

Configuring Custom Firewall Rules with pfSense (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 07

Student:

Nick Derleth

Email:

nderle02664@fontbonne.edu

Time on Task:

1 hour, 25 minutes

Progress:

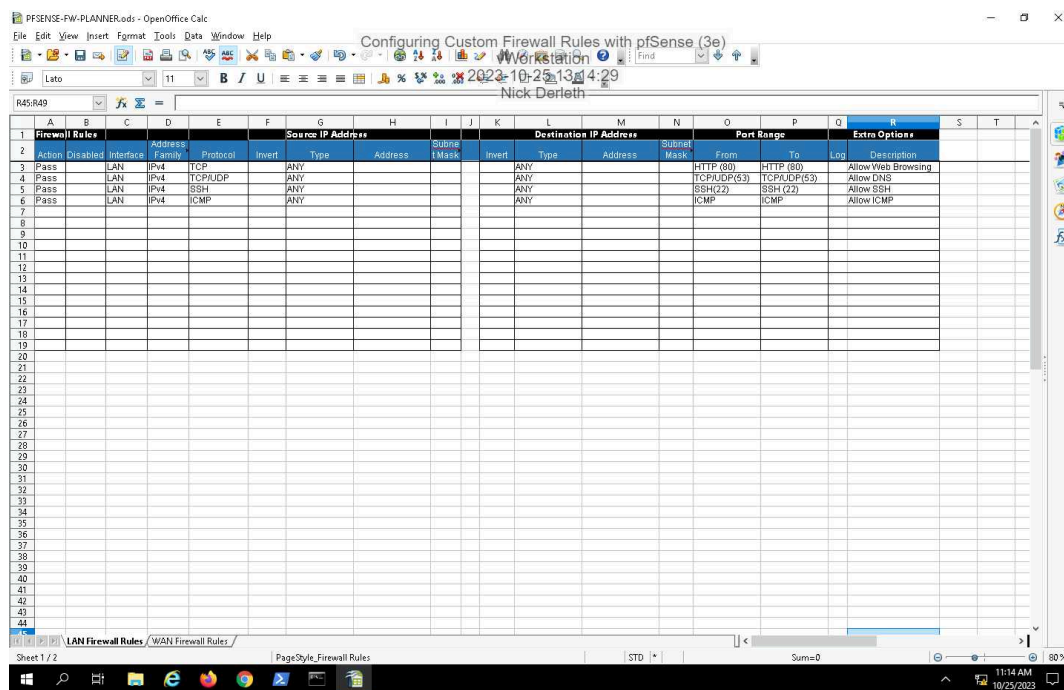
73%

Report Generated: Sunday, November 19, 2023 at 11:13 PM

Section 1: Hands-On Demonstration

Part 1: Plan the LAN Firewall Rules

14. **Make a screen capture** showing the **completed LAN Firewall Rules tab** in the PFSense-FW-PLANNER worksheet.



