Principles of Cybersecurity 1st edition Lavender Test Bank

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Chapter 1 Introduction to Cybersecurity

MULTIPLE CHOICE

1. The avenue or path a hacker uses to commit the attack is a(n) ____.
   A. black hat email
   B. attack vector
   C. phreaking
   D. social engineering attack

   ANS: B PTS: 1

2. Which of the following cyberattacks involves manipulating people to obtain information to hack computer systems?
   A. Malware
   B. Dumpster diving
   C. Phreaking
   D. Social engineering

   ANS: D PTS: 1

3. Which of the following is *not* a typical reason for using the darknet?
   A. Traditional web searching
   B. Accessing blocked information
   C. Political and social activists promoting their cause
   D. Criminal activity, such as selling credit card numbers

   ANS: A PTS: 1

4. Which of the following helps provide anonymity when using the Internet?
   A. HTTPS
   B. Usernames
   C. TOR browser
   D. Firewalls

   ANS: C PTS: 1

5. How does “The Onion Network” provide anonymity for users?
   A. It routes data packets through many computers before reaching their destination.
   B. It uses encryption.
   C. It masks the IP Address used in the packets that are being sent.
   D. It creates a private address for sending and receiving data.

   ANS: A PTS: 1

6. Which of the following hacking motivation is often attributed to the use of the Stuxnet malware?
   A. Revenge hacking
   B. Hacktivists against nuclear energy
   C. A nation state looking to damage nuclear reactors of another nation state
   D. An insider threat

   ANS: C PTS: 1

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7. Which of the following describes malicious software that spreads on its own through computer networks?
   A. Attack vector
   B. Worm
   C. Phreaking
   D. Virus

   ANS: B PTS: 1

8. A hacker that uses premade tools is often referred to as a ____.
   A. baby
   B. coder
   C. renegade
   D. script kiddie

   ANS: D PTS: 1

9. What is true about a bug-bounty program?
   A. It is used by script kiddies to practice ethical hacking commands.
   B. It is a process in which white-hat hackers attempt to penetrate a business's network to locate vulnerabilities.
   C. It is a reward program that is used to discover previously unknown flaws in software.
   D. It is a reward program that is used to report individuals who hack against a company.

   ANS: C PTS: 1

10. A ____ attack is when the hacker's motivation is to prevent legitimate access to a company's website, *not* to steal or destroy information.
   A. work
   B. revenge
   C. phreaking
   D. denial of service

   ANS: D PTS: 1

11. Which of these areas is *not* considered one of the five areas of Information Assurance?
   A. Confidentiality
   B. Accessibility
   C. Authentication
   D. Availability

   ANS: B PTS: 1

12. Which is another term for the red team?
   A. Penetration testers
   B. Script kiddies
   C. Black-hat hackers
   D. Cyber defenders of attacks

   ANS: A PTS: 1

13. Which of the following is responsible for bridging communication from a virtual machine to a host operating system or physical hardware?
   A. The operating system kernel
   B. The guest operating system
   C. The hypervisor

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D. Snapshots

ANS: C PTS: 1

14. A ____ does *not* interface with the host operating system but rather interacts directly with the hardware.
A. Hyper-V
B. Type 1 hypervisor
C. Type 2 hypervisor
D. Physical disk hypervisor

ANS: B PTS: 1

15. Which of the following describes a saved version of a system in its current state?
A. Provision
B. Sandbox
C. VM sprawl
D. Snapshot

ANS: D PTS: 1

16. You are testing updates on a virtual machine and run out of disk space on the VM. What feature allows you to deploy additional resources to the existing VM?
A. Snapshots
B. Provisioning
C. VM sprawl
D. Application cells

ANS: B PTS: 1

17. ____ occurs with the continuous deployment of virtual machines.
A. Virtual machine sprawl
B. Virtual machine escape
C. Virtual machine overuse
D. Virtual machine stretching

ANS: A PTS: 1

18. Which of the following exploits allows malicious software to exit from a VM and attack the hypervisor?
A. Worm
B. VM malware
C. Hypervisor leakage
D. VM escape

ANS: D PTS: 1

19. Which of these workplace skills is *not* considered a soft skill?
A. Collaboration
B. Leadership
C. Reliability
D. Coding

ANS: D PTS: 1

20. Which CompTIA certification focuses on skills such as risk management and incident response?

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A. CompTIA Network+
B. CompTIA Security+
C. CompTIA CYSA+
D. CompTIA CASP

ANS: D PTS: 1

21. Which certification requires at least five years of full-time employment in two of eight specific technical areas?
A. Microsoft MTA
B. CompTIA CASP
C. CISSP
D. Certified Ethical Hacker

ANS: C PTS: 1

22. Which is true about a vendor-neutral certification?
A. They always offer the highest wages to individuals who achieve the certification.
B. They do not actively promote any specific technology, or company.
C. They are the easiest to obtain.
D. They are sponsored by a technology company.

ANS: B PTS: 1

23. High-value hacking targets often include ____.
A. retail websites
B. electrical grids
C. sites on the darknet
D. small business owners

ANS: B PTS: 1

24. Which of the following is *not* true regarding virtualization?
A. Systems can be tests or preconfigured before they are deployed.
B. Virtual systems can be moved from one physical machine to another.
C. Each virtual machine runs its own operating system.
D. Virtualization is not vulnerable to cyberattacks.

