

Configuring a VPN Client for Secure File Transfers (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 09

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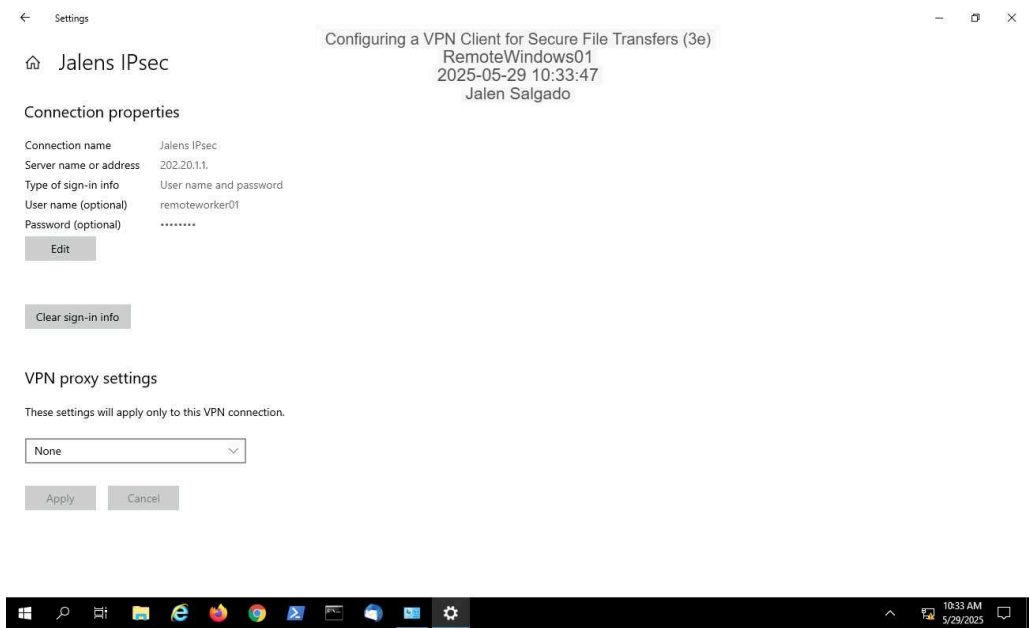
Time on Task:	Progress:
3 hours, 9 minutes	100%

Report Generated: Saturday, July 26, 2025 at 2:12 PM

Section 1: Hands-On Demonstration

Part 1: Configure a Windows VPN Client

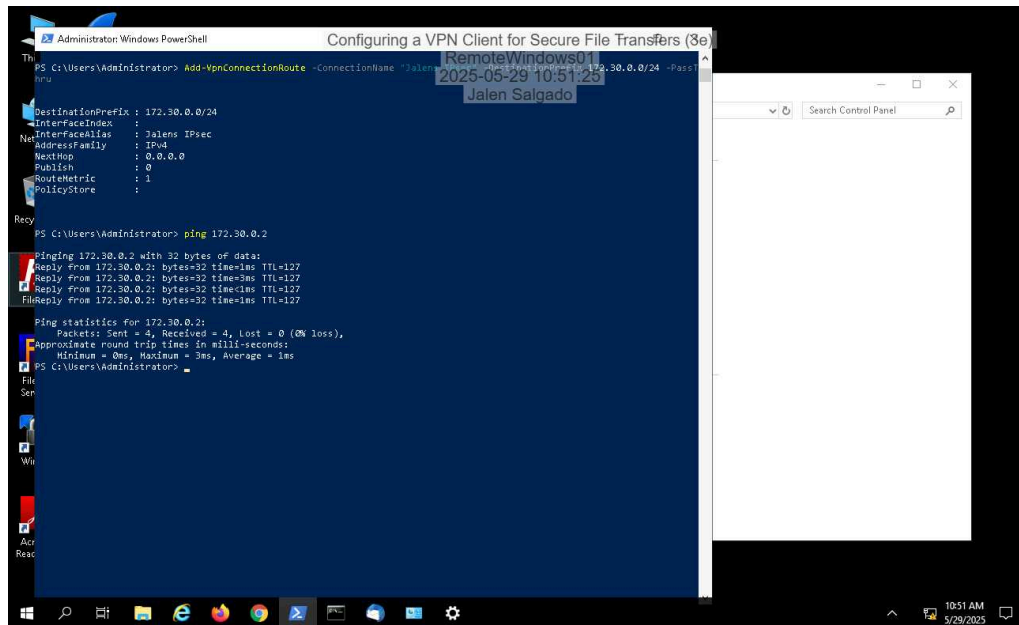
30. Make a screen capture showing the VPN connection properties.



