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/test-bank-network-defense-and-countermeasures-principles-and-practices-1e-easttom

CHAPTER 1: INTRODUCTION TO NETWORK SECURITY

Multiple Choice:

| 1. | Which o | Which of the following is NOT a connectivity device used to connect machines on a network? | | | | |
|---|--|--|--|--|--|--|
| | A. Hub | | | | | |
| | B. Switch | | | | | |
| | C. | Proxy server | | | | |
| | D. | Network interface card | | | | |
| Answer: C | | Reference: The Basics of a Network | | | | |
| | | | | | | |
| 2. | . Which is a technique used to provide false information about data packets? | | | | | |
| | A. | Hacking | | | | |
| | B. | Spoofing | | | | |
| | C. | Phreaking | | | | |
| | D. | Social engineering | | | | |
| Answer: B | | Reference: Data Packets Difficulty: Easy | | | | |
| | | | | | | |
| 3. Encryption and virtual private networks are techniques used to secure which of | | on and virtual private networks are techniques used to secure which of the following? | | | | |
| | A. | Data | | | | |
| | B. | Firewalls | | | | |
| | C. | Proxy servers | | | | |
| | D. | Connection points | | | | |
| Answer: A | | Reference: What Does This Mean for Security Difficulty: Easy | | | | |
| | | | | | | |
| 4. | Which is | NOT one of the three broad classes of security threats? | | | | |

A. Malicious software

B. Disclosing contents of private networks C. Gaining unauthorized access into a system D. Preventing or blocking access to a system Reference: Classification of Threats **Difficulty:** Easy **Answer:** B A text file that is downloaded to a computer by a Web site to provide information about the Web site and 5. online access is called a: A. cookie B. key logger C. script kiddy D. Trojan horse. **Reference:** Classification of Threats **Difficulty:** Easy **Answer:** A Which term is generally used by hackers to refer to attempts at intrusion into a system without permission 6. and usually for malevolent purposes? A. Hacking B. Cracking C. Blocking D. Social engineering. **Reference:** Classification of Threats **Difficulty:** Easy Answer: B An attack characterized by an explicit attempt by attackers to prevent legitimate users from accessing a 7. system is called: A. denial of service. B. social engineering. C. spoofing. D. war-dialing. **Reference:** Classification of Threats **Difficulty:** Easy Answer: A Those who exploit systems for harm such as to erase files, change data, or deface Web sites are typically 8. called:

A. white hat hackers

B. gray hat hackers C. red hat hackers D. black hat hackers **Difficulty:** Easy **Answer:** D **Reference:** Hacking Terminology 9. The process of determining whether the credentials given by a user are authorized to access a particular network resource is called: A. auditing B. accessing C. authorization D. authentication **Answer:** D **Reference:** Security Terminology **Difficulty:** Moderate What is a technique used to determine if someone is trying to falsely deny that they performed a particular 10. action? A. Auditing B. Sneaking C. Non-repudiation D. Access Control Authorization Answer: C **Reference:** Security Terminology **Difficulty:** Moderate The process of reviewing logs, records, and procedures to determine whether they meet appropriate 11. standards is called: A. auditing B. filtering C. sneaking D. authenticating **Answer:** A **Reference:** Security Terminology **Difficulty:** Easy Which approach to security addresses both the system perimeter and individual systems within the 12. network?

A. Perimeter security approach

| | В. | Layered security approach | | | |
|------------------------------|--|---|-----------------------|--|--|
| C. Dynamic security approach | | | | | |
| | D. | Hybrid security approach | | | |
| Answer: B | | Reference: Approaching Network Security | Difficulty: Moderate | | |
| | | | | | |
| 13. | 13. Which approach to security is proactive in addressing potential threats before they occur? | | | | |
| | A. | Passive security approach | | | |
| | B. | Layered security approach | | | |
| | C. | Dynamic security approach | | | |
| | D. | Hybrid security approach | | | |
| Ansv | wer: C | Reference: Approaching Network Security | Difficulty: Difficult | | |
| | | | | | |
| 14. | 14. In addition to mandating federal agencies to establish security measures, the Computer Security Act of 1987 defined important terms such as: | | | | |
| | A. | sensitive information | | | |
| | B. | unauthorized access | | | |
| | C. | private information | | | |
| | D. | security information | | | |
| Ansv | wer: A | Reference: Network Security and the Law | Difficulty: Moderate | | |
| | | | | | |
| 15. | 15. Which of the following maintains a repository for information on virus outbreaks and detailed information about specific viruses? | | | | |
| | A. | CERT | | | |
| | В. | F-Secure Corporation | | | |
| | C. | Microsoft Security Advisor | | | |
| | D. | SANS Institute | | | |
| Ansv | wer: B | Reference: Security Resources | Difficulty: Easy | | |
| | | | | | |

