Module Name-1: (60 Minutes)

Q1. When discussing IDS / IPS, what is a signature?

a. An electronic signature used to authenticate the identity of a user on the network.

b.Attack-definitionfile8

- c. It refers to "normal," baseline network behaviour
- d. None of the above
- Q2. What is a false negative?

a. Results when an attack or an intrusion goes undetected

- b. An alert sent to an incorrect management station
- c. Results when the IDS system reports an alarm, although an actual intrusion doesn't occur on the network
- d. There is no such thing as a false negative
- Q3. _____ is placed at a strategic point or points within the network to monitor traffic to and from all devices on the network.
- a. HIDS
- b. Anomaly-based IDS
- c. Passive IDS

d. NIDS

- Q4. Known vulnerabilities in a application / software are identified by
- a. CVE ID (Common Vulnerabilities and Exposure)
- b. Common Vulnerability Scoring System (CVSS)
- c. Exploitable Score
- d. None of these above
- Q5. What is the length of TTL field of IP header (in bits)
- a. 4
- b. 8
- c. 6
- d. 13
- Q6. What is the total length of TCP header in bytes

- a. 16
- b. 20
- c. 40
- d. 60
- Q7. What are the two main types of intrusion detection systems based on detection methodology?
- a. Protocol-based and host-based
- b. Misuse and Anomaly
- c. Active and reactive
- d. Intelligent and passive
- Q8. Which of the following is not a capability of network-based IDS?
- a. Can detect denial-of-service attacks

b. Can decrypt and read encrypted traffic

- c. Can decode UDP and TCP packets
- d. Can be tuned to a particular network environment
- Q9. alert tcp \$EXTERNAL_NET any -> 192.168.1.0/24 111 (msg: "mountd access"; content: "|00 01|"; sid:1000001;)
 The above signature / rules applies to the which traffic (movement of packet)
- a. External Network to Home Network
- b. External Network to External Network
- c. Home Network to External Network
- d. Home Network to Home Network
- Q10. Which of following is not the rule action type of snort rule
- a. alert
- b. log
- c. drop

d. direction

Q11. 18:52:08.730624 24.147.188.237.4797 > my.host.26.224.3879:S 546052661:546052661(0) win 32120 <mss 1460,sackOK,timestamp 59927143 0,nop,wscale 0> (DF) (ttl 48, id 63341)

18:52:08.730691 my.host.26.224.3879 > 24.147.188.237.4797: R 0:0(0) ack 546052662 win 0 (ttl 255, id 784)

The above tcpdump output indicates:

- a. The target host does not exist
- b. The target host rejected ACK number 546052662
- c. The target host does not have a service running on port 3879
- d. The target host does not have a service running on port 4797

Q12. The ____ option of Tcpdump is used to print the link-layer header.

- a. –S
- b. -nn
- с. -е

d. -X

Q13. Write the command to capture only 500 packets from dump. pcap using tcpdump.

a. tcpdump -n 500

b.tcpdump -c 500

c.tcpdump -n 500 dump.pcap

d. tcpdump -c 500 dump.pcap

Q14. Print or capture only SYN-ACK packet coming at your interface using tcpdump:

a. tcpdump 'tcp[13]=18'

- b. tcpdump 'tcp[13]=16'
- c. tcpdump 'tcp[13]=2'
- d. tcpdump 'tcp[13]=8'

Q15. tcpdump is used for capturing packet of layer:

a. application layer

b. network layer

- c. physical layer
- d. transport layer

Q16. Which of the following is true for anomaly-based IDS?

a. They alert administrators about the deviations

from "normal" traffic behavior.
b. The technology is mature and reliable enough to use on production networks.

- c. They scan network traffic or packets to identify matches with attack-definition files.
- d. None of the above..

Q17. In IDS/IPS, anomalies are also referred to as ______, surprise, aberrant, deviation, peculiarity, etc.

- a.Outliers
- b. Normal distribution
- c. Mean
- d. Box plot

Q18. Anomaly detection technique based on:

- a. Signature sets
- b. Training data
- c. Packet analysis
- d. Deviated data

Q19. Which of the following best describes an attack that alter the content of two critical files?

- a. Integrity
- b. Confidentiality
- c. Availability
- d. Authentication

Q20.----is the business impact and the probability of that vulnerability being exploited.