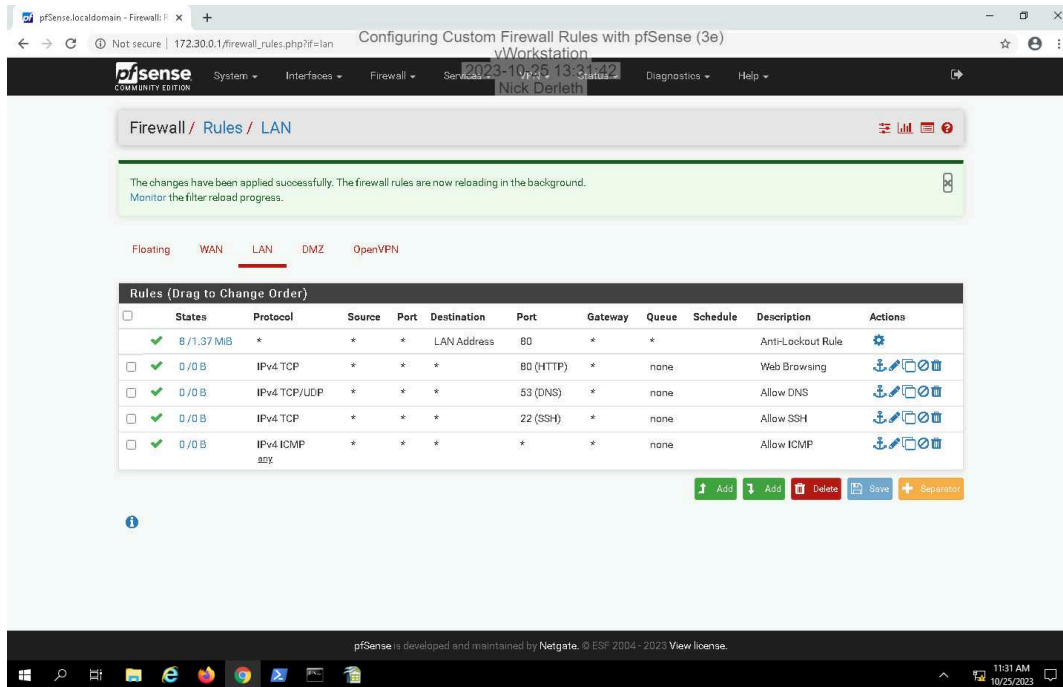
| Action | Interface | Address | Protocol | Source IP Address | Destination IP Address | Port Range | Extra Options |
|--------|-----------|---------|----------|-------------------|------------------------|------------|--------------------|
| Pass | LAN | IPv4 | TCP | ANY | ANY | HTTP (80) | Allow Web Browsing |
| Pass | LAN | IPv4 | TCP | ANY | ANY | TCP (22) | Allow SSH |
| Pass | LAN | IPv4 | SSH | ANY | ANY | SSH (22) | Allow SSH |
| Pass | LAN | IPv4 | ICMP | ANY | ANY | ICMP | Allow ICMP |

Part 2: Configure the LAN Firewall Rules

Configuring Custom Firewall Rules with pfSense (3e)

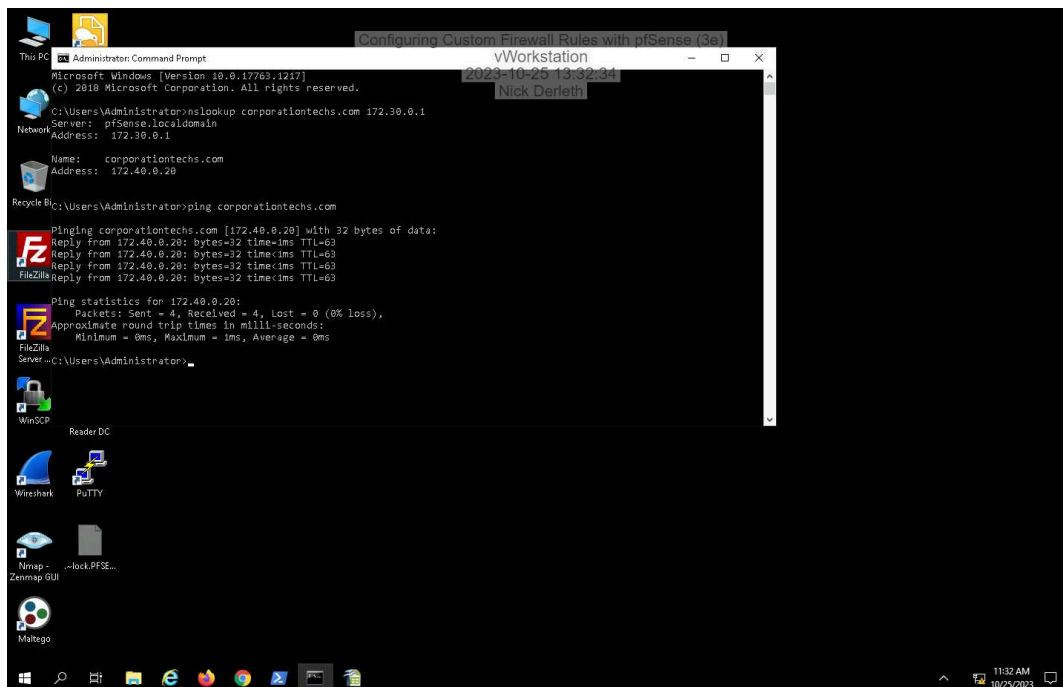
Network Security, Firewalls, and VPNs, Third Edition - Lab 07

