Cisco

Exam Questions 200-201

Understanding Cisco Cybersecurity Operations Fundamentals

NEW QUESTION 1
During which phase of the forensic process is data that is related to a specific event labeled and recorded to preserve its integrity?

A. examination
B. investigation
C. collection
D. reporting

Answer: C

NEW QUESTION 2
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 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
Which two elements are assets in the role of attribution in an investigation? (Choose two.)

A. context
B. session
C. laptop
D. firewall logs
E. threat actor

Answer: AE

NEW QUESTION 5
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 6
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 7

What is a benefit of agent-based protection when compared to agentless protection?

A. It lowers maintenance costs
B. It provides a centralized platform
C. It collects and detects all traffic locally
D. It manages numerous devices simultaneously

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/ntpagetag.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 process is used when IPS events are removed to improve data integrity?

A. data availability
B. data normalization
C. data signature
D. data protection

Answer: B

NEW QUESTION 10
Which two elements of the incident response process are stated in NIST Special Publication 800-61 r2? (Choose two.)

A. detection and analysis
B. post-incident activity
C. vulnerability management
D. risk assessment
E. vulnerability scoring

Answer: AB

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 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 16
Which incidence response step includes identifying all hosts affected by an attack'?

A. post-incident activity
B. detection and analysis

C. containment eradication and recovery
D. preparation

Answer: A

NEW QUESTION 20
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 22
An analyst is investigating a host in the network that appears to be communicating to a command and control server on the Internet. After collecting this packet capture the analyst cannot determine the technique and payload used for the communication.

```
File     Actions     Edit     View     Help

   48 41.270348133 185.199.111.153 → 192.168.88.164 TLSv1.2 123 Application Data
   49 41.270348165 185.199.111.153 → 192.168.88.164 TLSv1.2 104 Application Data
   50 41.270356290 192.168.88.164 → 185.199.111.153 TCP 66 44736 → 443 [ACK]
Seq=834 Ack=3104 Win=64128 Len=0 TSval=3947973757 TSecr=2989424849
   51 41.270369874 192.168.88.164 → 185.199.111.153 TCP 66 44736 → 443 [ACK]
Seq=834 Ack=3142 Win=64128 Len=0 TSval=3947973757 TSecr=2989424849
   52 41.270430171 192.168.88.164 → 185.199.111.153 TLSv1.2 104 Application Data
   53 41.271767772 185.199.111.153 → 192.168.88.164 TLSv1.2 2854 Application Data
   54 41.271767817 185.199.111.153 → 192.168.88.164 TLSv1.2 904 Application Data
   55 41.271788996 192.168.88.164 → 185.199.111.153 TCP 66 44736 → 443 [ACK]
Seq=872 Ack=6768 Win=62592 Len=0 TSval=3947973758 TSecr=2989424849
   56 41.271973293 192.168.88.164 → 185.199.111.153 TLSv1.2 97 Encrypted Alert
   57 41.272411701 192.168.88.164 → 185.199.111.153 TCP 66 44736 → 443 [FIN, ACK]
Seq=903 Ack=6768 Win=64128 Len=0 TSval=3947973759 TSecr=2989424849
   58 41.283301751 185.199.111.153 → 192.168.88.164 TCP 66 443 → 44736 [ACK]
Seq=6768 Ack=903 Win=28160 Len=0 TSval=2989424852 TSecr=3947973757
   59 41.283301808 185.199.111.153 → 192.168.88.164 TLSv1.2 97 Encrypted Alert
   60 41.283321947 192.168.88.164 → 185.199.111.153 TCP 54 44736 → 443 [RST]
Seq=903 Win=0 Len=0
   61 41.283939151 185.199.111.153 → 192.168.88.164 TCP 66 443 → 44736 [FIN, ACK]
Seq=6799 Ack=903 Win=28160 Len=0 TSval=2989424852 TSecr=3947973757
   62 41.283945760 192.168.88.164 → 185.199.111.153 TCP 54 44736 → 443 [RST]
Seq=903 Win=0 Len=0
   63 41.284635561 185.199.111.153 → 192.168.88.164 TCP 66 443 → 44736 [ACK]
Seq=6800 Ack=904 Win=28160 Len=0 TSval=2989424853 TSecr=3947973759
   64 41.284642324 192.168.88.164 → 185.199.111.153 TCP 54 44736 → 443 [RST]
Seq=904 Win=0 Len=0
```

Which obfuscation technique is the attacker using?

