16. Which of the following ports is used by the Domain Name Service? A. 135 B. 53 C. 67 D. 25 A person who uses hacking skills for defensive purposes is called a:
 A. Hackitvist
 B. Grey hat hacker
 C. Black hat hacker
 D. White hat hacker Answer: B Answer: C 17. Enumerating TCP port 25 can give you information on which of the following services? A SNMP SNMP C LDAP D.NTP Answer: D 32. Viruses that change their characteristics and signatures on infection to avoid antivirus detection are called:
A. Encryption viruses
B. Polymorphic viruses
C. Companion viruses
D. Boot sector viruses What is the preparatory phase of hacking called?
 A. Scanning
 B. Reconnaissance
 C. Enumeration
 D. Footprinting Answer: B Answer: B 18. Which of the following built-in commands can enumerate NetBIOS services on a Windows machine? Answer: B 33. Which of the following files could be considered as a "safe" file, rather than a potential file extension virus?
A. work doc.end
B. work ext.
D. work ext.
D. work ext. 3. Which of the following is a weakness in a system, application, network or process? A: Threat B. Exploit C. Vulnerability D. Attack Machine?
A. nmap.exe
B.nc.exe
C.netstat.exe
D.nbtstat.exe Answer: D Answer: C 19. What is the default read/write community string for SNMP?
A. secret
B. public
C. private
D. password Which of the following refers to an attacker exploiting vulnerabilities before the vendor has a patch or mitigation for them?
 A Day I attack
 B. Zero Ay attack
 Caspolan
 D. Category I attack Answer: D 34. A piece of malware that is able to spread to a variety of hosts across a network, without human intervention, is called a _______.

A. Trojan

B. Spreader virus

C. Woorm

D. Bot Answer: C Answer: B 20. Which SMTP enumeration command is used to identify the recipients of a message? Answer: C 5. Which of the following refers to an unskilled backer that uses pre-made scripts and tools to hack into systems?

A. Ethical Hacke
B. Grey Hack
C. Cyber Terrorist
D. Script Kiddle A. EXPN
B. VRFY
C. RCPT TO
D. HELO 35. All of the following are characteristics of worms, EXCEPT:
A. Corrupts executable programs
B. Self-replicating
C. Does not modify programs
D. Easily removed Answer: C Answer: D 36. Which of the following protocols is most vulnerable to sniffing attacks?
A. FTP
B. SSH
C. SSL
D. IPSec 6. Gathering information about a target without direct contact is called: A. Social engineering B. Passive footprinting C. Active footprinting D. Enumeration 21. Which type of password attack makes use of extensive wordlists to hash and run against a captamed password hash?
A. Changer
A. Changer
B. Brute Force
C. Rainbow tables
D. Dictionary Answer: A Answer: D 7. All of the following information is typically gathered during the footprinting stage of an attack EXCEPT.

A. Log files
B. IP address range
C. Domain names
D. Website names 37. Which network device mitigates sniffing attacks? A. Repeaters B. Bridges C. Hubs D. Switches B. SAM file C. PASSWORDS file D. C:\Windows\system32\shadow Answer: D 38. All of the following are susceptible to sniffing EXCEPT: A Plaintext passwords B. FTP file transfers C. Encrypted communications sessions D. Telnet sessions 8. Determining which hosts on a network are running SMTP services is an example of: A. DNS footprinting B. Email footprinting C. WHOS footprinting D. Google hashing 23. Which of the following is a popular password cracking tool for Linux-based systems?

A. John he Ripper
B. Cain and Abel
C. KeyPass
D. Passcrack Answer: C 9. Which of the following Google backing operators will return search query results that contain ALL of the query terms in the web site title?
A. intitle
B. site
C. allinurl
D. allintitle 39. What mode must a network adapter be placed in to facilitate sniffing attacks? 24. Which of the following types of rootkits work at the core of the operating system?