23. Make a screen capture showing your completed LAN Rules table.



Part 3: Verify Firewall Rules for the LAN

4. Make a screen capture showing the successful ping and nslookup.



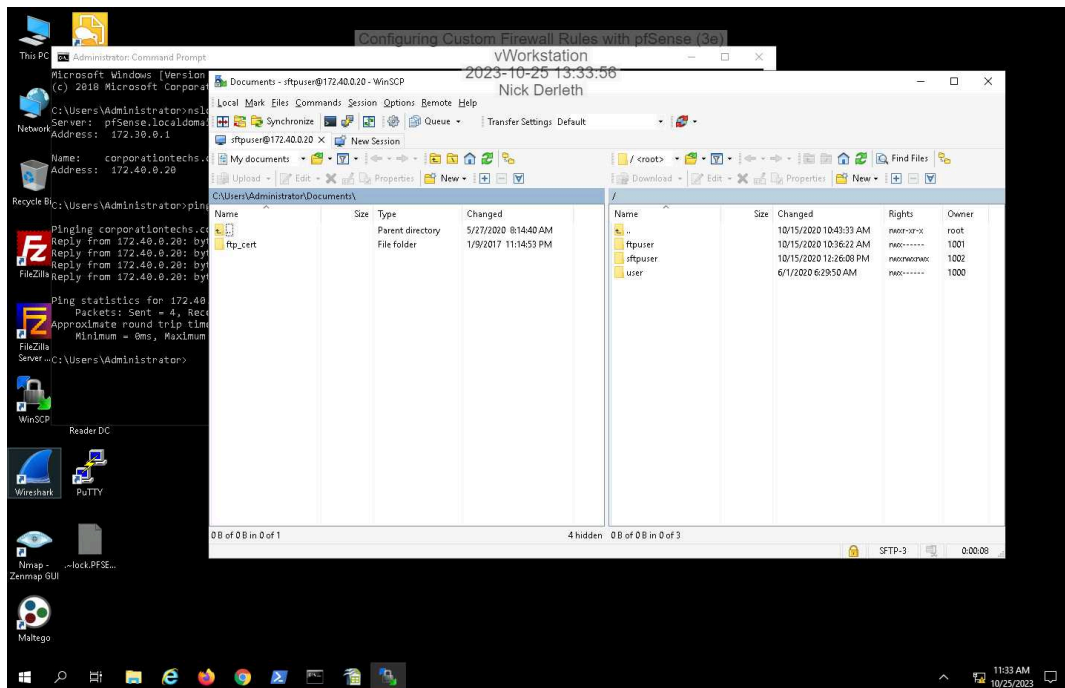
Configuring Custom Firewall Rules with pfSense (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 07