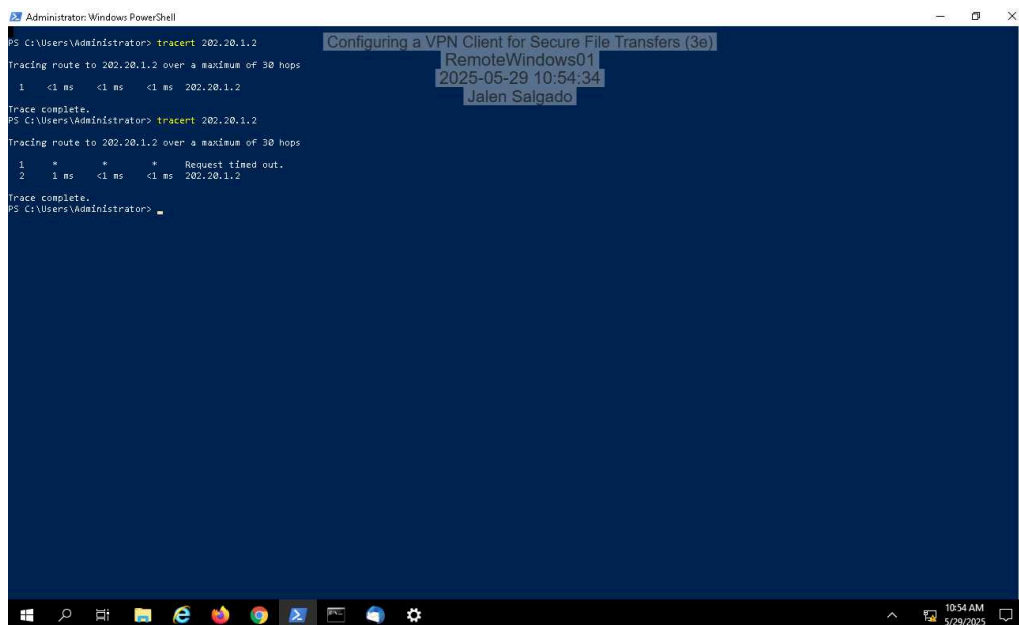
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54. Make a screen capture showing the successful ping response.