A. Library rootkit

B. Application-level rootkit

C. Kernel-level rootkit

D. Firmware rootkit A. Listening mode
B. Promiscuous mode
C. Non-switched mode
D. Active mode Answer: B Answer: C 40. Which of the following is the most effective way to defend against sniffing attacks?
A. Two-factor authentication
B. Data compression
C. Complex passwords
D. Encryption 25. Which file system supports alternate data streams (ADS)? A. EXT3 B. NTFS C. FAT D. HPFS 10. All of the following information can be gathered from WHOIS footprinting EXCEPT: A. Web server vulnerabilities B. Domain name B. Domain name C. Registered IP addresses C. Registered IP addresses D. DNS server information Answer: D Answer: B Answer: A 26. What kind of communications channel does a Trojan facilitate? A. Open B. Encrypted C. Overt D. Covert 41, All of the following human traits contribute to the success of social engineering attacks EXCEPT: A Suspicion B. Trust C. Social obligation D. Ignorance 11. A full TCP scan on a host or network involves:
A. Setting all TCP flags to "on"
B. A complete TCP 3-way handshake
C. Setting all TCP flags to "off"
D. Scanning all TCP ports Answer: A 12. During a "ping sweep", an active host returns what type of response?
A. ARP REPLY
B. ICMP ECHO REQUEST
C. ICMP ECHO REPLY
D. Nothing 27. All of the following are symptoms of a Trojan attack EXCEPT:
A. Abnormal increase of hard disk activity
B. Abnormal increase in network traffic from host
C. Unexplained pop-up messages
D. Computer shutdown due to overheating 42. Which of the following social engineering techniques is used to get an individual's para is its entered on the keyboard?

A Eave-dropping.

B. Dumpster diving.

C. Shoulder surfing.

D. Tailgating. Answer: D 28. A Trojan is installed on a system by means of a _ A. Dropper B. Wrapper C. Macro D. Batch file Answer: C 13. What type of scan is accomplished by running the command: nmap -sS 192.168.10.13? A. An ACK scan B. A SYN scan C. A ping sweep D. An XMAS scan 43. Which type of computer-based social-engineering attack attempts to persuade users to click on links in an email?

B. Phishing
C. Pop-up
D. Fake antivirus Answer: A 29. Which switch causes the netcat Trojan to listen on a specific inbound port? 14. Which TCP flag signifies a complete transmission? A. FIN B. SYN C. ACK D. RST Answer: B A. e B. 1 C. p D. d 44. An attack that targets specific individuals in an organization is known as a(n) Answer: B Answer: A 30. A ____ A. Proxy B. Botnet __Trojan uses a victim's host machine to act as an attacker 15. An XMAS scan consists of which TCP flags set as "on"?
A. FIN, URG, PSH
B. RST, URG, PSH
C. SYN, SYN/ACK, FIN
D. SYN, ACK, RST 45. Which is the best type of defense for social engineering attacks? A. Strong passwords B. Permissions C. Encryption D. Education C. Zombie D. Remote access

CEH (v8) Practice Exam (With Key)

Answer: A

46. What type of DoS attack starts the first part of a TCP three-way handshake using a sponfed source P address, but does not complete the process?

A. ICMP flood

B. XMAS attack

C. SYN attack

D. UDP flood 76. Which of the following terms applies to a mobile device that has been rendered inoperable does to attempts to back it?

A rooting

B bricking

C jailbreaking

D. Sandboxing C. Encryption D. Authentication Answer: D 62. Entering data into a web form that the form was not designed to handle is an example of: A. Parameter manipulation
B. Unvalidated input
C. XML injection
D. SQL injection Answer: C 77. A secure environment in which mobile applications run is called a _____ A. Chrooted jail B. Sandbox C. Firewall D. Cleanroom 47. Which protocol is used to perpetrate a "Ping of Death" attack? A.UDP B. ICMP C. TCP D. FTP Answer: B 63. An attack that allows database commands to be appended to invalid form input is known as:
A. Cross-site request forgery
B. Parameter tampering
C. SQL injection
D. XML injection Answer: B Answer: B 78. The Android mobile operating system is based upon ___ A. BSD ___ B. Mac OS ___ C. Windows ___ D. Linux 48. A large network of compromised hosts, all remotely controlled to attack a victim host or network; is called a:

18. Honeynet
C. Mainet
D. Trojan Army Answer: C 64. Which type of attack takes advantage of a web application not properly programmed to manage memory or data stronge?

