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- Which of these port designations could not be a result of running nmap as follows: nmap 172.18.0.75.
 - A. 21/tcp open ftp
 - B. 53/tcp closed domain
 - C. 445/tcp open microsoft-ds
 - D. 8080/tcp filtered http-proxy

- B. 53/tcp closed domain (CHECK)
- D. 8080/tcp based on https://wiki.onap.org/display/DW/Nmap "Nmap cannot determine whether the port is open because packet filtering prevents its probes from reaching the port."
- 2. Which of these would function the same with either a SOCKS 4a or SOCKS 5 proxy?
 - A. DNS requests.
 - B. Communication with a host based on an AAAA DNS record.
 - C. nmap -A
 - D. Https requests using wget.

C. nmap -A (A, based on https://security.stackexchange.com/questions/134658/difference-be-

tween-socks5-and-socks4-p <- review says nmap -A

- What distinguishes the CheckRa1n jailbreak 3. from previous iPhone jailbreaks?
 - A. The jailbreak is completely untethered.
 - B. It is not necessary to unlock the phone to execute this jailbreak.
 - C. The jailbreak is not dependent on the OS version.
 - D. It is the first jailbreak distributed by Pangu.
- C. The jailbreak is not dependent on the OS version.

- Which of these things has caused whois records C. Enacting the GDPR 4. to be of less utility in open-source intelligence? https://www.zd-A. The ruling on DNS zone transfer by the court net.com/artiof North Dakota.
 - B. A change of ownership of IANA.
 - C. Enacting the GDPR.
 - D. The Tallinn Manual concerning cyber warfare.
- cle/icann-makes-last-minute dress-gdpr-requirements/

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Which of these is most likely to employ a small C. A password spraying collection of passwords likeFall2019?

attack.

- A. A spearphishing attack.
- B. A brute-force password cracking attack.
- C. A password spraying attack.
- D. A dictionary attack on the password hashes of a company's top-level executives.
- Why does sslstrip need ipforward set to true in D. To make sure pack-6. /proc/sys/net/ipv4/?

A. So that https packets will reach their destina- sslstrip process get to tions.

- B.To insure that http packets (that should not be tions. stripped) reach their destinations.
- C. This is not actually a requirement of sslstrip.
- D. To make sure packets not relevant to the ssistrip process get to their intended desti-nations.
- What is the primary benefit that Shodan pro-7. vides to penetration testers?

A. It allows one to determine available services without actually querywithout actually querying the host.

- B. It identifies out-of-date software versions.
- C. It lets one run checks against services to determine their vulnerabilities.
- D. It uses masscan on private networks, yielding faster service discovery than nmap.

ets not relevant to the their intended desti-na-

mine available services ing the host.

A. It allows one to deter-

1. Which of these files is most likely to contain 8. database credentials?

global.asa (Really check)

- A. global.asa
- B. groups.xml
- C. .htaccess
- D. robots.txt
- What is the netmask of the network associated C. 255.255.192.0 9. with host 128.227.224.196 having 16,382 hosts? A. 255.255.63.0



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- B. 255.255.128.0
- C. 255.255.192.0
- D. 255.255.255.0
- 10. Which of these tools can be used to help fierce C. Cewl use active scanning to find hosts whose namesare not in the default dictionary and whose addresses are in private IP address ranges?
 - A. nmap
 - B. amass
 - C. Cewl
 - D. NES
- 11. What reconnaissance is necessary if one wants A. Identify the VID/PID to mount an effective attack with a USB rubber- of the hardware in use ducky? at the site you will be visiting to avoidneed-

A. Identify the VID/PID of the hardware in use at the site you will be visiting to avoidneedless less popup messages. popup messages.

- B. Verify that only Windows devices are installed because Duckscript requires it.
- C. Find the baud rate of the serial keyboard port.
- D. Know the SMB patch level of the server under attack
- 11. Which of these might be associated with a 12. SuperCookie?

A. A website using HSTS.

- A. A website using HSTS.
- B. XSS associated with a CSRF attack.
- C. A secure, rotating token to support multifactor authentication.
- D. SQL mitigation techniques.
- Which of these flags is most likely to be modified C. Source Port 13. when forwarding a TCP packet?
 - A. Flags
 - **B. Checksum**
 - C. Source Port
 - D. Sequence Number

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- 14. Which of these ports is most likely to alert an IDS C. Port 1337. if used as a handler port for a reverse-httpsmeterpreter shell?
 - A. Port 80.
 - B. Port 443.
 - C. Port 1337.
 - D. Port 3306.
- 15. Which of these is most likely to render an arpspoof for MITM ineffective?
 - A. Use of fully patched linux/windows operating uses layer-3 overlays systems.
 - B. Use of a CISCO Catalyst switching system.
 - C. Using resources from a cloud provider who uses layer-3 overlays and does not supportlayer 2 at all.
 - D. Use of a Web Application Firewall (WAF).

C. Using resources from

a cloud provider who

and does not support-

layer 2 at all.

- 16. Why could your instructor not correctly implement a dirty sock vulnerability in an exercise? A. The debian version being used in the VM was server. not compatible with the dirty sockrepository. B. The kernel version employed did not exhibit the snapd vulnerability.
 - C. Snapd requires internet access to reach a server.
 - D. He's just not smart enough.
- 17. Which of the following distinguishes the OSST- C. The OSSTMM ad-MM from the Flaw Hypothesis Model? A. The Flaw Hypothesis Model addresses legal/social issues to a much greater extentthan the OSSTMM.
 - B. The OSSTMM preceded the Flaw Hypothesis model by at least 10 years.
 - C. The OSSTMM addresses business risk, whereas the Flaw Hypothesis Model does not.
 - D. The OSSTMM does not address cryptograph-

C. Snapd requires internet access to reach a

dresses business risk, whereas the Flaw Hypothesis Model does not.

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ic protections while the Flaw HypothesisModel does.

- 18. Which of these properties of the program call stack in Intel machines made Aleph One's stacksmashing attacks possible?
 - A. The stack stores local variables in lower addresses than the frame pointer.
 - B. The frame pointer, while stored in the stack, can be overwritten to cause control totransfer to a different address.
 - C. The program stack stores local data in lower addresses that the return address.
 - D. The heap is stored in lower addresses than the stack.
- B. The frame pointer, while stored in the stack, can be overwritten to cause control totransfer to a different address.

19. Which of these port designations could not be a A. 25/tcp open ftp result of running nmap as follows:

nmap 172.18.0.75

- A. 25/tcp open ftp
- B. 53/tcp open domain
- C. 80/tcp open http
- D. 443/tcp open https
- What is the primary reason for Nikto's effective- B. Nikto automates 20. ness?

A. Nikto is written in Python and uses a module cross-site script vulnerthat has been improved for the last 35 years.

- SQL injection and ability checks.
- B. Nikto automates SQL injection and cross-site script vulnerability checks.
- C. Nikto's developers have included information from numerous web sites scanned in the past.
- D. Nikto uses the CUDA library to leverage the computational power and parallelism of GPUs.
- What is the primary difference between a **SOCKS 4A proxy and a SOCKS 5 proxy?**
- B. SOCKS5 adds support for UDP and ICMP,

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- A. SOCKS5 supports the use of proxychains, but which SOCKS4a ig-SOCKS4a does not. nores.
- B. SOCKS5 adds support for UDP and ICMP, which SOCKS4a ignores.
- C. SOCKS5 is implemented using HTML5.
- D. SOCKS4a is deprecated due to its reliance on jumbo packets.
- What problem is addressed by using the Meter- A. Communications will 22. preter's paranoid mode (as opposed to normal mode)?

be encrypted using a custom public/private key pair.

- A. Communications will be encrypted using a custom public/private key pair.
- B. No bind connections will be allowed.
- C. Exfiltrated data will be encrypted using TLS.
- D. Only high-numbered ports will be used for communication.
- 23. Which of these methods is currently the most popular for iPhone jail-breaks?

C. Using a semi-tethered jailbreak.

- A. Running the Dirty Cow exploit to install Cydia Substrate.
- B. Using a hardware tethered jailbreak.
- C. Using a semi-tethered jailbreak.
- D. Using the Shadow Broker's Eternal Romance jailbreak.
- Which of these is completely unnecessary for a C. A candidate passremote password spraying attack? word list. (check)
 - A. Network connectivity.
 - B. A copy of the /etc/passwd le.
 - C. A candidate password list.
 - D. An automated spraying tool or scripting language implementation plus ingenuity.
- 25. What kind of iptables rule does sslstrip require? A. A nat rule.
 - A. A nat rule.
 - B. A filter rule.
 - C. A raw rule.
 - D. A security rule.

