Exam Questions CS0-002

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

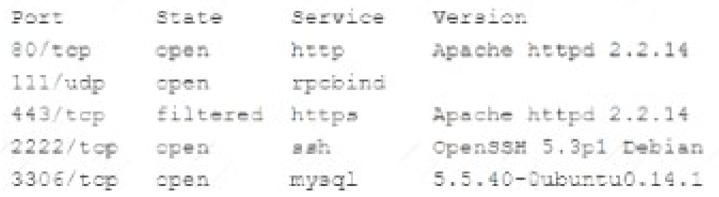
https://www.2passeasy.com/dumps/CS0-002/

NEW QUESTION 1
A cybersecurity analyst is reading a daily intelligence digest of new vulnerabilities The type of vulnerability that should be disseminated FIRST is one that:

A. enables remote code execution that is being exploited in the wild.
B. enables data leakage but is not known to be m the environment
C. enables lateral movement and was reported as a proof of concept
D. affected the organization in the past but was probably contained and eradicated

Answer: C

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.

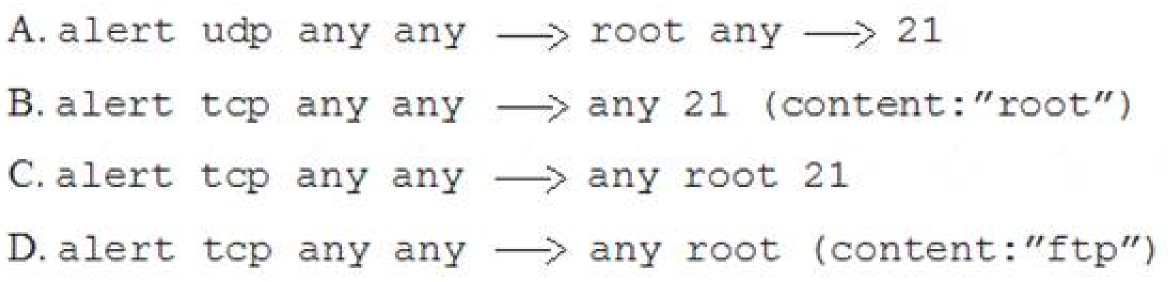
Answer: C

NEW QUESTION 4
Which of the following 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
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 been alerted to several emails that snow evidence an employee is planning malicious activities that involve employee Pll 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 9
A security manager has asked an analyst to provide feedback on the results of a penetration lest. After reviewing the results the manager requests information regarding the possible exploitation of vulnerabilities Much of the following information data points would be MOST useful for the analyst to provide to the security manager who would then communicate the risk factors to senior management? (Select TWO)

A. Probability
B. Adversary capability
C. Attack vector
D. Impact
E. Classification
F. Indicators of compromise

Answer: AD

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

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

Answer: E

NEW QUESTION 10
A web developer wants to create a new web part within the company website that aggregates sales from individual team sites. A cybersecurity analyst wants to ensure security measurements are implemented during this process. Which of the following remediation actions should the analyst take to implement a vulnerability management process?

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

Answer: C

NEW QUESTION 15
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 16
A security analyst discovered a specific series of IP addresses that are targeting an organization. None of the attacks have been successful. Which of the following should the security analyst perform NEXT?

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

Answer: D

NEW QUESTION 21
A security analyst is investigating malicious traffic from an internal system that attempted to download proxy avoidance software as identified from the firewall logs but the destination IP is blocked and not captured. Which of the following should the analyst do?

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

Answer: A

NEW QUESTION 24
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 27
Which of the following software assessment methods would be BEST for gathering data related to an application’s availability during peak times?

A. Security regression testing
B. Stress testing
C. Static analysis testing
D. Dynamic analysis testing
E. User acceptance testing

Answer: B

NEW QUESTION 29
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 33
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 36
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

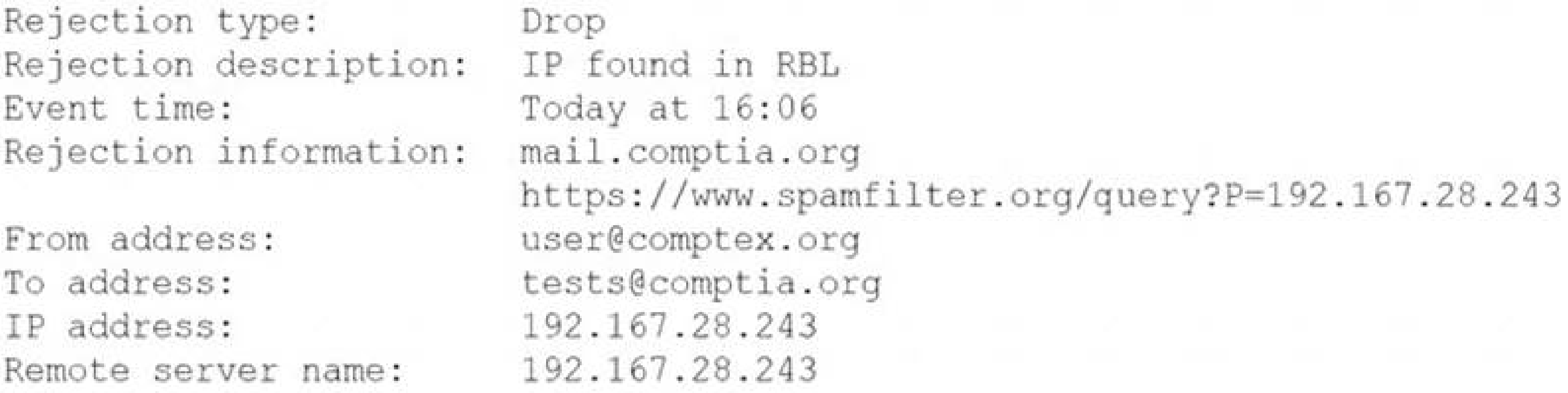
NEW QUESTION 37

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 42
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.

