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To pass the CS0-003 Certification Exam, candidates must demonstrate their ability to perform real-world cybersecurity tasks. They must be able to analyze data to identify security threats, develop and implement effective security policies and procedures, and respond to security incidents in a timely and effective manner. Candidates are expected to have a strong understanding of cybersecurity concepts and principles, as well as hands-on experience in the field.

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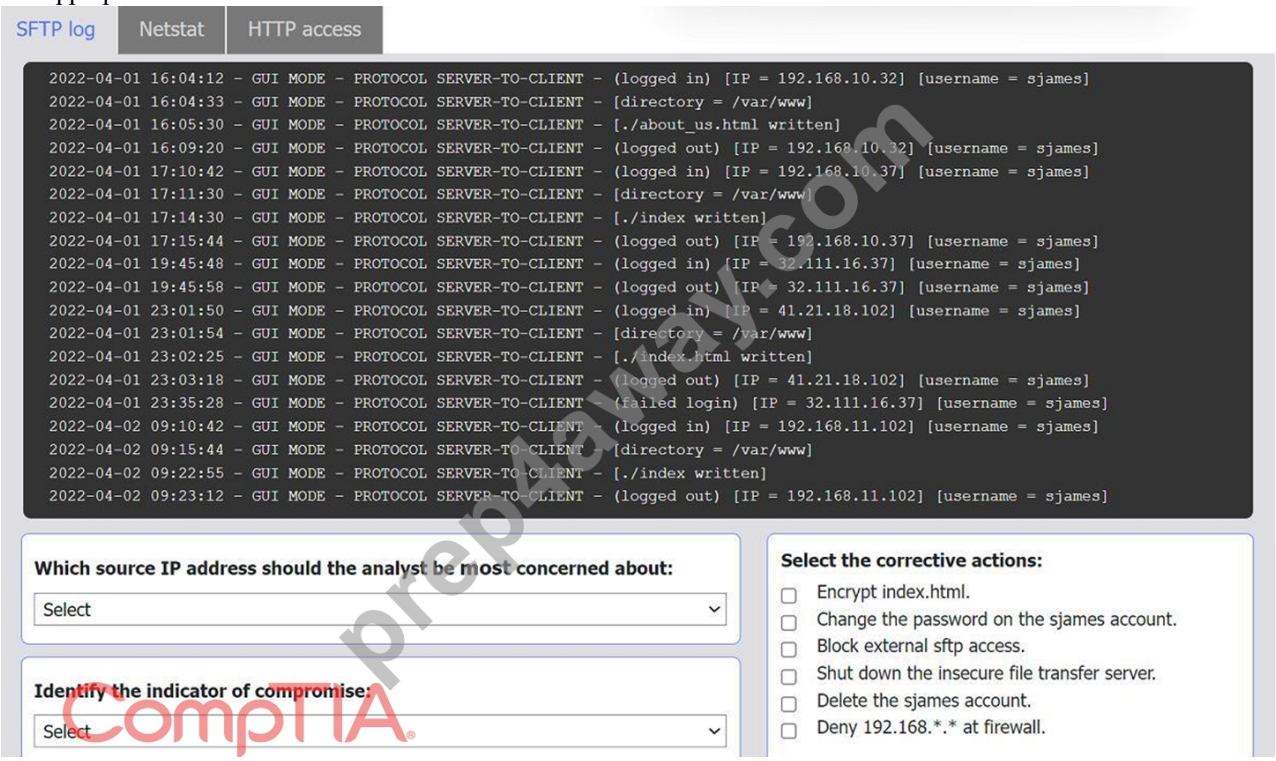
CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q534-Q539):