- 26. What exploit can be used on a Bash Bunny that A. Execution of Powera Rubber Ducky will not support? shell code.
 - A. Execution of Powershell code.
 - B. USB HID device attacks on the keyboard.
 - C. Simulation of an actual USB drive device.
 - D. A Responder attack.
- 27. Which of these is likely to make a cookie difficult C. Using an HTTPOnly to retrieve using BeEF? cookie.
 - A. Using a SuperCookie.
 - B. Enabling ad blocking in your browser.
 - C. Using an HTTPOnly cookie.
 - D. Setting your browser to use https everywhere.
- Which of these isnotdone by hostapd-wpe? A. Use RADIUS to allow a client under attack to under attack to connect provide authentication credentials.
 - B. Broadcast the SSID of the station under attack.
 - C. Broadcast on the same channel as the station under attack.
 - D. Arrange for a client under attack to connect to the WAN.
- 29. Which of these compiler techniques is not used to ensureCFI?
 - A. Employing address space layout randomization.
 - B. Enforcing non-executable stack pages.
 - C. Unrolling loops to avoid jumps.
 - D. Analysis of transfer-point equivalence classes.
- 30. Which large password collection was reported B. Troy Hunt's list. by your instructor to have a most likely passwordlength of 9 characters?
 - A. The RockYou list.
 - **B. Troy Hunt's list.**

D. Arrange for a client to the WAN.

C. Unrolling loops to

avoid jumps.

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- C. Crackstation's human password list.
- D. The Ashley Madison password list.
- 31. Which of these is a reason to use themigratecommand in the meterpreter?
 - A. To pivot to another host.
 - B. To increase the likelihood that your session will persist longer.
 - C. To elevate your privilege to that of another process's user.
 - D. To get access to a filesystem mounted by another process.
- B. To increase the likelihood that your session will persist longer.

a clone of the station

- 32. Why does KrackAttack require the use of a dif- A. So it can set up ferent channel from the targeted station? A. So it can set up a clone of the station with the with the same MAC and same MAC and communicate withtarget clients. communicate withtarget B. To keep the bandwidth on the station's chan-clients. nel low because of the high number ofduplicated packets.
 - C. To increase the likelihood of capturing connections from clients who use randomchannel assignments.
 - D. This isn't really something that KrackAttack does.
- 33. Which flag(s)musthave value 1 in the second Packet of a TCP four-way disconnect?

A. SYN.

- B. SYN and RST.
- C. ACK.
- D. ACK and FIN.
- What method of encoding is used by Veil's Pow- A. Base64 34. ershell payload scripts?
 - A. Base64
 - B. ASE
 - C. XOR
 - D. Shikata Ga Nai

C. ACK.

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- 35. Which of these DNS record types will not help C. SRV. you in identifying the IP address associated with a hostname?
 - **A. A.**
 - B. CNAME.
 - C. SRV.
 - D. AAAA.
- 36. Which of these is required in order to arrange ssh MITM?
 - A. Arp spoof must be carried out.
 - B. The server public key must be captured.
 - C. The user must either not notice or ignore the server fingerprint mismatch.
 - D. A previous ssh login session must be sniffed.
- C. The user must either not notice or ignore the server fingerprint mismatch.
- 37. **Does moving to LTE mean that cell phone com-** D. No, as evidenced **munications are now secure?** by aLTEr-attack, a
 - A. They are presumed to be secure as no problems with DIAMETER have been identi-fied.
 - B. No, because SS7 still applies to all LTE calls exchanged between international carriers.
 - C. No, as evidenced by Tobias Engels' demonstration of call-forwarding at CCC.
 - D. No, as evidenced by aLTEr-attack, a DNS-spoofing attack against LTE networks.

D. No, as evidenced by aLTEr-attack, a DNS-spoofing attack against LTE networks.

- 38. Which of these is not true concerning sslstrip? D. You must have the sslstrip executable ru
 - B. You must arpspoof the gateway's address to the target and the target's address to the gateway.
 - C. You must set an iptable rule that will forward to the target. connections on port 80 to the sslstripprogram.
 - D. You must have the ssistrip executable running in order to downgrade https URLs to the pages delivered to the target.
- D. You must have the sslstrip executable running in order to downgrade https URLs tohttp in web pages delivered to the target.

- 39. Which of these isnottrue of IAM?

 A. Services can act freely once a group is as-
- B. Policies can be applied to other services.

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signed.

- B. Policies can be applied to other services.
- C. Roles can be applied to other services.
- D. Users must interact with the console, SDK, or CLI.
- 40. Which of these is the type of cross-site scripting B. Persistent. injection that would be used in an attackmounted by inserting a script tag into comments posted on a blog page?
 - A. DOM.
 - B. Persistent.
 - C. Viral.
 - D. Reflected.
- 41. Which of these is least likely to succeed against D. Extrabacon a Linux host?
 - A. Dirty Sock
 - **B. Dirty Cow**
 - C. Spectre
 - D. Extrabacon
- How is phishing typically used in the active 42. phase of a penetration testing engagement? A. To increase employee awareness of security. vide a foothold into the B. To shame employees who will click on anything.
 - D. To get a user to execute code that will pronetwork.
 - C. To get information about desktop software used by employees.
 - D. To get a user to execute code that will provide a foothold into the network.
- What name did a Russian security company give D. The Equation Group to the source of the exploits released by the-ShadowBrokers?
 - A. The NSA
 - B. Edward Snowden
 - C. Kaspersky Labs
 - D. The Equation Group

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- 44. What is the traditional source of information about the operation of LSASS functions?
 - A. undocumented.ntinternals.net.
 - B. The mimikatz source code.
 - C.Windows Internals, by Mark Russinovich.
 - D. The source code.

A. undocumented.ntinternals.net.

- 45. What can be done to best protect passwords against a rainbow table attack?
 - A. Employ the hash function multiple times in generating a password hash.
 - B. Use a salt of reasonably large size.
 - C. Use SHA-256 or higher.
 - D. Rotate which of a small set of hashes (fewer than ten or so) is used.
- B. Use a salt of reasonably large size.

- 46. Which of these can be used most effectively to A. A meterpreter port use nmap to scan a given port on a machinebe- forward. hind a firewall.
 - A. A meterpreter port forward.
 - B. A meterpreter route.
 - C. A meterpreter migrate command.
 - D. A meterpreter incognito assignment
- 47. Why did Microsoft issue the LAPS program?
 A. To fix a security problem introduced by LSASS.

B. To give administrators a rational approach to passwords for local addistributing passwords for local admin-istrators. ministrators.

- C. To provide a service that implements an authentication provider for a local domain.
- D. To address a security flaw in the lightweight administration protocol.
- B. To give administrators a rational approach to distributing passwords for local administrators.

- 48. Which of these isnota method of identifying ma- D. Categories. licious programs discussed by Lenny Zeltser?
 - A. Signatures.
 - B. Heuristics.
 - C. Behavior.
 - D. Categories.

Where is the security protection afforded by **HSTS** enforced?

C. In the browser.

- A. In the network stack.
- B. At the server.
- C. In the browser.
- D. At a firewall.
- 50. What usually accounts for NT AUTHORITY/SYS- A. NT AUTHORI-TEM not being able to execute a commoncom- TY/SYSTEM identifies mand?

a SID. not a user.

- A. NT AUTHORITY/SYSTEM identifies a SID, not a user.
- B. NT AUTHORITY/SYSTEM may not have access to local files.
- C. NT AUTHORITY/SYSTEM may not actually exist on a given Windows system.
- D. NT AUTHORITY/SYSTEM may not be able to enable debug privilege.
- 51. Which of these is not a reason to avoid use of telnet for exfiltration in a penetration test?

A. Telnet uses an unencrypted channel.

- B. Use of telnet requires a privileged port to be opened and contacted on your target.
- C. Telnet employs UDP, which does not reliably order packets.
- D. The telnet service is not usually enabled and enabling it may arouse suspicion.
- C. Telnet employs UDP, which does not reliably order packets.

