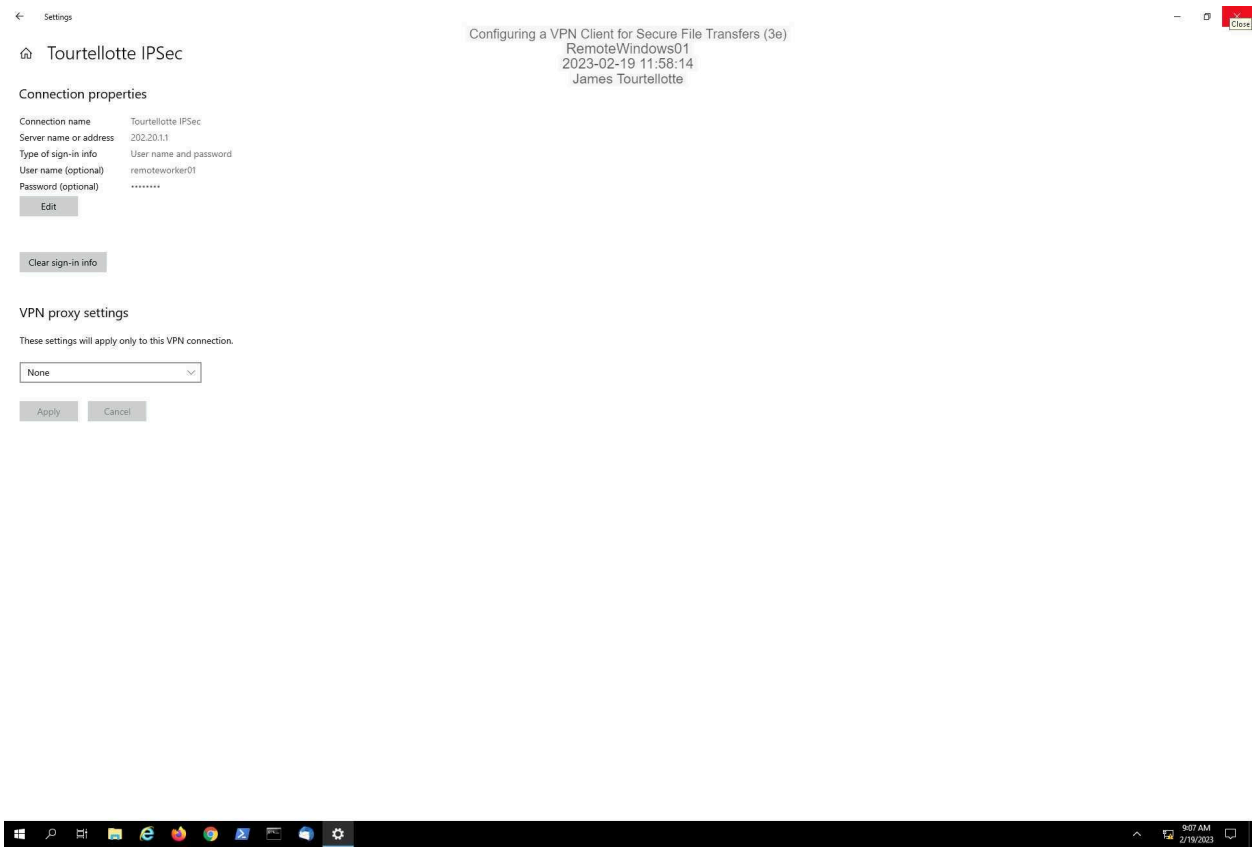
James Everett Tourtellotte IV
ITN 263
2/27/2023