A. Base64 encoding
B. transport layer security encryption
C. SHA-256 hashing
D. ROT13 encryption

Answer: B

NEW QUESTION 26
Which regular expression matches "color" and "colour"?

A. colo?ur
B. col[08]+our
C. colou?r
D. col[09]+our

Answer: C

NEW QUESTION 29
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 30
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

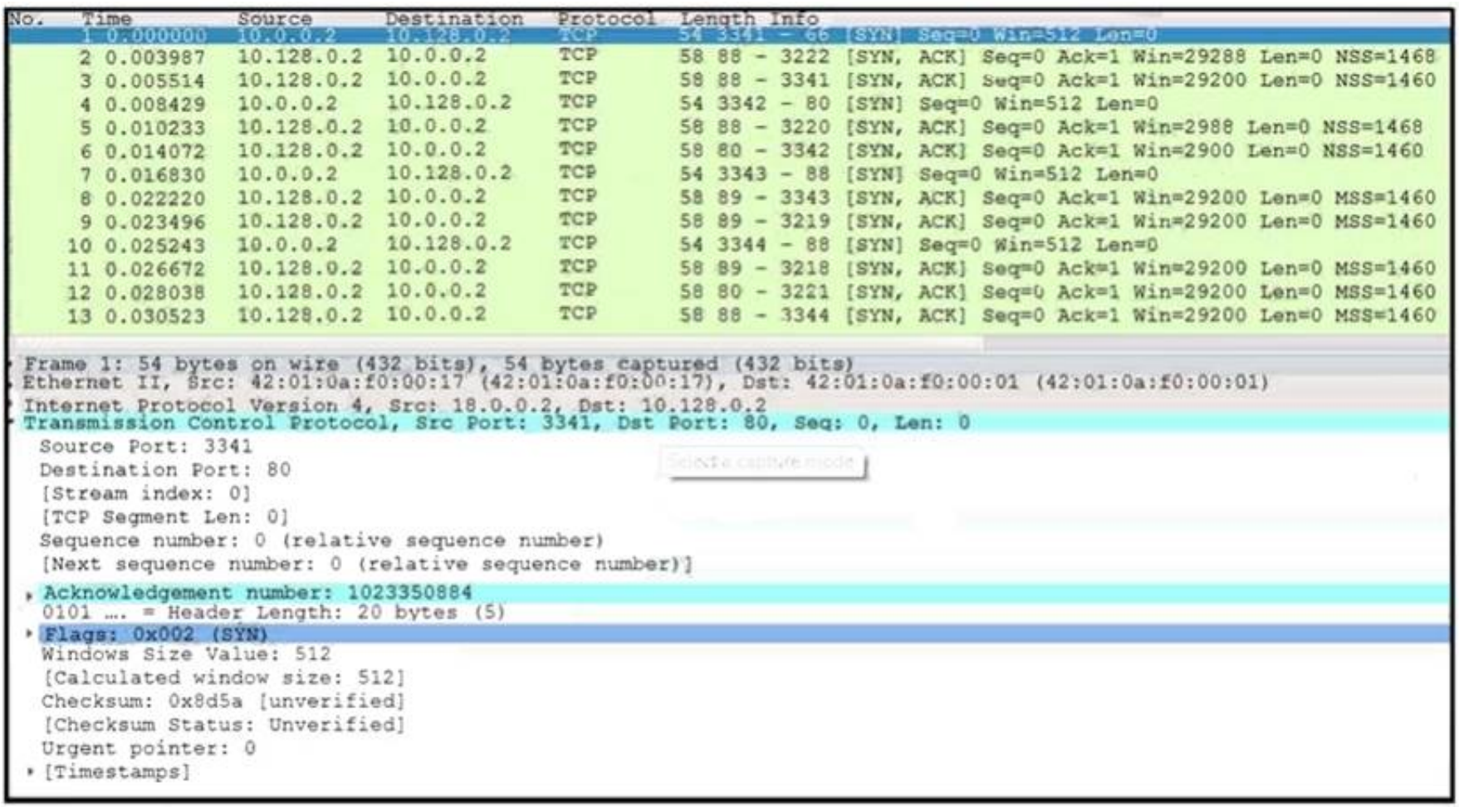
Answer: B

NEW QUESTION 34
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 35
Refer to the exhibit.