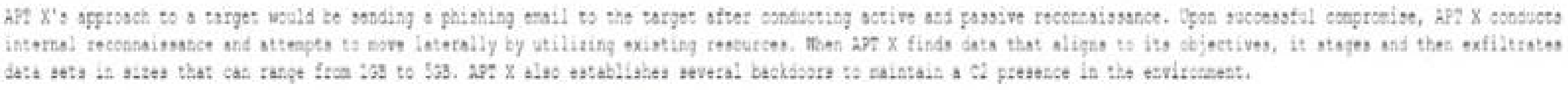
Answer: D

NEW QUESTION 43
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 47
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 C2 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 51
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 53
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

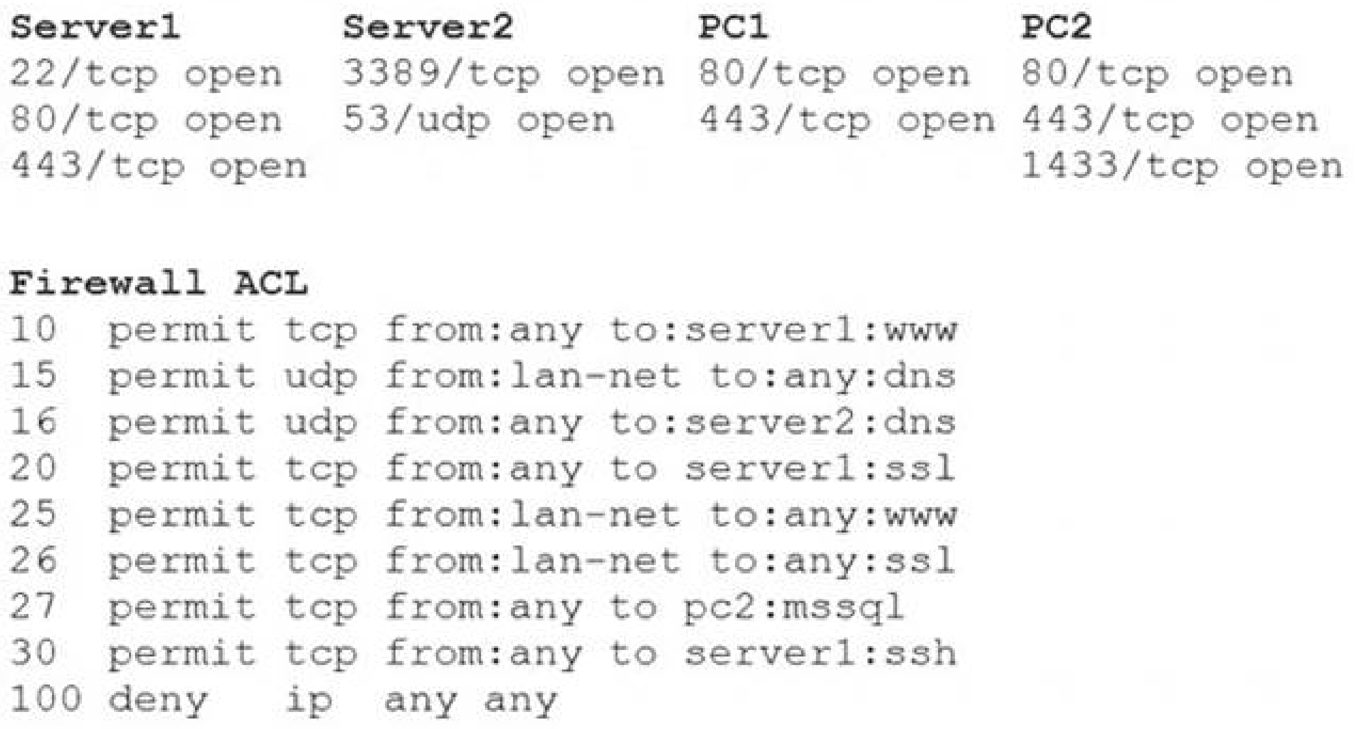
Answer: A

NEW QUESTION 55
An organization that handles sensitive financial information wants to perform tokenization of data to enable the execution of recurring transactions. The organization is most interested m a secure, built-in device to support its solution. Which of the following would MOST likely be required to perform the desired function?

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

Answer: D

NEW QUESTION 57
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 61
A large software company wants to move «s source control and deployment pipelines into a cloud-computing environment. Due to the nature of the business management determines the recovery time objective needs to be within one hour. Which of the following strategies would put the company in the BEST position to achieve the desired recovery time?

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

Answer: A

NEW QUESTION 66
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 71
Ann, a user, reports to the security team that her browser began redirecting her to random sites while using her Windows laptop. Ann further reports that the OS shows the C: drive is out of space despite having plenty of space recently. Ann claims she not downloaded anything. The security team obtains the laptop and begins to investigate, noting the following:

- File access auditing is turned off.
- When clearing up disk space to make the laptop functional, files that appear to be cached web pages are immediately created in a temporary directory, filling up the available drive space.
- All processes running appear to be legitimate processes for this user and machine.
- Network traffic spikes when the space is cleared on the laptop.
- No browser is open.

Which of the following initial actions and tools would provide the BEST approach to determining what is happening?

A. Delete the temporary files, run an Nmap scan, and utilize Burp Suite.
B. Disable the network connection, check Sysinternals Process Explorer, and review netstat output.
C. Perform a hard power down of the laptop, take a dd image, and analyze with FTK.
D. Review logins to the laptop, search Windows Event Viewer, and review Wireshark captures.