A XM. injection attack
B. Buffer overflow attack
C. Cross-site scripting attack
D. Command injection attack Answer: D Answer: A 79. Which of the following are programs designed to root an Android device? A. Cydia B. ZitMo 49. Which of the following tools can be used to conduct a Denial of Service attack on a host?
A. HPmg3
B. netcat
C. Nmap
D. Nesus Answer: B C. SuperOneclick D. Redsn0w 65. All of the following could result from improper error handling in a web application EXCEPT:
A. Denial of service
B. Command shell
C. Memory errors
D. Weak passwords Answer: C Answer: A 80. A(n) _____ mobile devices. A. simulator B. sandbox C. emulator D. virtual device _ can be used by security professionals and hackers to test exploits against 50. All of the following are defenses against DoS attacks EXCEPT:
A. Packet filtering
B. Dropping HTTP packets at the firewall
C. TCPIP stack hardening
D. In-line IDS Answer: D 66. Which SQL command is used to determine which records to retrieve from a database table?
A. Update
B. Select
C. Insert
D. Delete 81. Which of the following is the most effective scanning technique used to detect firewalls on a network?

A. Full TCP connect scan
B. SYN scan
C. I.CMP scan
D. ACK scan 51. All of the following items make session hijacking successful EXCEPT: A. Plaintext passwords
B. HTTP referrer
C. Session ID
D. Public keys Answer: D Answer: B Answer: D 67. In which type of SQL injection attack are the results of the command string entered not visible to the attacker?
A. Blind SQL injection
B. Hidden SQL injection
C. Fales SQL injection
D. Simple SQL injection 52. Which of the following are needed to successfully break into a TCP communications 82. What scanning technique is useful for avoiding IDS detection? A. TCP scan B. Stealth scan session?
A. Port number
B. Serial number
C. Sequence number
D. Protocol number C. Ping sweep D. XMAS scan Answer: B 53. What must be done after finding a connection of interest to begin the session bijacking attempt?

A. Desynchronizing the connection B. Decypting the session B. Decypting the session D. Flooding the connection D. Flooding the connection 83. Which of the following can make it difficult for an IDS to read the traffic from an attacker?
A. Encryption
B. Sporting
C. Tumeding
D. Flooding 68. Which text can be appended to an SQL command to generate an error or get access to an entire database table? Answer: A Answer: B 84. What type of device emulates other operating systems on a network? 69. Which of the following RDBMS applications are vulnerable to SQL injection?

A. Oracle

B. Microsoft SQL Server

C. Postgre

D. All of the above 54. Which of the following attempts to take over the session a client establishes with a web A. Scanner B. Sniffer C. Honeypot D. Spammer server?
A. TCP hijacking
B. Cross-site scripting
C. Spoofing
D. Flooding Answer: C Answer D 85. Which common protocol is often used to tunnel malicious traffic through, as it is frequently not blocked through friewalls?

B HTTP
C. FTP
D. ICMP Answer: B 70. Which of the following is the best mitigation for SQL injection attacks?
A. Input validation
B. Encryption
C. Complex passwords
D. File permissions 55. Which type of session hijacking attack requires that the attacker's transmission follow a specific network or Internet path?

A. Source routing

B. Reverse routing

C. IP spoofing

D. Sequence prediction Answer: A Answer: B 56. All of the following are web server attack vectors EXCEPT: A. Faulty directory permissions B. Plaintext passwords C. Encrypted password hashes D. Unpatched server software 71. WEP is a vulnerable wireless protocol due to all of the following EXCEPT: A. Small IV size B. Use of AES C. Use of RCd D. Repealing keys 86. Which attack takes advantage of small allocation areas for memory space and strings in a program?
A. XML injection
B. Command injection
C. SQL injection
D. Buffer overflow attack Answer: B Answer D 57. Which of the following is an example of a web server configuration issue that an attacker may exploit.

