NEW QUESTION 85

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 SPP word:

```
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 86

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 88

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 93

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 96

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 98

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

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

**Answer:** C

#### NEW QUESTION 102

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 103**

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 106**

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 109**

A security analyst is trying to determine if a host is active on a network. The analyst first attempts the following:

```
$ ping 192.168.1.4
PING 192.168.1.4 (192.168.1.4): 56 data bytes
--- 192.168.1.4 ping statistics ---
4 packets transmitted, 0 packets received, 100.0% packet loss
```

The analyst runs the following command next:

```
$ sudo hping3 -c 4 -n -i 192.168.1.4
HPING 192.168.1.4 (en1 192.168.1.4): NO FLAGS are set, 40 headers + 0 data bytes
len=46 ip=192.168.1.4 ttl=64 id=32101 sport=0 flags=RA seq=0 win=0 rtt=0.4ms
len=46 ip=192.168.1.4 ttl=64 id=32102 sport=0 flags=RA seq=1 win=0 rtt=0.3ms
len=46 ip=192.168.1.4 ttl=64 id=22103 sport=0 flags=RA seq=2 win=0 rtt=0.4ms
len=46 ip=192.168.1.4 ttl=64 id=32104 sport=0 flags=RA seq=3 win=0 rtt=0.4ms
--- 10.0.1.33 hpaing statistic ---
4 packets transmitted, 4 packets received, 0% packet loss
```

Which of the following would explain the difference in results?

- A. ICMP is being blocked by a firewall.
- B. The routing tables for ping and hping3 were different.
- C. The original ping command needed root permission to execute.
- D. hping3 is returning a false positive.

**Answer: A**

**NEW QUESTION 114**

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>kmL4kr2CwwWBan5BRReGv5Djb7syxXTNkcWfUjSjd</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 116

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 121

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 122

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 126

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

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

Answer: A

#### NEW QUESTION 129

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 132

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 134

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 139**

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 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 144**

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

**INSTRUCTIONS**

Review the information provided and determine the following:

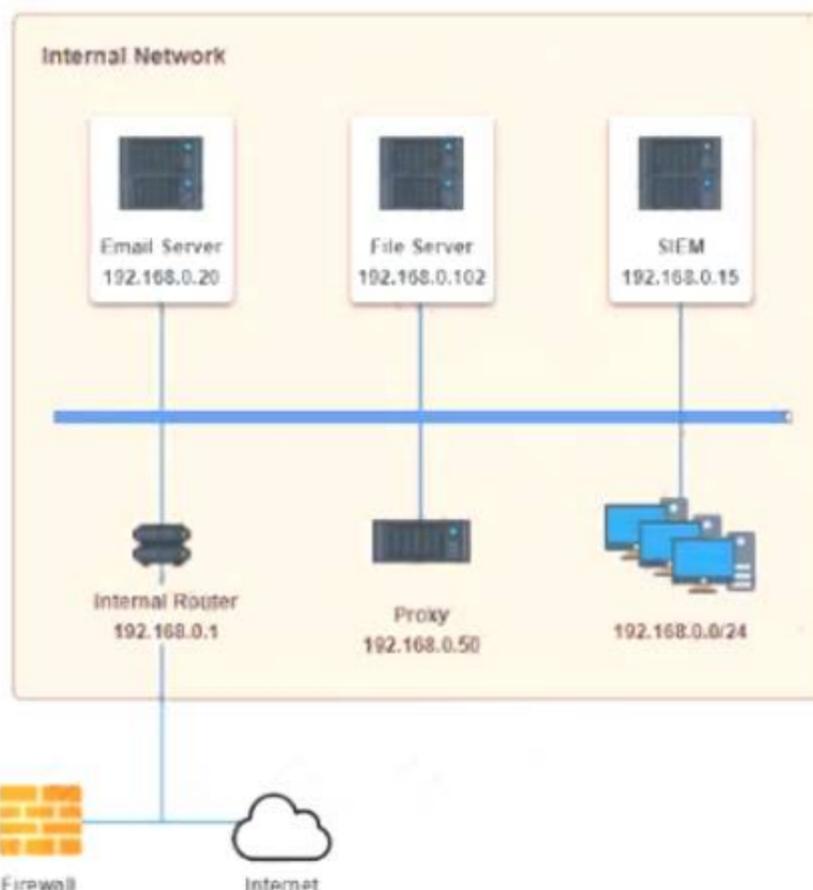
- \* 1. How many employees clicked on the link in the phishing email?
- \* 2. On how many workstations was the malware installed?
- \* 3. What is the executable file name of the malware?

[View Phishing Email](#)

How many workstations were infected?

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

Select the malware executable name



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Select the following answer as per diagram below:

**NEW QUESTION 148**

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 150

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

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

**Answer: A**

#### NEW QUESTION 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 154

Which of the following policies would state 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 155

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 157

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 158**

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 161**

Risk management wants IT to implement a solution that will permit an analyst to intercept, execute, and analyze potentially malicious files that are downloaded from the Internet.

Which of the following would BEST provide this solution?

- A. File fingerprinting
- B. Decomposition of malware
- C. Risk evaluation
- D. Sandboxing

**Answer: D**

**NEW QUESTION 162**

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 163**

An audit has revealed an organization is utilizing a large number of servers that are running unsupported operating systems.

As part of the management response phase of the audit, which of the following would BEST demonstrate senior management is appropriately aware of and addressing the issue?

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

**Answer: C**

**NEW QUESTION 167**

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 168**

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 172**

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 174

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 176

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 178

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/t file, as it is likely to be a rogue SSHD server.

Answer: B

#### NEW QUESTION 183

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 185

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 187

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 188

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

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

**Answer: A**

#### NEW QUESTION 190

An analyst performs a routine scan of a host using Nmap and receives the following output:

```
$ nmap -sS 10.0.3.1
Starting Nmap 8.9 (http://nmap.org) at 2019-01-19 12:03 PST
Nmap scan report for 10.0.3.1
Host is up (0.00098s latency).
Not shown: 979 closed ports
```

PORT	STATE	SERVICE
20/tcp	filtered	ftp-data
21/tcp	filtered	ftp
22/tcp	open	ssh
23/tcp	open	telnet
80/tcp	open	http

```
Nmap done: 1 IP address (1 host up) scanned in 0.840 seconds
```

Which of the following should the analyst investigate FIRST?

- A. Port 21
- B. Port 22
- C. Port 23
- D. Port 80

**Answer: C**

#### NEW QUESTION 194

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 195

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 198

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 200

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 202

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 204

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 207

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 211

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