What is occurring in this network traffic?

A. high rate of SYN packets being sent from a multiple source towards a single destination IP
B. high rate of SYN packets being sent from a single source IP towards multiple destination IPs
C. flood of ACK packets coming from a single source IP to multiple destination IPs
D. flood of SYN packets coming from a single source IP to a single destination IP

Answer: D

NEW QUESTION 36
What are two differences in how tampered and untampered disk images affect a security incident? (Choose two.)

A. Untampered images are used in the security investigation process
B. Tampered images are used in the security investigation process
C. The image is tampered if the stored hash and the computed hash match
D. Tampered images are used in the incident recovery process

E. The image is untampered if the stored hash and the computed hash match

Answer: BE

NEW QUESTION 40
Which security principle is violated by running all processes as root or administrator?

A. principle of least privilege
B. role-based access control
C. separation of duties
D. trusted computing base

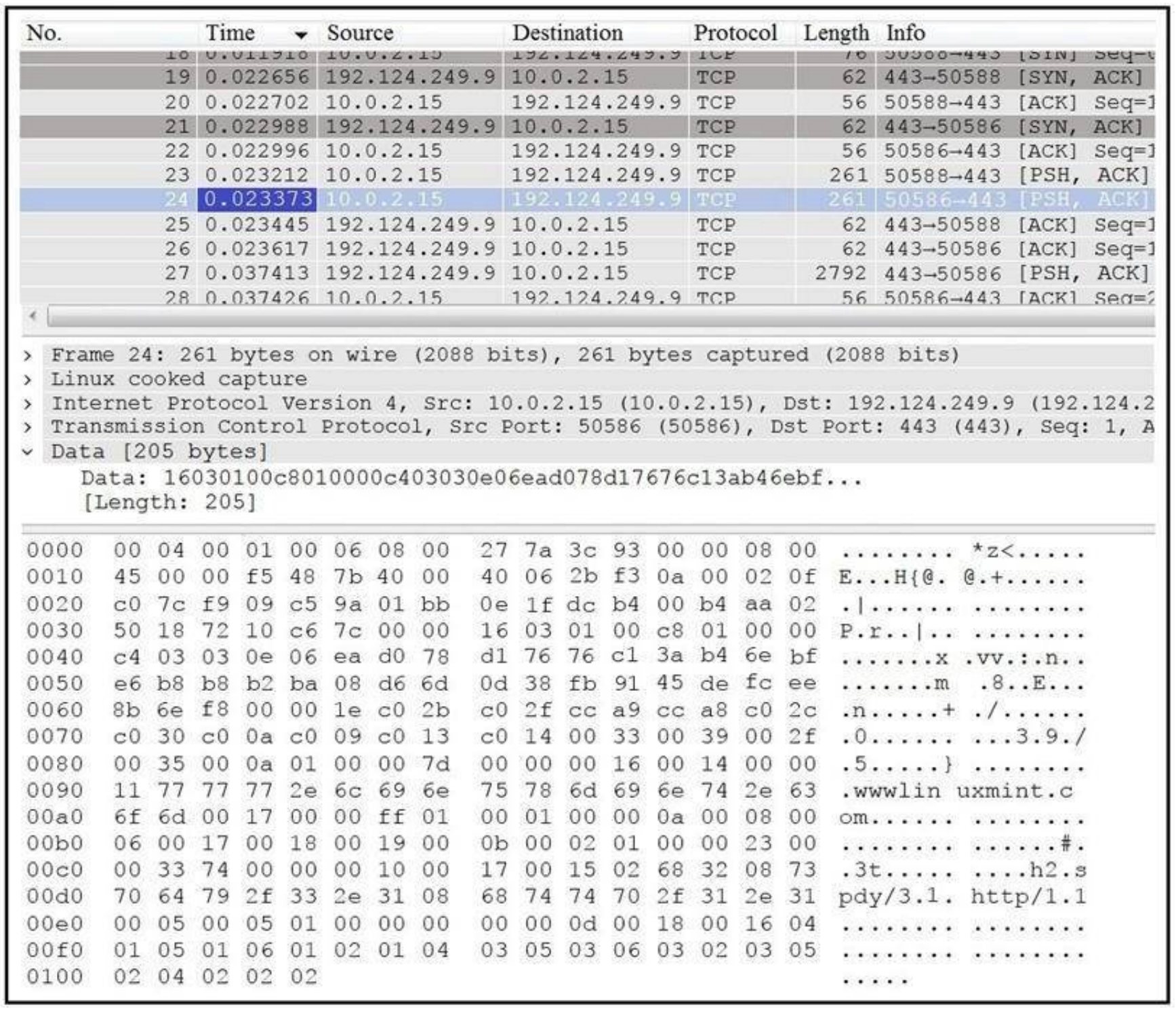
Answer: A

NEW QUESTION 43
What is the practice of giving an employee access to only the resources needed to accomplish their job?

A. principle of least privilege
B. organizational separation
C. separation of duties
D. need to know principle

Answer: A

NEW QUESTION 48
Refer to the exhibit.



Which application protocol is in this PCAP file?

A. SSH
B. TCP
C. TLS
D. HTTP

Answer: B

NEW QUESTION 52

Which metric is used to capture the level of access needed to launch a successful attack?

A. privileges required
B. user interaction
C. attack complexity
D. attack vector

Answer: A

NEW QUESTION 53
What should a security analyst consider when comparing inline traffic interrogation with traffic tapping to determine which approach to use in the network?