B. Expired SSL centificates
C. Use of older, less secure browsers
D. Use of fond-standard ports 72. Which of the following wireless security protocols use AES? A. Open WEP B. WPA C. C. WPA2 D. Shared WEP 87. Which of the following programming languages is popular in developing buffer of programs?

A SQL

B Shell scripts

C PERL

D. C++ Answer: C Answer: A 73. Which of the following commands will place a wireless network card into monitor mode? Answer: D 58. Which attack allows the attacker to view files outside the web server root directory?
A. Session hijacking attack
B. Privilege exclation attack
C. Default shares attack
D. Directory queriesal attack A. airodump-ng mon0
B. airmon-ng start wlan0
C. aireplay mon0
D. airmon-ng start mon0 88. A popular compiler on the Linux platform, used to help create buffer overflow programs, is: A. gec $\,$ B. gdd $\,$ C. neteat $\,$ D. vim

Answer: B 60. An attack where malicious HTML tags or scripts are injected into a victim website is called a...A. session hijacking attack
B. cross-site request forgery attack
C. cross-site scripting attack
D. SQL injection attack Answer: C 61. An attacker can alter a cookie to thwart

59. Which attack allows an attacker to intercept communications between a client and web

server?
A. TCP/IP hijacking attack
B. Man-in-the-middle attack
C. Birthday paradox attack
D. Sniffing attack

Answer: B 74. What must be captured during a wireless attack on WPA/WPA2?
A. 4-way handshake
B. 3-way handshake
C. 802.1X key
D. WEP key Answer: A 75. Which command or program is used to perform a dictionary attack on a WPA/WPA2 capture file to othatin the key?
A. aicracak-up. B. aireplay-up C. Netcat
D. Jack the Ripper Answer: A

Answer: A 89. A buffer set to hold 25 characters will overflow when the number of characters entered into it is: A. Validated B. Exceeded C. Reduced D. Converted Answer: B

90. Which of the following will reduce the number of buffer overflow conditions?
A. Bounds checking in lips and the following th

Answer: A

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107. Which command can be used to compile a buffer overflow program?

A. goc buffer_overflow.cibuff_ovflw

B. goc buffer_overflow.c-o-buff_ovflw

C.goc buffer_overflow.txt -o-buff_ovflw.c

D.goc buffer_overflow.buff_ovflw
92. Which of the following are hashing algorithms?
A. AES
B. SHA-256
C. 3DES
D. RC4
                                                                                                                                                                                                                   Answer: B
Answer: B
                                                                                                                                                                                                                   108. Which command in Windows can be used to insert a file into another via NTFS streams?
93. Which of the following algorithms is used to generate a private/public key pair? A. TWOFISH
B. ALS
C. R.C.
D. RSA
                                                                                                                                                                                                                   Answer: A
94. If Bobby sends Tim a message encrypted with Tim's public key, which key is required to decrypt i?

A. Bobby's public key
B. Bobby's private key
C. Tim's public key
                                                                                                                                                                                                                   109. Which of the following commands starts a netcat listener?
Answer: C
                                                                                                                                                                                                                   110. Which of the following programs is used to detect NTFS Alternate Data Streams (ADS)?
95. Which cypography attack requires the attacker to have a confirmed piece of plaintext, and its corresponding ephetrect, in order to derive the key?

A from plaintext attack.

B. Chosen plaintext attack.

C. Romon ephetrect attack

D. Chosen ciphertext attack
                                                                                                                                                                                                                   A. Netcat
B. LADS
C. StegDetect
D. type
                                                                                                                                                                                                                   Answer: B
Answer: A
96. Which type of presentation test is completely blind in terms of organizational and informationate showledge possessed by the tester?

A. Black box test
B. Grey box test
C. External test
D. White box test
                                                                                                                                                                                                                   111. Which of the following is a popular password cracking tool for Windows?