8. Make a screen capture showing the **corporationtechs.com** homepage in the Firefox browser.



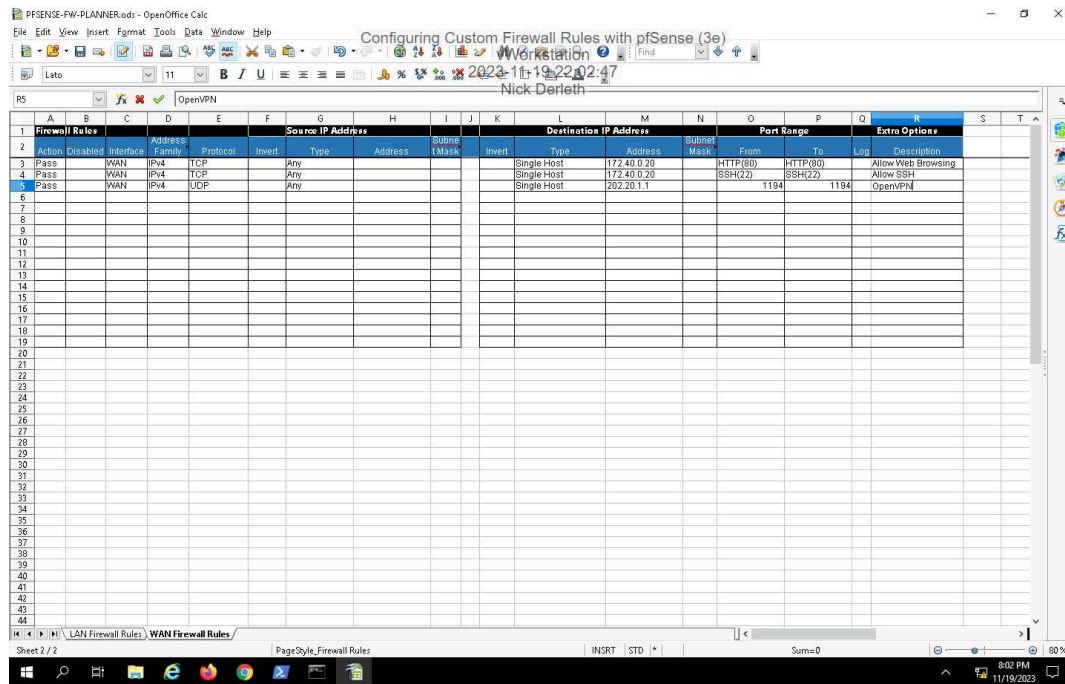
14. Make a screen capture showing the successful SSH connection in WinSCP.



Section 2: Applied Learning

Part 1: Plan the Firewall Rules for the WAN

12. **Make a screen capture** showing the **completed WAN Firewall Rules** in the PFSense-FW-PLANNER spreadsheet.



The screenshot shows a spreadsheet titled "PFSense-FW-PLANNER" with a tab labeled "WAN Firewall Rules". The spreadsheet contains a table with the following data:

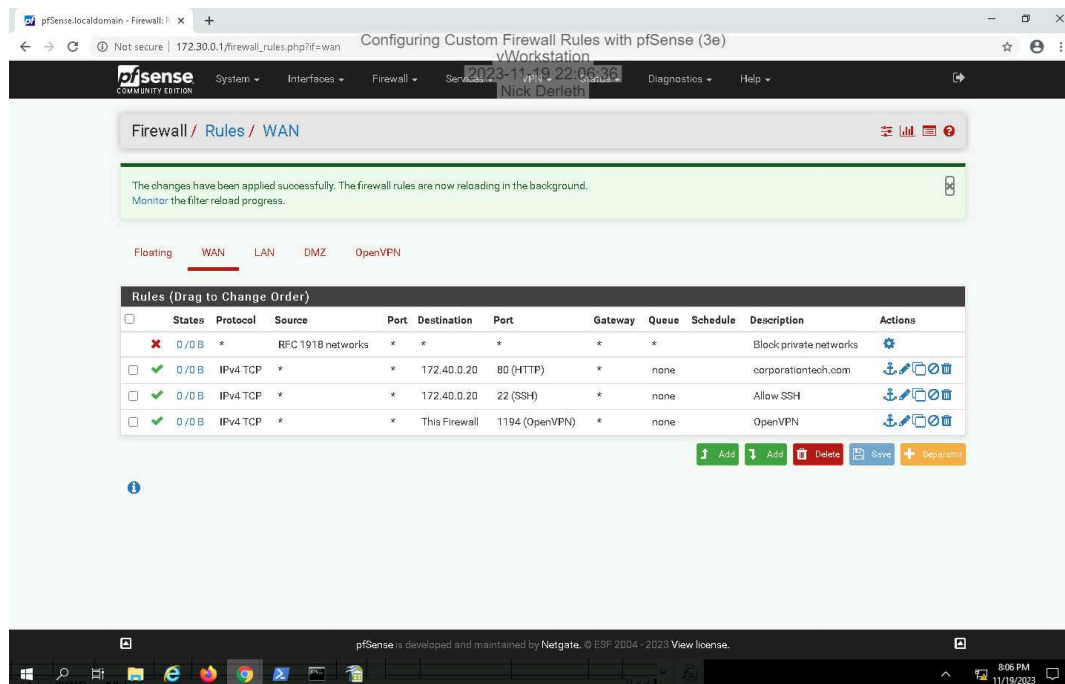
| Firewall Rules | Direction | Interface | Address Family | Protocol | Invert | Type | Source IP Address | Subnet Mask | Destination IP Address | Subnet Mask | Port Range | Extra Options |
|----------------|-----------|-----------|----------------|----------|--------|------|-------------------|-------------|------------------------|-------------|------------|--------------------|
| 1 | Pass | WAN | IPv4 | TCP | | Any | Single Host | 172.40.0.20 | 172.40.0.20 | | HTTP(80) | Allow Web Browsing |
| 2 | Pass | WAN | IPv4 | TCP | | Any | Single Host | 172.40.0.20 | 172.40.0.20 | | SSH(22) | Allow SSH |
| 3 | Pass | WAN | IPv4 | UDP | | Any | Single Host | 202.20.1.1 | 202.20.1.1 | | 1194 | OpenVPN |