Answer: B

NEW QUESTION 76
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 81
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 82
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 84
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 87
As part of a review of modern response plans, which of the following is MOST important for an organization lo 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 91
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 94
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 98
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 102
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.

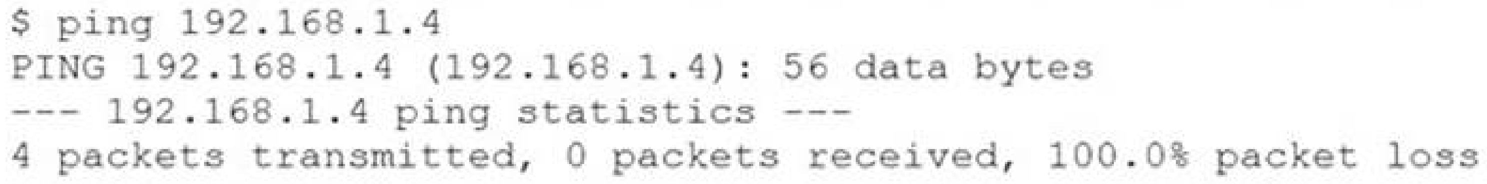
Answer: A

NEW QUESTION 103
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

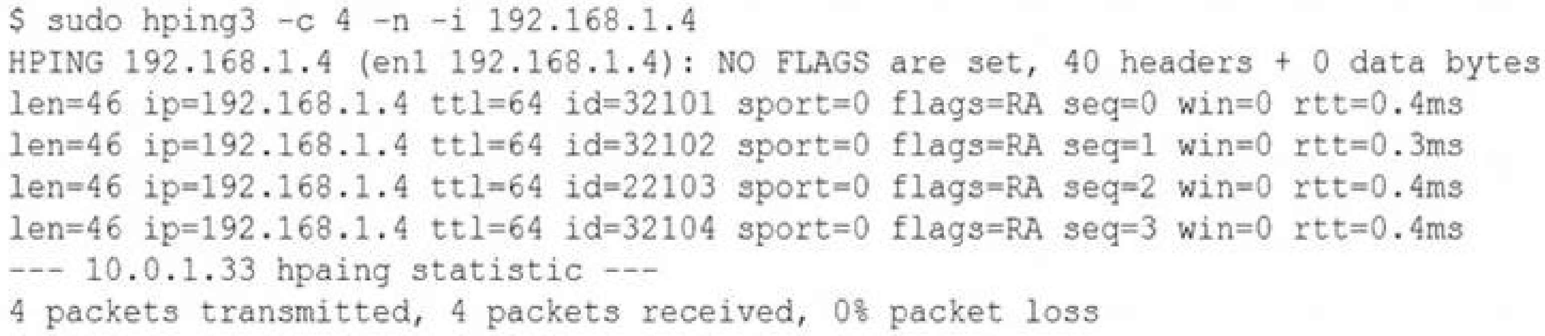
Answer: A

NEW QUESTION 104
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 105
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 108
A team of security analysis has been alerted to potential malware activity. The initial examination indicates one of the affected workstations on beaconing on TCP port 80 to five IP addresses and attempting to spread across the network over port 445. Which of the following should be the team's NEXT step during the detection phase of this response process?

A. Escalate the incident to management ,who will then engage the network infrastructure team to keep them informed
B. Depending on system critically remove each affected device from the network by disabling wired and wireless connections
C. Engage the engineering team to block SMB traffic internally and outbound HTTP traffic to the five IP addresses Identify potentially affected systems by creating a correlation
D. Identify potentially affected system by creating a correlation search in the SIEM based on the network traffic.

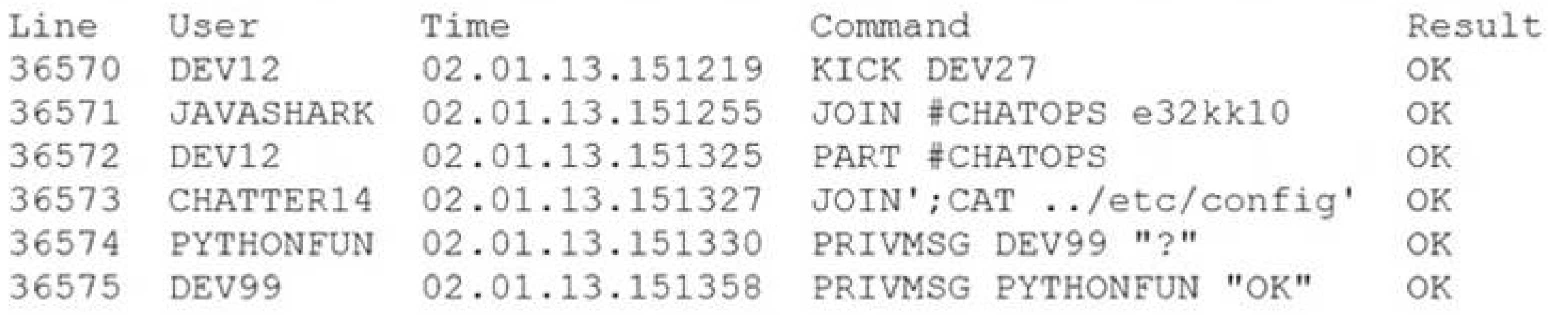
Answer: D

NEW QUESTION 109
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 110
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 113
A security analyst wants to identify which vulnerabilities a potential attacker might initially exploit if the network is compromised Which of the following would provide the BEST results?

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

Answer: D

NEW QUESTION 114
A storage area network (SAN) was inadvertently powered off while power maintenance was being performed in a datacenter. None of the systems should have lost all power during the maintenance. Upon review, it is discovered that a SAN administrator moved a power plug when testing the SAN's fault notification features.
Which of the following should be done to prevent this issue from reoccurring?