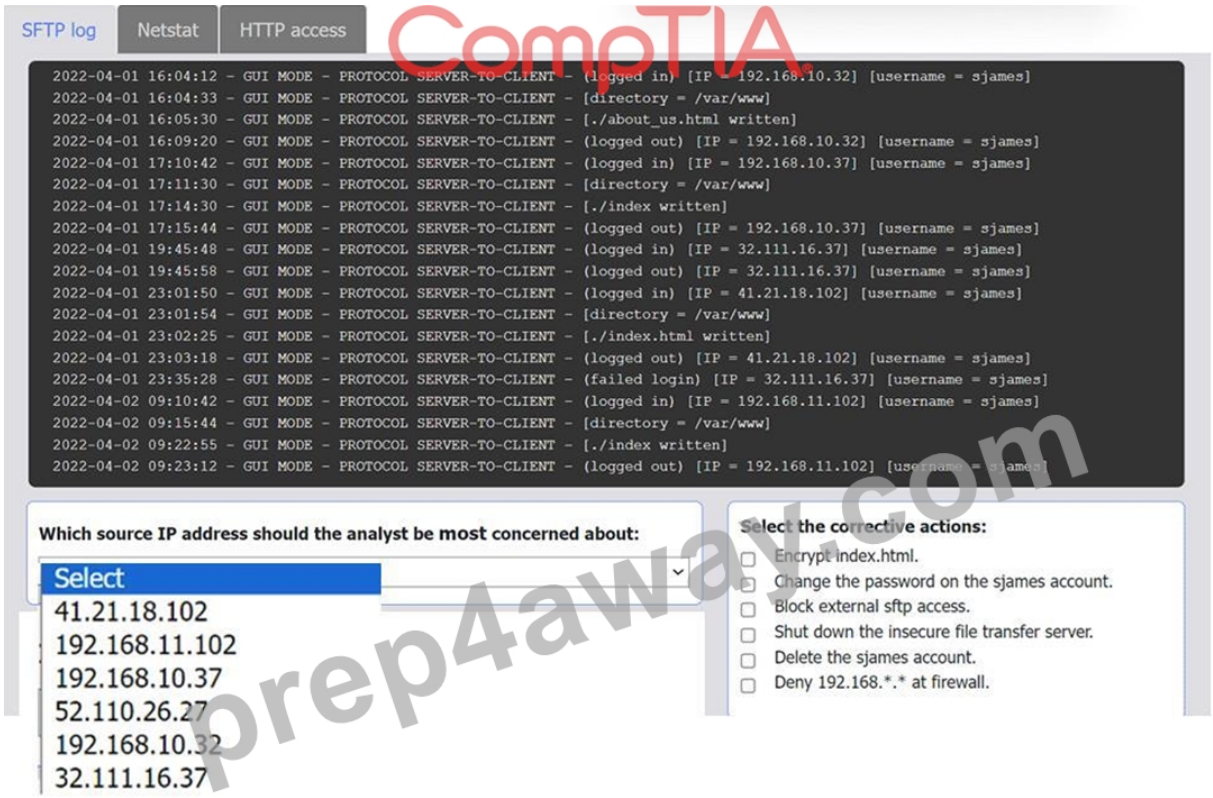
NEW QUESTION # 534
A team of analysts is developing a new internal system that correlates information from a variety of sources, analyzes that information, and then triggers notifications according to company policy.
Which of the following technologies was deployed?

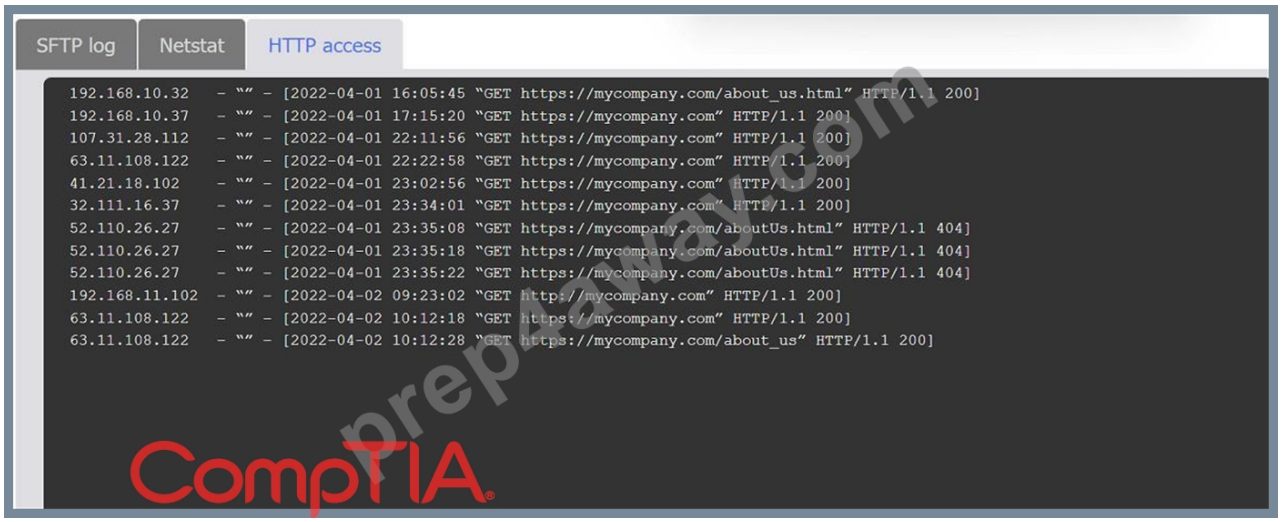
- A. CERT
- B. SIEM
- C. IPS
- D. SOAR

Answer: B

NEW QUESTION # 535
An organization's website was maliciously altered.
INSTRUCTIONS
Review information in each tab to select the source IP the analyst should be concerned about, the indicator of compromise, and the two appropriate corrective actions.