Part 2: Configure the WAN Firewall Rules

Configuring Custom Firewall Rules with pfSense (3e)

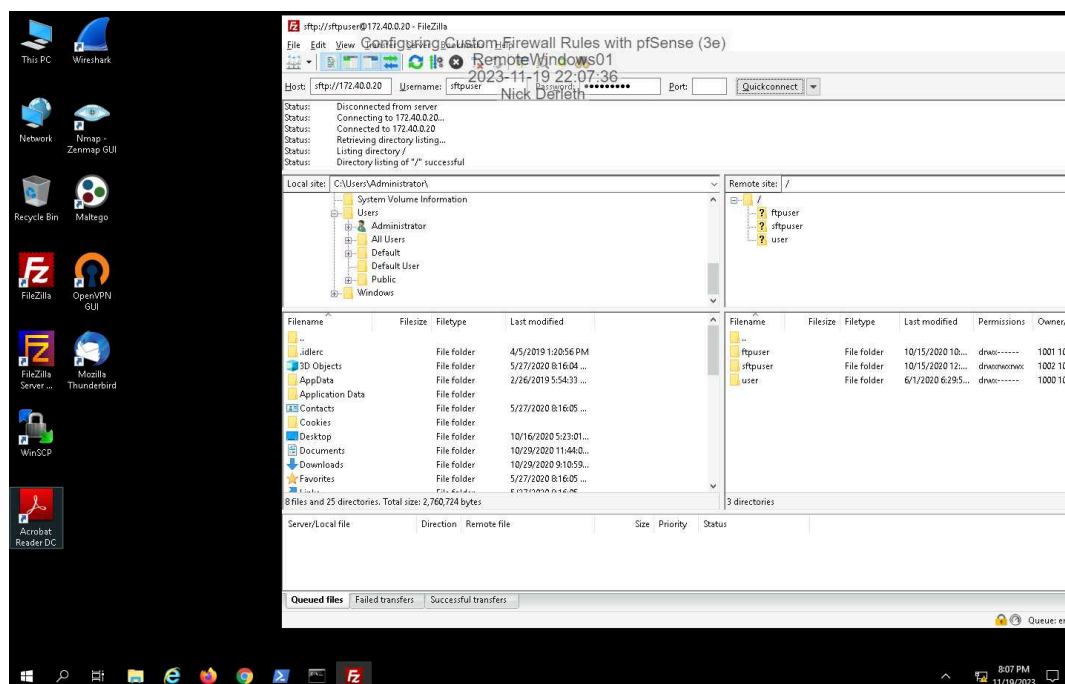
Network Security, Firewalls, and VPNs, Third Edition - Lab 07