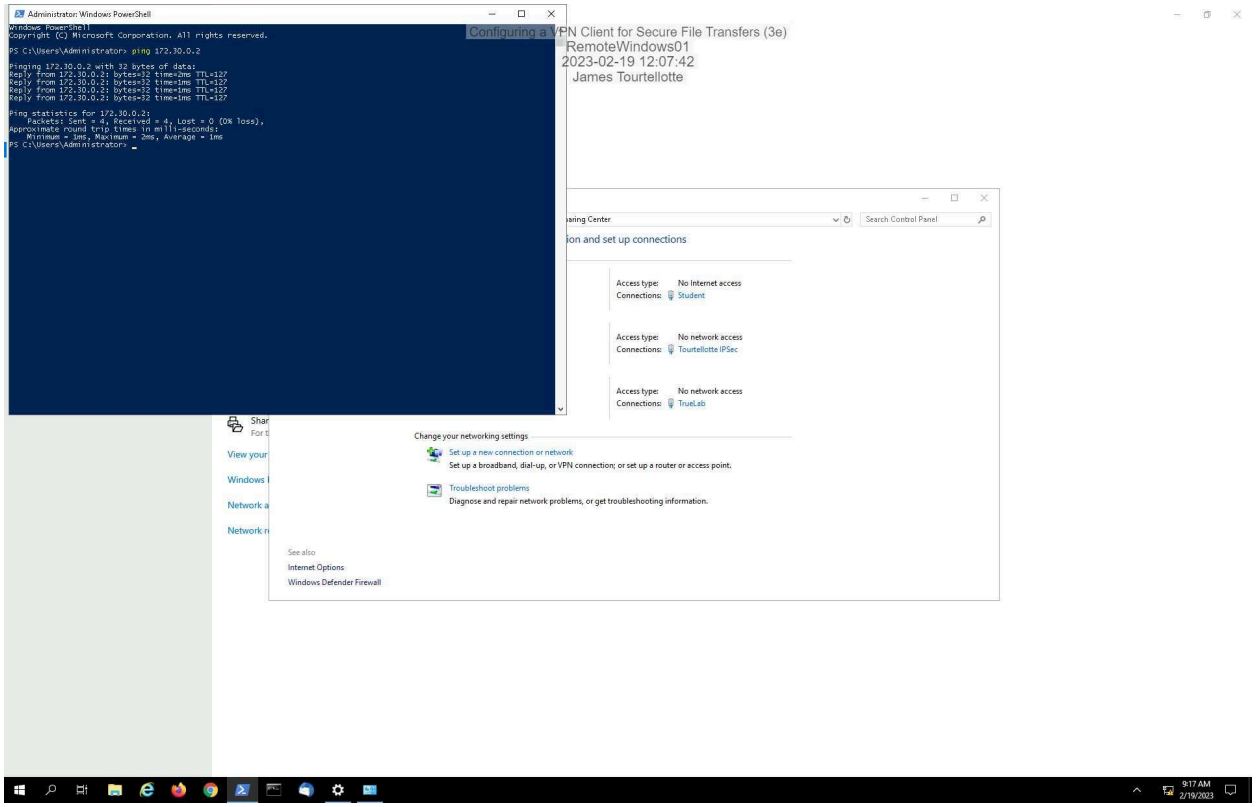
New Lab 09: Configuring a VPN Client for Secure File Transfer