72. Make a screen capture showing your new tracert results.

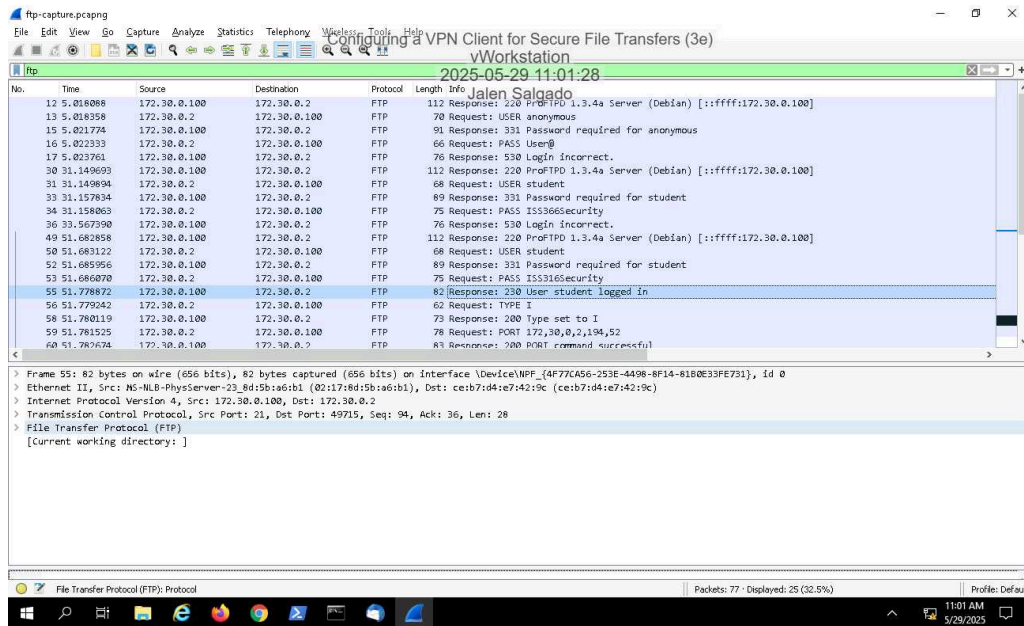


Part 2: Compare Secure and Non-Secure File Transfers in Wireshark

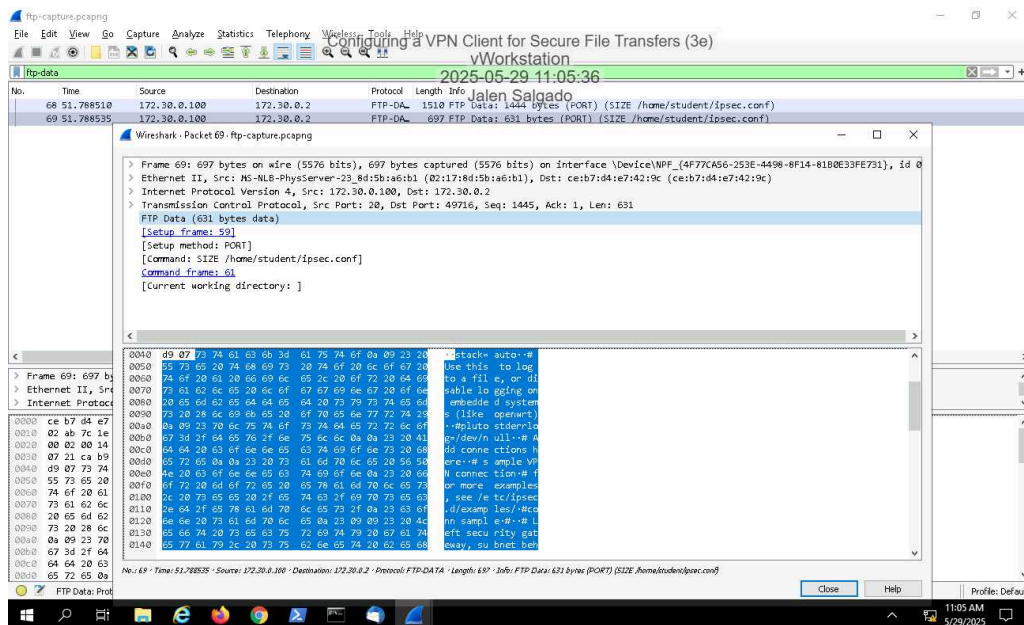
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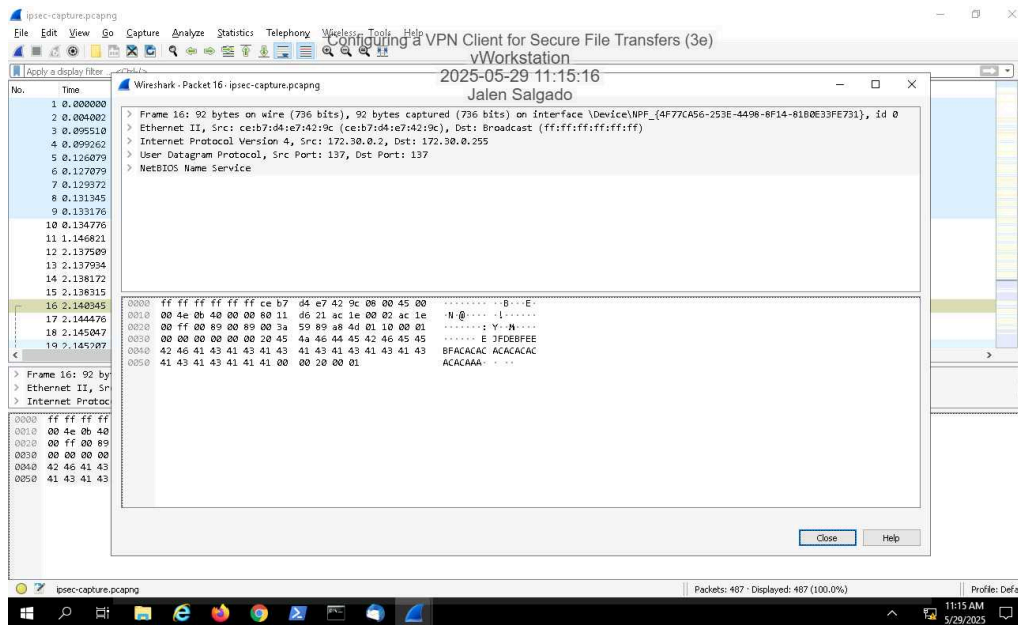
12. Make a screen capture showing the packet that carries the correct password.



