

# CompTIA CySA+ CS0-003

# **100 Questions & Answers**

Welcome to your complete CySA+ CS0-003 practice questions collection.

This set is designed not just to test — but also to **teach**, **reinforce**, **and deepen your readiness for the real exam**.



# **Learning Objectives and Expectations**

# You'll get:

- Real-world style questions modeled after actual CompTIA CySA+ CS0-003
   scenarios
- Structured in sets of 10 questions followed by 10 answers for fast verification.
- Clear, concise explanations to help you understand the why behind each correct answer.

# CySA+ CS0-003 Domains

Each domain is weighted differently on the exam. **Security Operations** is the largest, focusing on analysis, detection, and monitoring.

- Domain 1: Security Operations (33%)
- Domain 2: Vulnerability Management (30%)
- Domain 3: Incident Response and Management (20%)
- Domain 4: Reporting and Communication (17%)



# **Quick Reminder: How the Exam Works**

• Number of Questions: Up to 85

• Question Types: Multiple Choice + Performance-Based Questions (PBQs)

• Time Limit: 165 minutes

• Passing Score: 750 / 900 (about 83%)

• Exam Delivery: Pearson VUE (in-person or online)

• Recommended Experience: Security+, Network

# **Questions by Domain**

Domain	Title	Questions Assigned	Question Numbers
Domain 1	Security Operations (33%)	33 Questions	Q1, Q3, Q6–7, Q10, Q13, Q16, Q20–21, Q23, Q25, Q30–31, Q34, Q37–38, Q41, Q43, Q52, Q60, Q63– 64, Q66, Q70, Q73, Q76–77, Q81– 82, Q84, Q87–88, Q90
Domain 2	Vulnerability Management (30%)	30 Questions	Q2, Q4–5, Q11–12, Q18–19, Q22, Q24, Q28–29, Q36, Q39, Q44–45, Q49, Q54, Q58, Q61, Q68–69, Q74– 75, Q79–80, Q86, Q96–97
Domain 3	Incident Response and Management (20%)	20 Questions	Q8–9, Q14–15, Q26–27, Q32, Q35, Q40, Q42, Q46–48, Q50–51, Q53, Q55, Q59, Q83, Q89, Q100
Domain 4	Reporting and Communication (17%)	17 Questions	Q17, Q33, Q56–57, Q62, Q65, Q67, Q71–72, Q78, Q85, Q91–95, Q98– 99

# Remember — You Don't Need to Be Perfect to Pass

The passing score for CySA+ is about **83**%. That means you can miss **up to 14 questions** and still pass.

Don't stress over a few tricky questions. What matters most is your ability to:

- Think like an analyst
- Prioritize and triage incidents
- · Analyze and respond under pressure
- Assess findings in context



# Questions 1–10

#### Q1.

What is the FIRST action an analyst should take when a critical alert is triggered in the SIEM?

- A) Notify executive leadership
- B) Delete the alert to avoid duplicates
- C) Investigate and validate the alert
- D) Reboot the affected system

### Q2.

Which of the following BEST describes a use case for a threat intelligence platform (TIP)?

- A) Encrypting outbound web traffic
- B) Automating remediation of alerts
- C) Aggregating indicators of compromise from external sources
- D) Creating firewall rules for internal VLANs

# Q3.

An attacker used stolen credentials to access a cloud console and launch cryptomining instances. Which ATT&CK tactic does this MOST align with?

- A) Execution
- B) Credential Access
- C) Initial Access
- D) Impact

# Q4.

What type of scanning provides the most comprehensive results by logging into the host system during scanning?

- A) External
- B) Passive
- C) Credentialed
- D) Non-credentialed

# Q5.

Which of the following is a PRIMARY function of a SOAR platform?

A) Encrypting SIEM logs



- B) Generating monthly compliance reports
- C) Automating and orchestrating security response workflows
- D) Detecting zero-day threats in network packets

# Q6.

What type of vulnerability allows an attacker to include and execute unauthorized local files on a web server?

- A) XSS
- B) LFI
- C) CSRF
- D) SQLi

### Q7.

An analyst is reviewing logs and notices a workstation making DNS requests every 30 seconds to random subdomains. What type of activity is this MOST likely?

- A) Normal DNS load balancing
- B) DNS exfiltration using data tunneling
- C) Load testing from an internal script
- D) Endpoint antivirus signature update

# Q8.

Which of the following actions would MOST likely occur during the containment phase of incident response?

- A) Generating a public incident report
- B) Blocking malicious IP addresses
- C) Performing forensic imaging of affected endpoints
- D) Analyzing root cause of the incident

# Q9.

What log source would BEST help detect brute-force attempts against an SSH server?

- A) Web server logs
- B) Packet captures from DNS
- C) /var/log/auth.log
- D) Antivirus quarantine logs

#### Q10.

Which of the following attack types relies on abusing legitimate system tools like



PowerShell or WMI?