Lab #9 Screen Captures

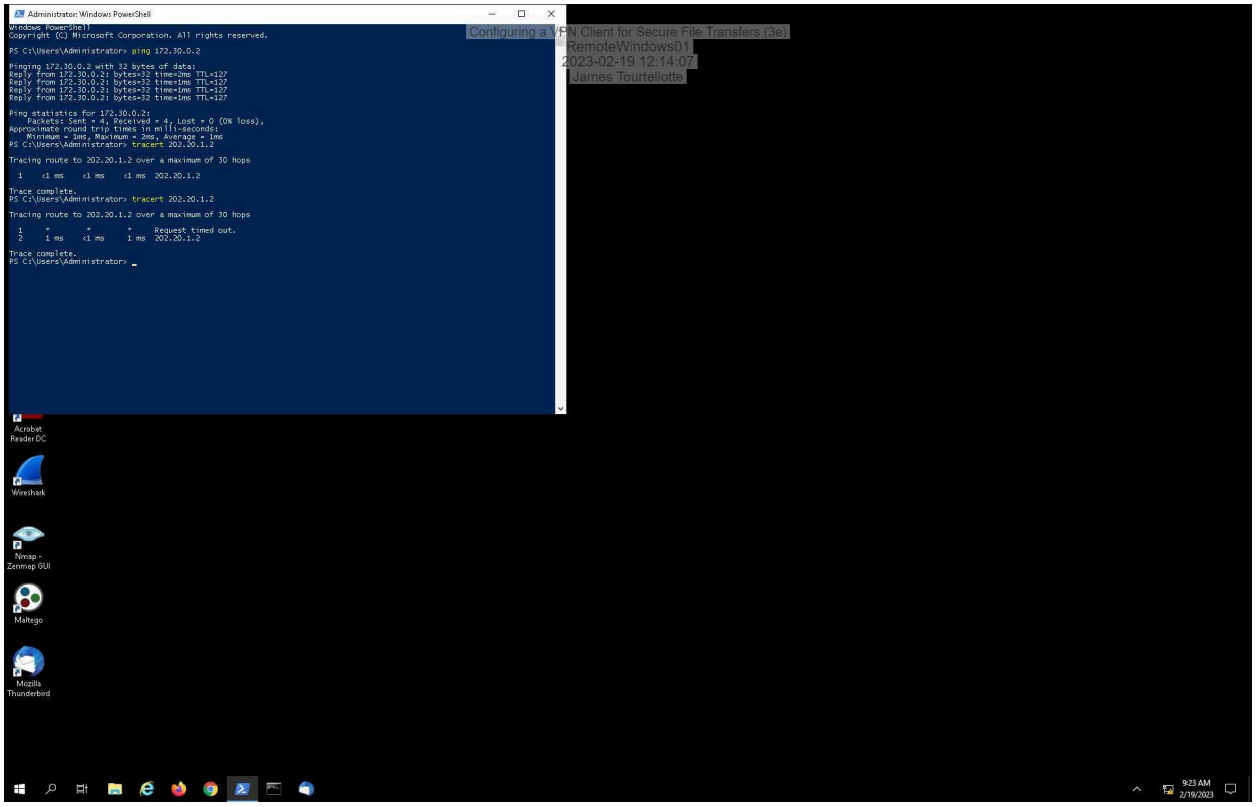
Screen Capture 1, Section 1:



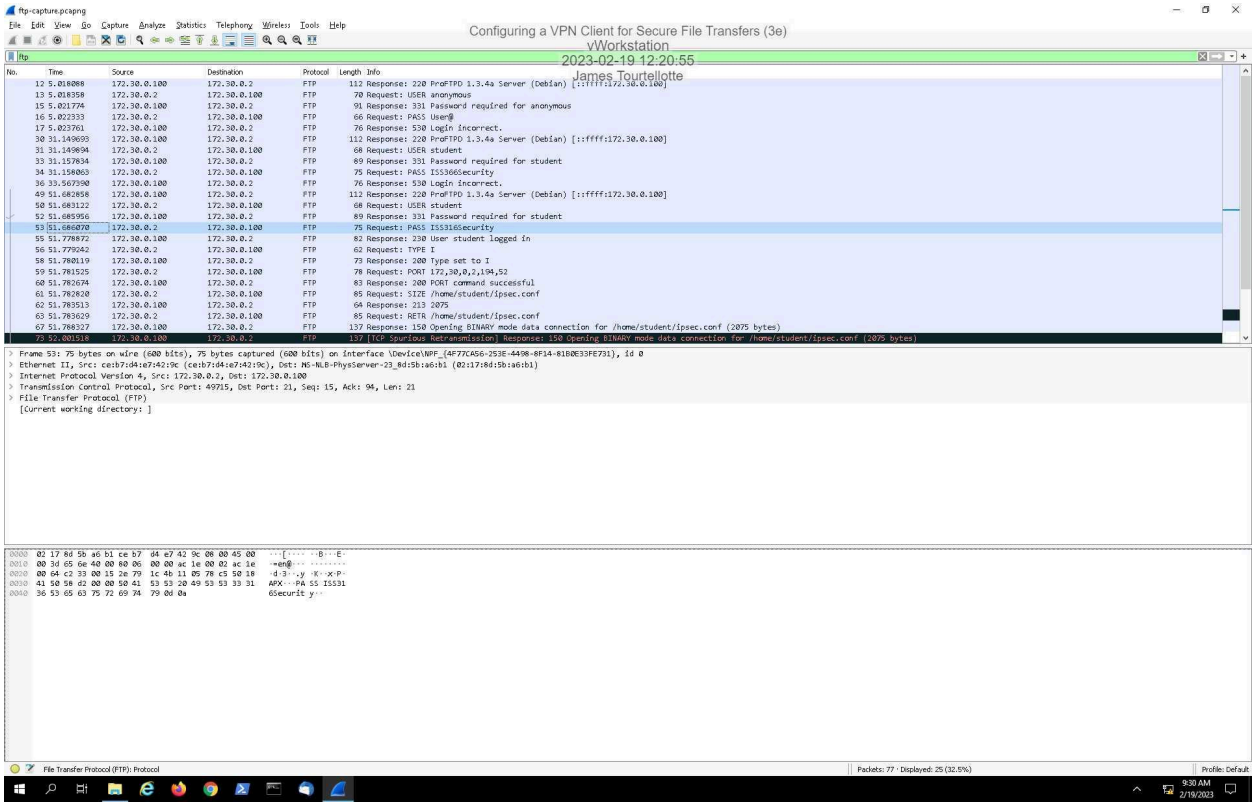
Screen Capture 2, Section 1:



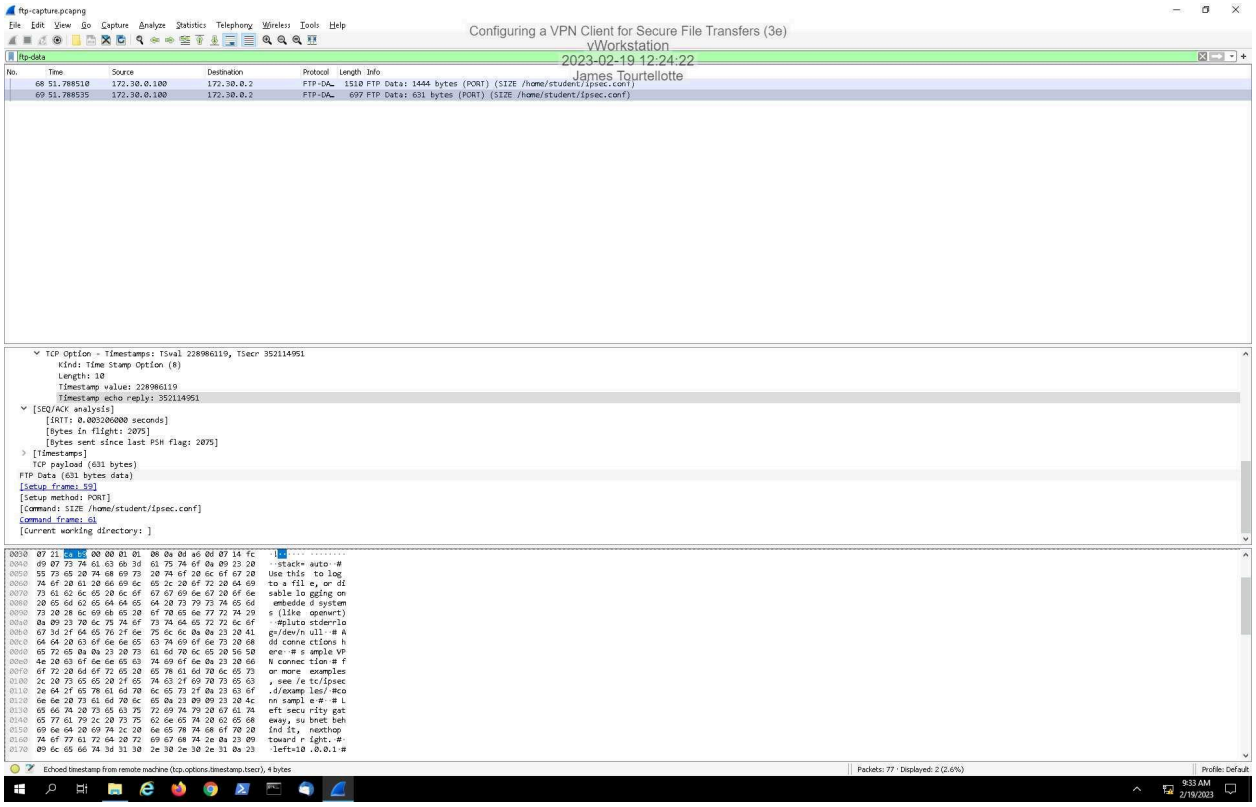