- a. Threat
- b. Vulnerability

c. Exploit	a.FILTER
4. Risk	b.NAT
Q21. How many built-in tables are in iptables	c.MANGLE) d.RAW
a. two	
b. three	Q27. In a, the destination IP address is maintained and the source IP
c. four	address is maintained and the source ir address is changed.
d .five	a.DNAT
Q22. Which of the following structure is correct in IP tables?	b.SNAT
a. Rules -> Chains -> Tables	c.Switching
b.Chains -> Tables -> Rules c. Tables -> Chains -> Rules d. None of the above	d.Bridging
Q23. Which one is not a target in iptables?	Q28. Using which command ,we can change default iptables policy?
a. ACCEPT	a. iptables -X DROP
b. DROP	b. <mark>iptables -P DROP</mark>
c. FILTER	c. iptables -D DROP
d. RETURN	d. All of the above
Q24. How many chains are there in mangle table	Q29. Which command is used to save
a. two	iptables rule
b. three	a. iptables-store
c. four	b. save-iptables
d. five	c. iptables-save
Q25. For bandwidth management using iptable, which module is used? a. limit	d.iptables-submit
(b. quota)	Q30. Which among the following is not a functionality of UTM.
c. bandwidth	a Contont Filtoring
d. None of the above	a. Content Filtering b. Network bandwidth management
Q26. In iptables, the table is	c. Network Link management
responsible for the alteration of quality of	L V. LIVENVER BIHR HIGHGEVIIVII
service bits in the TCP header	d. Spyware filtering

Q31. Which one is not an example of UTM. Q37. Which of the following is a requirement for a Untangle trusted VPN? b. sonicwall a. No one other than the trusted VPN provider can affect the creation or modification of checkpoint c. apath in the VPN d. tripwire b. No on eother than the trusted VPN provider can change the data, inject data, or delete data on Q32. Honeypots are used to: a path in the VPN. Attract attackers by simulating systems c. The routing and addressing used in a trusted with open network services VPN must be established before the VPN is created. b. Monitor network usage by employees d. All of the above Process alarms from other IDSs c. Q38. ----is a system that has been d. Attract customers to e-commerce sites hardened to resist attack, and which is installed At which two traffic layers do IDSes Q33. on a network in such a way that it is expected to generate signatures? potentially come under attack. Application layer a. Bastian host a. b. Network layer & Transport layer b. Proxy Session layer & application layer c. c. Gateway d. Transport layer & application layer d. Firewall O34. ----- firewalls are also known Q39. In tunnel mode..... as first generation firewalls. a. Only the payload of the packet is a. Packet filtering encrypted b. Entire packet is encrypted b. Application layer filtering c. Payload is never encrypted d. None of the above c. Session layer Q40. ----is not an access attack d. Border **Snooping** a. b. Eavesdropping Q35. Which of the following is an IPsec protocol DoS c. d. Non repudiation a. SSH b. TLS Q41. Which of the following can not be used as an c. AH **IDS** a.Windump d. SFTP b.TCPdump c.Libpcap Q36. Which of the following is an IPsec mode? d. Nmap a. Encryption mode Q42. A false positive can be defined as b. Encapsulation mode

c. Tunnel mode

d. Cyclic chaining mode

a) an alert that indicates nefarious activity on a system that, upon further inspection, turns out to represent legitimate network traffic or behavior. b) an alert that indicates nefarious activity on a system that is not running on the network. c) the lack of an alert for nefarious activity. d) Both a and b

sensor?

Q43. The protocol identifier number assigned to ICMP in the standard IP packet is

a. 1

b. 17

c. 8

d. 23

Q44. Which of the following is not a capability of network-based IDS?

a. Can detect denial-of-service attacks

b. Can decrypt and read encrypted traffic

- c. Can decode UDP and TCP packets
- d. Can be tuned to a particular network environment

Q45. Known vulnerabilities in a application / software are identified by

a. CVE ID (Common Vulnerabilities and Exposure)

- b. Common Vulnerability Scoring System (CVSS)
 - c. Exploitable Score
 - d. None of these above

Q46. What is the default MTU size in 802.3 Ethernet

a. 1500

b.2000

c. 65535

d. 3000

Q47. Assault on system security that derives from an intelligent threat is

a. Exploit

b. Attack

c.ToE

d. Vulnerability

Q48. What is the total length of UDP header in bytes

a. 16

b. 20

c. 8

d. 12

Q49. Which of the following describes a passive, host-based IDS?

- a. Runs on the local system
- b. Does not interact with the traffic around it
- c. Can look at system event and error logs
- d. All of the above

Q50. alert tcp \$EXTERNAL_NET any -> 192.168.1.0/24 111 (msg: "mountd access"; content: "|00 01|"; sid:1000001;)
In the above signature / rules content field is a

- a. Hexadecimal string
- b. String
- c. Digit
- d. None of the above

Q51. Which of following is not a protocol field of snort rule header

- a. TCP
- b. ICMP
- c. UDP

d. HTTP

Q52. Command to capture all udp packets with destination port 53 and write it to dump.pcap is

- a) tepdump udp and dst port 53 -w dump.pcap
- b) tcpdump udp and port 53 -r dump.pcap
- c) tcpdump protocol udp and 53 -w dump.pcap
- d) none of these

Q53. The ____ option of Tcpdump is used to print the link-layer header.