- A) Watering hole
- B) Living off the Land
- C) SQL Injection
- D) Cross-Site Scripting

# **Answers 1–10**

### **A1.**

Answer: C) Investigate and validate the alert

**Explanation:** The analyst must first confirm whether the alert is real before escalating or acting on it.

#### A2.

Answer: C) Aggregating indicators of compromise from external sources Explanation: A Threat Intelligence Platform (TIP) collects, enriches, and correlates IOCs from multiple sources to enhance threat awareness.

#### **A3.**

**Answer: D) Impact** 

**Explanation:** Cryptomining consumes resources and causes business disruption, which aligns with the Impact tactic in MITRE ATT&CK.

# A4.

**Answer: C) Credentialed** 

and remediation tasks.

**Explanation:** Credentialed scans log into the host to provide accurate, in-depth vulnerability detection.

#### A5.

Answer: C) Automating and orchestrating security response workflows Explanation: SOAR tools are designed to automate and streamline incident response



A6.

Answer: B) LFI

**Explanation:** Local File Inclusion (LFI) allows attackers to trick a web app into

executing or revealing files on the server.

A7.

Answer: B) DNS exfiltration using data tunneling

**Explanation:** Frequent DNS queries with randomized subdomains are common in

covert data exfiltration via DNS tunneling.

**A8.** 

Answer: B) Blocking malicious IP addresses

**Explanation:** Containment is about stopping the threat from spreading — blocking C2

IPs is a key tactic.

A9.

Answer: C) /var/log/auth.log

Explanation: On Linux systems, this log contains authentication attempts and is key for

identifying brute-force login behavior.

A10.

Answer: B) Living off the Land

Explanation: Living off the Land (LotL) techniques abuse legitimate tools like

PowerShell to evade detection.



# Questions 11–20

## Q11.

A vulnerability scanner reports that a public-facing server has OpenSSL 1.0.1e installed. What should an analyst do NEXT to validate the finding?

- A) Submit a risk acceptance form
- B) Launch a denial-of-service test
- C) Check the actual version running on the host
- D) Ignore the finding as a false positive

#### Q12.

Which of the following BEST describes an IOC?

- A) Security policy defining user access
- B) Behavior profile used for insider threat detection
- C) Evidence of a security breach or compromise
- D) Traffic log showing bandwidth consumption

# Q13.

During a threat hunt, an analyst uses MITRE ATT&CK to map observed behavior. What is the PRIMARY reason to use this framework?

- A) To validate patch management effectiveness
- B) To build password policies
- C) To track and categorize adversary tactics
- D) To document log retention policies

#### Q14.

Which of the following would MOST likely be used to analyze an unknown binary in a safe environment?

- A) IDS
- B) SIEM
- C) Sandbox
- D) Load balancer

# Q15.

What type of control is an organization using when it forces password changes every 90 days via a policy?

A) Physical



- B) Technical
- C) Administrative
- D) Corrective

#### Q16.

Which of the following is the MOST effective way to reduce alert fatigue in a SOC?

- A) Hire more Tier 1 analysts
- B) Add more detection rules
- C) Tune SIEM use cases and reduce false positives
- D) Limit alerting to critical systems only

#### Q17.

An analyst identifies a file named invoice.scr sent via email. What's the MOST likely reason this is suspicious?

- A) It's a Microsoft Office document
- B) SCR files are typically legitimate invoices
- C) The file type is an executable disguised as a document
- D) SCR files are used by Adobe

#### Q18.

Which component of the Diamond Model identifies the malware or exploit used in an attack?

- A) Victim
- B) Infrastructure
- C) Capability
- D) Adversary

# Q19.

An organization cannot patch a critical server due to application dependencies. What should be done NEXT?

- A) Take the server offline
- B) Disable logging temporarily
- C) Apply a compensating control
- D) Remove all admin accounts

#### Q20.

An attacker exploits a misconfigured S3 bucket to access public files. What type of



vulnerability is this?

- A) Injection
- B) Cryptographic failure
- C) Insecure configuration
- D) Broken authentication

# Answers 11-20

#### A11.

Answer: C) Check the actual version running on the host

**Explanation:** Always validate scan findings by confirming software versions manually before escalating or patching.

# A12.

Answer: C) Evidence of a security breach or compromise

**Explanation:** IOCs are signs that a system or environment has been attacked or

breached.

### A13.

Answer: C) To track and categorize adversary tactics

Explanation: MITRE ATT&CK is used to map attacker behavior to known tactics and

techniques.

#### A14.

**Answer: C) Sandbox** 

**Explanation:** A sandbox allows analysts to execute suspicious files in isolation to

observe behavior safely.

#### A15.

**Answer: C) Administrative** 

**Explanation:** Policies like password expiration are administrative controls—they guide user behavior.

# A16.

Answer: C) Tune SIEM use cases and reduce false positives



**Explanation:** Alert fatigue is best addressed by tuning the SIEM to reduce noise and increase alert relevance.

#### A17.

Answer: C) The file type is an executable disguised as a document

**Explanation:** .scr is an executable file type (screensaver), often used to bypass filters by masquerading as documents.

