

Student:
Vidhi Kadakia

Email:
jinsukrishna108@gmail.com

Time on Task:
7 hours, 37 minutes

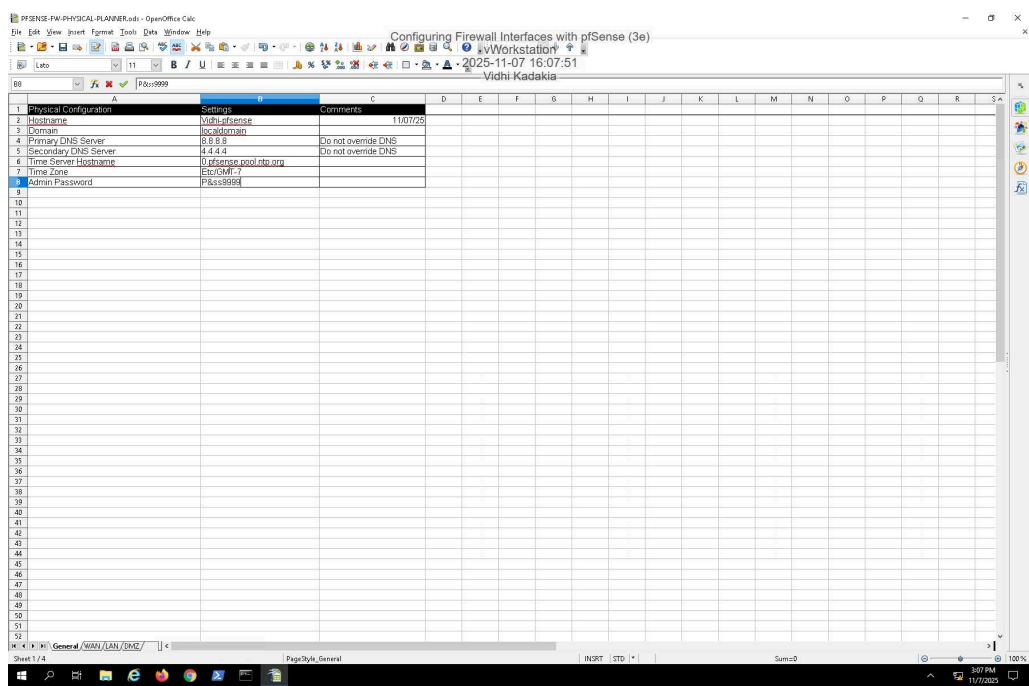
Progress:
100%

Report Generated: Sunday, November 9, 2025 at 8:03 PM

Section 1: Hands-On Demonstration

Part 1: Plan the Physical Configuration of the Firewall

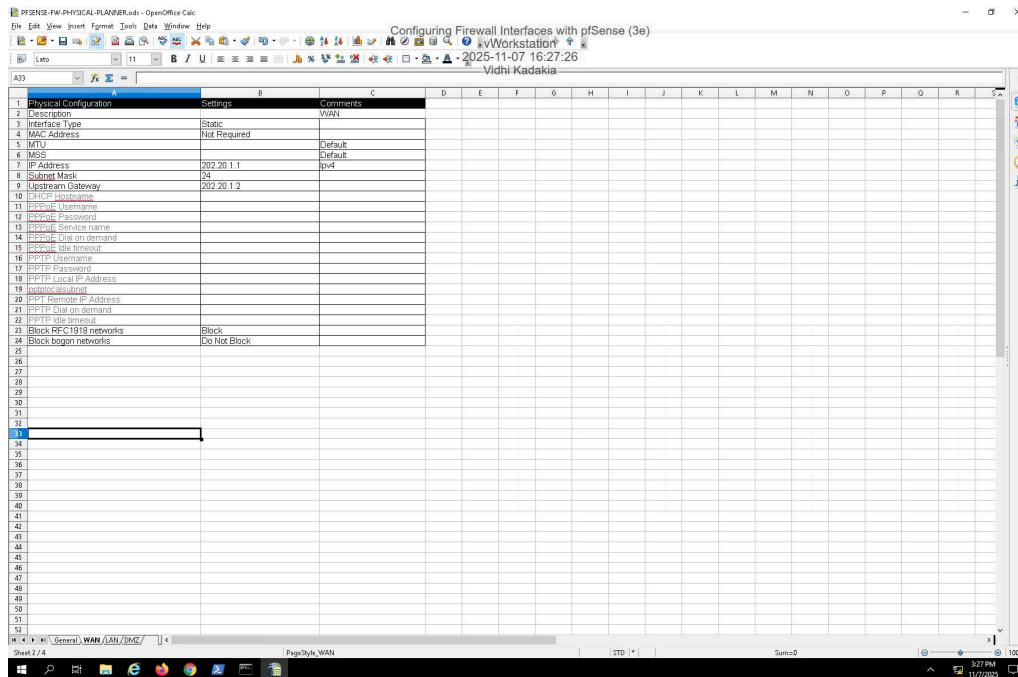
- 10. Make a screen capture showing the completed General tab of the Planner.