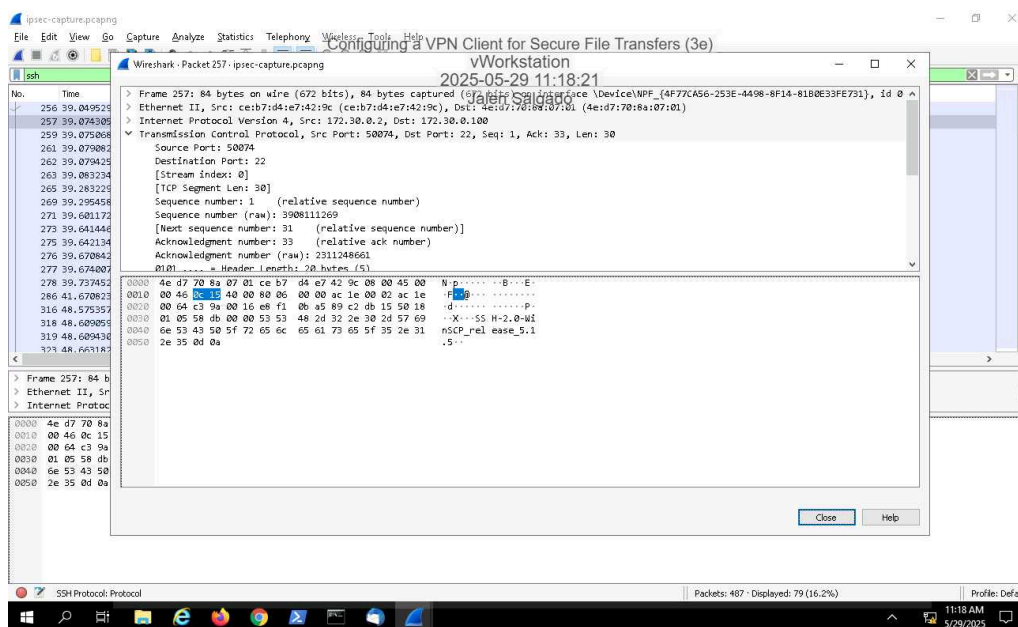
28. Make a screen capture showing the Wireshark window and the packet bytes pane for Packet 69.



44. Make a screen capture showing the packet details pane for packet 16.



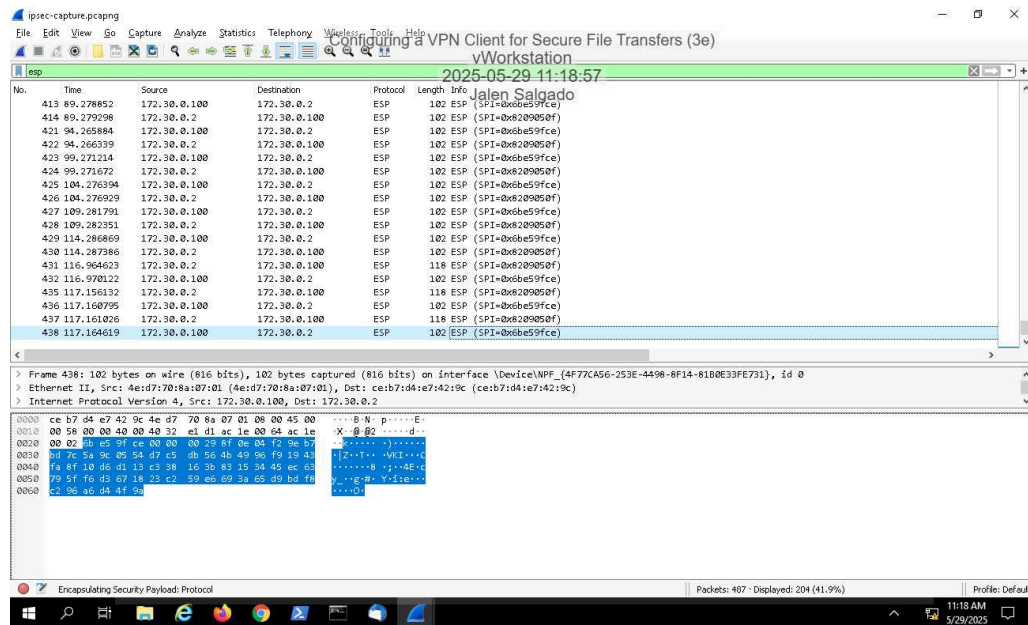
49. Make a screen capture showing the last SSHv2 packet in the SSH file transfer.