- Which of these is not an effective method for an D. Disable USB autorun 52. organization to reduce the likelihood of Respon- on all Windows desktop der attacks?
- machines.
 - A. Make sure that the WPAD host is black-holed by your routers.
 - B. Disable LLMNR on all Windows machines.
 - C. Configure web browsers not to use proxy auto-discovery.
 - D. Disable USB autorun on all Windows desktop machines.

- 53. Which of these exploits is the most likely to be B. Dirty Cow. the result of patch analysis (at least accordingto your instructor's analysis)?
 - A. The recent Linux sudo attack.
 - **B. Dirty Cow.**
 - C. Eternal Blue.
 - D. MS08-067.
- 54. Which type of web vulnerability is least likely to A. Web server be remediated by a small business? canonicalization errors. A. Web server canonicalization errors. (CHECK)
 - B. Sample file vulnerabilities.
 - C. Web server extensions.
 - D. Custom application input validation.
- 55. What response is given by a web server when- B. 401 Unauthorized. ever a request to a page requiring Basic Auth
 - A. 200 OK.
 - B. 401 Unauthorized.
 - C. 203 Non-authoritative Information.

isencountered for the first time?

- D. 400 Bad Request
- 56. Which of these types of attacks employs the same underlying type of vulnerability that theSSRF techniques developed by Orange Tsai exploit?
- B. The Android Master Key vulnerability.

- A. Eternal Romance.
- B. The Android Master Key vulnerability.
- C. SSLstrip.
- D. GPP local admin password.
- Which of these security requirements ap-57. plies only to MASVS-R, the strongest of the MASVSverification levels, and not to the weaker responds to a debugger levels?
- C. The app prevents debugging or detects and being attached.
 - A. The app uses proven cryptographic methods.
 - B. Network-transmitted data is encrypted using **TLS**

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- C. The app prevents debugging or detects and responds to a debugger being attached.
- D. Security controls are never enforced on the client side of any network request.
- 58. Which of these would be necessary in order to capture network-transmitted data from a for Wifi in Airplane non-rooted Android phone.
 - A. Use ADB to download the apk file.
 - B. Use tcpdump in user mode.
 - C. Use MobSF to MITM the connection.
 - D. Configure the phone for Wifi in Airplane mode and capture packets on the WAN sideof the AP.
- D. Configure the phone mode and capture packets on the WAN sideof the AP.
- What does Chris Hadnagy define as "the act of A. Eliciation. 59. bringing something out or arriving at a con-clu-
 - A. Eliciation.

sion?"

- B. Exfiltration.
- C. Information gathering.
- D. Social engineering.
- 60. Which of the following things would provide the D. /etc/passwd least value in an offline password cracking attack?
 - A. oclhashcat
 - B. John the Ripper
 - C. rockyou.txt
 - D. /etc/passwd
- In order to avoid susceptibility to L0phtCrack, C. 15 characters what is the minimum length for an NTLMpassword?

- A. 7 characters
- B. 14 characters
- C. 15 characters
- D. 17 characters
- How is the unquoted Windows search path vul- A. By placing an ap-62. nerability exploited? propriately named ma-

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- A. By placing an appropriately named malicious licious program in the program in the right directory.

 right directory.
- B. By overwriting a vulnerable service program.
- C. By modifying the parameters of a given service.
- D. By arranging for the update of a service that can be installed by a non-admin user.
- 63. Which of these is required in order to achieve a A. The application servsilver Ticket attack? er must not verify the PAC.
 - PAC.
 - B. The krbtgt account's hash must be captured somehow.
 - C. The server must not have changed the krbtgt account password twice since it wascaptured.
 - D. A domain admin must be specified as the intended service user.
- 64. In Zinar and Simakov's Defcon talk, what under- C. If the MIC-set bit is lying problem with the MIC check in NTLMnego- set, a blank MIC can be tiation was exploited?
 - A. The MIC is created using information available in the exchange.
 - B. It is possible to drop and replay a different connection with the same MIC.
 - C. If the MIC-set bit is set, a blank MIC can be used.
 - D. The MIC is weak, thus the payload can be modified to make the MIC match.
- 65. Which of these ports is most likely to alert an IPS C. Port 443. if used as a handler port for a reverse-https meterpreter shell?
 - A. Port 8080.
 - **B. Port 4444.**
 - C. Port 443.
 - D. Port 80.

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Why might you have administrator privilege on a machine but not be able to access a share?

A. Because the files on that share do not have administrator read privilege set?

- B. Because you do not have the kerberos ticket granting ticket password.
- C. Because you are a local rather than domain administrator.
- D. Because you are accessing the system through remote desktop.

C. Because you are a local rather than domain administrator.

- 67. Which of these is not something that Responder supports?
 - A. Use of LLMNR to trap host names not resolved via DNS.
 - B. Advertisement of a malicious WPAD server.
 - C. MITM of SSL connections.
 - D. Injection into html web pages.
- What is an intended use of gratuitous ARP 68. replies?
 - A. To allow hardware to be replaced without disruption.
 - B. To allow Layer 2 MITM.
 - C. To allow Layer 3 switches to be recongured automatically.
 - D. To generate a corresponding ARP request.
- Which of these is not true of the Dirty Cow ex-69. ploit?

A. It relies on an Intel hardware prefetch error in in order to function cororder to function correctly.

- B. It relies on kernel code that had unintended consequences.
- C. It can leave a system in an unstable state that may cause it to crash.
- D. It employs memory-mapped les.
- 70. Which of the following is a creation of R.R. Linde?

A. It relies on an Intel hardware prefetch error rectly.

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- A. The ssistrip tool.
- B. The arpspoof utility.
- C. The Social Engineering Toolkit.
- D. The Flaw Hypothesis Model for penetration testing.

D. The Flaw Hypothesis Model for penetration testing.

D. Traceroute now targets port 53 since so

many hosts refuse to

response to ping re-

71. Which of these elements is not true of traceroute?

A. Traceroute can identify hosts as far away as 511 hops away on the internet.

- B. Traceroute sends 3 packets for each different quests. group of packets it send.
- C. Traceroute successively increments the TTL eld to insure that it captures all relevant responses.
- D. Traceroute now targets port 53 since so many hosts refuse to response to ping requests.
- 72. What is the maximum amount of time one can be D. Life. imprisoned for under the Cyber Security **Enhancement Act?**
 - A. 90 days.
 - B. One year.
 - C. Twenty-five years.
 - D. Life.
- 73. Which of these is not a requirement to replace an executable in C:\System32
 - A. The file must be a Microsoft signed binary.
 - B. The file must be in the Windows protected file list.
 - C. The file must be the same size as the original.
 - D. The file must normally reside in C:\System32
- 74. Which of these is a potential attack against HTTP D. Mount an attack on **Strict Transport Security?**

A. Downgrade the HTTPOnly supercookie to a normal supercookie and reset it.

B. Use ssistrip to downgrade the connection to HTTP.

NTP to cause supercookie expiration.

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- C. MITM a connection to a site with an established HSTS supercookie.
- D. Mount an attack on NTP to cause supercookie expiration.
- 75. What is the most important reason to use neat as opposed to no for exfiltrating data on a pentest engagemnent?

C. ncat supports the use of ssl communication. (CHECK)

- A. ncat is less likely than nc to be noticed and blocked by AV software.
- B. ncat has bug fixes that make it more robust than nc.
- C. ncat supports the use of ssl communication.
- D. ncat is fully open source now.
- 76. Which mode must be used by an adaptor in order to mount a Reaver attack?
 - A. Master.
 - B. Managed.
 - C. Monitor.
 - D. Mesh.

C. Monitor.

- 77. What virtual machine is employed by Android A. Java systems to execute applications?
 - A. Java.
 - B. Dalvik.
 - C.C.
 - D. APK.
- 78. What network protocol allows one to redirect cell telephone calls and SMS messages to different numbers?
 - A. SS7.
 - B. LTE.
 - C. CDMA.
 - D. Ethernet.
- 79. What does Linde say that we lack for verifying B. Formal correctness system security and therefore must use penetra- proofs.

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tion testing instead?