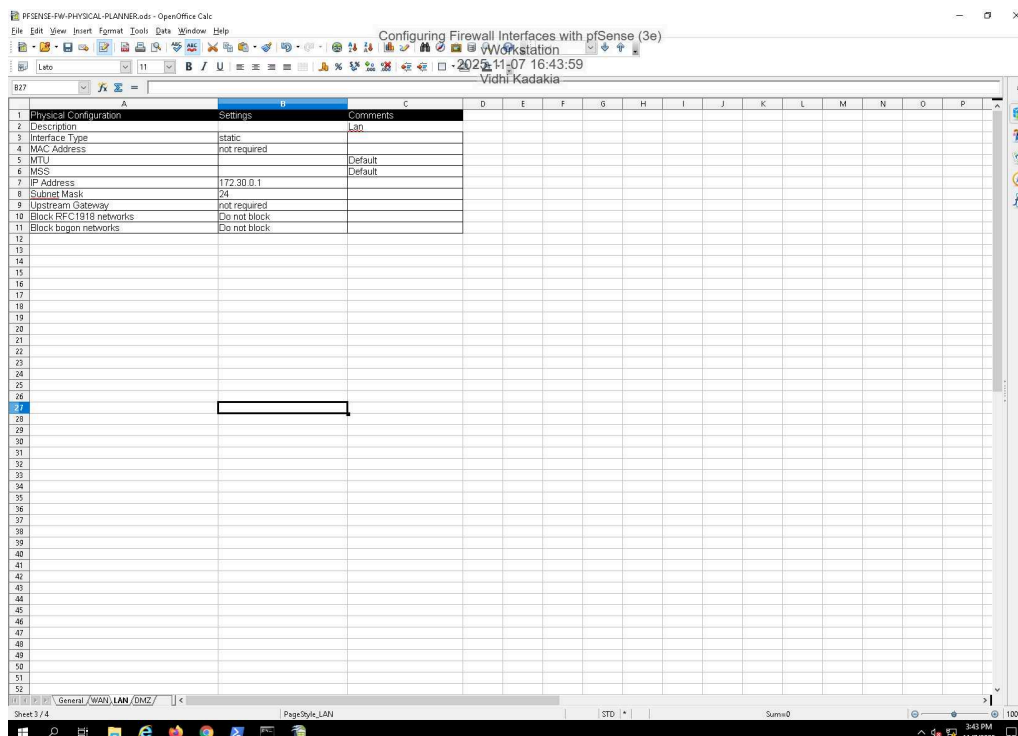
Configuring Firewall Interfaces with pfSense (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 05

