



CompTIA

Exam Questions CS0-002

CompTIA Cybersecurity Analyst (CySA+) Certification Exam

NEW QUESTION 1

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

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

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 3

Which of the following should be found within an organization's acceptable use policy?

- A. Passwords must be eight characters in length and contain at least one special character.
- B. Customer data must be handled properly, stored on company servers, and encrypted when possible
- C. Administrator accounts must be audited monthly, and inactive accounts should be removed.
- D. Consequences of violating the policy could include discipline up to and including termination.

Answer: D

NEW QUESTION 4

An organization is moving its infrastructure to the cloud in an effort to meet the budget and reduce staffing requirements. The organization has three environments: development, testing, and production. These environments have interdependencies but must remain relatively segmented.

Which of the following methods would BEST secure the company's infrastructure and be the simplest to manage and maintain?

- A. Create three separate cloud accounts for each environmen
- B. Configure account peering and security rules to allow access to and from each environment.
- C. Create one cloud account with one VPC for all environment
- D. Purchase a virtual firewall and create granular security rules.
- E. Create one cloud account and three separate VPCs for each environmen
- F. Create security rules to allow access to and from each environment.
- G. Create three separate cloud accounts for each environment and a single core account for network service
- H. Route all traffic through the core account.

Answer: C

NEW QUESTION 5

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 6

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

- A. A simulated breach scenario evolving the incident response team
- B. Completion of annual information security awareness training by 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 7

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

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

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

Answer: A

NEW QUESTION 8

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 9

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 10

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 10

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.

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 15

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 17

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 19

A company was recently awarded several large government contracts and wants to determine its current risk from one specific APT. Which of the following threat modeling methodologies would be the MOST appropriate to use during this analysis?

- A. Attack vectors
- B. Adversary capability
- C. Diamond Model of Intrusion Analysis
- D. Kill chain
- E. Total attack surface

Answer: B

NEW QUESTION 23

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 25

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

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

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

Answer: C

NEW QUESTION 27

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

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 28

A compliance officer of a large organization has reviewed the firm's vendor management program but has discovered there are no controls defined to evaluate third-party risk or hardware source authenticity. The compliance officer wants to gain some level of assurance on a recurring basis regarding the implementation of controls by third parties.

Which of the following would BEST satisfy the objectives defined by the compliance officer? (Choose two.)

- A. Executing vendor compliance assessments against the organization's security controls

- B. Executing NDAs prior to sharing critical data with third parties
- C. Soliciting third-party audit reports on an annual basis
- D. Maintaining and reviewing the organizational risk assessment on a quarterly basis
- E. Completing a business impact assessment for all critical service providers
- F. Utilizing DLP capabilities at both the endpoint and perimeter levels

Answer: AC

NEW QUESTION 32

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

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 37

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 42

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 44

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 45

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:

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 46

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

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 50

An information security analyst observes anomalous behavior on the SCADA devices in a power plant. This behavior results in the industrial generators overheating and destabilizing the power supply.

Which of the following would BEST identify potential indicators of compromise?

- A. Use Burp Suite to capture packets to the SCADA device's IP.
- B. Use tcpdump to capture packets from the SCADA device IP.
- C. Use Wireshark to capture packets between SCADA devices and the management system.
- D. Use Nmap to capture packets from the management system to the SCADA devices.

Answer: C

NEW QUESTION 52

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 53

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

Which of the following can be inferred from this activity?

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

Answer: D

NEW QUESTION 56

Which of the following sets of attributes BEST illustrates the characteristics of an insider threat from a security perspective?

- A. Unauthorized, unintentional, benign
- B. Unauthorized, intentional, malicious
- C. Authorized, intentional, malicious
- D. Authorized, unintentional, benign

Answer: C

NEW QUESTION 59

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

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

Answer: A

NEW QUESTION 62

A security analyst is reviewing the following web server log:

Which of the following BEST describes the issue?