A. Ensure both power supplies on the SAN are serviced by separate circuits, so that if one circuit goes down, the other remains powered.
B. Install additional batteries in the SAN power supplies with enough capacity to keep the system powered on during maintenance operations.
C. Ensure power configuration is covered in the datacenter change management policy and have the SAN administrator review this policy.
D. Install a third power supply in the SAN so loss of any power intuit does not result in the SAN completely powering off.

Answer: A

NEW QUESTION 115
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 118
A security analyst receives an alert that highly sensitive information has left the company's network Upon investigation, the analyst discovers an outside IP range has had connections from three servers more than 100 times m the past month The affected servers are virtual machines Which of the following is the BEST course of action?

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

Answer: A

NEW QUESTION 120
A security analyst gathered forensics from a recent intrusion in preparation for legal proceedings. The analyst used EnCase to gather the digital forensics. cloned the hard drive, and took the hard drive home for further analysis. Which of the following of the security analyst violate?

A. Cloning procedures
B. Chain of custody
C. Hashing procedures
D. Virtualization

Answer: B

NEW QUESTION 121
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.

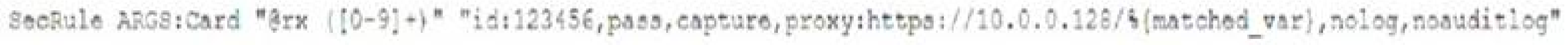
Answer: A

NEW QUESTION 124
Which of me following BEST articulates the benefit of leveraging SCAP in an organization's cybersecurity analysis toolset?

A. It automatically performs remedial configuration changes lo enterprise security services
B. It enables standard checklist and vulnerability analysis expressions for automaton
C. It establishes a continuous integration environment for software development operations
D. It provides validation of suspected system vulnerabilities through workflow orchestration

Answer: B

NEW QUESTION 128
A security analyst was alerted to a tile integrity monitoring event based on a change to the vhost-paymonts .c onf 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 130
A user receives a potentially malicious email that contains spelling errors and a PDF document. A security analyst reviews the email and decides to download the attachment to a Linux sandbox for review.
Which of the following commands would MOST likely indicate if the email is malicious?

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

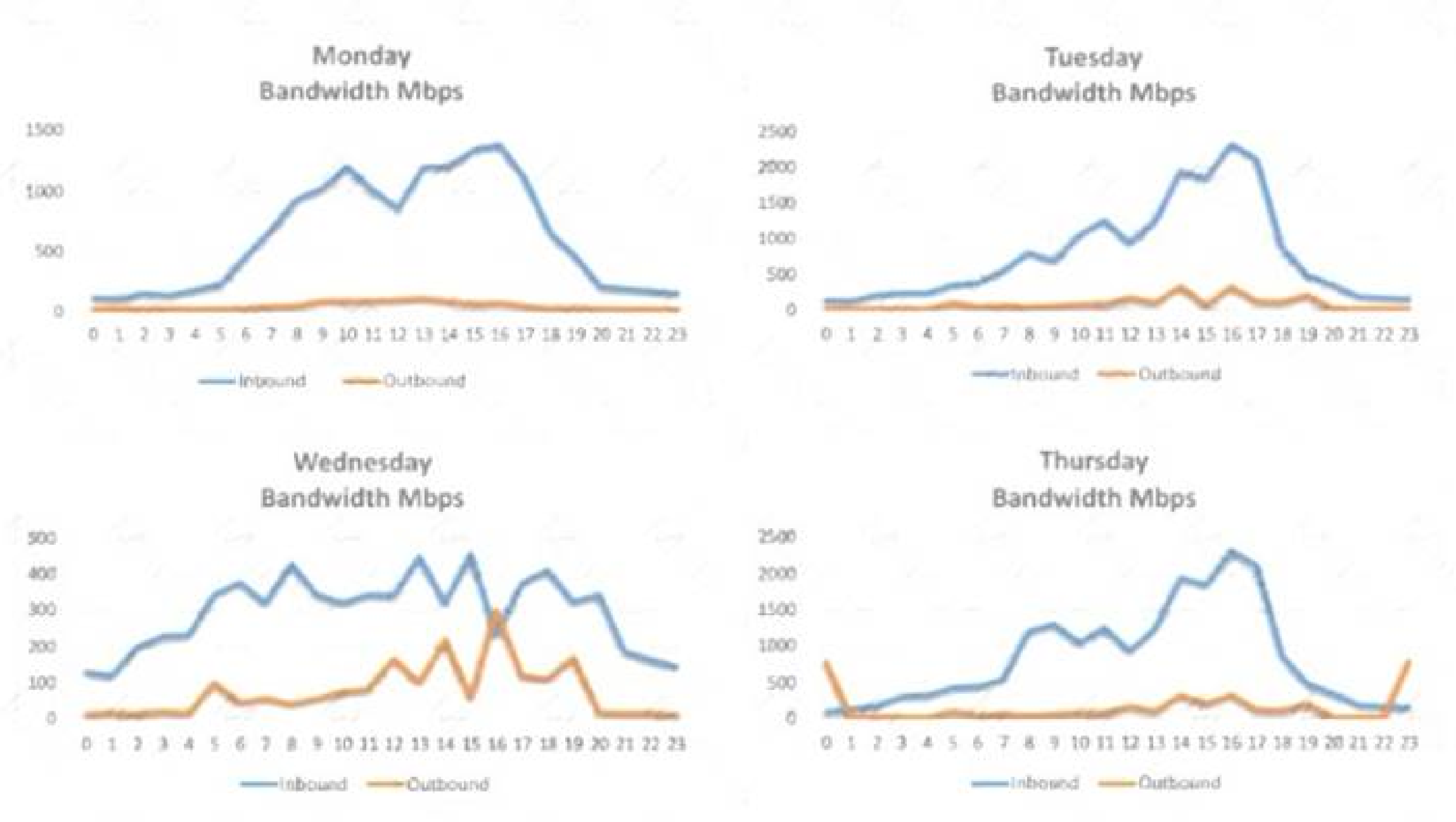
Answer: A

NEW QUESTION 133
A system is experiencing noticeably slow response times, and users are being locked out frequently. An analyst asked for the system security plan and found the system comprises two servers: an application server in the DMZ and a database server inside the trusted domain. Which of the following should be performed NEXT to investigate the availability issue?