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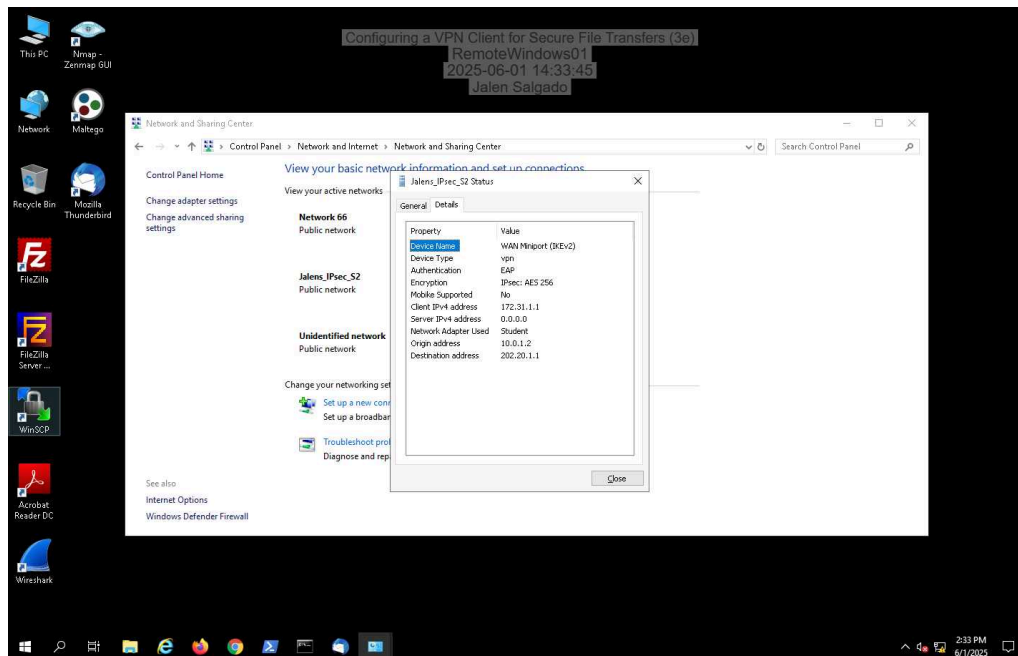
51. Make a screen capture showing the last packets in the ESP exchange.