25. Make a screen capture showing the **completed WAN tab** of the **Physical Configuration worksheet**.

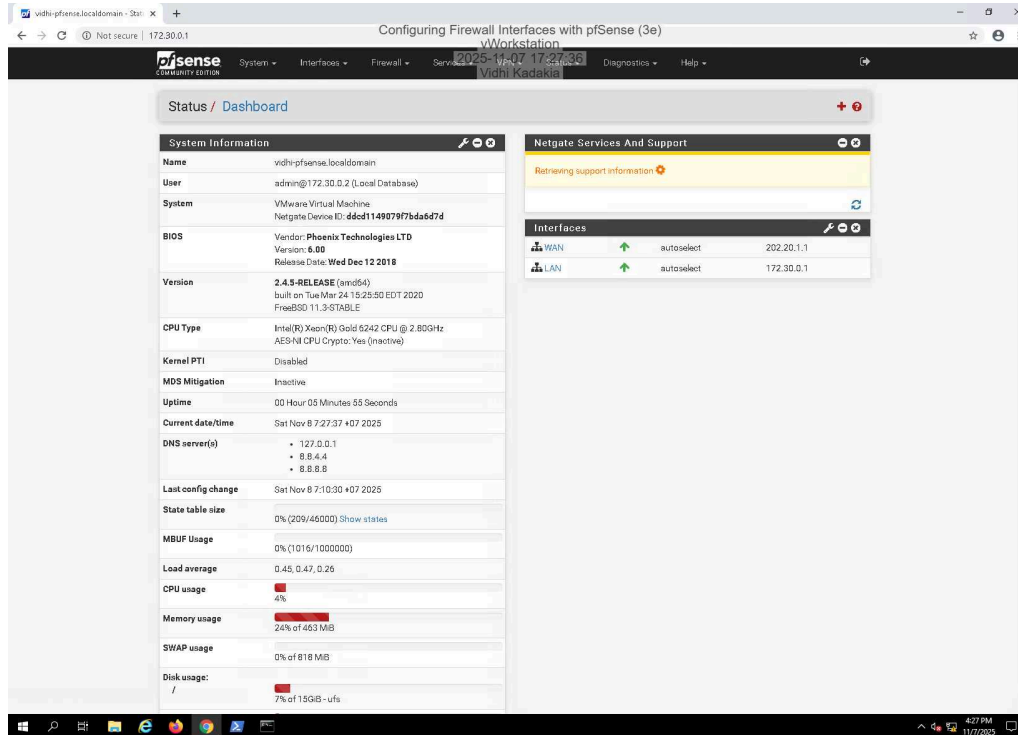


27. Make a screen capture showing the **completed LAN tab** of the **Physical Configuration worksheet**.



Part 2: Configure the LAN and WAN Firewall Interfaces

36. Make a screen capture showing the LAN and WAN interfaces on the pfSense WebGUI dashboard.

