

200-201 Dumps

Understanding Cisco Cybersecurity Operations Fundamentals

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NEW QUESTION 1

Which data format is the most efficient to build a baseline of traffic seen over an extended period of time?

- A. syslog messages
- B. full packet capture
- C. NetFlow
- D. firewall event logs

Answer: C

NEW QUESTION 2

Refer to the exhibit.

| Top 10 Src IP Addr ordered by flows: | | | | | | | | |
|--------------------------------------|----------|----------------|--------|---------|--------|-----|--------|-----|
| Date first seen | Duration | Src IP Addr | Flows | Packets | Bytes | pps | bps | bpp |
| 2019-11-30 06:45:50.990 | 1147.332 | 192.168.12.234 | 109183 | 202523 | 13.1 M | 176 | 96116 | 68 |
| 2019-11-30 06:45:02.928 | 1192.834 | 10.10.151.203 | 62794 | 219715 | 25.9 M | 184 | 182294 | 123 |
| 2019-11-30 06:59:24.563 | 330.110 | 192.168.28.173 | 27864 | 47943 | 2.2 M | 145 | 55769 | 48 |

What information is depicted?

- A. IIS data
- B. NetFlow data
- C. network discovery event
- D. IPS event data

Answer: B

NEW QUESTION 3

What is the difference between a threat and a risk?

- A. Threat represents a potential danger that could take advantage of a weakness in a system
- B. Risk represents the known and identified loss or danger in the system
- C. Risk represents the nonintentional interaction with uncertainty in the system
- D. Threat represents a state of being exposed to an attack or a compromise either physically or logically

Answer: A

NEW QUESTION 4

Refer to the exhibit.

| Interface: 192.168.1.29 --- 0x11 | | |
|----------------------------------|-------------------|---------|
| Internet Address | Physical Address | Type |
| 192.168.1.10 | d8-a7-56-d7-19-ea | dynamic |
| 192.168.1.67 | d8-a7-56-d7-19-ea | dynamic |
| 192.168.1.1 | 01-00-5e-00-00-16 | static |

What is occurring in this network?

- A. ARP cache poisoning
- B. DNS cache poisoning
- C. MAC address table overflow
- D. MAC flooding attack

Answer: A

NEW QUESTION 5

An engineer runs a suspicious file in a sandbox analysis tool to see the outcome. The analysis report shows that outbound callouts were made post infection. Which two pieces of information from the analysis report are needed to investigate the callouts? (Choose two.)

- A. signatures
- B. host IP addresses
- C. file size
- D. dropped files
- E. domain names

Answer: BE

NEW QUESTION 6

What is the difference between deep packet inspection and stateful inspection?

- A. Deep packet inspection is more secure than stateful inspection on Layer 4
- B. Stateful inspection verifies contents at Layer 4 and deep packet inspection verifies connection at Layer 7
- C. Stateful inspection is more secure than deep packet inspection on Layer 7
- D. Deep packet inspection allows visibility on Layer 7 and stateful inspection allows visibility on Layer 4

Answer: D

NEW QUESTION 7

You have identified a malicious file in a sandbox analysis tool. Which piece of file information from the analysis is needed to search for additional downloads of this file by other hosts?

- A. file name
- B. file hash value
- C. file type
- D. file size

Answer: B

NEW QUESTION 8

Refer to the exhibit.

| No. | Time | Source | Destination | Protocol | Length | Info |
|------|----------|---------------|---------------|----------|--------|--|
| 1878 | 6.473353 | 173.37.145.84 | 10.0.2.15 | TCP | 62 | 80-49522 [ACK] Seq=14404 Ack=2987 Win=65535 Len=0 |
| 1986 | 6.736855 | 173.37.145.84 | 10.0.2.15 | HTTP | 245 | HTTP/1.1 304 Not Modified |
| 1987 | 6.736873 | 10.0.2.15 | 173.37.145.84 | TCP | 56 | 49522-80 [ACK] Seq=2987 Ack=14593 Win=59640 Len=0 |
| 2317 | 7.245088 | 10.0.2.15 | 173.37.145.84 | TCP | 2976 | [TCP segment of a reassembled PDU] |
| 2318 | 7.245192 | 10.0.2.15 | 173.37.145.84 | HTTP | 1020 | GET /web/fw/i/ntpamettag.gif?js=1&ts=147629607552.286&tc |
| 2321 | 7.246633 | 173.37.145.84 | 10.0.2.15 | TCP | 62 | 80-49522 [ACK] Seq=14593 Ack=4447 Win=65535 Len=0 |
| 2322 | 7.246640 | 173.37.145.84 | 10.0.2.15 | TCP | 62 | 80-49522 [ACK] Seq=14593 Ack=5907 Win=65535 Len=0 |
| 2323 | 7.246642 | 173.37.145.84 | 10.0.2.15 | TCP | 62 | 80-49522 [ACK] Seq=14593 Ack=6871 Win=65535 Len=0 |
| 2542 | 7.512750 | 173.37.145.84 | 10.0.2.15 | HTTP | 442 | HTTP/1.1 200 OK (GIF89a) |
| 2543 | 7.512781 | 10.0.2.15 | 173.37.145.84 | TCP | 56 | 49522-80 [ACK] Seq=6871 Ack=14979 Win=62480 Len=0 |

Which packet contains a file that is extractable within Wireshark?