- A. Directory traversal exploit
- B. Cross-site scripting
- C. SQL injection
- D. Cross-site request forgery

Answer: A

NEW QUESTION 66

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 68

Which of the following are components of the intelligence cycle? (Select TWO.)

- A. Collection
- B. Normalization
- C. Response
- D. Analysis
- E. Correction
- F. Dissension

Answer: BE

NEW QUESTION 71

A security analyst discovers a vulnerability on an unpatched web server that is used for testing machine learning on Bing Data sets. Exploitation of the vulnerability could cost the organization \$1.5 million in lost productivity. The server is located on an isolated network segment that has a 5% chance of being compromised. Which of the following is the value of this risk?

- A. \$75.000
- B. \$300.000
- C. \$1.425 million
- D. \$1.5 million

Answer: A

NEW QUESTION 76

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 77

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 79

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

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

Answer: D

NEW QUESTION 84

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

- A. Reverse engineering
- B. Application log collectors
- C. Workflow orchestration

- D. API integration
- E. Scripting

Answer: D

NEW QUESTION 86

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 87

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

The analyst runs the following command next:

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 89

A development team signed a contract that requires access to an on-premises physical server. Access must be restricted to authorized users only and cannot be connected to the Internet.

Which of the following solutions would meet this requirement?

- A. Establish a hosted SSO.
- B. Implement a CASB.
- C. Virtualize the server.
- D. Air gap the server.

Answer: D

NEW QUESTION 91

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 96

Because some clients have reported unauthorized activity on their accounts, a security analyst is reviewing network packet captures from the company's API server. A portion of a capture file is shown below:

```
POST /services/v1_0/Public/Members.svc/soap <s:Envelope+xmlns:s="http://schemas.s/soap/envelope/ "><s:Body><GetIPLocation+xmlns="http://tempuri.org/">
<request+xmlns:a="http://schemas.somesite.org"+xmlns:i="http://www.w3.org/2001/XMLSchema-instance "></s:Body></s:Envelope> 192.168.1.22 - -
api.somesite.com 200 0 1006 1001 0 192.168.1.22
POST /services/v1_0/Public/Members.svc/soap
<<a:Password>Password123</a:Password><a:ResetPasswordToken+i:nil="true"/>
<a:ShouldImpersonatedAuthenticationBePopulated+i:nil="true"/><a:Username>somebody@companyname.com 192.168.5.66 - - api.somesite.com 200 0 11558
1712 2024 192.168.4.89
POST /services/v1_0/Public/Members.svc/soap <s:Envelope+xmlns:s="
http://schemas.xmlsoap.org/soap/envelope/"><s:Body><GetIPLocation+xmlns="http://tempuri.org/">
<a:IPAddress>516.7.446.605</a:IPAddress><a:ZipCode+i:nil="true"/></request></GetIPLocation></s:Body>< 192.168.1.22 - - api.somesite.com 200 0 1003 1011
307 192.168.1.22
POST /services/v1_0/Public/Members.svc/soap <s:Envelope+xmlns:s="
http://schemas.xmlsoap.org/soap/envelope/"><s:Body><IsLoggedIn+xmlns="http://tempuri.org/">
<request+xmlns:a="http://schemas.datacontract.org/2004/07/somesite.web+xmlns:i="
http://www.w3.org/2001/XMLSchema-instance"><a:Authentication>
<a:ApiToken>kmL4krG2CwwWBan5BRcGv5Djb7syxXTNKcWfUjSjd</a:ApiToken><a:ImpersonateUserId>0
<a:NetworkId>4</a:NetworkId><a:ProviderId>"1=1</a:ProviderId><a:UserId>13026046</a:UserId></a:Authe 192.168.5.66 - - api.somesite.com 200 0 1378 1209
48 192.168.4.89
```

Which of the following MOST likely explains how the clients' accounts were compromised?

- A. The clients' authentication tokens were impersonated and replayed.

- B. The clients' usernames and passwords were transmitted in cleartext.
- C. An XSS scripting attack was carried out on the server.
- D. A SQL injection attack was carried out on the server.