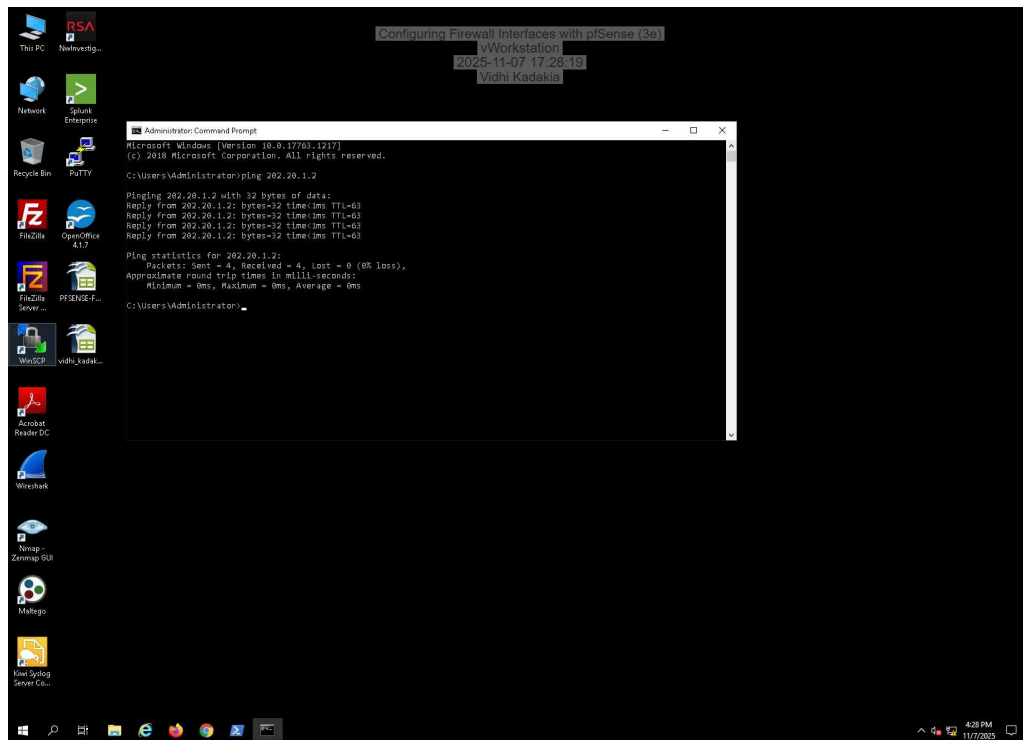


Part 3: Verify the Firewall Implementation

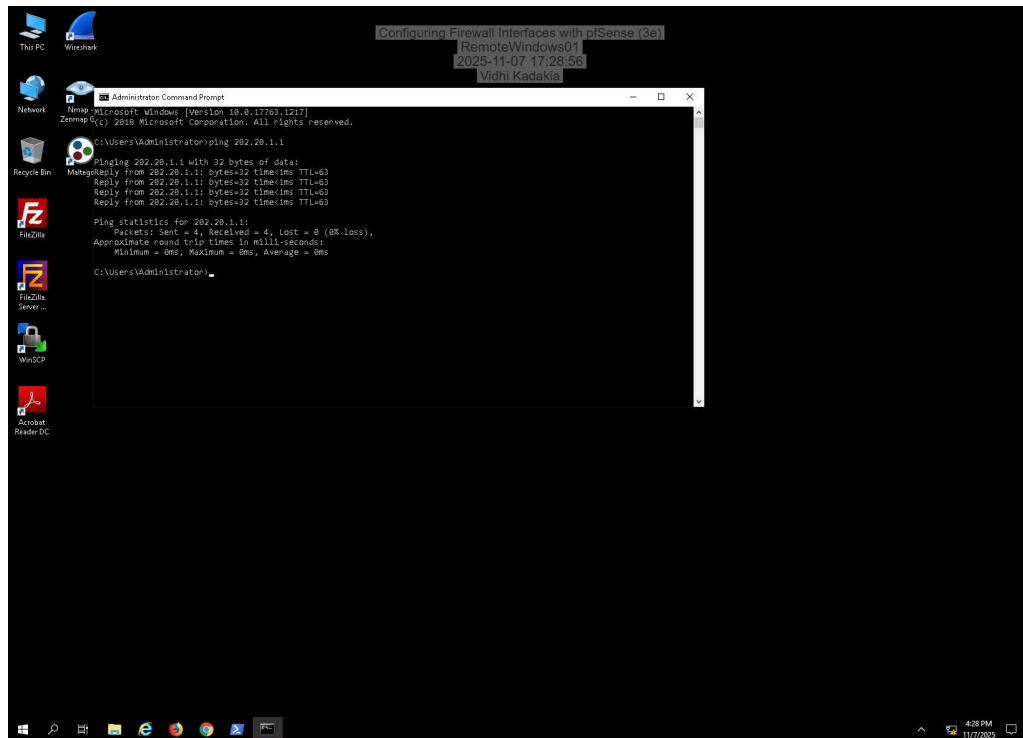
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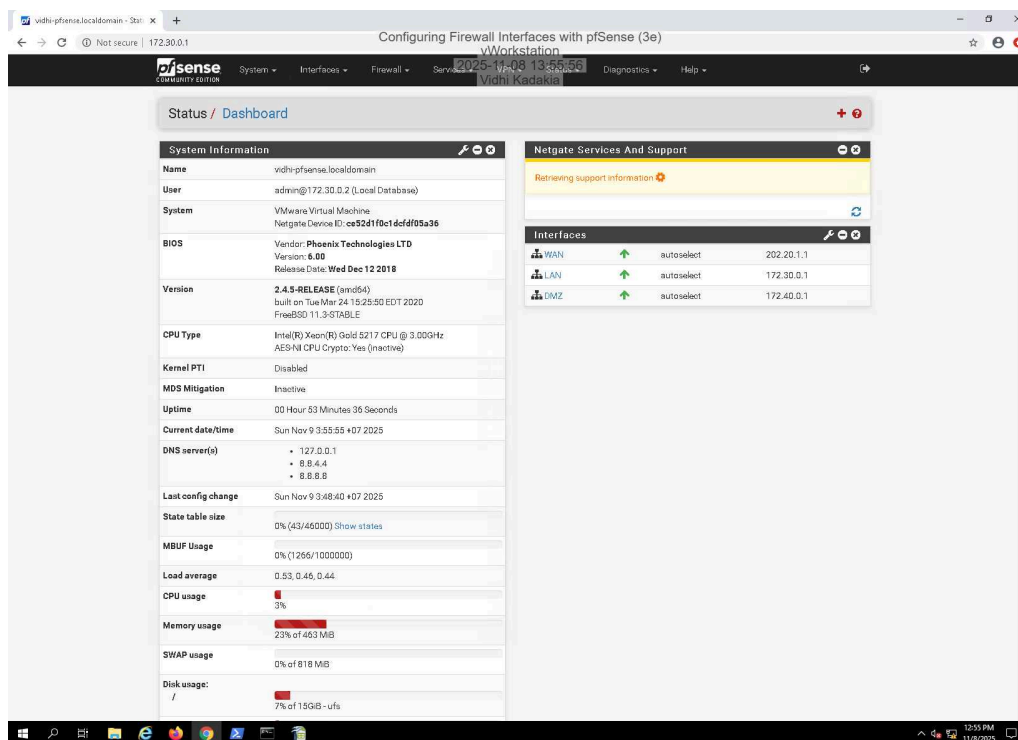
3. **Make a screen capture** showing the **successful ICMP request** to pfSense's upstream gateway.