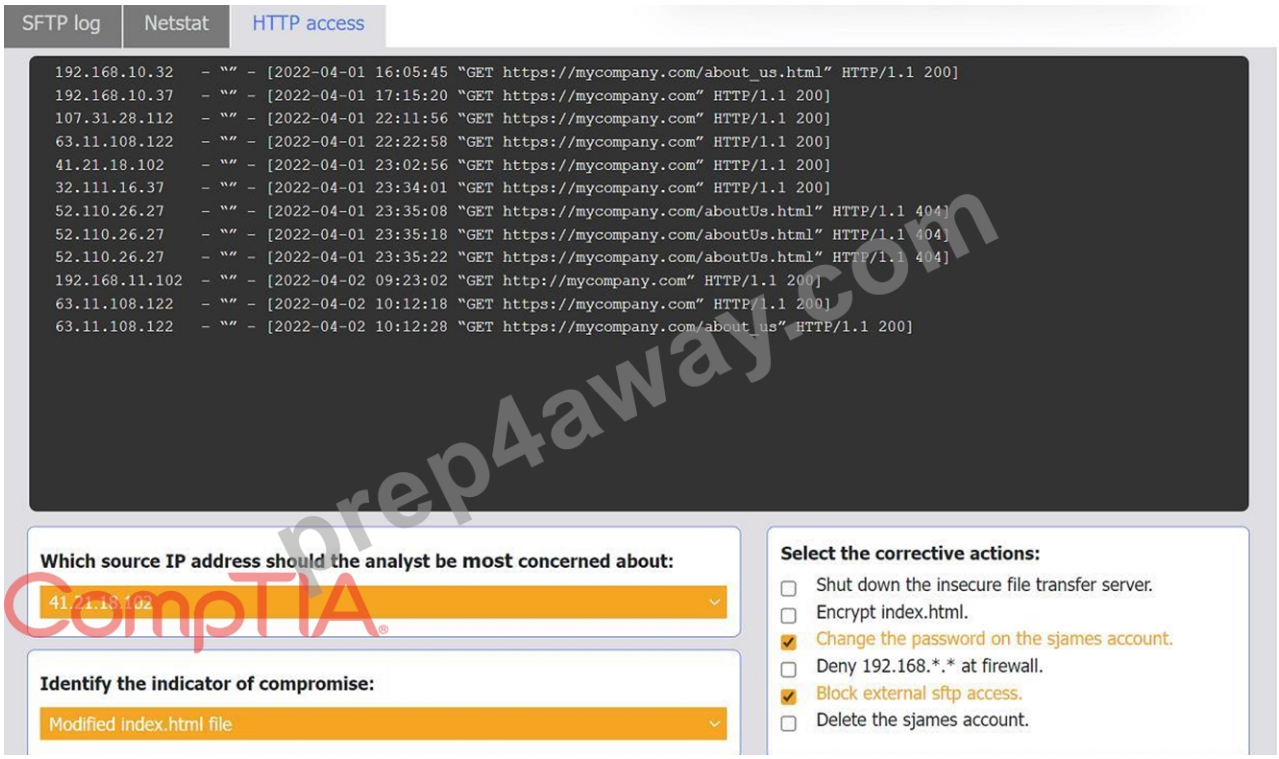


Answer:

Explanation:
see the explanation for step by step solution.
Explanation:
Step 1: Analyzing the SFTP Log
The SFTP log provides a record of file transfer and login activities:
* User "sjames" logged in from several IP addresses:
* 192.168.10.32 and 192.168.10.37 (internal network IPs)
* 32.111.16.37 and 41.21.18.102 (external IPs)
* We see file alterations in the /var/www directory, which is commonly the web directory.
* Modified files: about_us.html, index.html
* Suspicious activity:
* 192.168.11.102 and 41.21.18.102 modified the files.
* 32.111.16.37 had failed login attempts, indicating possible unauthorized access attempts.
The most suspicious IP here is 41.21.18.102, as it's associated with direct file modifications, possibly indicating unauthorized access.
Step 2: Reviewing Netstat
The netstat output shows active connections and their states:
* IP 41.21.18.102 has an ESTABLISHED connection with port 22, commonly used for SFTP.
* IP 32.111.16.37 is also attempting connections, and 32.111.16.37 connections are in a TIME_WAIT state, showing prior connections were recently closed.
The netstat output reaffirms 41.21.18.102 is actively connected and potentially involved in malicious activities.
Step 3: Checking the HTTP Access Log
The HTTP Access log shows access to about_us.html:
* 32.111.16.37 repeatedly accessed /about_us.html with 404 errors, indicating attempts to reach non- existing pages.
* 41.21.18.102 accessed the 200 status code, showing successful page requests, but since this IP was modifying files directly on the server, it might be testing or verifying changes.
Again, 41.21.18.102 stands out as it matches both successful file modification and page request patterns, while 32.111.16.37 shows unsuccessful attempts.
Step 4: Selecting the IP of Concern
Based on the above analysis:
* answer: 41.21.18.102 should be the IP of concern due to its direct file modifications on critical web files (about_us.html, index.html).
Step 5: Identifying the Indicator of Compromise
Potential indicators include unauthorized file modifications:
* Modified index.html file is the correct answer, as it indicates direct changes to website content and is often a clear sign of compromise.
Step 6: Selecting Corrective Actions
To mitigate and prevent further compromise:
* Change the password on the "sjames" account: The account was used across various IPs, indicating potential account compromise.
* Block external SFTP access: Restricting SFTP to internal IPs only would prevent unauthorized external modifications. Since 41.21.18.102 was external, this would stop similar threats.
Summary

* IP of Concern: 41.21.18.102
* Indicator of Compromise: Modified index.html file
* Corrective Actions:
* Change the password on the sjames account
* Block external SFTP access

These selections address both the immediate security breach and implement a preventative measure against future unauthorized access.



NEW QUESTION # 536
During an incident involving phishing, a security analyst needs to find the source of the malicious email.
Which of the following techniques would provide the analyst with this information?

- A. SSL inspection
- B. Packet capture
- C. Reverse engineering
- D. Header analysis

Answer: D

Explanation:
Header analysis is the technique of examining the metadata of an email, such as the sender, recipient, date, subject, and routing information. It can help to identify the source of a malicious email by revealing the IP address and domain name of the originator, as well as any spoofing or redirection attempts. References:
CompTIA CySA+ Study Guide: Exam CS0-003, 3rd Edition, Chapter 6, page 240; CompTIA CySA+ CS0-003 Certification Study Guide, Chapter 6, page 249.

NEW QUESTION # 537
After an upgrade to a new EDR, a security analyst received reports that several endpoints were not communicating with the SaaS provider to receive critical threat signatures. To comply with the incident response playbook, the security analyst was required to validate connectivity to ensure communications. The security analyst ran a command that provided the following output:
ComputerName: comptia007
RemotePort: 443
InterfaceAlias: Ethernet 3
TcpTestSucceeded: False
Which of the following did the analyst use to ensure connectivity?

- A. nmap
- B. tnc
- C. tracert
- D. ping

Answer: B

Explanation:
Comprehensive Detailed
The command output shown indicates that the analyst used a TCP connection test to check if communication on port 443 (usually HTTPS) succeeded. Here's why each option was or was not suitable:
A . nmap: While nmap can scan ports, it does not provide direct feedback on connection success or failure in the manner shown.
B . tnc (Test-NetConnection in PowerShell): This command in PowerShell is specifically designed to test connectivity to a specified port and IP address. The output (TcpTestSucceeded: False) is characteristic of the tnc command.
C . ping: The ping command only tests ICMP echo replies and does not indicate success or failure on specific ports.
D . tracert: tracert traces the path packets take to reach a host but does not provide a direct indication of port availability or success.
Reference:
Microsoft PowerShell Documentation: Test-NetConnection cmdlet, which details TCP port testing.
NIST SP 800-115: Technical Guide to Information Security Testing and Assessment, covering connectivity testing methods.

NEW QUESTION # 538
During a tabletop exercise, engineers discovered that an ICS could not be updated due to hardware versioning incompatibility. Which of the following is the most likely cause of this issue?

- A. Legacy system
- B. Configuration management
- C. Degrading functionality
- D. Business process interruption

Answer: A

Explanation:
The most likely cause of the issue where an ICS (Industrial Control System) could not be updated due to hardware versioning incompatibility is a legacy system. Legacy systems often have outdated hardware and software that may not be compatible with modern updates and patches. This can pose significant challenges in maintaining security and operational efficiency.

NEW QUESTION # 539
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