A. Review the firewall logs.
B. Review syslogs from critical servers.
C. Perform fuzzing.
D. Install a WAF in front of the application server.

Answer: C

NEW QUESTION 136
A security analyst is conducting a post-incident log analysis to determine which indicators can be used to detect further occurrences of a data exfiltration incident. The analyst determines backups were not performed during this time and reviews the following:



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

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

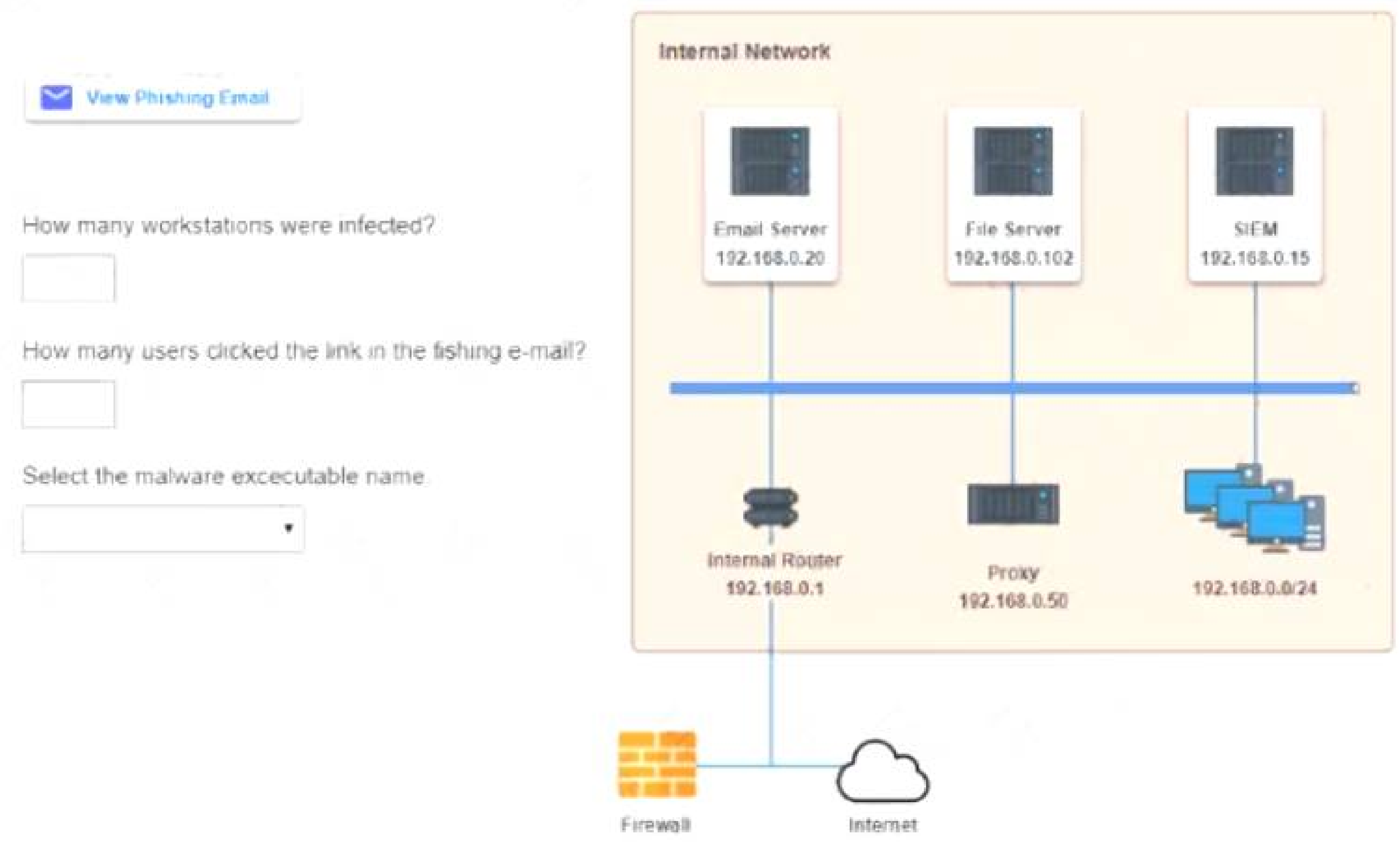
Answer: D

NEW QUESTION 139
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 142
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 or the malware?



View Phishing Email

How many workstations were infected?

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

Select the malware excecutable name ▾

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Select the following answer as per diagram below:

NEW QUESTION 147
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 149
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 151
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

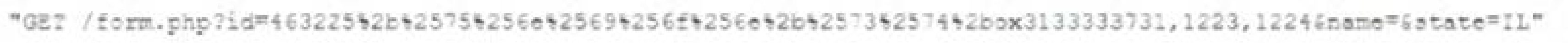
Answer: A

NEW QUESTION 152
Which of the following policies would slate an employee should not disable security safeguards, such as host firewalls and antivirus on company systems?