- a. –S
- b. -nn
- с. -е

d. -X

Q54. Print or capture only SYN packet coming at your interface using tcpdump:

a. tcpdump 'tcp[13]=18'

- b. tcpdump 'tcp[13]=16'
- c. tepdump 'tep[13]=2'
- d. tcpdump 'tcp[13]=8'

Q55. tcpdump -tt:

- a) prints the time in unformatted timestamp in dump line.
- b) does print the time in dump line
- c) Print a timestamp in default format proceeded by date on each dump line
- d) Print a delta (micro-second resolution) between current and previous line on each dump line

Q56. Anomaly detection is applicable in a variety of domains, such as intrusion detection, ______, fault detection, system health monitoring, event detection in sensor networks, and detecting eco-system disturbances

a. tort

b. fraud

- c. negligence
- d. neutral reportage

Q57. Which security control is a consequence of nonmalicious activity generally representing an error?

a. true positive

b.false positive

- c.true negative
- d. false negative

Q58. Which of the following is true for anomaly-based IDS?

a. They alert administrators about the deviations from "normal" traffic behavior.

b. The technology is mature and reliable enough to use on production networks.

- c. They scan network traffic or packets to identify matches with attack-definition files.
- d. None of the above..

Q59. On a VPN, traffic is encrypted and decrypted at:

- a. End points of the tunnel only
- b. User's machines
- c. Each device at each hop
- d. The data link layer of access devices

Q60. Which of the following best describes an attack that alter the content of two critical files?

a. Integrity

- b. Confidentiality
- c. Availability
- d. Authentication

Q61. IPsec provides which options as security services?

a. ESP and AH

- b.ESP and AP
- c.EA and AH
- d.EA and AP

Q62. Which of the following is an IPsec mode?

- a. Encryption mode
- b. Encapsulation mode

c. Transport mode

d. Cyclic chaining mode

Q63. How many built-in tables are in iptables

- a. two
- b. three

c. four

d .five

Q64. Which one is not a target in iptables?

a. ACCEPT

b. DROP	b. save-iptables
c. FILTER	c. iptables-save
d. RETURN	d.iptables-submit
Q65. How many chains are there in NAT table	Q70. Probably the simplest physical attack on the computer system is:
a. two b. three c.four d. five	 a. Accessing an Ethernet jack to attack the network b. Using an imitation to fool a biometric authenticator c. Installing a virus on the CCTV system d. Outright theft of the computers
Q66. In iptables, the table is responsible for the alteration of quality of service bits in the TCP header	Q71. Which among the following is not a functionality of UTM. a. Spyware filtering
a.FILTER	b. Content Filtering
b.NAT	c. Network bandwidth management
c.MANGLE	d. Network Link management
d.RAW	
Q67. In a, the source IP address is maintained and the destination IP address is changed.	Q72. What is the three-way handshake sequence used to initiate TCP connections? a. ACK, SYN/ACK, ACK
a.DNAT	b. SYN, SYN/ACK, ACK c. SYN, SYN, ACK/ACK d. ACK, SYN/ACK, SYN
b.SNAT	
c.Switching	One Harris and a service like
d.Bridging	Q73. Honeypots are used to:
Q68. A allows a host on the "outside" to connect to a host on the "inside".	a. Attract attackers by simulating systems with open network services
a. DNAT	b. Monitor network usage by employees
b. SNAT	c. Process alarms from other IDSs
c. Switching	d. Attract customers to e-commerce sites
d. Bridging	sites
Q69. Which command is used to save iptables rule	Q74 firewalls are also known as first generation firewalls. a. Packet filtering
a. iptables-store	b. Application layer filtering

	c. Session layer
	d. Border
Q75. A categor	pplication proxy firewalls falls under the y of
	a. First generation firewalls
	b. Second generation firewalls
	c. Third generation firewalls
	d. Fourth generation firewalls
Q76. threate	Weakness in a mechanism that can n CIA triads of an asset is known asa. a. Vulnerability
	b. Confidentiality
	c. Integrity
	d. Availability
Q77. module	Netfilter is a
	a. user space
	a. user space b.kernel space
	-
	b.kernel space
Q78	b.kernel space c.Application space
Q78	b.kernel space c.Application space d. link space
Q79. W	b.kernel space c.Application space d. link space is not an access attack a. Snooping b. Eavesdropping c. DoS d. Non repudiation Thich among the following authentication
Q79. W	b.kernel space c.Application space d. link space is not an access attack a. Snooping b. Eavesdropping c. DoS d. Non repudiation Which among the following authentication reakest? a. Token
Q79. W	b.kernel space c.Application space d. link space is not an access attack a. Snooping b. Eavesdropping c. DoS d. Non repudiation Thich among the following authentication reakest? a. Token b. Retina scan
Q79. Wis the w	b.kernel space c.Application space d. link space is not an access attack a. Snooping b. Eavesdropping c. DoS d. Non repudiation Thich among the following authentication reakest? a. Token b. Retina scan c.Passwords d. Pass phrase
Q79. Wis the w	b.kernel space c.Application space d. link space is not an access attack a. Snooping b. Eavesdropping c. DoS d. Non repudiation Thich among the following authentication reakest? a. Token b. Retina scan c.Passwords d. Pass phrase Which of the following bit is set ON when mection is terminated due to the abnormal