14. Make a screen capture showing your completed WAN Rules table.



Part 3: Verify Firewall Rules for the WAN

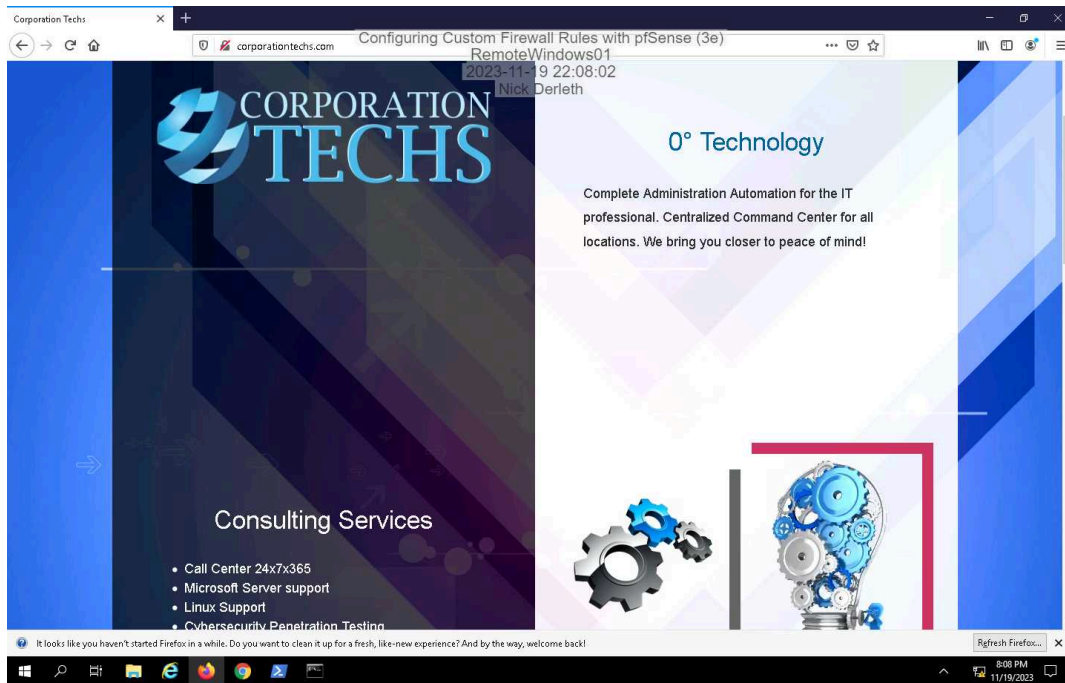
5. Make a screen capture showing the three user folders in the remote directory.



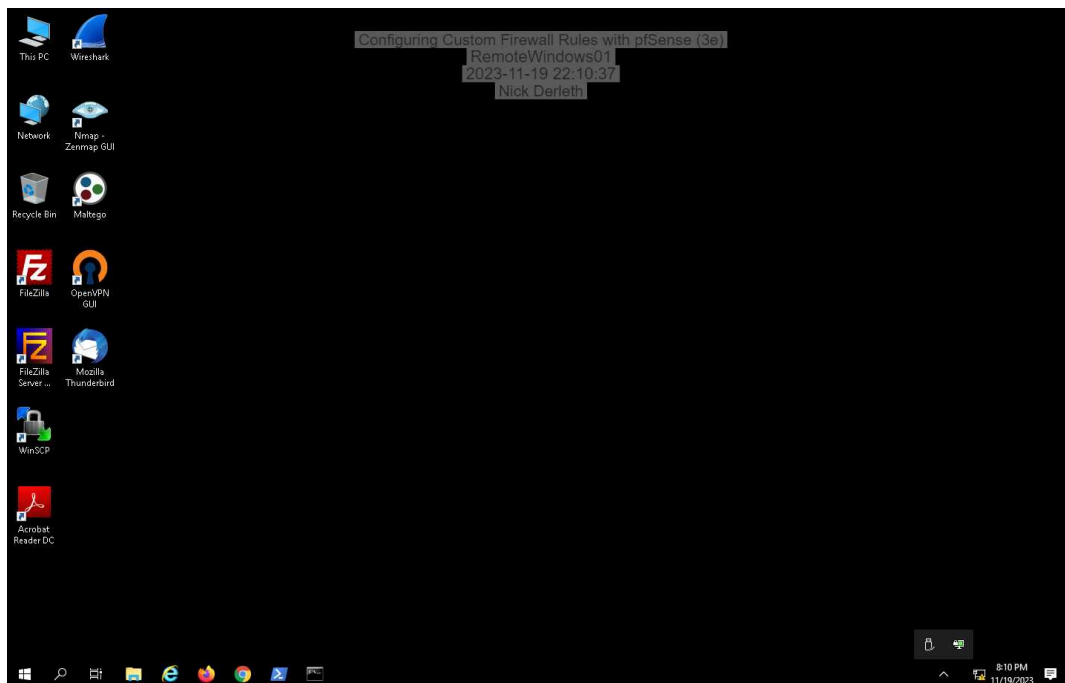
Configuring Custom Firewall Rules with pfSense (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 07

