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Exam Questions CFR-410

CyberSec First Responder (CFR) Exam

NEW QUESTION 1
Various logs are collected for a data leakage case to make a forensic analysis. Which of the following are MOST important for log integrity? (Choose two.)

A. Hash value
B. Time stamp
C. Log type
D. Modified date/time
E. Log path

Answer: AB

NEW QUESTION 2
After a hacker obtained a shell on a Linux box, the hacker then sends the exfiltrated data via Domain Name System (DNS). This is an example of which type of data exfiltration?

A. Covert channels
B. File sharing services
C. Steganography
D. Rogue service

Answer: A

NEW QUESTION 3
A network security analyst has noticed a flood of Simple Mail Transfer Protocol (SMTP) traffic to internal clients. SMTP traffic should only be allowed to email servers. Which of the following commands would stop this attack? (Choose two.)

A. iptables -A INPUT -p tcp –dport 25 -d x.x.x.x -j ACCEPT
B. iptables -A INPUT -p tcp –sport 25 -d x.x.x.x -j ACCEPT
C. iptables -A INPUT -p tcp –dport 25 -j DROP
D. iptables -A INPUT -p tcp –destination-port 21 -j DROP
E. iptables -A FORWARD -p tcp –dport 6881:6889 -j DROP

Answer: AC

NEW QUESTION 4
Which of the following is the GREATEST risk of having security information and event management (SIEM) collect computer names with older log entries?

A. There may be duplicate computer names on the network.
B. The computer name may not be admissible evidence in court.
C. Domain Name System (DNS) records may have changed since the log was created.
D. There may be field name duplication when combining log files.

Answer: D

NEW QUESTION 5
While planning a vulnerability assessment on a computer network, which of the following is essential? (Choose two.)

A. Identifying exposures
B. Identifying critical assets
C. Establishing scope
D. Running scanning tools
E. Installing antivirus software

Answer: AC

NEW QUESTION 6
During which of the following attack phases might a request sent to port 1433 over a whole company network be seen within a log?

A. Reconnaissance
B. Scanning
C. Gaining access
D. Persistence

Answer: B

NEW QUESTION 7
According to company policy, all accounts with administrator privileges should have suffix _ja. While reviewing Windows workstation configurations, a security administrator discovers an account without the suffix in the administrator’s group. Which of the following actions should the security administrator take?

A. Review the system log on the affected workstation.
B. Review the security log on a domain controller.
C. Review the system log on a domain controller.
D. Review the security log on the affected workstation.

Answer:

B

NEW QUESTION 8
A Linux administrator is trying to determine the character count on many log files. Which of the following command and flag combinations should the administrator use?

A. tr -d
B. uniq -c
C. wc -m
D. grep -c

Answer: C

NEW QUESTION 9
An administrator believes that a system on VLAN 12 is Address Resolution Protocol (ARP) poisoning clients on the network. The administrator attaches a system to VLAN 12 and uses Wireshark to capture traffic. After reviewing the capture file, the administrator finds no evidence of ARP poisoning. Which of the following actions should the administrator take next?

A. Clear the ARP cache on their system.
B. Enable port mirroring on the switch.
C. Filter Wireshark to only show ARP traffic.
D. Configure the network adapter to promiscuous mode.

Answer: D

NEW QUESTION 10
Senior management has stated that antivirus software must be installed on all employee workstations. Which of the following does this statement BEST describe?

A. Guideline
B. Procedure
C. Policy
D. Standard

Answer: C

NEW QUESTION 10
It was recently discovered that many of an organization’s servers were running unauthorized cryptocurrency mining software. Which of the following assets were being targeted in this attack? (Choose two.)

A. Power resources
B. Network resources
C. Disk resources
D. Computing resources
E. Financial resources

Answer: AB

NEW QUESTION 13
When tracing an attack to the point of origin, which of the following items is critical data to map layer 2 switching?

A. DNS cache
B. ARP cache
C. CAM table
D. NAT table

Answer: B

Explanation:
The host that owns the IP address sends an ARP reply message with its physical address. Each host machine maintains a table, called ARP cache, used to convert MAC addresses to IP addresses. Since ARP is a stateless protocol, every time a host gets an ARP reply from another host, even though it has not sent an ARP request for that reply, it accepts that ARP entry and updates its ARP cache. The process of updating a target host’s ARP cache with a forged entry is referred to as poisoning.