- A. Competent system administrators.
- B. Formal correctness proofs.
- C. Good software developer
- 80. What does the * mean in this windows command C. The password is to be net use \\192.168.202.44nIPC\$ * /u:Administrator read from input.
 - A. All users are affected by this command.
 - B. This process should accept remote network input.
 - C. The password is to be read from input.
 - D. This process should be repeated as long as input is not exhausted.
- 81. What organization released the Mobile Applica- D. OWASP. tion Security Verication Standard?
 - A. EC Council.
 - **B.** Oensive Security.
 - C. SANS.
 - D. OWASP.
- Which of these password attack methods was C. NTLM relay attack. rendered ineffective by the MS08-068 vulnerability patch?
 - A. LMv1/NTLMv2 Rainbow Table attack using a roque server.
 - B. NTLM reective attack using a rogue server.
 - C. NTLM relay attack.
 - D. Zack Attack.
- 83. **If, on an engagement, you modify firewall rules** A. Restore previous to allow ssh connections only from your attack firewall settings before machine, what must you do?
 - A. Restore previous firewall settings before completing the engagement.
 - B. Make sure that PermitRootLogin is not set in the configuration.
 - C. Make sure you don't use port 22 to connect so

completing the engagement.

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that no IPS will detect logins.

- D. Insure that SSHv1 is used by the server.
- 84. Which of these was released by the Shadow **Brokers?**
- B. Fuzzbunch. (Check?)

transmission of data

blocked.

- A. Bettercap.
- B. Fuzzbunch.
- C. Stagefright.
- D. WannaCry.
- How do canonicalization errors lead to web ex- D. Such errors allow 85. ploits?

A. They let a user avoid 2FA, increasing the like- that would otherwise be lihood of a MITM attack.

- B. These errors enable denial of service attacks to be mounted.
- C. They enable the use of ssh side-channel attacks.
- D. Such errors allow transmission of data that would otherwise be blocked.
- 86. Which of these auth methods is most likely to be A. Form-based authenencountered on eCommerce web sites? tication
 - A. Form-based authentication.
 - B. Basic authentication.
 - C. Digest authentication.
 - D. Windows integrated authentication.
- 87. What extra hardware is required to let Kismet generate data usable by wigle.net?
 - A. A GPS sensor.
 - B. An external Wi adaptor.
 - C. A wi adaptor capable of operating in Master mode.
 - D. A modern GPU.
- 88. Which of these tools is not used for passing the hash?
 - A. SMBShell.
 - B. Bloodhound.

Ethical Hacking Study online at https://guizlet.com/ 975u80 C. THC Hydra. D. msvctl. 89. What does the Luhn algorithm do. A. It implements Rainbow Table lookup. B. It uses ARP packets to crack WEP. C. It is used by Eternal Blue to exploit a heap over D. It verifies checksums of credit card numbers. 90. What company prepares and releases the Kali A. Offensive Security. **Linux distribution?** A. Offensive Security. B. Debian. C. Red Hat. D. OWASP. 91. What is the basis for the report format used in A. OWASP. (CHECK) this class? A. OWASP. B. The Crest Standard. C. The PTES. D. The Open Source Security Testing Methodol-

92. Which of these is likely based in part on work by D. The Untangling the Johnny Long first published in 2004? Web document from the A. Laudanum.

B. The Fierce domain scanner.

C. The PowerUp Powershell module.

D. The Untangling the Web document from the NSA

93. If I tell you that a machine has IP address 192.168.200.193 and host number 65 in its network,

B. 255.255.255.128

what is it's netmask?

A. 255.255.255.0

ogy Manual.

B. 255.255.255.128



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- C. 255.255.255.192
- D. 255.255.254
- 94. Who said, "I'm going to save you a lot of money A. Bruce Schneier. by giving you this free penetration test: You're vulnerable."
 - A. Bruce Schneier.
 - B. Ed Skoudis.
 - C. Brian Krebs.
- Which of these must be known in order to set 95. your Rules of Engagement?
 - A. The number of wireless networks you'll be penetration testing.
 - B. Methods to use for encrypting any sensitive data that must be exchanged.
 - C. The email addresses of all employees using your client's information resources.
- B. Methods to use for encrypting any sensitive data that must be exchanged.

- Why can't you get effective Rainbow Tables for 96. Linux passwords?
 - A. Linux uses SHA256 which will generate hash- tiple rainbow tables es of too great a length to catalog.
 - B. The shadow file is not readable except by root, so you can't get password hashes.
 - C. Because the passwords are salted, multiple rainbow tables would be required.
 - D. Rainbow Tables can only be created for symmetric key encryption methods.
- C. Because the passwords are salted, mulwould be required.

B. Notify your client of

any risks or potential negative outcomes that

- 97. According to SySS, which of these should you do if you want to carry out ethical penetration tests?
 - A. Make sure you asses a penetration testing fee might arise as a result of based on a percentage of the company's gross testing. income.
 - B. Notify your client of any risks or potential negative outcomes that might arise as a result of testing.
 - C. Avoid identifying sources of software or tech-

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niques used in exploiting vulnerabilities on the client's system.

- 98. Which of these potential parts of a penetration test report is of most value to a customer? A. The information gathering activities in which the company's security testers engaged.
- C. The executive summary that identifies posture and discusses
 - B. The attack narrative that explains what testers how to improve it. did and in what order they did it.
 - C. The executive summary that identifies the company's security posture and discusses how to improve it.
- In the Florida Computer Crimes Act, which of 99. these terms is undefined?

A. Authorization

- A. Authorization
- **B. Network**
- C. Computer
- 100. What key element of James Comey's comments A. He said he had about about his instagram account at the National Se- nine followers, all relacurity Alliance Dinner led to Ashley Feinberg tives or close friends. identifying his twitter account?

- A. He said he had about nine followers, all relatives or close friends.
- B. He said he followed his son, Brien Comey.
- C. He mentioned that his advisor from William and Mary, Reinhold Niebuhr, followed him
- 101. Which of these could be the netmask for the network with IP address 255.255.64.0?

Q0x02 Question 3

- A. 255.255.128.0
- B. 255.255.192.0
- C. 255.255.0.0
- 102. What does a dig request for record type AXFR achieve?

A. Zone transfer if its supported.

- A. Zone transfer if its supported.
- B. Transfer of an extended address record.
- C. Nothing, you totally made that up.

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103. What kind of dns lookup does fierce use in order C. Reverse lookup. to get a name server that won't provide zone transfer to reveal a host name that's not in the fierce wordlist?

A. Nothing. This can't be done.

B. Zone transfer.

C. Reverse lookup.

104. Which of these is not a layer in the OSI network- B. Protocol ing model?

A. Presentation

B. Protocol

C. Physical

105. If, in starting a TCP connection, host X sends a B. It will have SYN and SYN packet to host Y with sequence number A, ACK set and the sewhat will be true of a correct response by host **Y?**

quence number will be chosen randomly.

A. It will have ACK (but not SYN) set and the sequence number will be A+1.

B. It will have SYN and ACK set and the sequence number will be chosen randomly.

C. It will have SYN and ACK set and the acknowledgment number will be randomly chosen.

106. What is the number of bits in UDP port?

C. 16 (CHECK)

A. 8

B. 32

C. 16

107. What do the last 3 octets of a MAC address identify?

A. The specific device ID.

A. The specific device ID.

B. The vendor who manufactured the device.

C. The network address.

108. How is OpenVAS's full and fast scan configura- B. The ultimate scan will tion different from full and fast ultimate? A. The ultimate scan avoids host-alive tests.

not rely on cached results.

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- B. The ultimate scan will not rely on cached results.
- C. The ultimate scan uses half-open scanning for stealth rather than full-connect scanning.
- 109. How does ASLR help preserve program control-flow integrity

Q0x05 QUESTION 1

- A. It makes it hard to identify the addresses of values written in the stack.
- B. It randomly assigns return locations, making program tracing hard.
- C. It makes it impossible to execute code on the stack.
- 110. When do you set a payload in the metasploit framework?

Q0x05 QUESTION 2

- A. When you run it using the exploit command.
- B. After you use an exploit.
- C. Before you decide which exploit to use.
- 111. Which of these malware artifacts did not use the A. Eternal Blue. vulnerability identified in MS08-067?
 - A. Eternal Blue.
 - B. Conficker.
 - C. Stuxnet.
- 112. What register is used to hold the base- or frame-pointer in the X64 architecture

B. rbp.

- A. rbx.
- B. rbp.
- C. rfp.
- 113. If I see a file with permissions -rwxr-xr-x+, which Q0X06 QUESTION 1 of these statements must be true?
 - A. The file is a directory.
 - B. The file has an access control list (ACL).
 - C. All users other than the owner cannot write the file.