A. Tapping interrogation replicates signals to a separate port for analyzing traffic
B. Tapping interrogations detect and block malicious traffic
C. Inline interrogation enables viewing a copy of traffic to ensure traffic is in compliance with security policies
D. Inline interrogation detects malicious traffic but does not block the traffic

Answer: A

NEW QUESTION 55
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 58
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 63
A security engineer has a video of a suspect entering a data center that was captured on the same day that files in the same data center were transferred to a competitor.
Which type of evidence is this?

A. best evidence
B. prima facie evidence
C. indirect evidence
D. physical evidence

Answer: C

NEW QUESTION 64
Which step in the incident response process researches an attacking host through logs in a SIEM?

A. detection and analysis
B. preparation
C. eradication
D. containment

Answer: A

NEW QUESTION 69
Refer to the exhibit.

File name	CVE-2009-4324 PDF 2009-11-30 note200911.pdf
File size	400918 bytes
File type	PDF document, version 1.6
CRC32	11638A9B
MD5	61baabd6fc12e01ff73ceacc07c84f9a
SHA1	0805d0ae62f5358b9a3f4c1868d552fc3561b17
SHA256	27cced58a0fcbb0bbe3894f74d3014611039fefdf3bd2b0ba7ad85b18194c
SHA512	5a43bc7eef279b209e2590432cc3e2eb480d0f78004e265f00b98b4afdc9a
Ssdeep	1536:p0AAH2KthGBjcdBj8VETeePxsT65ZZ3pdx/ves/QR/875+:prahGV6B
PEID	None matched
Yara	• embedded_pe (Contains an embedded PE32 file) • embedded_win_api (A non-Windows executable contains win32 API • vmdetect (Possibly employs anti-virtualization techniques)
VirusTotal	Permalink VirusTotal Scan Date: 2013-12-27 06:51:52 Detection Rate: 32/46 (collapse)

An engineer is analyzing this Cuckoo Sandbox report for a PDF file that has been downloaded from an email. What is the state of this file?