#### A18.

Answer: C) Capability

**Explanation:** In the Diamond Model, Capability refers to the tools, malware, or

techniques used by the attacker.

#### A19.

Answer: C) Apply a compensating control

**Explanation:** If a patch can't be applied, use network segmentation, stricter firewall

rules, or enhanced monitoring to reduce risk.

#### A20.

**Answer: C) Insecure configuration** 

**Explanation:** A misconfigured storage bucket exposing data is an example of poor configuration, not a code flaw.



# Questions 21–30

## Q21.

An attacker performs a scan and finds port 3389 open on a server. What service is MOST likely being targeted?

- A) FTP
- B) SSH
- C) RDP
- D) SMTP

#### Q22.

What type of scan would BEST simulate an external attacker probing an organization's perimeter?

- A) Internal, credentialed
- B) External, non-credentialed
- C) Internal, agent-based
- D) External, credentialed

# Q23.

Which of the following tools would MOST likely be used to search historical log data for failed login patterns?

- A) Nmap
- B) Splunk
- C) Wireshark
- D) OpenVAS

# Q24.

An analyst sees a surge in outbound traffic from a workstation late at night. What's the BEST next step?

- A) Reboot the machine
- B) Escalate to HR
- C) Investigate logs for possible data exfiltration
- D) Email the user to ask what they were doing

# Q25.

Which of the following frameworks is designed to describe attacker behavior across various phases like Initial Access and Lateral Movement?



- A) NIST
- B) STRIDE
- C) MITRE ATT&CK
- D) Cyber Kill Chain

# Q26.

An analyst is investigating a phishing email. What element in the email header should be examined to verify the sender?

- A) Subject line
- B) DKIM signature
- C) Font size
- D) Image alt text

#### Q27.

Which of the following log sources would BEST identify a brute-force attack against a web application login form?

- A) Firewall logs
- B) Apache access logs
- C) Antivirus logs
- D) DHCP logs

# Q28.

What is the PRIMARY benefit of applying a zero trust model in network design?

- A) It removes the need for firewalls
- B) It limits insider threat by enforcing strict access validation
- C) It allows shared admin credentials across departments
- D) It blocks all encrypted traffic by default

# Q29.

An attacker uses a macro inside a Word document to download and run malware. What technique does this represent?

- A) Defense Evasion
- B) Lateral Movement
- C) Initial Access
- D) Persistence



# Q30.

What type of response is being used if an IDS alert triggers an automatic firewall rule to block an IP address?

- A) Passive
- B) Forensic
- C) Manual
- D) Automated

# Answers 21–30

#### A21.

Answer: C) RDP

**Explanation:** Port 3389 is the default port for Remote Desktop Protocol (RDP), commonly used in attacks for remote access.

#### A22.

Answer: B) External, non-credentialed

**Explanation:** This type of scan mimics how an outsider with no credentials would see the network.

# A23.

**Answer: B) Splunk** 

Explanation: Splunk is a SIEM tool designed to analyze and search large volumes of

logs.

### A24.

Answer: C) Investigate logs for possible data exfiltration

**Explanation:** A sudden spike in outbound traffic, especially at off-hours, may indicate data being stolen.

### A25.

**Answer: C) MITRE ATT&CK** 

**Explanation:** MITRE ATT&CK provides detailed mapping of adversary tactics and techniques throughout the attack lifecycle.



A26.

**Answer: B) DKIM signature** 

**Explanation:** DomainKeys Identified Mail (DKIM) is used to verify the authenticity of an

email's sender domain.

A27.

Answer: B) Apache access logs

Explanation: Web server logs (like Apache) show repeated login attempts that could

indicate brute-force attacks.

A28.

Answer: B) It limits insider threat by enforcing strict access validation

**Explanation:** Zero Trust assumes no implicit trust — every access must be verified,

reducing risks even from internal users.

A29.

**Answer: C) Initial Access** 

**Explanation:** Using a malicious document to gain entry is part of the initial access

phase in an attack chain.

A30.

**Answer: D) Automated** 

**Explanation:** When detection tools trigger pre-defined actions (like blocking IPs), it's an

automated response.



# Questions 31–40

#### Q31.

Which of the following BEST describes the function of a SIEM?

- A) Provides DNS resolution
- B) Blocks unauthorized USB devices
- C) Collects and correlates log data for analysis
- D) Performs full-disk encryption

### Q32.

What term refers to a threat that is specifically crafted to avoid detection by antivirus and other automated tools?

- A) Logic bomb
- B) Zero-day
- C) Polymorphic malware
- D) Spyware

# Q33.

A vulnerability is discovered in a legacy system that cannot be patched. What's the BEST approach?

- A) Accept the risk and take no further action
- B) Reboot the system regularly
- C) Apply compensating controls and isolate the system
- D) Disable all monitoring to reduce alert fatigue

#### Q34.

Which of the following log types would BEST help trace lateral movement in a Windows domain environment?