114.

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Which of these is true about the RockYou pass- B. The passwords were word breach?

B. The passwords were stored in plain text.

- A. This breach occurred in 2016.
- B. The passwords were stored in plain text.
- C. 64 Million passwords were exfiltrated.
- 115. Which of these is most likely to keep a penetra- Q0X06 QUESTION 3 tion tester from being able to guess passwords through SMB on a particular machine?
 - A. Closing ports 139, 445 with a firewall that limits traffic entering the network for that machine.
 - B. Make sure the host uses hashed passwords.
 - C. Closing ports 139 and 445 with the machine's local firewall.
- 116. What did I report as the most common length for C. 9. a password in the Have I Been Pwned password list?
 - A. 12.
 - B. 5.
 - C. 9.
- 117. The Zack Attack can also be described as an
 - A. NTLM reflective attack.
 - B. NTLM relay attack.
 - C. attack on Kerberos.
- 118. Which of these was not a vulnerability of LDAP(S) session signing?
 - A. A blank NetBIOS computer name could be passed in requests.
 - B. The "MIC is Set" bit was checked but not the MIC itself.
 - C. The relayer could use its NetBIOS computer name in relayed messages.
- C. The relayer could use its NetBIOS computer name in relayed messages.

B. NTLM relay attack.

119. If you want to get a Kerberos server long term key, which type of encryption should be enforced?

A. MD4

C. RC4



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B. kerberos

C. RC4

- 120. Which of these commands will allow you to com- B. nc targetmamunicate with a web server on the host target- chine.com 80 machine.com?
 - A. nc -c targetmachine.com:80
 - B. nc targetmachine.com 80
 - C. nc -I -p 80 targetmachine.com
- 121. If I am in a meterpreter session and issue the following command
 "portfwd add -I 8000 -p 445 -r 172.30.0.96"
 which of these things can I do?
 A. Connect to the service provided on port 445 by 172.30.0.96 by connecting to localhost port 8000.
- A. Connect to the service provided on port 445 by 172.30.0.96 by connecting to localhost port 8000.
- B. Automatically target 172.30.0.96 in another exploit from the same metasploit console.
- C. Connect to the service listening on port 8000 of 172.30.0.96 by connecting to port 445 on localhost.
- 122. Why might it be preferable to use a powershell payload rather than a native .exe file payload?

 A. Powershell runs much faster than native code.
- C. The powershell payload need never be stored in the filesystem.
- B. A machine might execute powershell, but not native code.
- C. The powershell payload need never be stored in the filesystem.
- 123. Which of these integrity levels is used by Inter- B. Low. net Explorer in protected-mode?
 - A. Medium.
 - B. Low.
 - C. High.
- 124. Where was the AES-encrypted Microsoft Local Administrator password stored for distribution

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(until some time after 2014)?

B. In the SYSVOL direc-A. In the Security Accounts Manager (SAM) local tory on the domain controller.

- B. In the SYSVOL directory on the domain controller.
- C. Nowhere. RC4 encryption was used for this password.
- 125. What account executes sethc.exe when 5 successive shift key press event occur before login?

B. NT AUTHORI-TY/System.

- A. What account executes sethc.exe when 5 successive shit key press event occur before login?
- B. NT AUTHORITY/System.
- C. The local Administrator account (UID 500).
- 126. Which of these is not true about carrying a suc- A. We must be running a cessful stealthy arpspoof campaign?

web server on port 80.

- A. We must be running a web server on port 80.
- B. We must be able to perform IP forwarding.
- C. We must have access to the affected hosts on a single layer 2 network.
- 127. Which of these must be done in order to run SSLStrip?

B. Enable IP forwarding.

- A. Provide an https server running on port 443.
- B. Enable IP forwarding.
- C. Provide a web server running on port 80.
- 128. Which of the following is true of HSTS super-cookies?

A. They cannot be removed from a compliant browser by using any browser function available browser function availto the user.

- B. They are a server technology that requires no special browser support.
- C. Once stored by a compliant browser, they never expire.

A. They cannot be removed from a compliant browser by using any able to the user.

129.

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Which of these is true of ssh?

A. When using the public-key authentication scheme, passwords cannot be sniffed by a MiTM.

- B. Diffie-Hellman exchange authenticates both the client and server machines.
- C. Any password sniffing attack requires the attacker to have the server public key.
- 130. Which of these can be a security principal?

B. A user account.

- A. A computer.
- B. A user account.
- C. An organizational unit.
- 131. Which of these is not an underlying approach to C. Pessimistic detecmalware detection?
 - A. Signature detection.
 - B. Heuristic detection.
 - C. Pessimistic detection.
- 132. How can an attacker exploit the following unquoted service path?

 "C:\Program Files\Printer Software\EpsonDriver.exe"

C. By doing what either of the other two answers says.

- A. By storing Program.exe in "C:\".
- B. By storing Printer.exe in C:\Program Files".
- C. By doing what either of the other two answers says.
- 133. How does nmap determine that a port is closed? C. It gets a RST re-
 - A. it gets a FIN response to a SYN packet.

sponse to a SYN packet

- B. It gets no response to a SYN packet.
- C. It gets a RST response to a SYN packet
- 134. What organization is responsible for issuing in- B. The IETF. ternet RFCs?
 - A. ICANN.
 - B. The IETF.
 - C. IANA.

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- 135. What is the point of the General Data Protection C. To ensure that the Regulation?
 - A.To provide network standards for ensuring that data is not modified while in transit.
 - B. To ensure that data that could be used to prosecute cybercrimes is protected from being destroyed.

C. To ensure that the personal data of users of computer services is not disclosed without permission.

personal data of users of computer services is not disclosed without permission.

D. The document Un-

Guide to Internet Re-

search.

136. What work is likely based, in part, on Johnny Long's Google Hacking for Penetration Testers? tangling the Web: a

A. No answer text provided.

B. The web reconnaissance framework Recon-ng.

C. The Pen Test Execution Standard.

- D. The document Untangling the Web: a Guide to Internet Research.
- 137. Which of these commands must be implement- C. cd ed as a shell builtin in order to exhibit the right

behavior? A. whoami

B. tail

C. cd

138. Which of these steps to enable telnet service for C. Ensure that you have a user is not necessary on a Windows host?

A. Ensure the tintsrv service is running

B. Ensure that the user is in the TelnetClients group.

C. Ensure that you have opened port 22 in the firewall.

opened port 22 in the firewall.

139. What does WPAD do?

Q0X0b QUESTION 2

- A. Supports editing of Active Directory policies.
- B. Proxies web requests for Windows web servers.

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C. Provides automatic configuration for Windows browse

140. What is a canonical representation?

- C. One that is given by a
- A .One that uses the fewest possible characters. formal rule.
- B. One that has been tested and verified.
- C. One that is given by a formal rule.
- 141. What is true of an idempotent command?
 - A. Applying the command more than once will yield the same result.
 - B. The command was once implemented, but is sult. no longer available to be executed.
 - C. Applying the command will not change any resources on the web server

A. Applying the command more than once will yield the same result

- 142. Which of these methods of authentication is most often encountered in web applications?
 - A. Basic authentication.
 - B. Digest authentication.
 - C. Form-based authentication.

Q0X0d QUESTION 3

- 143. Which of the following is not a reason to use a web proxy?
 - A. To reduce the number of web hosts in the path between a client and server on the first download of a page.
 - B. To enable a penetration tester to forge requests and responses from a web browser to a web server.
 - C. To reduce the number of times a remote server is queried for an oft-requested web page.

A. To reduce the number of web hosts in the path between a client and server on the first download of a page.

- 144. Which of these is true of sqlmap
 - A. If you want to use it for POST requests, you must provide a request template.
 - B. It is intended to work exclusively with MSSQL. template.
 - C. It can provide information about the structure of a backing database, but not its contents.

A. If you want to use it for POST requests, you must provide a request template.

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145. Which of these factors will not contribute to en- A. A user may employ abling server-side request forgery?

A. A user may employ an out-of-date browser that does not support HSTS.

- B. A web application may use two incompatible parsing modules like requests and urllib.
- C. Web application developers may have made different assumptions about how to interpret URLs and other input.

an out-of-date browser that does not support HSTS.