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

Answer: D

NEW QUESTION 156
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%2box3133333731,1223,1224&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 158
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 166
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 168
A new on-premises application server was recently installed on the network. Remote access to the server was enabled for vendor support on required ports, but recent security reports show large amounts of data are being sent to various unauthorized networks through those ports. Which of the following configuration changes must be implemented to resolve this security issue while still allowing remote vendor access?

A. Apply a firewall application server rule.
B. Whitelist the application server.
C. Sandbox the application server.
D. Enable port security.
E. Block the unauthorized networks.

Answer: B

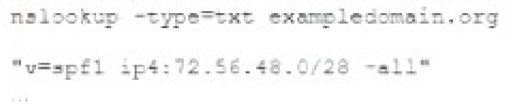
NEW QUESTION 172
A security analyst is providing a risk assessment for a medical device that will be installed on the corporate network. During the assessment, the analyst discovers the device has an embedded operating system that will be at the end of its life in two years. Due to the criticality of the device, the security committee makes a risk-based policy decision to review and enforce the vendor upgrade before the end of life is reached.
Which of the following risk actions has the security committee taken?

A. Risk exception
B. Risk avoidance

C. Risk tolerance
D. Risk acceptance

Answer: D

NEW QUESTION 175
The help desk noticed a security analyst that emails from a new email server are not being sent out. The new email server was recently to the existing ones. The analyst runs the following command on the new server.



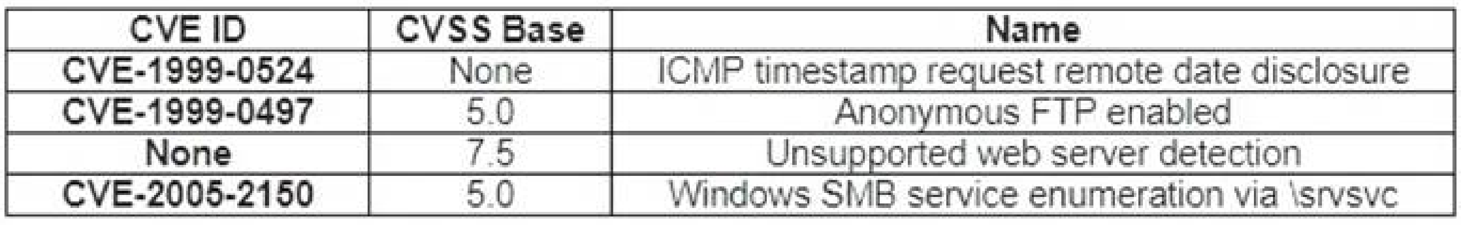
```
nslookup -type=txt exampledomain.org

"v=spf1 ip4:72.56.48.0/28 -all"
...
```

Given the output, which of the following should the security analyst check NEXT?

A. The DNS name of the new email server
B. The version of SPF that is being used
C. The IP address of the new email server
D. The DMARC policy

Answer: B

NEW QUESTION 178
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 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.

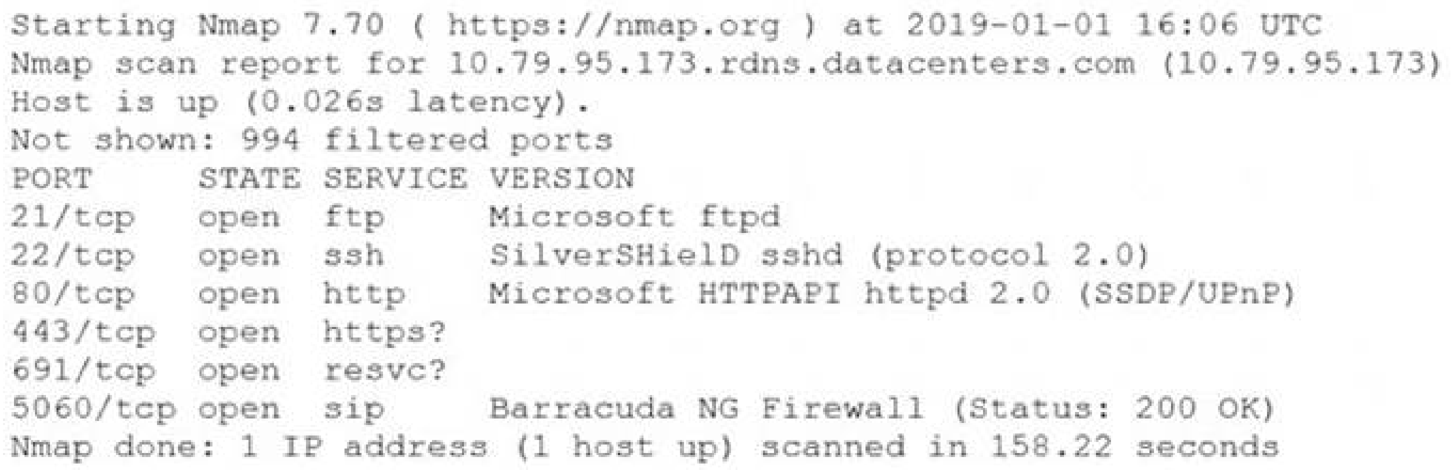
Answer: A

NEW QUESTION 185
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 190
An information security analyst is compiling data from a recent penetration test and reviews the following output:



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

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

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

Answer: B

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

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

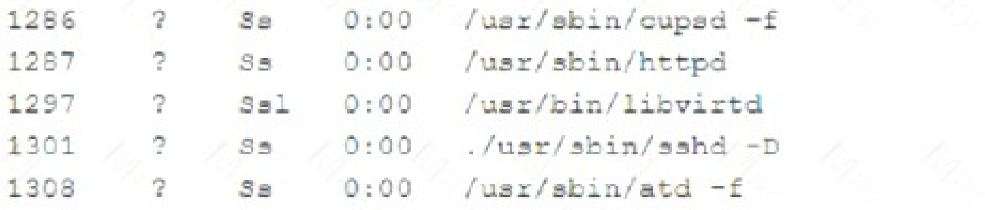
Answer: A

NEW QUESTION 192
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 197
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 200
Which of the following software security best practices would prevent an attacker from being able to run arbitrary SQL commands within a web application? (Choose two.)