- A) DNS logs
- B) Active Directory authentication logs
- C) Antivirus quarantine logs
- D) DHCP lease logs

# Q35.

What is the PRIMARY goal of the recovery phase in incident response?

- A) Identify the root cause of the incident
- B) Publicly disclose the incident



- C) Return systems to normal operation securely
- D) Shut down all affected assets permanently

## Q36.

What's the BEST method to reduce the attack surface of a Windows server?

- A) Install a faster SSD
- B) Disable unnecessary services and ports
- C) Increase CPU cores
- D) Enable screen savers with password

#### Q37.

Which framework outlines seven stages from Reconnaissance to Actions on Objectives?

- A) Diamond Model
- B) STRIDE
- C) MITRE ATT&CK
- D) Cyber Kill Chain

# Q38.

Which of the following is an example of an indicator of attack (IOA) rather than an indicator of compromise (IOC)?

- A) Known malware hash found on disk
- B) Registry key altered by ransomware
- C) Unusual use of PowerShell during normal business hours
- D) Outbound traffic to a known malicious IP

## Q39.

What is the PRIMARY purpose of using a honeypot in an enterprise environment?

- A) Encrypt sensitive data
- B) Divert attackers and study their behavior
- C) Act as a backup domain controller
- D) Replace IDS/IPS devices

#### Q40.

Which metric is MOST useful when evaluating how quickly an organization detects threats?

A) CVSS score



- B) SLA rating
- C) MTTD
- D) RTO

# Answers 31–40

#### A31.

Answer: C) Collects and correlates log data for analysis

**Explanation:** SIEM platforms aggregate logs from multiple systems and analyze them for signs of malicious activity.

#### A32.

Answer: C) Polymorphic malware

**Explanation:** Polymorphic malware constantly changes its code to evade detection mechanisms.

#### A33.

Answer: C) Apply compensating controls and isolate the system

**Explanation:** If patching is not possible, use compensating controls like network isolation or enhanced monitoring.

### A34.

**Answer: B) Active Directory authentication logs** 

**Explanation:** AD logs show login events and can reveal lateral movement through account activity across systems.

# A35.

Answer: C) Return systems to normal operation securely

**Explanation:** Recovery aims to restore services and systems in a safe, validated manner post-incident.

#### A36.

Answer: B) Disable unnecessary services and ports



**Explanation:** Reducing the number of exposed services and ports minimizes the attack surface of any system.

A37.

Answer: D) Cyber Kill Chain

Explanation: The Cyber Kill Chain includes Recon, Weaponization, Delivery,

Exploitation, Installation, C2, and Actions.

A38.

Answer: C) Unusual use of PowerShell during normal business hours

**Explanation:** IOAs indicate behavior patterns (like live attacks), whereas IOCs are

artifacts of past compromise.

A39.

Answer: B) Divert attackers and study their behavior

**Explanation:** Honeypots are decoy systems designed to lure attackers and gather

intelligence on their techniques.

A40.

Answer: C) MTTD

Explanation: Mean Time to Detect (MTTD) measures how quickly threats are identified

after they begin.



# Questions 41–50

#### Q41.

Which of the following BEST describes a "false positive" in a SIEM alert?

- A) An alert that accurately detects malicious activity
- B) A real attack that goes undetected
- C) A benign activity incorrectly flagged as malicious
- D) A user who reports a phishing email

#### Q42.

What type of control is an automated system that isolates infected endpoints once malware is detected?

- A) Physical
- B) Detective
- C) Preventive
- D) Corrective

# Q43.

Which of the following is MOST useful for tracking unauthorized changes to critical system files?

- A) NetFlow
- B) Host-based IDS
- C) DNS sinkhole
- D) Router ACL

#### Q44.

Which technique is commonly used by attackers to evade signature-based detection?

- A) Reverse shell
- B) Port knocking
- C) Packet fragmentation
- D) Code obfuscation

#### Q45.

An organization is reviewing user activity during an insider threat investigation. Which data source is MOST useful?

- A) SIEM alerts
- B) Firewall logs



- C) User behavior analytics (UBA)
- D) DNS request logs

#### Q46.

What type of threat involves users intentionally or unintentionally causing harm from within the organization?

- A) Insider threat
- B) Nation-state
- C) External threat actor
- D) Script kiddie

#### Q47.

What is the BEST response if a phishing simulation shows that 30% of users clicked a fake link?

- A) Disable user accounts
- B) Remove email access
- C) Provide targeted awareness training
- D) Fire employees who clicked

#### Q48.

What type of log would BEST show details about application-layer activity on a web server?

- A) Firewall logs
- B) Syslog
- C) Web server access logs
- D) Antivirus event logs

# Q49.

During a red team exercise, simulated attackers successfully exfiltrate data. What should the blue team do FIRST?

- A) Wipe the servers
- B) Update SIEM software
- C) Validate and document the findings
- D) Escalate to federal law enforcement

#### Q50.

What's the PRIMARY benefit of integrating threat intelligence into SIEM workflows?