146. What method does the FMS WEP cracking approach use?

A. It uses a side channel attack to reconstruct the pairwise master key.

- B. It drops connections then sniffs the four-way handshake.
- C. It replays ARP packets repeatedly to discover the shared key.

C. It replays ARP packets repeatedly to discover the shared key.

- 147. Which of these is not an element of AAA man- B. Attribution agement protocols
 - A. Accounting
 - **B.** Attribution
 - C. Authorization

148. Which of these will the Evil Twin attack perform? A. Client deauthoriza-A. Client deauthorization to force reauthorization.

tion to force reauthorization.

- B. Denial of Service attacks to downgrade Wifi quality.
- C. SQL injection to capture portal passwords.
- 149. Which of these cannot be true of a communication that is readily accessible to the general public?

A. It uses frequency bands employed for emergency communications.

B. It uses modulation techniques with publicly known parameters.

C. It is communicated over channels reserved for satellite communications.

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C. It is communicated over channels reserved for satellite communications.

- 150. What can an iPhone user do to prevent intercep- C. Use an end-to-end tion of communications?
 - encryption app like Sig-
 - A. Make sure only to use LTE communications. nal.
 - B. Use an IMSI-catcher detecting app sold on the App store.
 - C. Use an end-to-end encryption app like Signal.
- 151. What is the underlying cause of the Android Master Key vulnerability?
 - A. The master key was leaked unwittingly by Google in a blog post.
 - B. Incompatible installation and execution PK zip methods.
 - C. A buffer overflow vulnerability in the mediaserver.
- B. Incompatible installation and execution PK zip methods. (CHECK) Q0X10 QUESTION 1

- 152. Why is the checkm8 vulnerability more persistent than earlier jailbreaks?
 - A. Because it is not tethered.
 - B. It is written using Swift, which is compatible with many iOS versions.
 - C. Because it is a boot ROM vulnerability independent of the OS version
- C. Because it is a boot ROM vulnerability independent of the OS version
- 153. Which of these security measures is least likely C. Employing code obto insure applications security.
 - A. Using secure encrypted communication channels.
 - B. Using secure key-storage APIs.
 - C. Employing code obfuscation to make app reverse engineering difficult.
- fuscation to make app reverse engineering difficult.
- 154. If you want to MITM communications between an iPhone app and a server with a pinned certificate, which tool should you use? A. ssl-killswitch-2.
- A. ssl-killswitch-2.



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B. JADX.

C. Hopper.

155. Which of these is the worst idea to use if you want to avoid CSRF attacks?

A. Use POST requests over HTTPS rather than GET requests so their parameters cannot be sniffed.

B. Use only HttpOnly cookies for session and other identifying tokens.

C. Employ redundant verification of intent (such as CAPTCHAs or multi-factor authentication).

A. Use POST requests over HTTPS rather than GET requests so their parameters cannot be sniffed

- 156. Which of these types of authentication is susceptible to MITM attack and password cracking, but not direct password decoding?
 - A. Basic Authentication.
 - **B.** Integrated Windows Authentication.
 - C. Digest Authentication
- 157. Which of these is a Linux kernel vulnerability?
 - A. Eternal Red aka SambaCry.
 - B. Linux eBPF privilege Escalation.
 - C. Dirty Sock.
- 158. Which of these is true of the popular exploitdb exploit for DirtyCOW?
 - A. It will work on any Linux system.
 - B. It allows people with no login access on a Linux machine to become root.
 - C. After using it, the system is unstable and may crash.

Q0X0e QUESTION 1

B. Linux eBPF privilege

Escalation.

C. After using it, the system is unstable and may crash.

- 159. Which of these Shadow Brokers exploits was not used by WannaCry?
 - A. Eternal Blue
 - **B. Double Pulsar**
 - C. Extrabacon

C. Extrabacon

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When using a meterpreter, which command can be used to increase the likely longevity of your session?

- A. shell.
- B. background.
- C. clearev.
- D. migrate.
- 161. If you are using Burp Suite to proxy your connection to a website, which of the following must you do?
 - A. Insure that Burp Suite is running on the same machine as the web browser.
 - B. Set the proxy settings on your web browser to refer to the IP address and Port on which Burp is listening.
 - C. Insure that Burp Suite has a certificate that is generated by a legitimate Certificate Authority.
 - D. Make sure that javascript is enabled in your browser.
- 162. Which of these types of wireless encryption standards is subject to an attack that employs replayed ARP requests?
 - A. Open.
 - B. WEP.
 - C. WPA2/PSK.
 - D. WPA2/EAP.
- 163. Which of these IP packet elds will not be modied when a router forwards a packet
 - A. Flags.
 - **B. Source Address.**
 - C. Checksum.
 - D. TTL.
- 164. Which of these DNS record types is critical to identifying a hostname given an IP address.

 A. A.

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- B. CNAME.
- C. MX.
- D. PTR.
- 165. Which of these attacks requires a rogue access point to use a different channel from the legitimate access point?
 - A. KrackAttack.
 - B. WPA2 attacks using FreeRadius WPE.
 - C. WEP attacks using FMS.
 - D. Reaver WPA2 attack.
- 166. What type of filesystem supports the ip forward file which must be modified in order to enable IP forwarding?
 - A. ramfs.
 - B. ext4.
 - C. zfs.
 - D. proc.
- 167. Why should one not rely on using ICMP Echo Request for traceroute nowadays?
 - A. The IETF has banned the use of ICMP Echo Request on IP networks.
 - B. ICMP Echo Requests are ignored by numerous internet hosts and routers.
 - C. Since the European Union passed the GDPR legislation, ICMP Echo Requests are not allowed in Europe.
 - D. ICMP Echo Request packets do not support session management.
- 168. Which of these mimikatz commands most likely needs to be executed to retrieve LSASS cached credentials.
 - A. privilege::debug
 - B. kerberos::hash
 - C. kerberos:ptt
 - D. sekurlsa:pth

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- 169. Which of these is not a reasonable approach to avoiding Cross-Site Request Forgery?
 - A. Use CAPTCHAs to verify intent.
 - B. Employ two-factor authentication.
 - C. Insure that tokens are HTTPOnly and are not easily guessable.
 - D. Insure that only Post request are employed (rather than Get requests).
- 170. What variable must be set to use a Metasploit B. LHOST. reverse payload but need not be set to use a bind payload?
 - A. RHOST.
 - B. LHOST.
 - C. RPORT.
 - D. PAYLOAD.
- 171. Which flag(s) must have value 1 in the second Packet of a TCP three-way handshake?
 - A. RST and SYN.
 - B. RST.
 - C. ACK.
 - D. SYN and ACK.
- 172. Microsoft Azure software defined networks do not support Layer 2 switching. Which of these methods is rendered ineffectual by that design?
 - A. Use of a WPAD-established web proxy.
 - B. Use of BeEF for browser hooking.
 - C. Use of sslstrip to downgrade https connections.
 - D. Use of netcat for pivoting in a network.
- 173. Which layer of the OSI 7-Layer Model does UDP C. Transport. fall into?
 - A. Datalink.
 - B. Application.
 - C. Transport.
 - D. Session.

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- 174. What kind of program is most likely to be exploit- D. A user installed exeed by the unquoted Windows search path cutable. (CHECK) vulnerability?
 - A. A service.
 - B. Internet explorer.
 - C. A program update script written using Powershell.
 - D. A user installed executable.
- 175. Which UAC integrity level is used by Internet Explorer?
 - A. None
 - B. Low
 - C. Medium
 - D. High
- 176. Which of these is the type of cross-site scripting injection that would be used in an attack mounted by a single malicious email message?
 - A. Fluctuating.
 - **B.** Persistent.
 - C. Viral.
 - D. Reflected.
- 177. Which of these is a valid value for the TCP Data offset eld?
 - A. 0.
 - B. 4.
 - C. 8.
 - D. 16.
- 178. Why did Linus Torvalds' remove the patch that A. It caused problems addressed the problem underlying Dirty Cow in for IBM S390 machines. around 2007?
 - A. It caused problems for IBM S390 machines.
 - B. The NSA paid him to leave it vulnerable.
 - C. It didn't actually resolve the problem.
- 179. Which of these was demonstrated by the app InstaStock, developed by Charlie Miller?

C. The Apple App Store's app verifica-

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tion method is insecure.