- A. 2317
- B. 1986
- C. 2318
- D. 2542

Answer: D

NEW QUESTION 9

Which type of evidence supports a theory or an assumption that results from initial evidence?

- A. probabilistic
- B. indirect
- C. best
- D. corroborative

Answer: D

NEW QUESTION 10

Drag and drop the access control models from the left onto the correct descriptions on the right.

| | |
|------|--|
| MAC | object owner determines permissions |
| ABAC | OS determines permissions |
| RBAC | role of the subject determines permissions |
| DAC | attributes of the subject determines permissions |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

| | |
|------|------|
| MAC | DAC |
| ABAC | MAC |
| RBAC | RBAC |
| DAC | ABAC |

NEW QUESTION 10

Which category relates to improper use or disclosure of PII data?

- A. legal
- B. compliance
- C. regulated
- D. contractual

Answer: C

NEW QUESTION 11

What is a purpose of a vulnerability management framework?

- A. identifies, removes, and mitigates system vulnerabilities
- B. detects and removes vulnerabilities in source code
- C. conducts vulnerability scans on the network
- D. manages a list of reported vulnerabilities

Answer: A

NEW QUESTION 15

A user received a malicious attachment but did not run it. Which category classifies the intrusion?

- A. weaponization
- B. reconnaissance
- C. installation
- D. delivery

Answer: D

NEW QUESTION 17

What is the function of a command and control server?

- A. It enumerates open ports on a network device
- B. It drops secondary payload into malware
- C. It is used to regain control of the network after a compromise
- D. It sends instruction to a compromised system

Answer: D

NEW QUESTION 21

What does an attacker use to determine which network ports are listening on a potential target device?

- A. man-in-the-middle
- B. port scanning
- C. SQL injection
- D. ping sweep

Answer: B

NEW QUESTION 26

Which attack method intercepts traffic on a switched network?

- A. denial of service
- B. ARP cache poisoning
- C. DHCP snooping
- D. command and control

Answer: C

NEW QUESTION 30

Which type of data collection requires the largest amount of storage space?

- A. alert data
- B. transaction data
- C. session data
- D. full packet capture

Answer: D

NEW QUESTION 33

What specific type of analysis is assigning values to the scenario to see expected outcomes?

- A. deterministic
- B. exploratory
- C. probabilistic
- D. descriptive

Answer: A

NEW QUESTION 37

How does certificate authority impact a security system?

- A. It authenticates client identity when requesting SSL certificate
- B. It validates domain identity of a SSL certificate
- C. It authenticates domain identity when requesting SSL certificate
- D. It validates client identity when communicating with the server

Answer: B

NEW QUESTION 40

What is the difference between mandatory access control (MAC) and discretionary access control (DAC)?

- A. MAC is controlled by the discretion of the owner and DAC is controlled by an administrator
- B. MAC is the strictest of all levels of control and DAC is object-based access
- C. DAC is controlled by the operating system and MAC is controlled by an administrator
- D. DAC is the strictest of all levels of control and MAC is object-based access

Answer: B

NEW QUESTION 43

What is rule-based detection when compared to statistical detection?

- A. proof of a user's identity
- B. proof of a user's action
- C. likelihood of user's action
- D. falsification of a user's identity

Answer: B

NEW QUESTION 45

Which evasion technique is a function of ransomware?

- A. extended sleep calls
- B. encryption
- C. resource exhaustion
- D. encoding

Answer: B

NEW QUESTION 49

Which regex matches only on all lowercase letters?

- A. [az]+
- B. [^az]+
- C. az+
- D. a*z+

Answer: A

NEW QUESTION 53

What are the two characteristics of the full packet captures? (Choose two.)

- A. Identifying network loops and collision domains.
- B. Troubleshooting the cause of security and performance issues.
- C. Reassembling fragmented traffic from raw data.
- D. Detecting common hardware faults and identify faulty assets.
- E. Providing a historical record of a network transaction.

Answer: CE

NEW QUESTION 58

Which signature impacts network traffic by causing legitimate traffic to be blocked?