NEW QUESTION 15
A security operations center (SOC) analyst observed an unusually high number of login failures on a particular database server. The analyst wants to gather supporting evidence before escalating the observation to management. Which of the following expressions will provide login failure data for 11/24/2015?

A. grep 20151124 security_log | grep –c “login failure”
B. grep 20150124 security_log | grep “login_failure”
C. grep 20151124 security_log | grep “login”
D. grep 20151124 security_log | grep –c “login”

Answer: C

NEW QUESTION 20

While reviewing some audit logs, an analyst has identified consistent modifications to the sshd_config file for an organization's server. The analyst would like to investigate and compare contents of the current file with archived versions of files that are saved weekly. Which of the following tools will be MOST effective during the investigation?

A. cat * | cut –d ',' –f 2,5,7
B. more * | grep
C. diff
D. sort *

Answer: C

NEW QUESTION 22
Which of the following is an automated password cracking technique that uses a combination of uppercase and lowercase letters, 0-9 numbers, and special characters?

A. Dictionary attack
B. Password guessing
C. Brute force attack
D. Rainbow tables

Answer: C

NEW QUESTION 27
Which of the following are common areas of vulnerabilities in a network switch? (Choose two.)

A. Default port state
B. Default credentials
C. Default protocols
D. Default encryption
E. Default IP address

Answer: AB

NEW QUESTION 29
Recently, a cybersecurity research lab discovered that there is a hacking group focused on hacking into the computers of financial executives in Company A to sell the exfiltrated information to Company B. Which of the following threat motives does this MOST likely represent?

A. Desire for power
B. Association/affiliation
C. Reputation/recognition
D. Desire for financial gain

Answer: D

NEW QUESTION 34
A suspicious script was found on a sensitive research system. Subsequent analysis determined that proprietary data would have been deleted from both the local server and backup media immediately following a specific administrator's removal from an employee list that is refreshed each evening. Which of the following BEST describes this scenario?

A. Backdoor
B. Rootkit
C. Time bomb
D. Login bomb

Answer: A

NEW QUESTION 35
A user receives an email about an unfamiliar bank transaction, which includes a link. When clicked, the link redirects the user to a web page that looks exactly like their bank's website and asks them to log in with their username and password. Which type of attack is this?

A. Whaling
B. Smishing
C. Vishing
D. Phishing

Answer: D

NEW QUESTION 39
An incident handler is assigned to initiate an incident response for a complex network that has been affected by malware. Which of the following actions should be taken FIRST?

A. Make an incident response plan.
B. Prepare incident response tools.
C. Isolate devices from the network.
D. Capture network traffic for analysis.

Answer: D

NEW QUESTION 42
After a security breach, a security consultant is hired to perform a vulnerability assessment for a company's web application. Which of the following tools would the consultant use?

A. Nikto
B. Kismet
C. tcpdump
D. Hydra

Answer: A

NEW QUESTION 44
A security administrator is investigating a compromised host. Which of the following commands could the investigator use to display executing processes in real time?

A. ps
B. top
C. nice
D. pstree

Answer: B

NEW QUESTION 45
After imaging a disk as part of an investigation, a forensics analyst wants to hash the image using a tool that supports piecewise hashing. Which of the following tools should the analyst use?

A. md5sum
B. sha256sum
C. md5deep
D. hashdeep

Answer: A

NEW QUESTION 48
During a security investigation, a suspicious Linux laptop is found in the server room. The laptop is processing information and indicating network activity. The investigator is preparing to launch an investigation to determine what is happening with this laptop. Which of the following is the MOST appropriate set of Linux commands that should be executed to conduct the investigation?

A. iperf, traceroute, whois, ls, chown, cat
B. iperf, wget, traceroute, dc3dd, ls, whois
C. lsof, chmod, nano, whois, chown, ls
D. lsof, ifconfig, who, ps, ls, tcpdump

Answer: B

NEW QUESTION 52
An automatic vulnerability scan has been performed. Which is the next step of the vulnerability assessment process?