- A. The Stagefright vulnerability could be used to (Check) cause remote code execution.
- B. Cross-site scripting can lead to the exfiltration of investment account information.
- C. The Apple App Store's app verification method is insecure.
- D. None of the above.
- 180. Which of these is not required to mount an sslstrip attack?

B. Access to a valid SSL certificate issued by a trusted authority

- A. The ability to forward packets.
- B. Access to a valid SSL certificate issued by a trusted authority.
- C. Access to the layer-2 network to which the target host is attached. D.Ability to route packets to the internet through a gateway host
- 181. 1. Which of these is a valid Linux password hash D. entry from the file /etc/shadow? \$1

\$1\$Etg2ExUZ\$F9NTP7oma

Α.

\$5\$MnfsQ4iNZMTpp-

KN16y/tlsUYs/obHlhdP.Os80yXhTurpBMUbA5

- B. AAD3B435B51404EEAAD3B435B51404EE
- C. \$7\$aGFzaAo=\$VGhpcyBpcyBteSB-

wYXNzd29yZAo=

- D. \$1\$Etg2ExUZ\$F9NTP7omafhKIIqaBMqng1
- 182. Which of these is not a requirement of sethc.exe?

B. Windows Defender must not identify it as malware.

- A. It must be digitally signed by a valid Microsoft kev.
- B. Windows Defender must not identify it as malware.
- C. It must lie inside the file system under C:\Win-

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dows\System32.

- D. It must be in the Windows protected file list.
- 183. 1. Which of these port designations could not be a result of running nmap as follows? nmap 172.18.0.24

D. 445/tcp open https

- A. 21/tcp open ftp
- B. 53/tcp open domain
- C. 80/tcp open http
- D. 445/tcp open https
- 184. Which of the following did Microsoft's 2014 patch for the Local Administrator Password not groups.xml file from afdo?

A. Remove the fected hosts

- A. Remove the groups.xml file from affected hosts.
- B. Address a problem created by releasing an AES encryption key in 2012 or before.
- C. Attempt to solve a problem with local administrator account distribution.
- D. Remove the ability to store passwords in group policies.
- 185. Which of these is true of HTTP Basic Authentication?

D. It is insecure if used on http.

- A. It employs public-key cryptography.
- B. Apache's implementation authenticates both the client and server to each other.
- C. It uses AES symmetric encryption.
- D. It is insecure if used on http.
- 186. 1. Which of these is not true concerning using Web Proxy Auto Discovery and a bogus Proxy **AutoConfig file to exploit vulnerable Windows?**
- C. This attack requires access to a Linux host on same the layer-2 network as the target host.
- A. Responder implements this exploit.
- B. This can be avoided by providing a black-hole

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entry for the WPAD host in your DNS server.

- C. This attack requires access to a Linux host on same the layer-2 network as the target host.
- D. This is typically exploited by providing a roque LLMNR server.
- 187. 1. Which of these elements that must be present in a web application in order for persistent must be vulnerable to cross-site scripting to occur.
 - B. The web application injection.

- A. The server must use http.
- B. The web application must be vulnerable to injection.
- C. The server must not use HTTP Strict Transport Security.
- D. The server must not provide HTTP-Only cookies.
- 188. 1. What is the primary reason Nikto is so effec- A. Nikto's developers tive?

have included information about numerous been scanned in the

past.

- A. Nikto's developers have included information web servers that have about numerous web servers that have been scanned in the past.
- B. Nikto is written in Python and uses a module that is 35 years in the making.
- C. Nikto uses GPU parallelism to achieve high performance.
- D. Nikto automates SQL injection and XSS vulnerability detection.
- 189. Why is the Dirty Cow vulnerability only useful as A. It uses a kernel vula post-exploitation tool? nerability.
 - A. It uses a kernel vulnerability.
 - B. It requires a very special sequence of instructions to be executed that no Linux service uses.
 - C. It requires direct access to email services.

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It requires access to the file /bin/passwd which cannot be access by Linux services.

190. Why is it preferable to use neat over ne?

A. Because ncat supports SSL encryption.

- A. Because ncat supports SSL encryption.
- B. Because ncat is available for both Windows and Linux.
- C. Because ncat can be used as both a client and listener.
- D. Because ncat can execute dependent programs (like a shell).
- 191. What should you know about the Shadow Bro- B. They released a number of tools cree

B. They released a number of tools created by the Equation Group (presumably of the NSA).

- **A.They worked with Edward Snowden to release** Group (presumably of **XKeyScore.** the NSA).
- B. They released a number of tools created by the Equation Group (presumably of the NSA).
- C. They mounted the WannaCry virus ransomware attack on the British National Health Service.

They have been identified as being affiliated with Fancy Bear (APT 28).

- 192. On what ports does sslstrip provide services to B. Port 80 (http). external machines?
 - A. Port 53 (dns).
 - B. Port 80 (http).
 - C. Port 443 (https).
 - D. Both ports 80 (http) and 443 (https).
- 193. Which of these statements is true of using prox- C. That wouldn't work ychains to forward traffic to a DNS?

 because DNS uses

C. That wouldn't work because DNS uses UDP to function correctly.

- A. That would work just fine.
- B. That wouldn't work because DNS uses ICMP to function correctly.

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C. That wouldn't work because DNS uses UDP to function correctly.

D. That would work intermittently because ARP requests may change a host's MAC address.

- 194. What is the problem with unquoted Windows service paths?
 - A. They allow executables to be executed by a service if properly placed in writable directories tories closer to the root closer to the root directory than the original ser- directory than the origivice executable.
 - B. They allow executables to be executed by a service if properly placed in writable directories further from the root directory than the original service executable.
 - C. They let users write into DLLs that normally should be unwritable.

They can cause users to be able to exploit the sticky-keys vulnerability.

A. They allow executables to be executed by a service if properly placed in writable direcnal service executable.

- 195. Why is it absolutely critical that you consult a lawyer concerning any penetration test contract lawyer, you need a that you might sign?
 - A. State and local laws require that you contact agreements. a lawyer before providing consulting services.
 - B. Lawyers are generally crack penetration testers and you really want one on your team.
 - C. Lawyers provide expert economic advice to allow you to maximize your earnings.
 - D. If you are not a lawyer, you need a lawyer to advise you on complex contractual agreements.

D. If you are not a lawyer to advise you on complex contractual

- 196. Which of these is true of ARP spoofing?
 - A. Multiple addresses must be spoofed in order from a network host that to achieve denial of service.
 - B. ARP spoofing can never result in denial of

D. ARP spoofing of a target must be achieved can communicate via



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service.

C. ARP spoofing of a target can be achieved from any network host that can communicate via IP to the target.

D. ARP spoofing of a target must be achieved from a network host that can communicate via layer 2 (MAC address) to the target.

layer 2 (MAC address) to the target.

- 197. Which of these does KrackAttack require?
- B. Access to a monitor-mode wifi interface.
- A. Ability to communicate on two different wifi channels.
- B. Access to a monitor-mode wifi interface.
- C. A FreeRADIUS-WPE implementation.
- D. The PSK of the wireless access point being attacked.
- 198. Which of the following is not a reason that Pow- B. It runs as adminisershell is an important penetration testing tool? trator and thus provides

immediate privilege escalation.

- A. It has been part of Windows installations since Windows 7.
- B. It runs as administrator and thus provides immediate privilege escalation.
- C. It can execute programs downloaded from the internet without modifying the file system.
- D. It can execute programs delivered as Base64 encoded strings.
- 199. Which of the following properties does the me- A. The meterpreter can terpreter satisfy?

be migrated from one process to another to help you keep it alive

- A. The meterpreter can be migrated from one process to another to help you keep it alive.
- B. Meterpreter payloads are almost never recognized by intrusion detection systems.
- C. The meterpreter is small enough to be included in practically any buffer overflow.

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The meterpreter uses TLS encryption which means that its sessions cannot be hijacked.