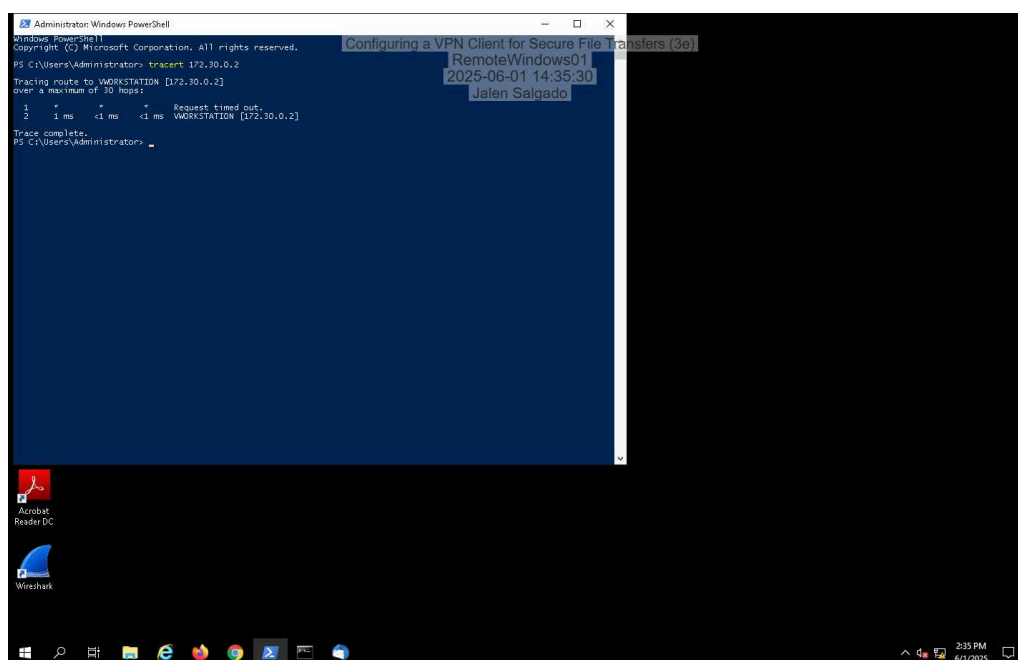
Section 2: Applied Learning

Part 1: Configure a Windows VPN Client

19. Make a screen capture showing the IPsec VPN connection encrypted with AES 256.

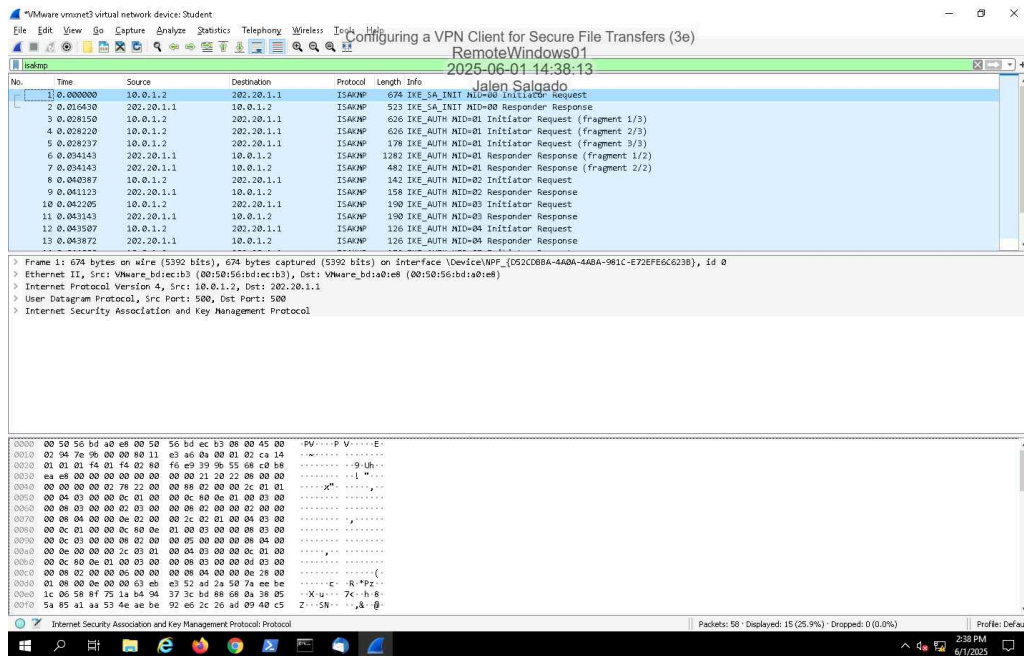


23. Make a screen capture showing your successful tracert to the remote machine.

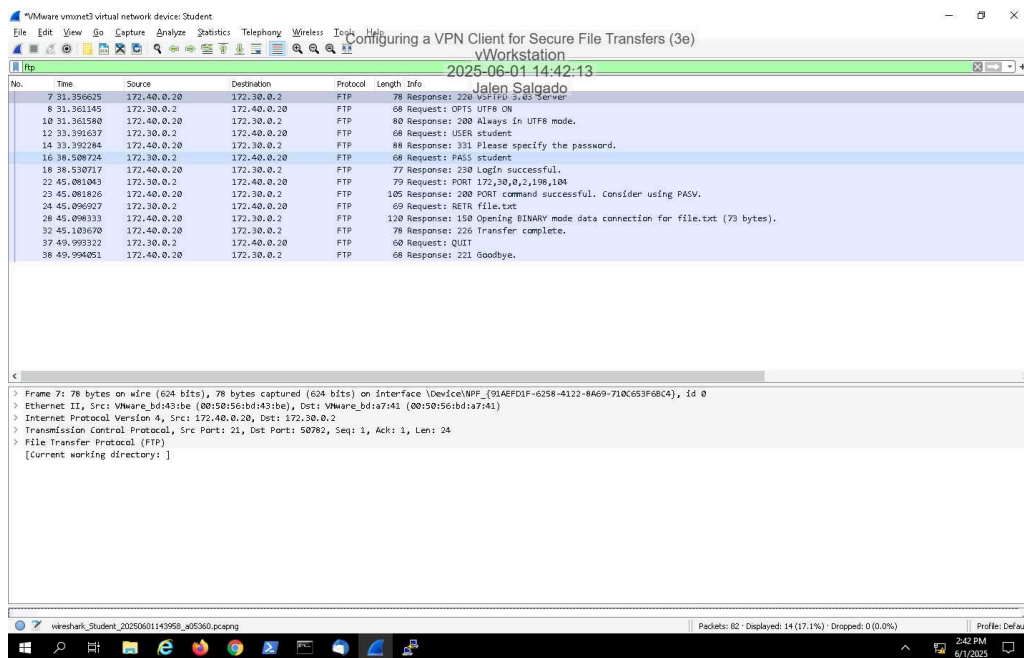


Part 2: Compare Secure and Non-Secure File Transfers in Wireshark