A. The file has an embedded executable and was matched by PEiD threat signatures for further analysis.
B. The file has an embedded non-Windows executable but no suspicious features are identified.
C. The file has an embedded Windows 32 executable and the Yara field lists suspicious features for further analysis.
D. The file was matched by PEiD threat signatures but no suspicious features are identified since the signature list is up to date.

Answer: C

NEW QUESTION 71
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 74
A security specialist notices 100 HTTP GET and POST requests for multiple pages on the web servers. The agent in the requests contains PHP code that, if executed, creates and writes to a new PHP file on the webserver. Which event category is described?

A. reconnaissance
B. action on objectives
C. installation
D. exploitation

Answer: C

NEW QUESTION 79
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 82
How does an SSL certificate impact security between the client and the server?

A. by enabling an authenticated channel between the client and the server
B. by creating an integrated channel between the client and the server
C. by enabling an authorized channel between the client and the server
D. by creating an encrypted channel between the client and the server

Answer: D

NEW QUESTION 86
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 89
What makes HTTPS traffic difficult to monitor?

A. SSL interception
B. packet header size
C. signature detection time
D. encryption

Answer: D

NEW QUESTION 93
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/antispyware software

Answer: A

NEW QUESTION 96
An investigator is examining a copy of an ISO file that is stored in CDFS format. What type of evidence is this file?

A. data from a CD copied using Mac-based system
B. data from a CD copied using Linux system
C. data from a DVD copied using Windows system
D. data from a CD copied using Windows

Answer: B

NEW QUESTION 97
When trying to evade IDS/IPS devices, which mechanism allows the user to make the data incomprehensible without a specific key, certificate, or password?

A. fragmentation
B. pivoting
C. encryption
D. stenography

Answer: D

NEW QUESTION 100
An analyst is investigating an incident in a SOC environment. Which method is used to identify a session from a group of logs?

A. sequence numbers
B. IP identifier
C. 5-tuple
D. timestamps

Answer: C

NEW QUESTION 104
How is attacking a vulnerability categorized?