- 200. What is the maximum number of times a packet C. 255 may be forwarded when going from one internet host to another?
 - A. 31
 - B. 63
 - C. 255
 - D. 65,535
- 201. Which of these terms is not defined by the Florida Computer Crimes Act (State Statue 815.01-07)?
- B. Authorization

- A. Access
- **B.** Authorization
- C. Computer
- D. Network
- 202. Why would you consider sending deauth pack- C. To force another ets to a WPA2 host?

four-way handshake

- A. To make sure reaver will run successfully.
- B. To force another three-way handshake.
- C. To force another four-way handshake
- D. To generate more packets for an FMS attack.
- 203. Why might a UDP nmap scan take longer than a C. A UDP service is not TCP scan? required to respond to any packet.
 - A. UDP may be spending time waiting for missing packets in the stream.
 - B. UDP packets cause more network delay due to Diffie-Hellman exchange.
 - C. A UDP service is not required to respond to any packet.
 - D. TCP packets are generally smaller than UDP packets, thus they require less bandwidth.

- 204. Which of these methods of jail-breaking an iPhone would be best if you're not certain it will leave your system in an operable state?
- C. Untethered jailbreak.

- A. Eternal Romance.
- **B.** Dirty Cow.
- C. Untethered jailbreak.
- D. Tethered jailbreak.
- 205. 1. Which of these files is most likely to contain A. global.asa database credentials?
 - A. global.asa
 - B. groups.xml
 - C. .htaccess
 - D. robots.txt
- 206. Why is it that you cannot execute a sudo command with the Laudanum shell?
 - C. Laudanum does not establish a tty connection and you can't provide the input password.
 - **A. Laudanum does not run with appropriate cre-** vide the input passdentials. word.
 - B. Laudanum does not have access to the exec primitive of Linux.
 - C. Laudanum does not establish a tty connection and you can't provide the input password.
 - D. PHP doesn't have sudo.
- 207. Which of these is not a reason to use a reverse-https meterpreter as opposed to reverse-http payload in a phishing attack?
- C. It is likely to succeed because traffic to port 443 is likely to be permitted through a fire-
- A. It helps maintain stealth because the traffic is wall. expected to be encrypted.
- B. It provides an extended set of commands, including incognito mode.
- C. It is likely to succeed because traffic to port 443 is likely to be permitted through a firewall.
- D. It is convenient and maintains stealth be-

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cause exploited hosts will connect to the listener and won't need to be interrogated individually.

- 208. 1. What type of server must an attacker provide A. FreeRADIUS-WPE in order to capture credentials from WPA2/EAP users?
 - A. FreeRADIUS-WPE
 - **B. DNS**
 - C. Apache
 - D. NetBIOS
- 209. In order to avoid susceptibility to L0phtCrack, C. 15 characters what is the minimum length for an NTLM password?
 - A. 7 characters
 - B. 14 characters
 - C. 15 characters
 - D. 17 characters
- 210. Which of these precautions should a website C. Make them HttpOnly. use for session token cookies?
 - A. Make sure they are sequential.
 - B. Encode them using Base64.
 - C. Make them HttpOnly.
 - D. Make sure they are persistent.
- 211. What kind of packet does traceroute traditionally D. ICMP ECHO Reuse to identify intermediate hosts? quest
 - A. SYN to port 20
 - **B. Gratuitous ARP reply**
 - C. SYN to port 80
 - **D. ICMP ECHO Request**
- 212. **1. Which of these techniques can effectively pre- vent CSRF?**B. Require user interaction for redundant verification

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- A. Refuse to accept GET requests.
- B. Require user interaction for redundant verification of intent.
- C. Require the HTTP Referrer to be a protected web page.
- D. Use sequentially numbered session tokens.
- 213. Which of these is not a reason for penetration testers to be careful when using MITM techniques on a typically configured desktop computer?

D. You may allow hosts to route to destinations that are not reachable by their normal gateway.

- A. You may inadvertently cause denial of service.
- B. You may capture PII that is not in the scope of your test.
- C. You may increase the network traffic load on a host that is not equipped to handle it.
- D. You may allow hosts to route to destinations that are not reachable by their normal gateway.
- 214. Which of the following is the most reasonable phishing goal in a penetration test?

A. To deliver a reflective XSS attack.

- A. To shame employees who are caught.
- B. To pick up some extra cash with a Nigerian bank scam.
- C. To deliver a persistent XSS attack.
- D. To deliver a reflective XSS attack
- 215. Which of these types of attacks employs the same underlying type of vulnerability that the SSRF techniques (of Orange Tsai) exploit?

B. The Android Master Key vulnerability.

- A. Eternal Romance.
- B. The Android Master Key vulnerability.
- C. SSLstrip.
- D. GPP local admin password.

Ethical Hacking Study online at https://quizlet.com/ 975u80 **How can Digest Authentication be exploited?** B. MITM a connection and downgrade to Basic A. Capture the server nonce and decrypt the Authentication. password. B. MITM a connection and downgrade to Basic Authentication. C. Capture the password from a non-HttpOnly cookie. D. Use a replay attack to decrypt the hashed password. 217. Which of the following files would provide the D. /etc/passwd least value in an offline password cracking attack? A. oclhashcat B. John the Ripper C. rockyou.txt D. /etc/passwd 218. Why isn't the rainbow table method used on D. Linux passwords are Linux passwords? salted. A. SHA hashes cannot be indexed with rainbow tables. B. Rainbow tables can only be implemented on Windows. C. Linux passwords use cryptographic hashes. D. Linux passwords are salted. 219. Which of these devices that a USB Rubber A. HID (CHECK) Ducky can emulate will be connected without question to a host machine?

A. Printer

D. HID

B. USB Drive

C. USB Network Adapter

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Which of these is not a part of the Microsoft DREAD risk model?

- A. Damage Potential
- **B.** Reproducibility
- C. Exfiltration Potential
- D. Affected Users
- 221. Which of these fields does not appear in a UDP A. Acknowledgment packet?

Number (tcp uses ack not udp) (CHECK)

- A. Acknowledgment Number
- **B. IP Source Address**
- C. Destination Port Number
- D. Checksum
- 222. Which of the following was determined by a North Dakota court to be illegal?

A. DNS zone transfer.

- A. DNS zone transfer.
- B. Slave DNS servers.
- C. DNS alias records.
- D. Public-key encryption.
- 223. 1. Which tool may be useful in password guess- C. CeWL ing?
 - A. Fierce
 - B. CeWL
 - C. dia
 - D. Bloodhound
- 224. Which of these is required to be able to intercept D. The user's phone calls to a phone via SS7? number.
 - A. User permission.
 - B. An IMSI catcher.
 - C. A femtocell.
 - D. The user's phone number.

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- 225. Which of these methods is most likely to yield a C. Use a code signing payload that will bypass AV? certificate.
 - A. Use the default meterpreter.
 - B. Use the shikata-ga-nai encoder.
 - C. Use a code signing certificate.
 - D. Use an unsigned jnlp
- 226. Which of these is not a microexpression identi- A. Awe fied by Paul Ekman?
 - A. Awe
 - **B.** Disgust
 - C. Contempt
 - D. Surprise
- 227. Which of these exploits, developed by the Equa- D. Extrabacon tion Group, was released by ShadowBrokers?
 - A. Stagefright
 - **B.** Heartbleed
 - C. Shellshock
 - D. Extrabacon
- 228. Which of these tools cannot be used for post-ex- C. Bash (Linux Only?) ploitation on a Windows host? (CHECK)
 - A. WMIC
 - **B. Powershell**
 - C. Bash
 - D. Responder
- 229. Which of these is not a required for the metas- D. lport (CHECK) ploit tomcat_mgr_upload exploit used with the bind tcp payload?
 - A. HttpUsername
 - **B.** HttpPassword
 - C. Ihost
 - D. Iport



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- 230. Which of these is not necessary to specify in order to enable a meterpreter port forward?
 - A. IP address
 - **B.** Gateway
 - C. Netmask
 - D. Session
- 231. Which of the following can only be used on Lin- C. Responder ux?
 - A. Inveigh
 - B. Cain
 - C. Responder
 - D. WMIC
- 232. Which of the following is enabled by ARP cache A. Smurf attack poisoning?

 The Smurf attack
 - A. MAC address flooding.
 - B. Remote code execution via buffer overflow.
 - C. User Account Control bypass.
 - D. Smurf attack.

The Smurf attack is a distributed denial-of-service attack in which large numbers of Internet Control Message Protocol (ICMP) packets with the intended victim's spoofed source IP are broadcast to a computer network using an IP broadcast address.

- 233. What language are the nmap NSE scripts written B. Lua in?
 - A. English
 - B. Lua
 - C. Go
 - D. Python