ANS: D PTS: 1

25. Which is true regarding the darknet and deep web?
A. Both are used exclusively by hackers.
B. The deep web is typically used by hackers for hiding activities, and the darknet is used for unindexed websites.
C. The darknet is often used by hackers, and the deep web is used by businesses who don't want their sites indexed on the Internet.
D. They refer to the same thing.

ANS: C PTS: 1

26. Which is a true statement about the intent of hacktivists?
A. They often hack to support a personal or political cause.
B. They typically are conducting a form of revenge hacking.
C. Their main intent is to obtain data to sell for money.
D. They hack for the fun and joy of hacking.

ANS: A PTS: 1

27. Which is *not* a true statement regarding hypervisors?
    A. A hypervisor is not needed with Type 1 virtualization.
    B. Depending on the type of virtualization, hypervisors either talk directly to the hardware or the host operating system to gain access to the hardware.
    C. Hypervisors facilitate the communication between a VM and the hardware.
    D. A hypervisor is also known as a virtual machine monitor.

    ANS: A PTS: 1

COMPLETION

28. Hacking into a phone system is known as _____.

    ANS: phreaking

    PTS: 1

29. Dumpster diving is the practice of digging through _____ looking for usable data.

    ANS: trash

    PTS: 1

30. A virtual machine monitor is the same thing as a(n) _____.

    ANS: hypervisor

    PTS: 1

31. Threats that originate from employees are known as _____ threats.

    ANS: insider

    PTS: 1

32. If the _____ of virtual machine software is attacked, a hacker could take over all the virtual machines on the host system.

    ANS: hypervisor

    PTS: 1

33. Circumventing boundaries to access systems is known as _____.

    ANS: hacking

    PTS: 1

34. Malicious software that can spread on its own through a network is called a(n) _____.

ANS: worm

PTS: 1

35. Saving your virtual machine so you can return to this state as the need arises is done by creating a _____.

ANS: snapshot

PTS: 1

36. _____ hacking often occurs when the hacker attacks the victim because they believed they have been wronged by the target.

ANS: Revenge

PTS: 1

37. The virtual machine runs its own operating system, often called the _____ operating system.

ANS: guest

PTS: 1

38. A(n) _____-hat hacker typically operates outside lawful boundaries.

ANS: black

PTS: 1

39. Use of the _____ browser provides anonymity for users accessing websites.

ANS:
TOR
Tor

PTS: 1

MULTIPLE RESPONSE

40. Which of the following are software platforms used for running virtualized machines? (Choose 3)
A. Virtualbox
B. CloudMachine
C. Hyper-V
D. VMWare
E. LogicalDisk

ANS: A, C, D PTS: 1

41. Which of the following is true about the hack against the credit reporting company Equifax? (Choose 2)
    A. Hackers were targeting personal information such as credit card numbers.
    B. The attack was motivated by hackers taking revenge on the credit agency.
    C. The attack was the work of insider hackers.
    D. The attack was considered an act of cyberwarfare.
    E. The attack affected US citizens as well as Canadians and Britons.

    ANS: A, E PTS: 1

42. Which characteristics are often associated with the darknet? (Choose 2)
    A. It is easily accessible to anyone with a standard browser.
    B. It is often used by individuals bypassing filtering restrictions in their home country.
    C. It is often used to store sites such as member-only websites.
    D. It is accessed by special browsers.
    E. Information on the darknet is indexed by search engines.

    ANS: B, D PTS: 1

43. Which statements best describes measurement of soft skills? (Choose 2)
    A. There are many certification tests to measure an individual's soft skills.
    B. Soft skills are called *soft* since there is no tool to measure these skills effectively.
    C. Measuring soft skills is an objective process.
    D. Multiple individuals can conclude different rankings on individuals when assessing an employee's soft skills.

    ANS: B, D PTS: 1

44. Which of the following data are typically protected under the concept of information assurance? (Choose 2)
    A. Data stored on systems
    B. Data development
    C. Conceptual data
    D. Data in transit

    ANS: A, D PTS: 1

MATCHING

Match the following motivations to their corresponding category.
A. Revenge
B. Hacktivism
C. Cyberwarfare
D. Thrills
E. Criminal intent

45. Used to describe a hacker accessing another person's files to see if it is possible
46. Occurs when a website was attacked because the hacker did not like their position on environmental issues
47. Occurs when a fired employee sends viruses in email attachments to current employees
48. Used to describe a situation in which an unknown hacker stole employee information to be sold on the darknet
49. Used to describe a hack that shut down major train and railway management software in another country

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45. ANS: D PTS: 1
46. ANS: B PTS: 1
47. ANS: A PTS: 1
48. ANS: E PTS: 1
49. ANS: C PTS: 1

Match the following cyber terms to the description that best fits.

A. Attack surface
B. Attack vector
C. Dumpster diving
D. Black-hat hacker
E. White-hat hacker
F. Social engineering

50. Refers to an individual who typically hacks for unlawful purposes
51. Technique that allows users to search for discarded information
52. Areas in a business that are vulnerable to attacks
53. Method used to conduct an attack
54. Individual who uses their skills to locate vulnerabilities in a lawful manner
55. Using casual conversation to obtain personal information from unsuspecting users

50. ANS: D PTS: 1
51. ANS: C PTS: 1
52. ANS: A PTS: 1
53. ANS: B PTS: 1
54. ANS: E PTS: 1
55. ANS: F PTS: 1