**CIS 2640 – Lab 16**

**Connecting to a Remote System**

| **Your Name:** | Liliane Owens |
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| **Date:** | 4/8/2023 |

**Instructions**: Complete the tasks described in this worksheet. Read the instructions carefully and submit evidence of your completed tasks (a screen shot is your evidence). Answer the questions below in the space provided.

* **Showing Evidence of Completion:** Your evidence of completion is a screen shot, as described in each exercise. Use the tool of your choice to take a screen shot of the required content. ***Screen shots should be pasted at the end of this document.***
* **Answering Questions:** Your answers should be written in carefully edited college-level English, using complete sentences.

| **Lab – Connecting to a Remote System** | |
| --- | --- |
| **Instructions and Evidence of Completion** | **Answer a Question** |
| At the end of the document (not in this table) paste a screen capture that shows:   1. The successful use of xHydra to find the password for the student account 2. A Wireshark capture in which the username and password for the telnet connection is displayed in cleartext 3. A shell opened on the Kali system using netcat.   ***Be sure your screen shot(s) include any command executed and the resulting output in clear / cropped screenshots.*** | Answer each of the questions below using the space to the right of the question. Be sure your answer is complete and correct. |
| **Question** | **Answer** |
| 1. In this lab xHydra was used to crack a telnet password. What type of password attack was used? | Telnet Dictionary Attack. |
| 1. What does the file /tmp/wordlists/passlist contain? | The password for student. |
| 1. Since telnet is an insecure method of connecting to a remote system what other connection method was used in this lab? | They used SSH connection. |
| 1. What did the pfSense rule on port 23 do? | Because the firewall rule was rejecting the request so port 23 is used to try to open network but it was already all closed. |
| 1. When using ssh what method is used to exchange encryption keys? | The key exchange of traffic between the server and the client. |
| 1. How is a file changed to a hidden file? | In putting a period at the beginning of the file’s name and rename the file and put a period in front. |
| 1. How was netcat used in this lab? | It is used through Kali to be able to send reverse shell. |
| 1. What port was used by netcat in making the connection to the remote machine? | Port 443. |

Put screenshots here:

1. The successful use of xHydra to find the password for the student account.

![Graphical user interface, text, application, email

Description automatically generated]()

1. A Wireshark capture in which the username and password for the telnet connection is displayed in cleartext.

![Graphical user interface, text, application

Description automatically generated]()

1. A shell opened on the Kali system using netcat.

![Text

Description automatically generated]()

![Text

Description automatically generated]()