8. Make a screen capture showing the **successful ICMP request to the pfSense WAN interface**.

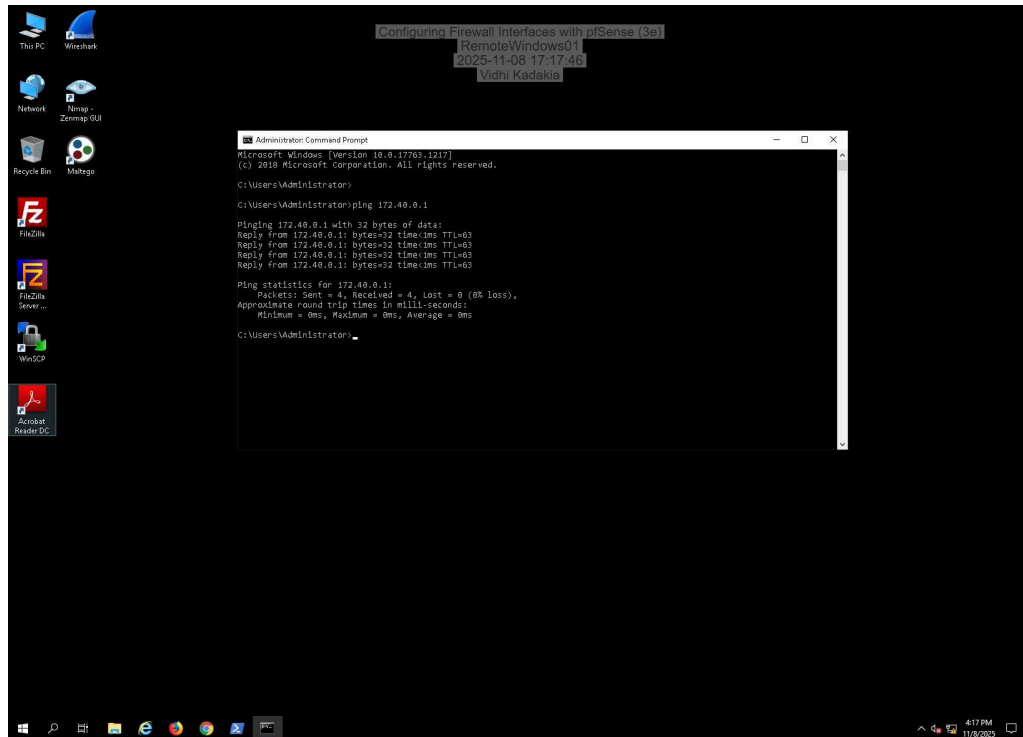


9. Make a screen capture showing the **DMZ** interface on the pfSense WebGUI dashboard.



Part 3: Verify the Firewall Implementation

4. Make a screen capture showing the **successful ICMP request to the DMZ interface**.



8. Make a screen capture showing the **corporationtechs.com** web page on the **RemoteWindows01** machine.

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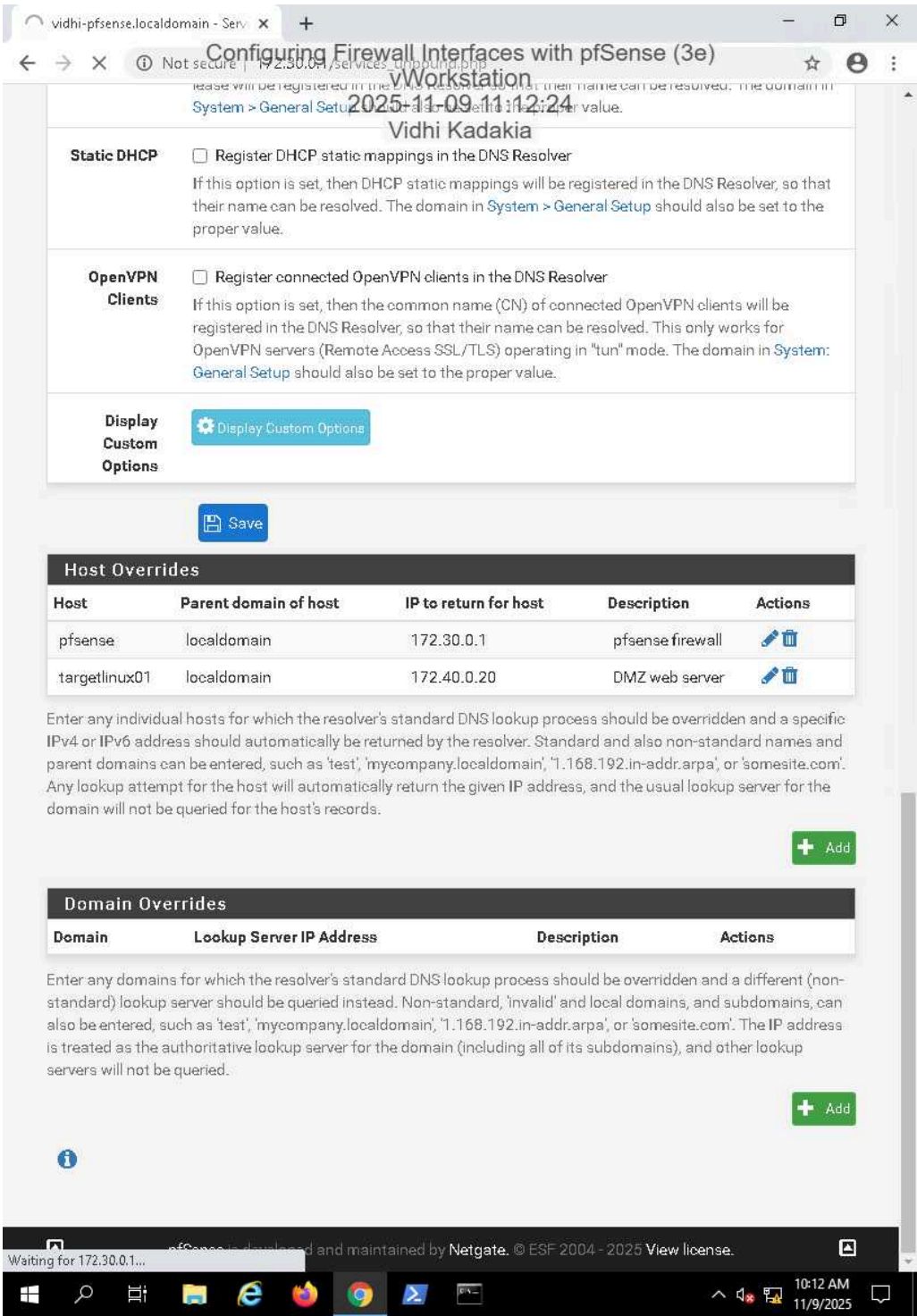
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Section 3: Challenge and Analysis

Part 1: Configure and Test Split DNS on pfSense

Make a screen capture showing your Host Override entries in the DNS Resolver.



Make a screen capture showing a **successful nslookup test for both DNS entries**.



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.1217]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>nslookup pfsense.localdomain 172.30.0.1
Server: vidhi-pfsense.localdomain
Address: 172.30.0.1

Name: pfsense.localdomain
Address: 172.30.0.1

C:\Users\Administrator>nslookup targetlinux01.localdomain 172.30.0.1
Server: vidhi-pfsense.localdomain
Address: 172.30.0.1