Screen Capture 3, Section 1:



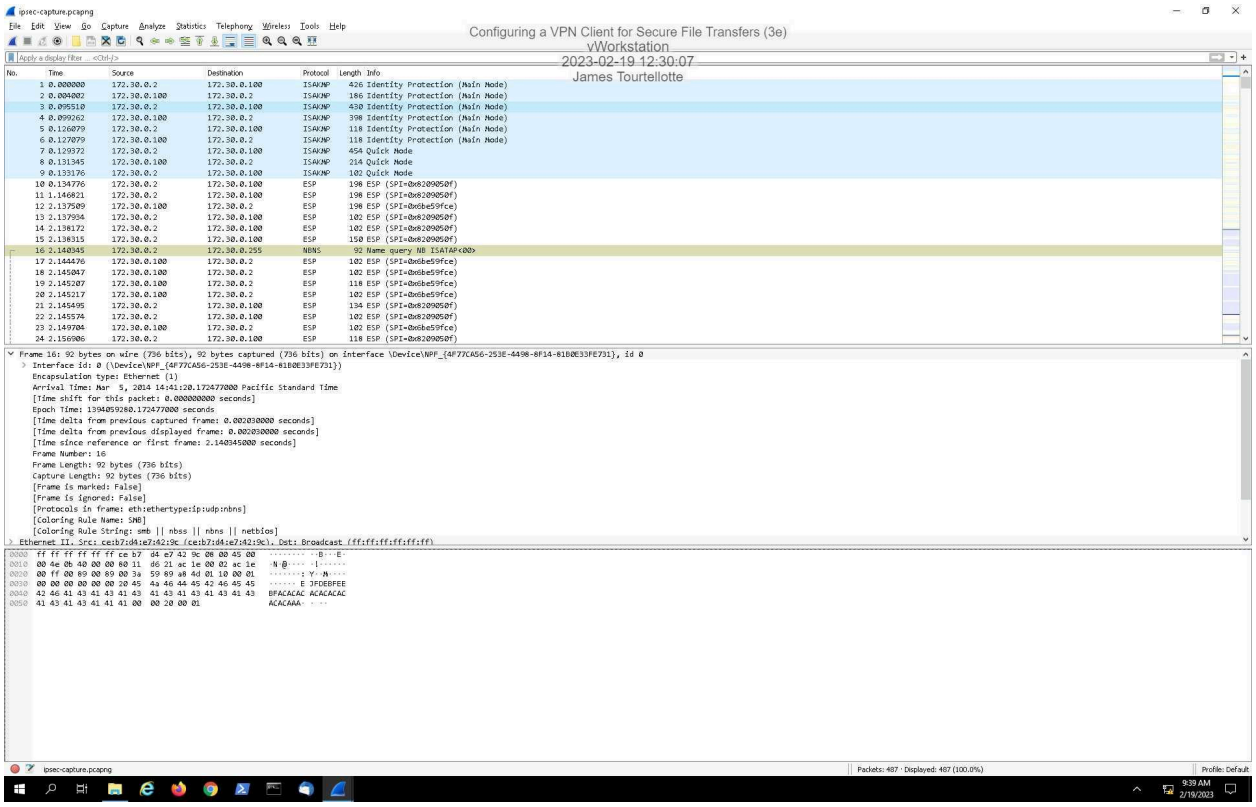