7. Make a screen capture showing the IKE_SA_INIT and IKE_AUTH packets.



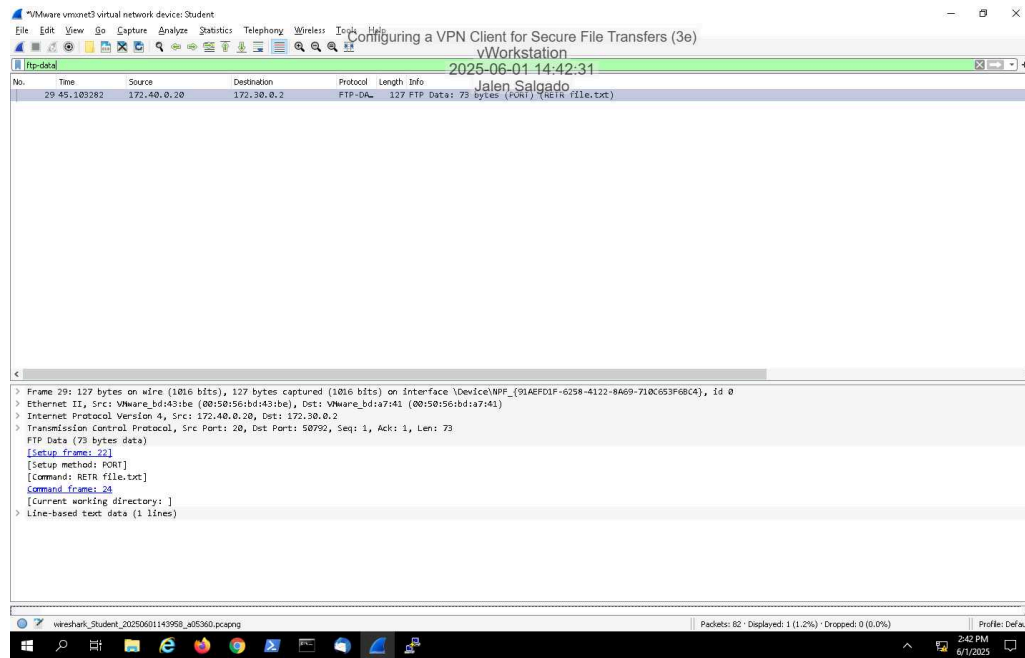
22. Make a screen capture showing the filtered FTP packets in your capture file.



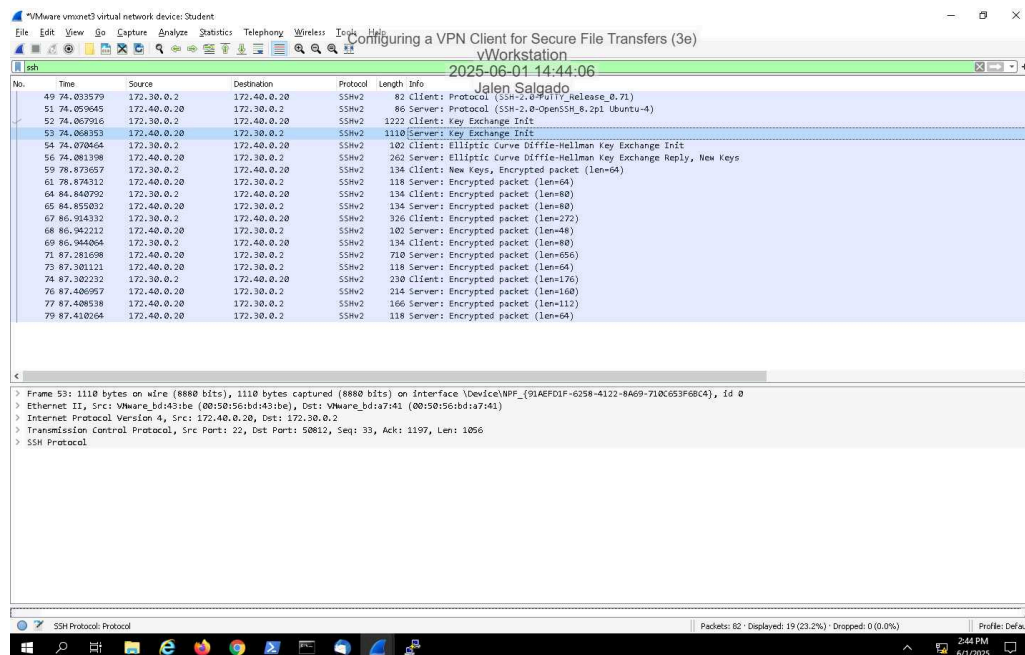
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24. Make a screen capture showing the contents of the file.txt file in the packet bytes pane.