- A. false negative
- B. true positive
- C. true negative
- D. false positive

Answer: D

NEW QUESTION 62

An engineer receives a security alert that traffic with a known TOR exit node has occurred on the network. What is the impact of this traffic?

- A. ransomware communicating after infection
- B. users downloading copyrighted content
- C. data exfiltration
- D. user circumvention of the firewall

Answer: D

NEW QUESTION 67

An intruder attempted malicious activity and exchanged emails with a user and received corporate information, including email distribution lists. The intruder asked the user to engage with a link in an email. When the link launched, it infected machines and the intruder was able to access the corporate network. Which testing method did the intruder use?

- A. social engineering
- B. eavesdropping
- C. piggybacking
- D. tailgating

Answer: A

NEW QUESTION 69

Which evasion technique is indicated when an intrusion detection system begins receiving an abnormally high volume of scanning from numerous sources?

- A. resource exhaustion
- B. tunneling
- C. traffic fragmentation
- D. timing attack

Answer: A

NEW QUESTION 70

While viewing packet capture data, an analyst sees that one IP is sending and receiving traffic for multiple devices by modifying the IP header. Which technology makes this behavior possible?

- A. encapsulation
- B. TOR
- C. tunneling
- D. NAT

Answer: D

NEW QUESTION 72

Which artifact is used to uniquely identify a detected file?

- A. file timestamp
- B. file extension
- C. file size
- D. file hash

Answer: D

NEW QUESTION 74

Refer to the exhibit.

```
10.44.101.23 - - [20/Nov/2017:14:18:06 -0500] "GET / HTTP/1.1"
200 1254 "-" "Mozilla/5.0(X11; Ubuntu; Linux x86_64; rv:54.0)
Gecko/20100101 Firefox/54.0"
```

What does the message indicate?

- A. an access attempt was made from the Mosaic web browser
- B. a successful access attempt was made to retrieve the password file
- C. a successful access attempt was made to retrieve the root of the website
- D. a denied access attempt was made to retrieve the password file

Answer: C

NEW QUESTION 76

Which event artifact is used to identity HTTP GET requests for a specific file?

- A. destination IP address
- B. TCP ACK
- C. HTTP status code
- D. URI

Answer: D

NEW QUESTION 77

Which system monitors local system operation and local network access for violations of a security policy?

- A. host-based intrusion detection
- B. systems-based sandboxing
- C. host-based firewall
- D. antivirus

Answer: C

NEW QUESTION 80

Which NIST IR category stakeholder is responsible for coordinating incident response among various business units, minimizing damage, and reporting to regulatory agencies?

- A. CSIRT
- B. PSIRT
- C. public affairs
- D. management

Answer: D

NEW QUESTION 82

A security engineer deploys an enterprise-wide host/endpoint technology for all of the company's corporate PCs. Management requests the engineer to block a selected set of applications on all PCs.

Which technology should be used to accomplish this task?

- A. application whitelisting/blacklisting
- B. network NGFW
- C. host-based IDS
- D. antivirus/antispysware software