A. Hardening the infrastructure
B. Documenting exceptions
C. Assessing identified exposures
D. Generating reports

Answer: D

NEW QUESTION 54
Which common source of vulnerability should be addressed to BEST mitigate against URL redirection attacks?

A. Application
B. Users
C. Network infrastructure
D. Configuration files

Answer: A

NEW QUESTION 58
During a log review, an incident responder is attempting to process the proxy server's log files but finds that they are too large to be opened by any file viewer. Which of the following is the MOST appropriate technique to open and analyze these log files?

A. Hex editor, searching
B. tcpdump, indexing
C. PE Explorer, indexing
D. Notepad, searching

Answer: A

NEW QUESTION 59
Malicious code designed to execute in concurrence with a particular event is BEST defined as which of the following?

A. Logic bomb
B. Rootkit
C. Trojan
D. Backdoor

Answer: A

NEW QUESTION 61
As part of an organization's regular maintenance activities, a security engineer visits the Internet Storm Center advisory page to obtain the latest list of blacklisted host/network addresses. The security engineer does this to perform which of the following activities?

A. Update the latest proxy access list
B. Monitor the organization's network for suspicious traffic
C. Monitor the organization's sensitive databases
D. Update access control list (ACL) rules for network devices

Answer: D

NEW QUESTION 63
An unauthorized network scan may be detected by parsing network sniffer data for:

A. IP traffic from a single IP address to multiple IP addresses.
B. IP traffic from a single IP address to a single IP address.
C. IP traffic from multiple IP addresses to a single IP address.
D. IP traffic from multiple IP addresses to other networks.

Answer: C

NEW QUESTION 67
An organization recently suffered a breach due to a human resources administrator emailing employee names and Social Security numbers to a distribution list. Which of the following tools would help mitigate this risk from recurring?

A. Data loss prevention (DLP)
B. Firewall
C. Web proxy
D. File integrity monitoring

Answer: A

NEW QUESTION 71
A cybersecurity expert assigned to be the IT manager of a middle-sized company discovers that there is little endpoint security implementation on the company's systems. Which of the following could be included in an endpoint security solution? (Choose two.)

A. Web proxy
B. Network monitoring system
C. Data loss prevention (DLP)
D. Anti-malware
E. Network Address Translation (NAT)

Answer: AB

NEW QUESTION 73
An organization recently suffered a data breach involving a server that had Transmission Control Protocol (TCP) port 1433 inadvertently exposed to the Internet. Which of the following services was vulnerable?

A. Internet Message Access Protocol (IMAP)
B. Network Basic Input/Output System (NetBIOS)
C. Database
D. Network Time Protocol (NTP)

Answer: C

NEW QUESTION 76
If a hacker is attempting to alter or delete system audit logs, in which of the following attack phases is the hacker involved?

A. Covering tracks
B. Expanding access
C. Gaining persistence
D. Performing reconnaissance

Answer: A

NEW QUESTION 79
Which of the following does the command nmap –open 10.10.10.3 do?

A. Execute a scan on a single host, returning only open ports.
B. Execute a scan on a subnet, returning detailed information on open ports.
C. Execute a scan on a subnet, returning all hosts with open ports.
D. Execute a scan on a single host, returning open services.

Answer: D

NEW QUESTION 83
A web server is under a denial of service (DoS) attack. The administrator reviews logs and creates an access control list (ACL) to stop the attack. Which of the following technologies could perform these steps automatically in the future?

A. Intrusion prevention system (IPS)
B. Intrusion detection system (IDS)
C. Blacklisting
D. Whitelisting

Answer: B

NEW QUESTION 85
Which of the following technologies would reduce the risk of a successful SQL injection attack?

A. Reverse proxy
B. Web application firewall
C. Stateful firewall
D. Web content filtering

Answer: B

NEW QUESTION 88
According to Payment Card Industry Data Security Standard (PCI DSS) compliance requirements, an organization must retain logs for what length of time?

A. 3 months
B. 6 months
C. 1 year
D. 5 years

Answer: C

NEW QUESTION 91
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