- A) Encrypt all SIEM traffic
- B) Allow real-time response to network outages
- C) Enrich alerts with external context for faster triage
- D) Automatically patch vulnerable software

# Answers 41–50

### A41.

Answer: C) A benign activity incorrectly flagged as malicious

**Explanation:** A false positive is when a detection system triggers an alert for something that's actually harmless.

#### A42.

**Answer: D) Corrective** 

**Explanation:** Isolating an endpoint to stop malware spread is a corrective control — it addresses damage already done.

# A43.

Answer: B) Host-based IDS

**Explanation:** HIDS monitors system-level changes such as file modifications, which can reveal unauthorized tampering.

#### A44.

**Answer: D) Code obfuscation** 

**Explanation:** Obfuscation disguises malware code to bypass signature-based antivirus and detection tools.

#### A45.

Answer: C) User behavior analytics (UBA)

**Explanation:** UBA detects anomalies in user behavior patterns that may indicate insider threats.

#### A46.

**Answer: A) Insider threat** 



**Explanation:** An insider threat comes from within the organization, whether intentional or accidental.

### A47.

Answer: C) Provide targeted awareness training

**Explanation:** Follow-up training helps reduce future phishing risk and is a positive, constructive response.

# A48.

Answer: C) Web server access logs

**Explanation:** Web access logs contain HTTP requests, status codes, and client IPs — useful for application-level review.

#### A49.

**Answer: C) Validate and document the findings** 

**Explanation:** During a red team exercise, the first step is to validate what occurred and document it for analysis.

#### A50.

Answer: C) Enrich alerts with external context for faster triage

**Explanation:** Threat intelligence integration helps analysts prioritize alerts by linking them to known threats.



# **Questions 51–60**

#### Q51.

Which of the following would BEST help identify a persistent threat on an endpoint after reboot?

- A) Packet sniffer
- B) Volatile memory dump
- C) Scheduled task and registry inspection
- D) DNS query analysis

#### Q52.

A SOC analyst receives an alert for multiple failed logins followed by a successful login from the same IP. What is the MOST likely explanation?

- A) Reconnaissance
- B) Brute-force attack
- C) Drive-by download
- D) Misconfigured firewall

# Q53.

What is the FIRST step in conducting a root cause analysis after a security incident?

- A) Isolate affected systems
- B) Interview stakeholders
- C) Review logs and available evidence
- D) Update firewall rules

#### Q54.

Which of the following BEST defines a compensating control?

- A) Control used to prevent social engineering
- B) Backup control when primary is too expensive or infeasible
- C) Control that verifies password strength
- D) Legal requirement for HIPAA compliance

#### Q55.

What tactic in the MITRE ATT&CK framework involves attackers creating new user accounts to maintain access?

- A) Privilege Escalation
- B) Defense Evasion



- C) Persistence
- D) Credential Access

#### Q56.

Which protocol is commonly used for time synchronization and is important for correlating logs across systems?

- A) DHCP
- B) FTP
- C) SNMP
- D) NTP

#### Q57.

What is the PRIMARY purpose of a post-incident review (lessons learned)?

- A) Punish the team that missed the alert
- B) Notify law enforcement
- C) Improve processes and reduce future risk
- D) Restore data from backups

# Q58.

Which of the following is a behavioral-based detection method?

- A) Checking MD5 hash against VirusTotal
- B) Using a YARA rule for signature matching
- C) Detecting use of PowerShell at 2AM on a sales user laptop
- D) Scanning a ZIP file with antivirus

#### Q59.

An attacker scans a web application and sends payloads like ../../../etc/passwd in input fields. What type of attack is this?

- A) Cross-Site Scripting
- B) Directory Traversal
- C) Command Injection
- D) CSRF

#### Q60.

Which control type MOST directly supports the "Detection" function of the NIST Cybersecurity Framework?

A) SIEM



- B) Firewall
- C) Backup system
- D) MFA

# **Answers 51–60**

#### A51.

Answer: C) Scheduled task and registry inspection

**Explanation:** Persistent malware often uses scheduled tasks or registry keys to reexecute after reboot.

#### A52.

Answer: B) Brute-force attack

**Explanation:** Multiple failed login attempts followed by a success typically indicates a brute-force attack.

#### A53.

Answer: C) Review logs and available evidence

**Explanation:** Understanding what happened starts with analyzing the available data before taking other actions.

### A54.

Answer: B) Backup control when primary is too expensive or infeasible

**Explanation:** A compensating control provides an alternative safeguard when the ideal control isn't possible.

# A55.

**Answer: C) Persistence** 

**Explanation:** Creating new accounts is a method used by attackers to maintain long-term access—classified under persistence.

#### A56.

**Answer: D) NTP** 



**Explanation:** Network Time Protocol (NTP) ensures consistent timestamps across logs and systems.

A57.

Answer: C) Improve processes and reduce future risk

**Explanation:** The main goal of post-incident reviews is to identify what went wrong and

how to prevent recurrence.