A. Netcat

B. Jack the Ripper

C. Cain and Abel

D. Nessus
                                                                                                                                                                                                                   Answer: C
Answer: A
                                                                                                                                                                                                                   112. All of the following are considered to be popular Trojan horse programs EXCEPT:
97. Which type of test actually exploits weaknesses found in a system?
A. White box test
B. Black box test
C. Vulnerability assessment
D. Penetration test
                                                                                                                                                                                                                   A. Kriptomatic
B. Back Oriffice
C. Metasploit
D. NetBus
                                                                                                                                                                                                                  Answer: C
                                                                                                                                                                                                                  113. Using which of the following password cracking techniques risks locking an account?

A. Online attack
B. Offline attack
C. Brute force attack
C. Brute offer attack
98. What is the most critical element in the planning phase of a penetration test?
A. Scope and schedule
B. Permission to test from the system owner
C. Personnel assignments
D. Equipment list
                                                                                                                                                                                                                   Answer: A
 Answer: C
                                                                                                                                                                                                                   114. Which switch enables Nmap to perform OS fingerprinting?
99. A penetration test specifically targeted at one part of the infrastructure is considered a: A. White box assessment B. Limited scope assessment C. Valmerability assessment D. Security and ID. Security and ID.
                                                                                                                                                                                                                 A. -sP
B. -A
C. -sT
D. -U
                                                                                                                                                                                                                   Answer: B
                                                                                                                                                                                                                 115. Which tool enables a hacker to actually exploit vulnerabilities found on a host?
A. Metasphoit
B. Nmap
C. Nesus
D. Netcut
 100. Which of the following should be included in the final penetration testing report?
A. Blame
B. Offers of additional services
C. Criticisms of personnel
D. Mitigations
Answer: D
 101. Which of the following ports are used by FTP?
A. 21
B. 23
C. 22
D. 53
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91. Which of the following is generally considered to be public knowledge, instead of confidential?

A. Private key
B. Password
C. Algorithm
D. Symmetric key

102. All of the following are considered cleartext protocols EXCEPT: A. Telnet B. FTP
C. SSH
D. HTTP

103. Which port is used when a hacker uses the Telnet protocol to communicate with a mail server to enumerate it? A. 23 B. 25 C. 129 D. 22

104. During a poet scan, mmap discovers that port 1433 is open on a host. Which service listens on port 1433?
A SSL
B. MS SQL Server
C. NTP
D/POP3

10.6. If port 111 is identified on a host during a port scan, which operating system is likely to be naming on the host?

A. Mac OS

B. Windows 7

C. Windows XP

D. Unix

Answer: C

Answer: B

Answer: D

Answer: C

116. Where are user accounts stored on a Linux host?
A. Jetc/SAM
B. Jetc/shadow
C. Jetc/passwd
D. Jetc/passwd Answer: C 117. Which secure protocol uses TCP port 443? A. SSL B. SSH C. IPSec D. SFTP Answer: A 118. Which of the following is true regarding physical system access?
A. Most operational procedures prevent physical system access
B. Physical access can be used to break encryption keys
C. Session encryption may prevent physical access
D. Firewalls and other security devices may be bypassed Answer: D 119. Hackers may try to cover tracks by deleting ______
A. user accounts
B. audit logs
C. encryption keys
D. shared data Answer: B 120. How many characters are in a MD5 hash? A. 160 B. 128 C. 32 D. 16 Answer: C 121. Which type of device plugs into a port on a host to capture information?

A. IDS

B. Keysroke logger

C. Sniffer

106. Which of the following is a popular web application vulnerability scanner?
A. Metasploit
B. Nnap
C. Acunetix
D. NetToolsPro

Answer: C

Answer: B

Answer: A

Answer: B

Answer: D

Answer: C

A. Scanning
B. Footprinting
C. Covering tracks
D. Escalation of privileges

122. Which of the following can be used to steal password hashes from a Windows machine?
A. Pedump
B. Nnap
C. Nessus
D. Acunetit

123. Which Security Identifier (SID) suffix identifies the true administrator account on a Windows host, even if it has been renamed?

8. 500

8. 500

D. 0

124. After obtaining user-level access to a host, what is the next most likely step for a hacker?

125. Which type of configuration issue is most easily exploitable by a hacker?
A. Restrictive directory permissions
B. Use of ASS excryption
C. Default passwords
D. Disabling file and print sharing