A. Parameterized queries
B. Session management
C. Input validation
D. Output encoding
E. Data protection
F. Authentication

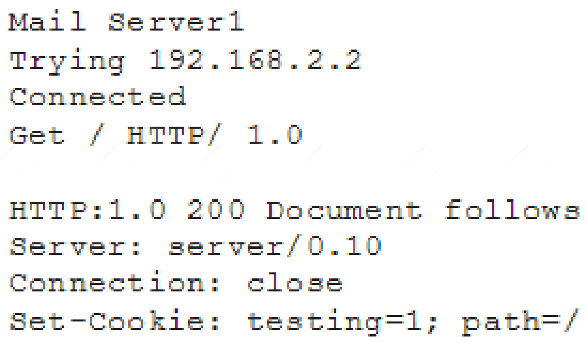
Answer: AC

NEW QUESTION 202
When attempting to do a stealth scan against a system that does not respond to ping, which of the following Nmap commands BEST accomplishes that goal?

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

Answer: C

NEW QUESTION 207
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 208
An incident responder successfully acquired application binaries off a mobile device for later forensic analysis. Which of the following should the analyst do NEXT?

A. Decompile each binary to derive the source code.
B. Perform a factory reset on the affected mobile device.
C. Compute SHA-256 hashes for each binary.
D. Encrypt the binaries using an authenticated AES-256 mode of operation.
E. Inspect the permissions manifests within each application.

Answer: C

NEW QUESTION 211
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.

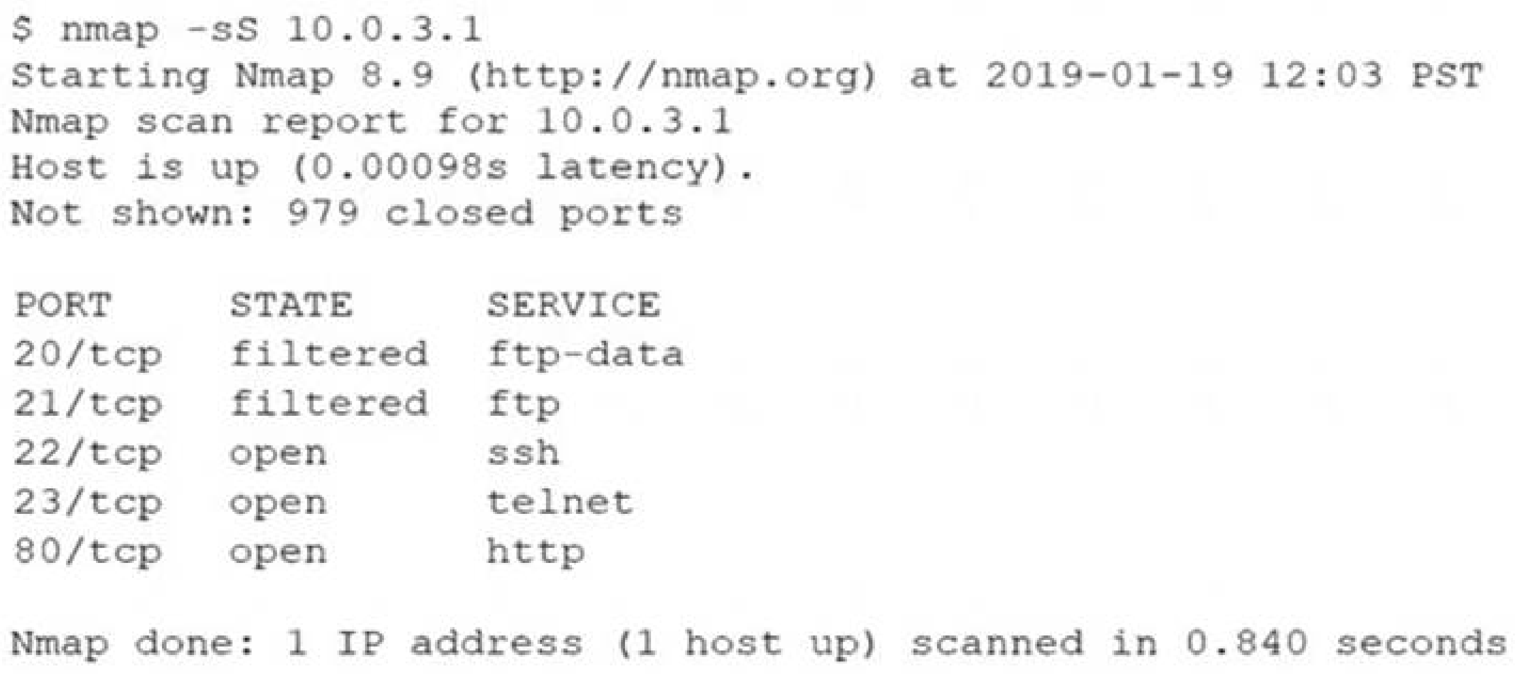
Answer: D

NEW QUESTION 215
Joe, a penetration tester, used a professional directory to identify a network administrator and ID administrator for a client's company. Joe then emailed the network administrator, identifying himself as the ID administrator, and asked for a current password as part of a security exercise. Which of the following techniques were used in this scenario?