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

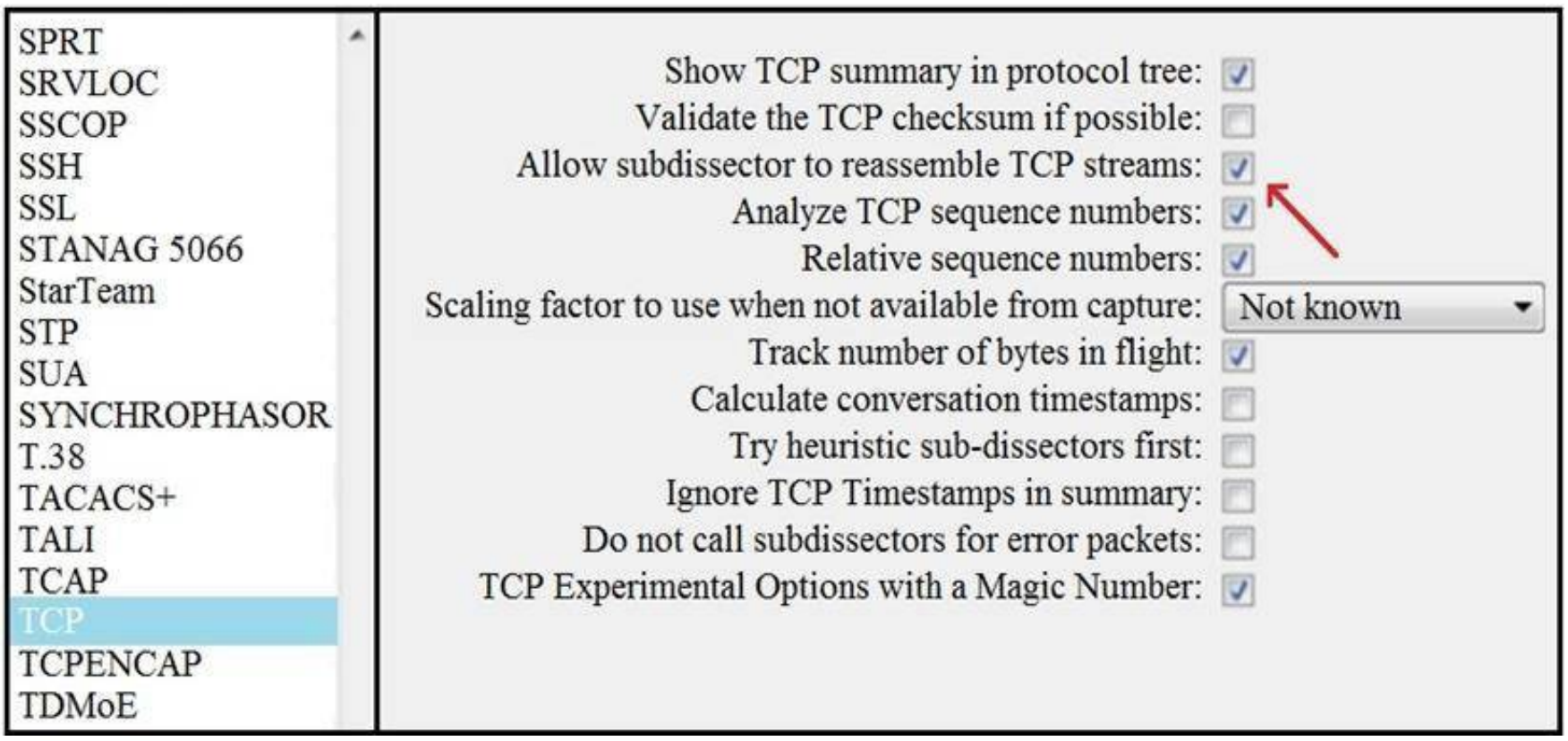
Answer: C

NEW QUESTION 107
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 108
Refer to the exhibit.



What is the expected result when the "Allow subdissector to reassemble TCP streams" feature is enabled?

A. insert TCP subdissectors
B. extract a file from a packet capture
C. disable TCP streams
D. unfragment TCP

Answer: D

NEW QUESTION 109
At which layer is deep packet inspection investigated on a firewall?

A. internet
B. transport
C. application
D. data link

Answer: C

NEW QUESTION 114
Refer to the exhibit.

Date	Flow Start	Duration	Proto	Src IP Addr:Port		Dst IP Addr:Port	Packets	Bytes	Flows
2020-01-05	21:15:28.389	0.000	UDP	127.0.0.1:25678	→	192.168.0.1:20521	1	82	1

Which type of log is displayed?

A. proxy
B. NetFlow
C. IDS
D. sys

Answer: B

NEW QUESTION 118
An analyst received an alert on their desktop computer showing that an attack was successful on the host. After investigating, the analyst discovered that no mitigation action occurred during the attack. What is the reason for this discrepancy?

A. The computer has a HIPS installed on it.
B. The computer has a NIPS installed on it.
C. The computer has a HIDS installed on it.
D. The computer has a NIDS installed on it.