9. Make a screen capture showing the **corporationtechs.com** website.



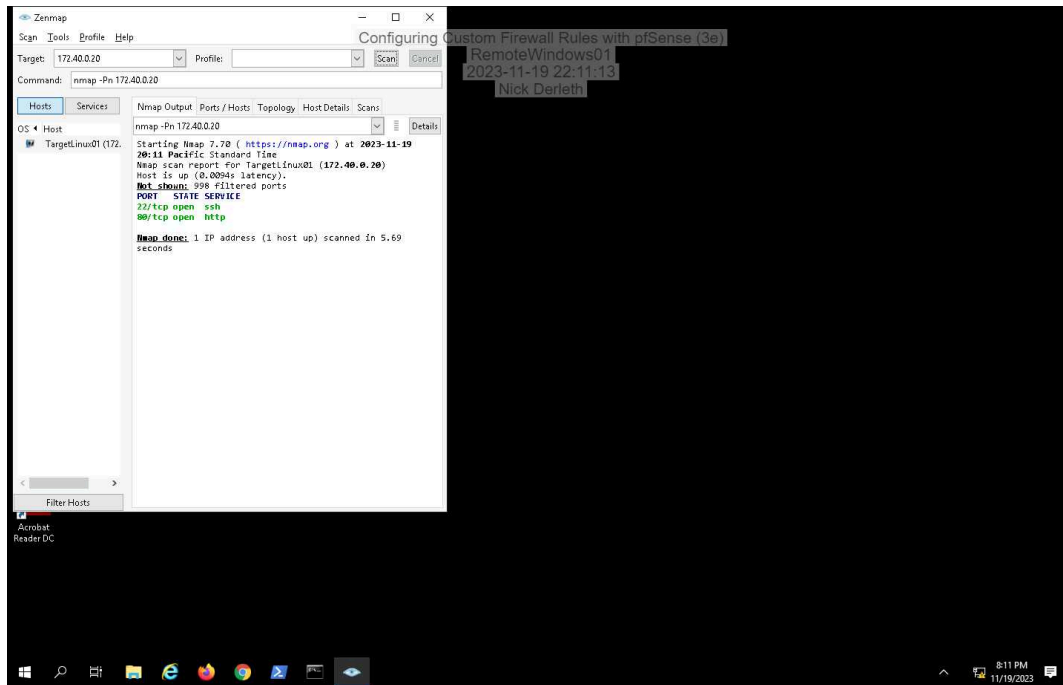
14. Make a screen capture showing the **green OpenVPN icon** in the system tray.



Configuring Custom Firewall Rules with pfSense (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 07

18. **Make a screen capture** showing the **ports and services discovered** on the **TargetLinux01** host.



Section 3: Challenge and Analysis

Part 1: Permit LAN Access from the VPN

Make a screen capture showing the **OpenVPN** rules list in the pfSense WebGUI.

Incomplete

Make a screen capture showing the **email** in **Matt Ramone's** inbox.

Incomplete

Part 2: Add an ICMP Rule using EasyPass

Make a screen capture showing the **attempted ICMP** request in the firewall log.

Incomplete

Make a screen capture showing your **EasyRule for ICMP** in the Firewall Rule's WAN table.

Incomplete