Answer: A

NEW QUESTION 83

Refer to the exhibit.

```
# nmap -sV 172.18.104.139

Starting Nmap 7.01 ( https://nmap.org ) at 2020-03-07 11:36 EST
Nmap scan report for 172.18.104.139
Host is up (0.000018s latency).
Not shown: 996 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux; protocol 2.0)
25/tcp    open  smtp      Postfix smtpd
110/tcp   open  pop3      Dovecot pop3d
143/tcp   open  imap      Dovecot imapd
Service Info: Host: 172.18.108.139; OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

What does the output indicate about the server with the IP address 172.18.104.139?

- A. open ports of a web server
- B. open port of an FTP server
- C. open ports of an email server
- D. running processes of the server

Answer: C

NEW QUESTION 87

What is the difference between the ACK flag and the RST flag in the NetFlow log session?

- A. The RST flag confirms the beginning of the TCP connection, and the ACK flag responds when the data for the payload is complete
- B. The ACK flag confirms the beginning of the TCP connection, and the RST flag responds when the data for the payload is complete
- C. The RST flag confirms the receipt of the prior segment, and the ACK flag allows for the spontaneous termination of a connection
- D. The ACK flag confirms the receipt of the prior segment, and the RST flag allows for the spontaneous termination of a connection

Answer: D

NEW QUESTION 92

Which two elements are used for profiling a network? (Choose two.)

- A. total throughput
- B. session duration
- C. running processes
- D. OS fingerprint
- E. listening ports

Answer: DE

NEW QUESTION 97

When communicating via TLS, the client initiates the handshake to the server and the server responds back with its certificate for identification. Which information is available on the server certificate?

- A. server name, trusted subordinate CA, and private key
- B. trusted subordinate CA, public key, and cipher suites
- C. trusted CA name, cipher suites, and private key
- D. server name, trusted CA, and public key

Answer: D

NEW QUESTION 98

Which list identifies the information that the client sends to the server in the negotiation phase of the TLS handshake?

- A. ClientStart, ClientKeyExchange, cipher-suites it supports, and suggested compression methods
- B. ClientStart, TLS versions it supports, cipher-suites it supports, and suggested compression methods
- C. ClientHello, TLS versions it supports, cipher-suites it supports, and suggested compression methods
- D. ClientHello, ClientKeyExchange, cipher-suites it supports, and suggested compression methods

Answer: C

NEW QUESTION 101

Which security technology allows only a set of pre-approved applications to run on a system?

- A. application-level blacklisting
- B. host-based IPS
- C. application-level whitelisting
- D. antivirus

Answer: C

NEW QUESTION 103

Which type of attack occurs when an attacker is successful in eavesdropping on a conversation between two IP phones?

- A. known-plaintext
- B. replay
- C. dictionary
- D. man-in-the-middle

Answer: D

NEW QUESTION 108

A SOC analyst is investigating an incident that involves a Linux system that is identifying specific sessions. Which identifier tracks an active program?

- A. application identification number
- B. active process identification number
- C. runtime identification number
- D. process identification number

Answer: D

NEW QUESTION 112

What is an example of social engineering attacks?

- A. receiving an unexpected email from an unknown person with an uncharacteristic attachment from someone in the same company
- B. receiving an email from human resources requesting a visit to their secure website to update contact information
- C. sending a verbal request to an administrator who knows how to change an account password
- D. receiving an invitation to the department's weekly WebEx meeting

Answer: B

NEW QUESTION 117

How is attacking a vulnerability categorized?

- A. action on objectives
- B. delivery
- C. exploitation
- D. installation

Answer: C

NEW QUESTION 120

What are two social engineering techniques? (Choose two.)

- A. privilege escalation
- B. DDoS attack
- C. phishing
- D. man-in-the-middle
- E. pharming

Answer: CE

NEW QUESTION 123

Which attack is the network vulnerable to when a stream cipher like RC4 is used twice with the same key?

- A. forgery attack
- B. plaintext-only attack
- C. ciphertext-only attack
- D. meet-in-the-middle attack

Answer: C

NEW QUESTION 125

What is a difference between SOAR and SIEM?

- A. SOAR platforms are used for threat and vulnerability management, but SIEM applications are not
- B. SIEM applications are used for threat and vulnerability management, but SOAR platforms are not
- C. SOAR receives information from a single platform and delivers it to a SIEM
- D. SIEM receives information from a single platform and delivers it to a SOAR

Answer: A

NEW QUESTION 129

Refer to the exhibit.

| First Packet | Last Packet | Action | Reason | Initiator IP | Initiator Country | Initiator User | Responder IP | Responder Country | Security Intelligence Category | Ingress Security Zone | Egress Security Zone | Source Port/ICMP Type |
|---------------------|-------------|--------------------|--------|---------------|-------------------|-----------------------------------|---------------|-------------------|--------------------------------|-----------------------|----------------------|-----------------------|
| 2018-03-07 13:42:01 | | Sinkhole DNS Block | | 10.0.10.75 | | JERI LABORDE (DCLOUD-SOC LDAP) | 10.110.10.11 | | DNS Intelligence-CnC | External | Internal | 54925 / udp |
| 2018-03-07 13:42:01 | | Sinkhole DNS Block | | 10.0.0.100 | | AMPARO GIVENS (DCLOUD-SOC LDAP) | 10.110.10.11 | | DNS Intelligence-CnC | External | Internal | 54925 / udp |
| 2018-03-07 13:42:01 | | Sinkhole DNS Block | | 10.112.10.158 | | VERNETTA DONNEL (DCLOUD-SOC LDAP) | 192.168.1.153 | | DNS Intelligence-CnC | External | Internal | 54925 / udp |

Which two elements in the table are parts of the 5-tuple? (Choose two.)

- A. First Packet
- B. Initiator User
- C. Ingress Security Zone
- D. Source Port
- E. Initiator IP

Answer: DE

NEW QUESTION 133

Why is encryption challenging to security monitoring?

- A. Encryption analysis is used by attackers to monitor VPN tunnels.
- B. Encryption is used by threat actors as a method of evasion and obfuscation.
- C. Encryption introduces additional processing requirements by the CPU.
- D. Encryption introduces larger packet sizes to analyze and store.

Answer: B

NEW QUESTION 136

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