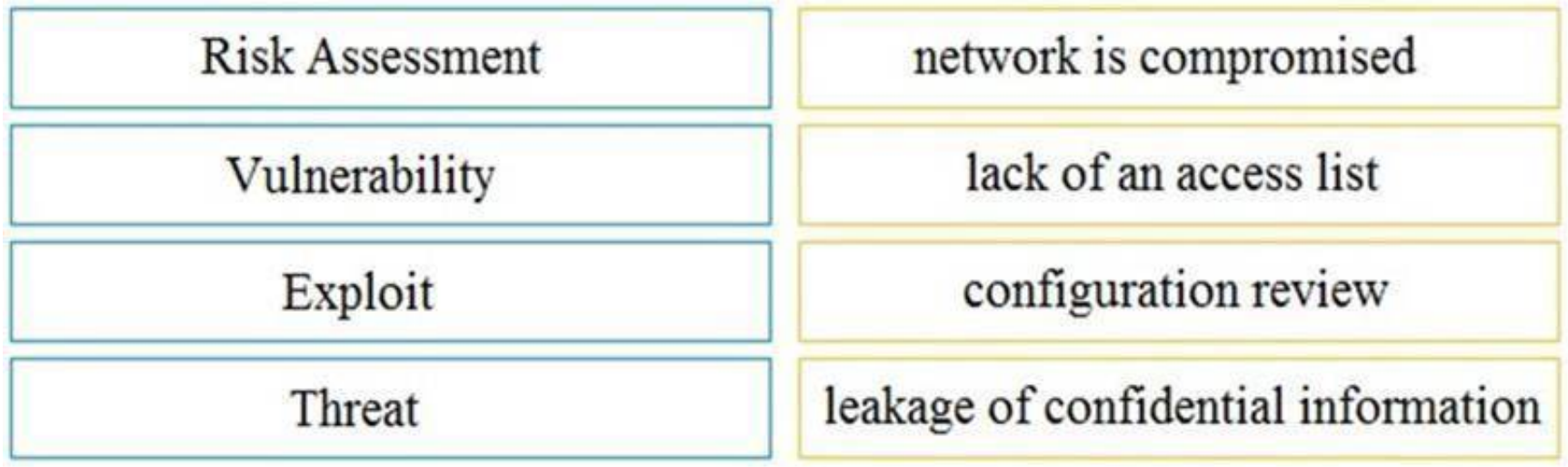
Answer: C

NEW QUESTION 119
Which action prevents buffer overflow attacks?

A. variable randomization
B. using web based applications
C. input sanitization
D. using a Linux operating system

Answer: C

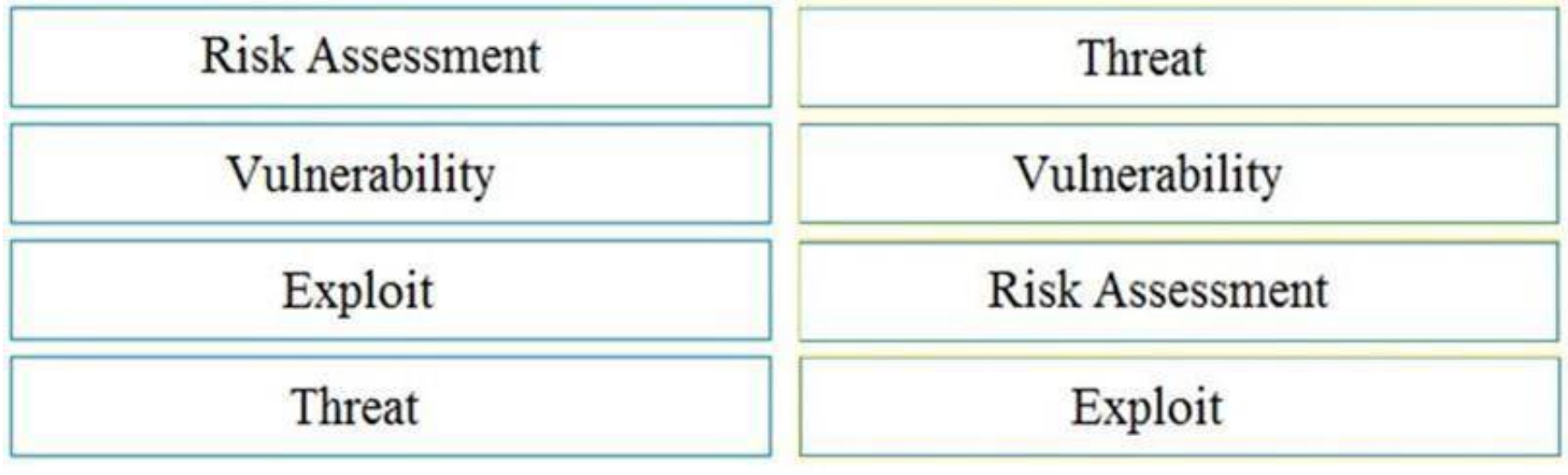
NEW QUESTION 121
Drag and drop the security concept on the left onto the example of that concept on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 126
In a SOC environment, what is a vulnerability management metric?

A. code signing enforcement
B. full assets scan
C. internet exposed devices
D. single factor authentication

Answer: D

NEW QUESTION 130
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