Answer: A

NEW QUESTION 100

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 102

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 105

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 106

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 111

An analyst is performing penetration testing and vulnerability assessment activities against a new vehicle automation platform. Which of the following is MOST likely an attack vector that is being utilized as part of the testing and assessment?

- A. FaaS
- B. RTOS
- C. SoC
- D. GPS
- E. CAN bus

Answer: E

NEW QUESTION 115

After a breach involving the exfiltration of a large amount of sensitive data a security analyst is reviewing the following firewall logs to determine how the breach occurred:

Which of the following IP addresses does the analyst need to investigate further?

- A. 192.168.1.1
- B. 192.168.1.10
- C. 192.168.1.12
- D. 192.168.1.193

Answer: C

NEW QUESTION 118

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 123

A cybersecurity analyst is responding to an incident. The company's leadership team wants to attribute the incident to an attack group. Which of the following models would BEST apply to the situation?

- A. Intelligence cycle
- B. Diamond Model of Intrusion Analysis
- C. Kill chain
- D. MITRE ATT&CK

Answer: B

NEW QUESTION 124

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 126

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 129

A developer wrote a script to make names and other PII data unidentifiable before loading a database export into the testing system Which of the following describes the type of control that is being used?

- A. Data encoding
- B. Data masking
- C. Data loss prevention
- D. Data classification

Answer: C

NEW QUESTION 131

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 135

Which of the following roles is ultimately responsible for determining the classification levels assigned to specific data sets?

- A. Data custodian
- B. Data owner
- C. Data processor
- D. Senior management

Answer: B

NEW QUESTION 137

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 139

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

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

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

Answer: B

NEW QUESTION 141

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)
- B)
- C)
- D)

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

Answer: C

NEW QUESTION 145

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

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 149

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 150

A team of security analysts has been alerted to potential malware activity. The initial examination indicates one of the affected workstations is 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 criticality, 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.
- D. Identify potentially affected systems by creating a correlation search in the SIEM based on the network traffic.

Answer: D

NEW QUESTION 152

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 153

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 158

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 161

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 163

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.

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 164

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 167

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

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 171

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 176

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 180

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 182

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)
- B)
- C)
- D)
- E)

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

Answer: D

NEW QUESTION 187

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

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

Answer: D

NEW QUESTION 189

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

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

Answer: A

NEW QUESTION 190

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 193

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

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

Answer: A

NEW QUESTION 198

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 203

A large amount of confidential data was leaked during a recent security breach. As part of a forensic investigation, the security team needs to identify the various types of traffic that were captured between two compromised devices. Which of the following should be used to identify the traffic?

- A. Carving
- B. Disk imaging
- C. Packet analysis
- D. Memory dump
- E. Hashing

Answer: C

NEW QUESTION 205

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 209

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 213

Which of the following would a security engineer recommend to BEST protect sensitive system data from being accessed on mobile devices?

- A. Use a UEFI boot password.

- B. Implement a self-encrypted disk.
- C. Configure filesystem encryption
- D. Enable Secure Boot using TPM

Answer: A

NEW QUESTION 215

A security architect is reviewing the options for performing input validation on incoming web form submissions. Which of the following should the architect as the MOST secure and manageable option?

- A. Client-side whitelisting
- B. Server-side whitelisting
- C. Server-side blacklisting
- D. Client-side blacklisting

Answer: B

NEW QUESTION 216

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:

Tool B reported the following:

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 218

A security analyst received an alert from the SIEM indicating numerous login attempts from users outside their usual geographic zones, all of which were initiated through the web-based mail server. The logs indicate all domain accounts experienced two login attempts during the same time frame.

Which of the following is the MOST likely cause of this issue?

- A. A password-spraying attack was performed against the organization.
- B. A DDoS attack was performed against the organization.
- C. This was normal shift work activity; the SIEM's AI is learning.
- D. A credentialed external vulnerability scan was performed.

Answer: A

NEW QUESTION 220

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 224

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