Name: targetlinux01.localdomain
Address: 172.40.0.20

C:\Users\Administrator>
```

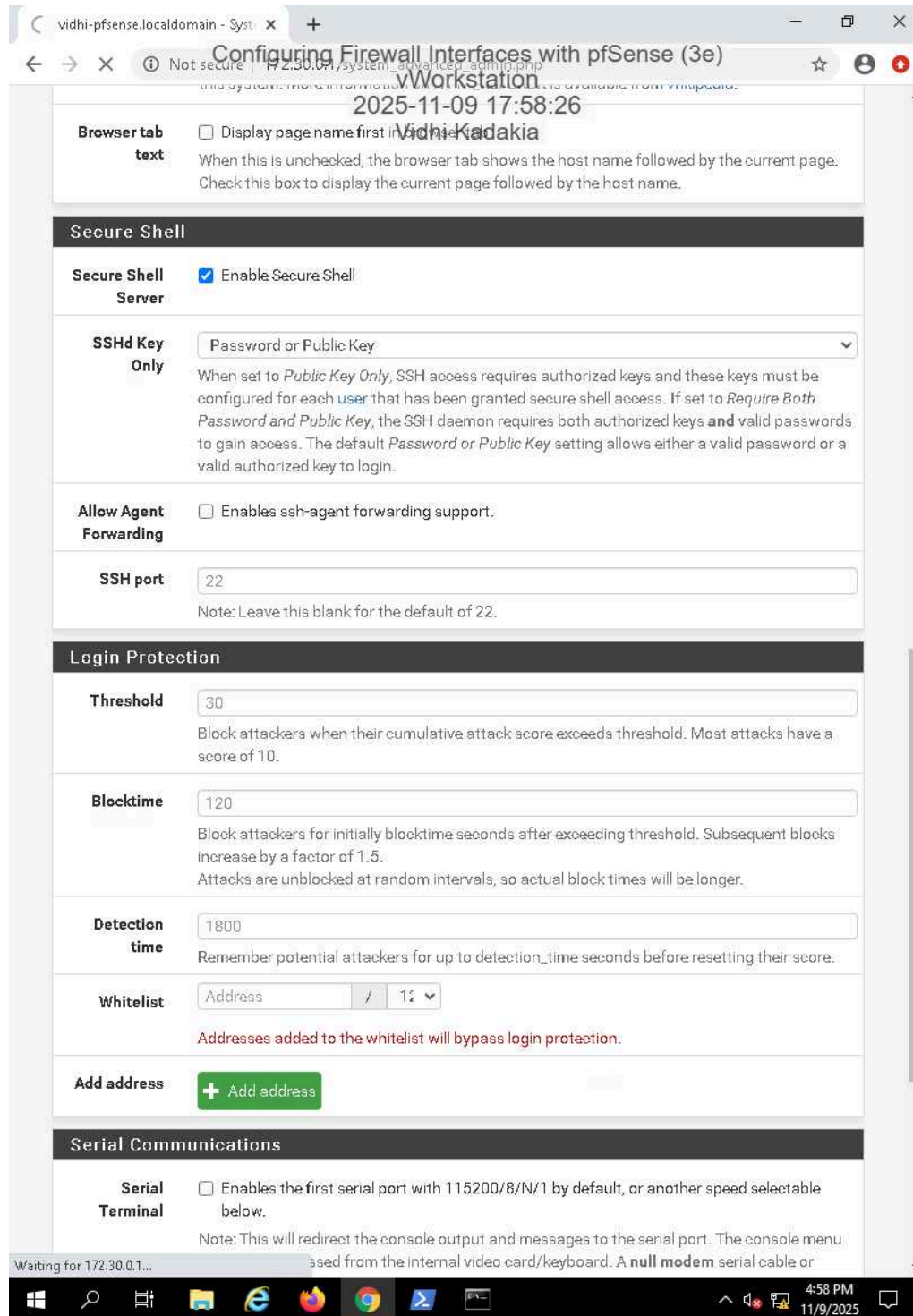
The screenshot shows a Windows Command Prompt window titled "Administrator: Command Prompt". The window displays the results of two nslookup commands. The first command is "nslookup pfsense.localdomain 172.30.0.1", which returns "Server: vidhi-pfsense.localdomain", "Address: 172.30.0.1", "Name: pfsense.localdomain", and "Address: 172.30.0.1". The second command is "nslookup targetlinux01.localdomain 172.30.0.1", which returns "Server: vidhi-pfsense.localdomain", "Address: 172.30.0.1", "Name: targetlinux01.localdomain", and "Address: 172.40.0.20". The prompt is currently at "C:\Users\Administrator>". The taskbar at the bottom shows the time as 10:43 AM on 11/9/2025.

