**CIS 2640 Lab 11**

**Configuring a Network-Based Firewall**

| **Your Name:** | Liliane Owens |
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| **Date:** | 4/7/2023 |

**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 – Configuring a Network-Based Firewall** | |
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| **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 configuration of the pfSense Firewall to block ICMP traffic 2. The creation of the server VPN certificate. 3. A successful VPN connection.   ***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. What does ICMP stand for? | Internet Control Message Protocol. |
| 1. By default, what TCP ports (port numbers) are open on the pfSense ***external*** interface? | TCP ports are open on the pfsense is ICMP. |
| 1. In what section of the pfSense firewall is internal redirection configured? | In section 2 “Redirecting traffic to internal hosts on the network” under “ Firewall: NAT port Forward” |
| 1. What tool can be utilized to verify ports have been open on the firewall? | Use Kali system type this command nmap 203.0.113.1. |
| 1. In this lab, what **port** did Point-to-Point Tunneling Protocol (PPTP) use? | UDP/1194. |
| 1. In this lab, did Point-to-Point Tunneling **Protocol** use TCP or UDP? | In this lab we use UDP. |

Put screenshots here:

1. The successful configuration of the pfSense Firewall to block ICMP traffic.

![Calendar

Description automatically generated]()

1. The creation of the server VPN certificate.

![A picture containing timeline

Description automatically generated]()

1. A successful VPN connection.

![Graphical user interface, text, application, email

Description automatically generated]()