A58.

Answer: C) Detecting use of PowerShell at 2AM on a sales user laptop

**Explanation:** This is a behavior anomaly detection—indicating suspicious use based on

context.

A59.

**Answer: B) Directory Traversal** 

**Explanation:** Using ../../ attempts to access files outside of the allowed directory.

A60.

Answer: A) SIEM

**Explanation:** A SIEM is central to detection—it collects, correlates, and alerts on

suspicious activity.



# Questions 61–70

#### Q61.

Which of the following would MOST likely detect suspicious file access patterns on a user's workstation?

- A) Network firewall
- B) Host-based intrusion detection system (HIDS)
- C) Router ACL
- D) DNS log analysis

#### Q62.

Which regulatory framework is focused on protecting healthcare data in the United States?

- A) GDPR
- B) SOX
- C) HIPAA
- D) NIST CSF

# Q63.

An attacker gains access to an employee's email and sends phishing messages internally. Which MITRE ATT&CK tactic is being used?

- A) Credential Access
- B) Initial Access
- C) Lateral Movement
- D) Execution

# Q64.

What would be the BEST next step after identifying the presence of malware on a business-critical server?

- A) Immediately shut down the server
- B) Wipe and rebuild the server
- C) Perform containment and preserve forensic evidence
- D) Notify all customers

# Q65.

Which of the following BEST explains the use of the CVSS score in vulnerability management?



- A) Prioritizes which threats are trending in social media
- B) Scores business risk for insurance purposes
- C) Rates severity of vulnerabilities to support prioritization
- D) Assigns legal responsibility for a data breach

# Q66.

Which tool is BEST used to analyze suspicious outbound connections from endpoints?

- A) Firewall ruleset
- B) Wireshark
- C) Nessus
- D) OpenVAS

# Q67.

What is the PRIMARY benefit of using YARA rules in a malware investigation?

- A) Prevent brute-force attacks
- B) Block command-line tools
- C) Match malware patterns for detection
- D) Perform port scanning

#### Q68.

Which incident response phase involves removing malware and fixing vulnerabilities?

- A) Containment
- B) Eradication
- C) Detection
- D) Recovery

## Q69.

Which of the following BEST describes "mean time to recover" (MTTR)?

- A) Time between incident start and first alert
- B) Time to fully restore operations after an incident
- C) Time to detect a phishing email
- D) Time between patching cycles

#### Q70.

What is the PRIMARY purpose of a change management policy in cybersecurity operations?

A) Ensure all updates are installed automatically



- B) Allow all developers to make production changes freely
- C) Prevent unapproved or untracked modifications
- D) Disable redundant system features

# Answers 61–70

#### A61.

Answer: B) Host-based intrusion detection system (HIDS)

**Explanation:** HIDS monitors file and process activity on individual hosts, helping detect local anomalies.

#### A62.

**Answer: C) HIPAA** 

**Explanation:** HIPAA governs the privacy and security of protected health information (PHI) in the U.S.

#### A63.

**Answer: C) Lateral Movement** 

**Explanation:** Using a compromised internal account to spread phishing is lateral movement within the network.

### A64.

Answer: C) Perform containment and preserve forensic evidence

**Explanation:** The priority is to stop spread and collect evidence before rebooting or wiping systems.

### A65.

Answer: C) Rates severity of vulnerabilities to support prioritization

**Explanation:** CVSS provides a numerical rating of how dangerous a vulnerability is, guiding patching efforts.

#### A66.

**Answer: B) Wireshark** 



**Explanation:** Wireshark captures and analyzes network packets, ideal for spotting suspicious outbound traffic.

A67.

Answer: C) Match malware patterns for detection

**Explanation:** YARA rules help analysts detect known malware by matching specific

patterns in files or memory.

A68.

**Answer: B) Eradication** 

**Explanation:** This phase involves removing threats and fixing exploited vulnerabilities to

prevent recurrence.

A69.

Answer: B) Time to fully restore operations after an incident

**Explanation:** MTTR measures the time needed to recover operations to a normal,

functional state.

A70.

Answer: C) Prevent unapproved or untracked modifications

**Explanation:** Change management ensures that system changes are reviewed, tested, and approved before deployment.

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# Questions 71–80

## Q71.

Which of the following techniques would MOST effectively help identify vulnerable open ports on internal systems?

- A) Log review
- B) Nmap scan
- C) NetFlow analysis
- D) DNS lookup

### Q72.

Which security concept ensures that a user cannot deny performing an action, such as sending an email?

- A) Confidentiality
- B) Non-repudiation
- C) Least privilege
- D) Integrity

# Q73.

An organization uses a security tool to simulate malware attacks in a sandbox to observe behavior. What is this process called?

- A) Reverse engineering
- B) Behavioral analysis
- C) Fuzz testing
- D) Static analysis

# Q74.

Which logging feature BEST supports proper forensic investigations?

