

Solution Manual for Hands On Ethical Hacking and Network Defense 1st Edition Simpson 1133935613 9781133935612

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Chapter 2 Solutions

Review Questions

1. The Netstat command indicates that POP3 is in use on a remote server. Which port is the remote server most likely using?
 - a. port 110
2. At a Windows XP computer, what command can you enter to show all open ports being used?
 - a. Netstat
3. Which protocol uses UDP?
 - a. TFTP
4. Which protocol offers guaranteed delivery and is connection-oriented?
 - a. TCP
5. TCP communication could be likened to which of the following?
 - a. telephone conversation
6. Which of the following protocols is connectionless? (Choose all that apply.)
 - a. UDP
 - b. IP
7. Which command verifies the existence of a node on a network?
 - a. Ping
8. FTP offers more security than TFTP. True or False?

True
9. List the three components of the TCP/IP three-way handshake.

SYN, SYN-ACK, and ACK
10. What protocol is used for reporting or informational purposes?

c. ICMP

11. List the six flags of a TCP packet.

SYN, ACK, PSH, URG, RST, FIN

12. A UDP packet is usually smaller than a TCP packet. True or False?

True

13. What port, other than port 110, is used to retrieve e-mail?

b. port 143

14. What port does DNS use?

d. port 53

15. What command is used to log on to a remote server, computer, or router?

b. Telnet

16. Which of the following is not a valid octal number?

- c. 3482
- 17. The initial sequence number (ISN) is set at what step of the TCP three-way handshake?
 - d. 1 and 2
- 18. A Ping command initially uses which ICMP type code?
 - b. type 8
- 19. "Destination Unreachable" is designated by which ICMP type code?
 - c. type 3
- 20. What is the hexadecimal equivalent of the binary number 1111 1111?
 - a. FF

Activities

Activity 2-4

1. Octal values are 4, 7, 5, 3, and 2.
2. You should have written the binary number 101, which converts to the octal number 5 (1 + 0 + 4).
3. You use 111 000 000 in binary and 700 in octal.
4. You use 111 110 100 in binary and 764 in octal.
5. Your calculation should be $777 - 020 = 757$. Converting octal 757 gives you the directory permissions `rw-r-xrwx`.
6. You should have done the following to solve this problem:

Default permission: 666

`umask 022`

Result: 644

Permissions: `rw-r--r--`

Case Projects

Case Project 2-1: Determining the Services Running on a Network

Answers may vary. The memo should include the most obvious services that would be running on a corporate network such as K.J. Williams. At the very least, the network would be running e-mail (POP3, IMAP4, SMTP) and Web services.

Case Project 2-2: Investigating Possible E-mail Fraud

Answers may vary. The memo should include the syntax for connecting to an e-mail server and sending an e-mail message to another student, using a different From address.