27. Make a screen capture showing the filtered SSH packets in your capture file.



Section 3: Challenge and Analysis

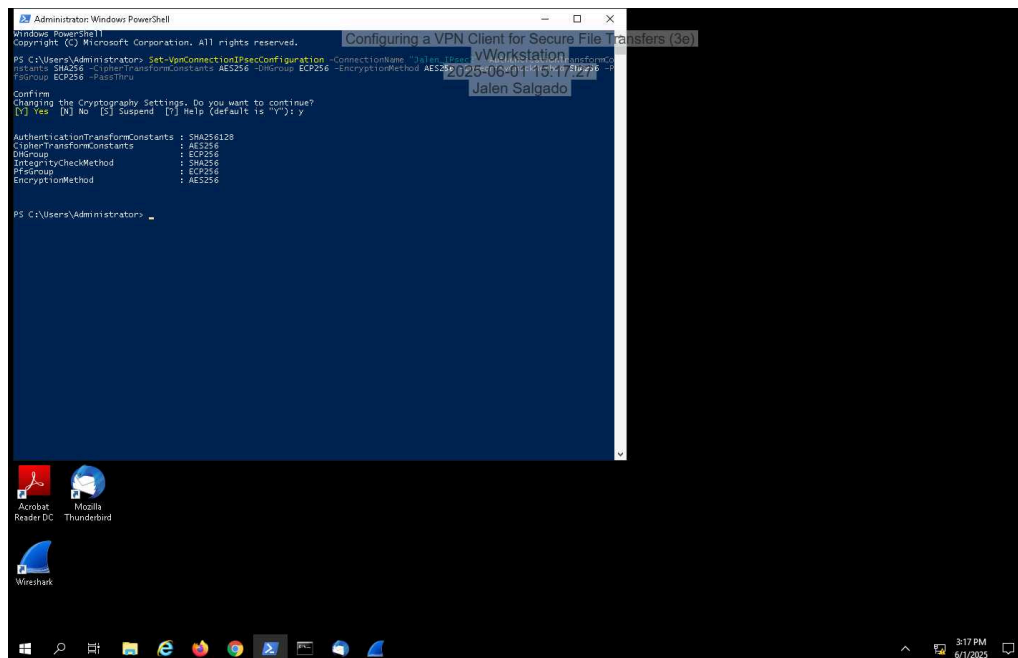
Part 1: Create a New VPN Connection using PowerShell

Document the command you used to add your VPN connection.

```
Add-VpnConnection -Name "Jalens_IPsec2" -ServerAddress "202.20.1.2" -TunnelType IKEv2  
-AuthenticationMethod Eap -EncryptionLevel Required -SplitTunneling $True
```

Part 2: Implement a Custom IPsec Policy

Make a screen capture showing the successfully executed `Set-VpnConnectionIPsecConfiguration` command in PowerShell.

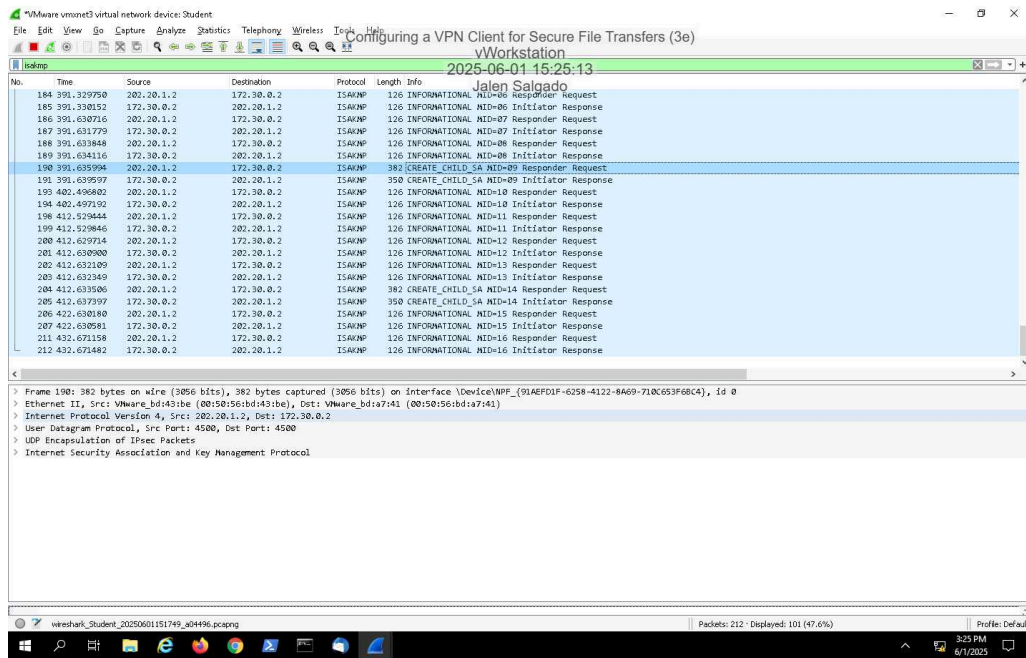


Part 3: Verify Your VPN Implementation using Wireshark

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Make a screen capture showing the **CREATE_CHILD_SA** exchange.



Make a screen capture showing the **selected Diffie-Hellman transform**.