- A) Syslog formatting
- B) Remote logging
- C) High-frequency log rotation
- D) Obfuscating sensitive log data

# Q75.

What is the PRIMARY purpose of a vulnerability scan schedule?

- A) Detect data exfiltration attempts
- B) Ensure regular identification of weaknesses



- C) Block malicious traffic before it enters
- D) Monitor baseline network behavior

#### Q76.

Which of the following is MOST helpful in detecting credential stuffing attacks?

- A) Increased CPU load
- B) Excessive 200 OK HTTP responses
- C) Spike in failed login attempts across multiple accounts
- D) Elevated DNS traffic

# Q77.

An attacker uses a script that submits thousands of login attempts using different usernames and passwords. What type of attack is this?

- A) Password spraying
- B) Brute-force
- C) Cross-site request forgery
- D) Credential harvesting

# Q78.

Which control type BEST describes a legal document that outlines expectations of third-party vendors handling sensitive data?

- A) Preventive
- B) Administrative
- C) Technical
- D) Detective

## Q79.

What log file is MOST useful to analyze user login failures on a Linux system?

- A) /var/log/messages
- B) /var/log/dmesg
- C) /var/log/auth.log
- D) /var/log/cron

#### Q80.

Which of the following would MOST likely appear in a DAST scan report?

- A) Missing firewall rule
- B) Open port 445



- C) SQL injection vulnerability
- D) Incorrect file permissions

# Answers 71–80

#### A71.

Answer: B) Nmap scan

**Explanation:** Nmap actively scans networks and systems for open ports and services.

### A72.

Answer: B) Non-repudiation

**Explanation:** Non-repudiation ensures that actions can be tied to individuals, often using digital signatures.

#### A73.

Answer: B) Behavioral analysis

**Explanation:** Observing a file's runtime behavior in a sandbox is behavioral analysis.

# A74.

**Answer: B) Remote logging** 

**Explanation:** Logging to a remote system prevents tampering and preserves evidence for forensic use.

#### A75.

**Answer: B) Ensure regular identification of weaknesses** 

**Explanation:** Scheduled scans help continuously detect vulnerabilities as systems and software change.

#### A76.

Answer: C) Spike in failed login attempts across multiple accounts

**Explanation:** Credential stuffing involves rapid login attempts across many accounts using leaked credentials.



A77.

**Answer: B) Brute-force** 

**Explanation:** Brute-force attacks try numerous username-password combinations

until access is gained.

A78.

**Answer: B) Administrative** 

Explanation: Contracts and policies are administrative controls that define security

expectations and obligations.

A79.

Answer: C) /var/log/auth.log

**Explanation:** This log tracks authentication attempts and failures on most Linux

systems.

A80.

Answer: C) SQL injection vulnerability

**Explanation:** DAST tools test running applications and often identify input-based

vulnerabilities like SQLi.



# **Questions 81–90**

## Q81.

What is the PRIMARY objective of the containment phase in the incident response lifecycle?

- A) Prevent further spread or damage
- B) Eliminate all malicious files
- C) Restore normal operations immediately
- D) Notify all affected users

#### Q82.

An alert indicates multiple failed login attempts followed by a successful login and unusual outbound traffic. Which tactic in MITRE ATT&CK is most aligned?

- A) Discovery
- B) Execution
- C) Exfiltration
- D) Privilege Escalation

# Q83.

Which of the following would BEST detect unauthorized software being installed on endpoints?

- A) Web proxy
- B) NetFlow
- C) Host-based IDS
- D) Firewall

# Q84.

Which document formally outlines procedures, roles, and responsibilities during security events?

- A) Service Level Agreement (SLA)
- B) Incident Response Plan (IRP)
- C) Data Loss Prevention Policy
- D) Acceptable Use Policy (AUP)

# Q85.

Which of the following is a characteristic of a zero-day vulnerability?

A) It's publicly disclosed but not yet exploited



- B) It's already patched by vendors
- C) It's unknown to the vendor and has no available fix
- D) It requires physical access to exploit

# Q86.

A security team uses automation to enrich alerts with threat intelligence before analyst review. What is this an example of?

- A) SIEM alert tuning
- B) PBQ execution
- C) SOAR orchestration
- D) Penetration testing

# Q87.

What is a key benefit of centralizing logs in a SIEM?

- A) It reduces the need for encryption
- B) It eliminates insider threats
- C) It enables correlation and pattern detection
- D) It replaces antivirus software

#### Q88.

An attacker scans for devices using default SNMP community strings. What are they MOST likely trying to exploit?

- A) Privilege escalation
- B) Insecure API endpoints
- C) Misconfigured management interfaces
- D) SSL certificate weaknesses

# Q89.

What should analysts review FIRST when triaging a new alert in the SIEM?

- A) The company's security awareness policy
- B) Threat intelligence reports from third parties
- C) Contextual data: asset, user, and source information
- D) The firewall vendor's patch history

## Q90.

Which of the following is an example of a detective control?