| 16. | A(n) ser world. | ves as a barrier to unauthorize | ed communication between a | a network and the outside | | | |
|---|--|----------------------------------|-----------------------------|---------------------------|--|--|--|
| Ansv | ver: firewall | Reference: Basic Network | Structure | Difficulty: Easy | | | |
| | | | | | | | |
| 17. | information. is a type | e of attack where header info | ormation on data packets is | changed to provide false | | | |
| Ansv | ver: Spoofing | Reference: Data Packets | | Difficulty: Easy | | | |
| 18. Answ | Another name for an eth | nical hacker operating legally a | | Difficulty: Easy | | | |
| 19. A category of software that keeps track of users' activities on a computer is called | | | | | | | |
| Answ | ver: spyware | Reference: Classifications | of Threats | Difficulty: Easy | | | |
| 20. A term used to describe calling numerous telephone numbers, usually sequentially, in hopes of reaching a computer to attempt to hack into is called Answer: war-dialing Reference: Classifications of Threats Difficulty: Easy | | | | | | | |
| 11115 | ver. war dianing | reference. Classifications | | Difficulty: Easy | | | |
| 21. | refers to a process used to locate wireless networks that might be vulnerable to attack. | | | | | | |
| Ansv | ver: War-driving | Reference: Classifications | of Threats | Difficulty: Easy | | | |
| 22. Flooding a system with many false connection attempts in an effort to prevent legitimate use is an example of a attack. | | | | | | | |
| Ansv | ver: denial of service | Reference: Classifications | of Threats | Difficulty: Easy | | | |
| 23. | The preferred paradigm | , or approach to security, is a | approach. | | | | |

Reference: Approaching Network Security

Difficulty: Moderate

Fill in the Blank:

Answer: layered

| 24. | Since they are easier to attack after viruses. | perpetrate than intrusions, | attacks are the most common form of | | | |
|--|--|---|-------------------------------------|--|--|--|
| Answer: blocking | | Reference: Classifications of Threats | Difficulty: Moderate | | | |
| | | | | | | |
| 25. | The first computer incide | nt-response team was sponsored by | University. | | | |
| Answ | ver: Carnegie-Mellon | Reference: Using Security Resources | Difficulty: Moderate | | | |
| Matc | hing: | | | | | |
| 26. | Match the following terms to their meanings: | | | | | |
| | I. Cracking | A. Breaking into a system to learn about it | s flaws or weaknesses | | | |
| | II. Hacking | B. Attacking a system using non-technolog | gical means | | | |
| | III. Phreaking | C. Attacking a telecommunications system | n for gain | | | |
| | IV. Key logging | D. Attacking a system to cause harm or fo | r personal gain | | | |
| | V. Social engineering | rdware that tracks system use | | | | |
| Answ | ver: D, A, C, E, B | Reference: Hacking Terminology | Difficulty: Easy | | | |
| | | | | | | |
| 27. Match the following terms to their meanings: | | | | | | |
| | I. White hat | A. Hacker who downloads and uses utilities with little understanding | | | | |
| | II. Gray hat | B. Hacker who gains access to systems to cause harm | | | | |
| | III. Black hat | C. Hacker who conducts illegal activities for perceived ethical reasons | | | | |
| | IV. Script kiddy | s to assess security deficiencies | | | | |
| | V. Ethical hacker E. Hacker who looks for and reports vulnerabilities so they can be fixed | | | | | |
| Answ | ver: E, C, B, A, D | Reference: Hacking Terminology | Difficulty: Moderate | | | |
| | | | | | | |

- **28.** Match the following approaches to security to their meanings:
 - I. Perimeter Security A. Few steps or actions are taken to prevent an attack.

II. Layered Security B. Network access and individual systems within the network are protected.

III. Passive Security C. Paradigm combining best of several approaches.

IV. Dynamic Security D. Emphasis includes firewalls, proxy servers, password policies, and network

access.

V. Hybrid Security E. Steps are taken to prevent an attack before it occurs.

Answer: D, B, A, E, C **Reference:** Approaching Network Security **Difficulty:** Moderate

29. Match the following terms to their meaning:

I. encryption A. affects legitimate access to a system

II. spoofing B. used to secure data in the event of interception

III. router C. used to shut down a machine or prevent access

IV. blocking D. used to connect subnetworks together

V. buffer overflow E. changing the header data to provide misleading information

Answer: B, E, D, A, C **Reference:** The Basics of a Network **Difficulty:** Moderate

30. Match the following terms to their meanings:

I. CERT A. Provides documentation on virtually every aspect of security

II. SANS

B. One of the most respected incident-response teams in the industry

III. HPPA C. Governs how publicly traded companies store and report financial information

IV. F-Secure D. Maintains repository for information on viruses

V. Sarbanes-Oxley E. Governs privacy of medical records and their security

Answer: B, A, E, D, C **Reference:** Network Security and the Law **Difficulty:** Easy