Part 2: Enable and Test Secure Shell Access on pfSense

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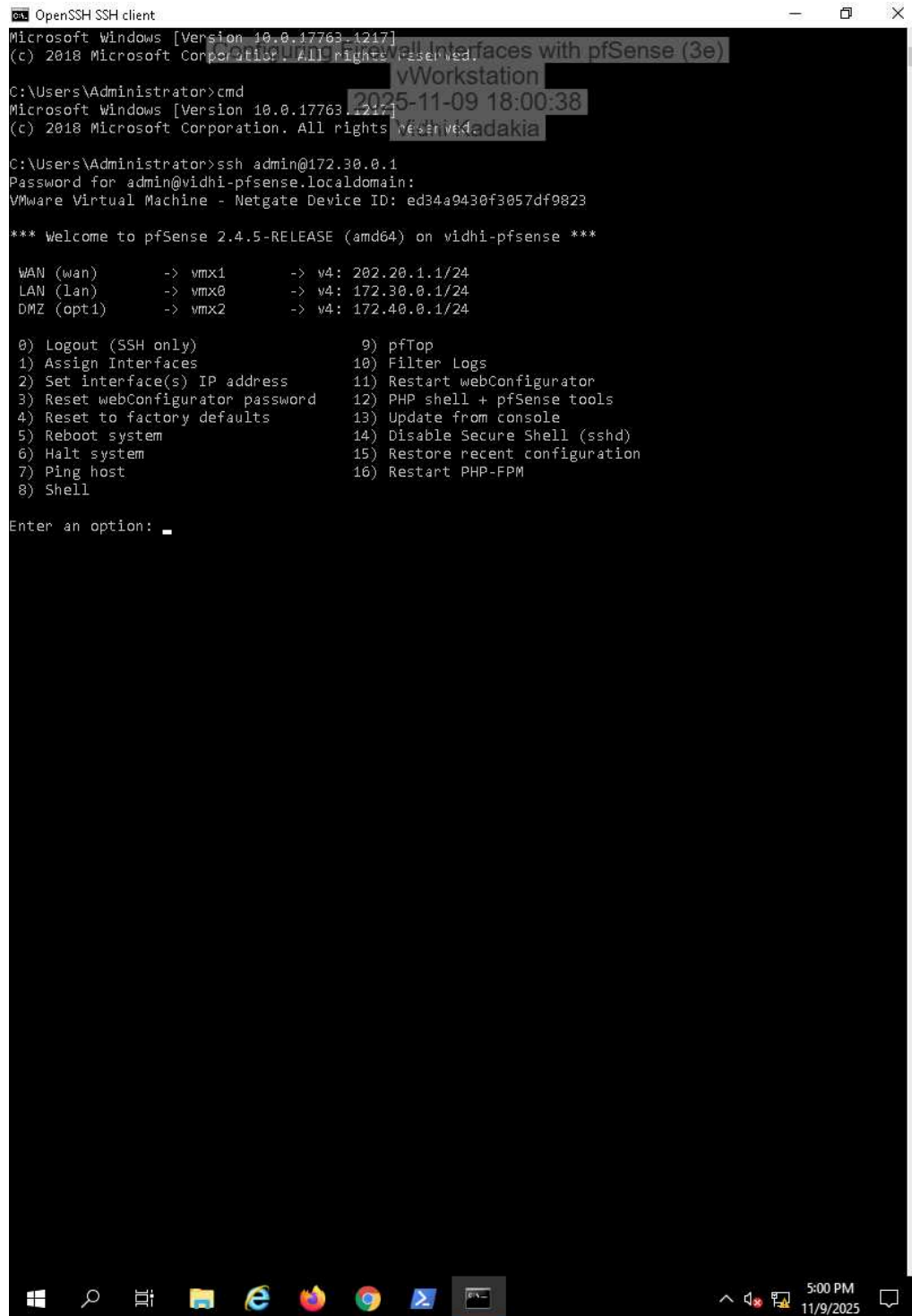
Make a screen capture showing the enabled option for SSH access.



Configuring Firewall Interfaces with pfSense (3e)

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Make a screen capture showing your successful SSH connection.



The screenshot shows a Windows terminal window titled "OpenSSH SSH client". The user has executed the command `ssh admin@172.30.0.1`. The terminal output shows the connection details, including the password prompt and the device ID. The user is now at the pfSense 2.4.5-RELEASE (amd64) prompt. The terminal displays the following information:

```
Microsoft Windows [Version 10.0.17763.1217]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>cmd
Microsoft Windows [Version 10.0.17763.1217]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ssh admin@172.30.0.1
Password for admin@vidhi-pfsense.localdomain:
VMware Virtual Machine - Netgate Device ID: ed34a9430f3057df9823

*** Welcome to pfSense 2.4.5-RELEASE (amd64) on vidhi-pfsense ***

WAN (wan)      -> vmx1      -> v4: 202.20.1.1/24
LAN (lan)      -> vmx0      -> v4: 172.30.0.1/24
DMZ (opt1)     -> vmx2      -> v4: 172.40.0.1/24

0) Logout (SSH only)          9) pfTop
1) Assign Interfaces          10) Filter Logs
2) Set interface(s) IP address 11) Restart webConfigurator
3) Reset webConfigurator password 12) PHP shell + pfSense tools
4) Reset to factory defaults    13) Update from console
5) Reboot system              14) Disable Secure Shell (sshd)
6) Halt system                15) Restore recent configuration
7) Ping host                  16) Restart PHP-FPM
8) Shell

Enter an option: _
```

The terminal window is overlaid on a Windows desktop. The taskbar at the bottom shows the Start button, search icon, task view icon, and several application icons (File Explorer, Edge, Firefox, Chrome, VS Code, and the terminal). The system tray in the bottom right corner shows the time as 5:00 PM on 11/9/2025.