A. Enumeration and OS fingerprinting
B. Email harvesting and host scanning
C. Social media profiling and phishing
D. Network and host scanning

Answer: C

NEW QUESTION 218
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

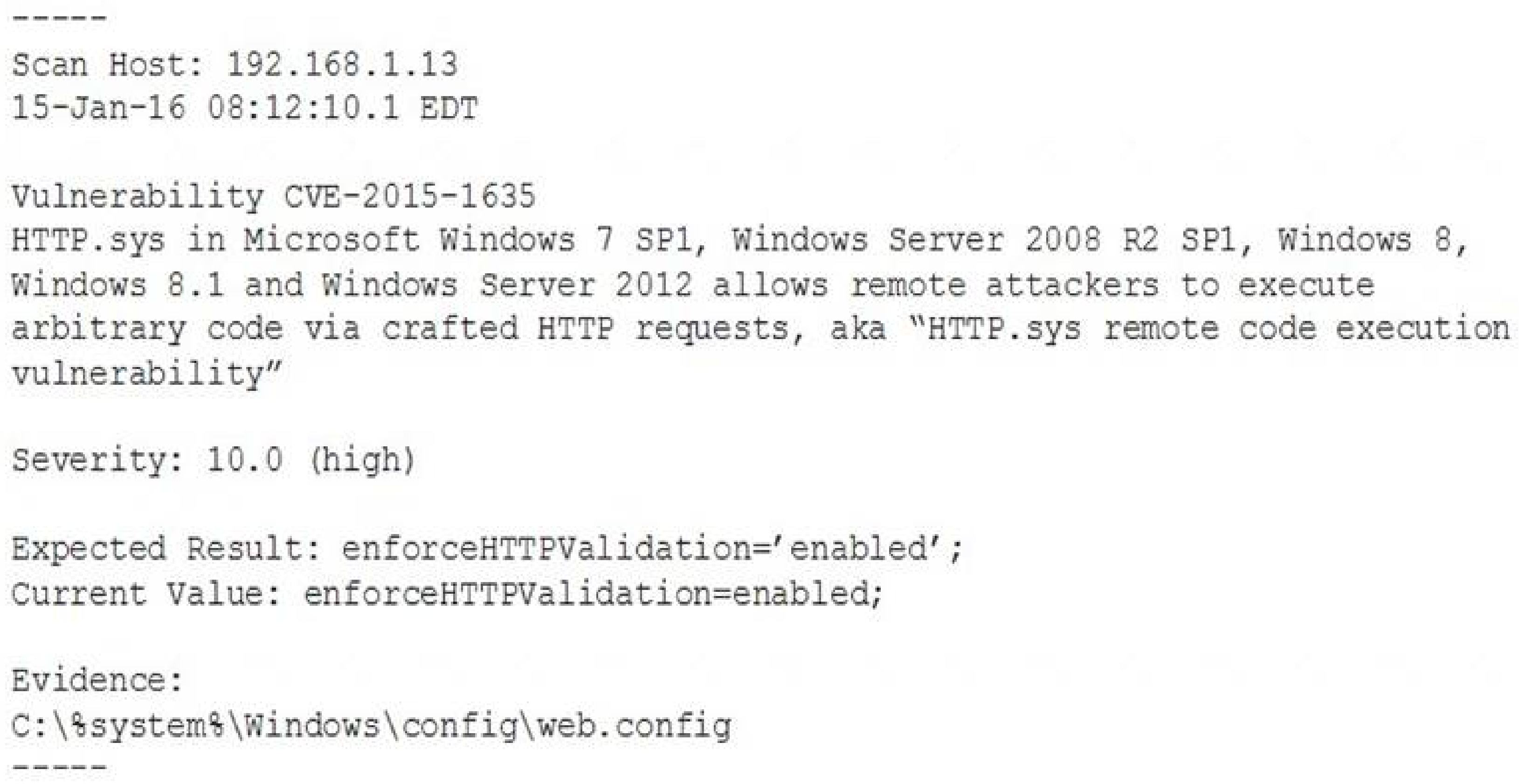
Answer: C

NEW QUESTION 221
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 222
A system's authority to operate (ATO) is set to expire in four days. Because of other activities and limited staffing, the organization has neglected to start reauthentication activities until now. The cybersecurity group just performed a vulnerability scan with the partial set of results shown below:



```
-----
Scan Host: 192.168.1.13
15-Jan-16 08:12:10.1 EDT

Vulnerability CVE-2015-1635
HTTP.sys in Microsoft Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8,
Windows 8.1 and Windows Server 2012 allows remote attackers to execute
arbitrary code via crafted HTTP requests, aka "HTTP.sys remote code execution
vulnerability"

Severity: 10.0 (high)

Expected Result: enforceHTTPValidation='enabled';
Current Value: enforceHTTPValidation=enabled;

Evidence:
C:\%system%\Windows\config\web.config
-----
```

Based on the scenario and the output from the vulnerability scan, which of the following should the security team do with this finding?

A. Remediate by going to the web config file, searching for the enforce HTTP validation setting, and manually updating to the correct setting.
B. Accept this risk for now because this is a "high" severity, but testing will require more than the four days available, and the system ATO needs to be competed.
C. Ignore i
D. This is false positive, and the organization needs to focus its efforts on other findings.
E. Ensure HTTP validation is enabled by rebooting the server.

Answer: A

NEW QUESTION 226

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

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

Answer: A

NEW QUESTION 230
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 234
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 236
A security analyst implemented a solution that would analyze the attacks that the organization’s firewalls failed to prevent. The analyst used the existing systems to enact the solution and executed the following command.
S sudo nc -1 -v -c maildemon . py 25 caplog, txt
Which of the following solutions did the analyst implement?

A. Log collector
B. Crontab mail script
C. Snikhole
D. Honeypot

Answer: A

NEW QUESTION 241
......