A) Firewall blocking access



- B) Antivirus deleting malware
- C) IDS logging and alerting on port scan activity
- D) VPN requiring MFA

# Answers 81-90

#### A81.

Answer: A) Prevent further spread or damage

**Explanation:** Containment aims to isolate the threat before it can move laterally or escalate.

#### A82.

**Answer: C) Exfiltration** 

**Explanation:** Unusual outbound traffic after compromise suggests data is being exfiltrated.

#### A83.

Answer: C) Host-based IDS

**Explanation:** HIDS can detect unauthorized software installations or changes to system files.

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A84.

**Answer: B) Incident Response Plan (IRP)** 

**Explanation:** The IRP defines roles, escalation paths, and procedures during security incidents.

A85.

Answer: C) It's unknown to the vendor and has no available fix

**Explanation:** A zero-day is a previously unknown vulnerability with no patch at the time of discovery or exploitation.

A86.

**Answer: C) SOAR orchestration** 



**Explanation:** SOAR automates and orchestrates response actions, such as enriching alerts with intel before review.

#### A87.

Answer: C) It enables correlation and pattern detection

**Explanation:** SIEMs centralize logs to identify connections across multiple data

sources for threat detection.

#### A88.

**Answer: C) Misconfigured management interfaces** 

**Explanation:** SNMP with default community strings is often used in management

interfaces, which attackers target for reconnaissance or control.

#### A89.

Answer: C) Contextual data: asset, user, and source information

**Explanation:** Understanding what system or user is involved helps analysts assess the

alert's risk and validity quickly.

#### A90.

Answer: C) IDS logging and alerting on port scan activity

**Explanation:** Detective controls monitor for malicious behavior and alert security

teams without blocking.



# **Questions 91–100**

# Q91.

Which term describes the likelihood that a vulnerability will be exploited, combined with the impact of that exploitation?

- A) Exposure
- B) Compliance
- C) Risk
- D) Residual threat

#### Q92.

An analyst uses historical data to detect activity that deviates from normal behavior. What method is being used?

- A) Signature-based detection
- B) Anomaly-based detection
- C) Whitelisting
- D) Rule-based correlation

# Q93.

What does the "T" in the TTPs acronym stand for in cybersecurity threat analysis?

- A) Trigger
- B) Tactic
- C) Timeframe
- D) Transport

#### Q94.

What is the MOST effective way to ensure log integrity during a forensic investigation?

- A) Obfuscate PII from logs
- B) Rotate logs every 24 hours
- C) Use centralized logging with hashing
- D) Enable SNMP traps

#### Q95.

Which security principle focuses on ensuring that systems and data are accessible when needed?

- A) Integrity
- B) Resilience



- C) Availability
- D) Redundancy

#### Q96.

Which tool would BEST help a security analyst identify vulnerabilities in systems that are already deployed in production?

- A) Nmap
- B) Nikto
- C) Nessus
- D) Wireshark

#### Q97.

During a routine scan, a system is flagged for having port 445 open. What service is likely exposed?

- A) SSH
- B) SMB
- C) FTP
- D) Telnet

#### Q98.

What log source would BEST help investigate unauthorized database access?

- A) Web access logs
- B) Application logs
- C) Database audit logs
- D) DNS logs

## Q99.

What is the PRIMARY use of the STIX format in threat intelligence?

- A) Define firewall rules
- B) Visualize phishing campaigns
- C) Structure threat data for automated sharing
- D) Collect vulnerability metrics

## Q100.

An attacker is using a compromised internal host to pivot into other systems. Which MITRE ATT&CK tactic is being used?

A) Execution



- B) Lateral Movement
- C) Exfiltration
- D) Persistence

# **Answers 91–100**

A91.

Answer: C) Risk

**Explanation:** Risk combines the likelihood of exploitation with the potential impact on the organization.

A92.

**Answer: B) Anomaly-based detection** 

**Explanation:** Anomaly detection compares current behavior against established baselines to identify outliers.

A93.

**Answer: B) Tactic** 

**Explanation:** TTPs = Tactics, Techniques, and Procedures, which describe how threat

actors operate.

A94.

Answer: C) Use centralized logging with hashing

**Explanation:** Centralizing logs and applying hashes ensures they haven't been

tampered with.

A95.

**Answer: C) Availability** 

**Explanation:** Availability ensures that resources are accessible when needed by

authorized users.

A96.

**Answer: C) Nessus** 



**Explanation:** Nessus is a vulnerability scanner that helps identify known vulnerabilities in live systems.

A97.

Answer: B) SMB

Explanation: Port 445 is used for SMB (Server Message Block), often exploited in lateral

movement attacks.

A98.

**Answer: C) Database audit logs** 

**Explanation:** These logs capture access and query activity within the database.

A99.

Answer: C) Structure threat data for automated sharing

**Explanation:** STIX (Structured Threat Information Expression) allows standard sharing

of threat intelligence.

A100.

**Answer: B) Lateral Movement** 

**Explanation:** Lateral movement involves using a compromised host to access

additional systems internally.