Screen Capture 4, Section 1:



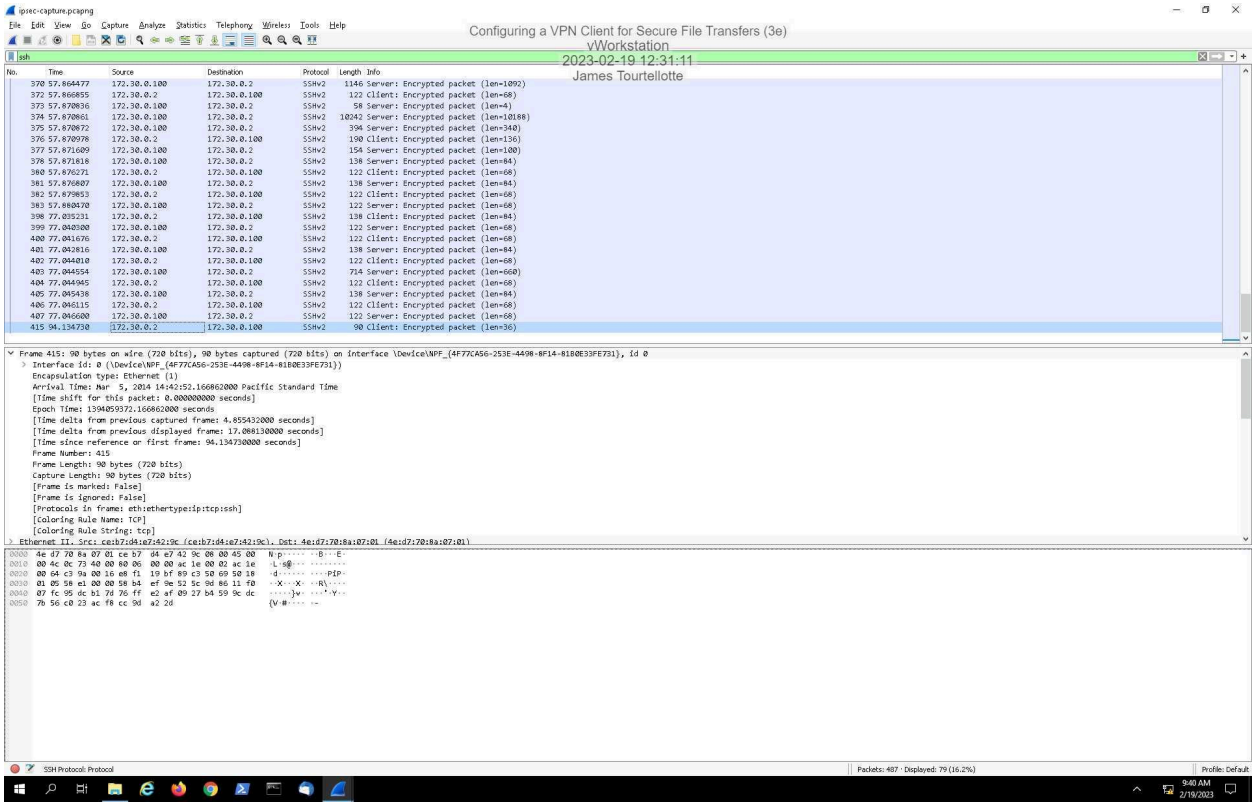
Screen Capture 5, Section 1:



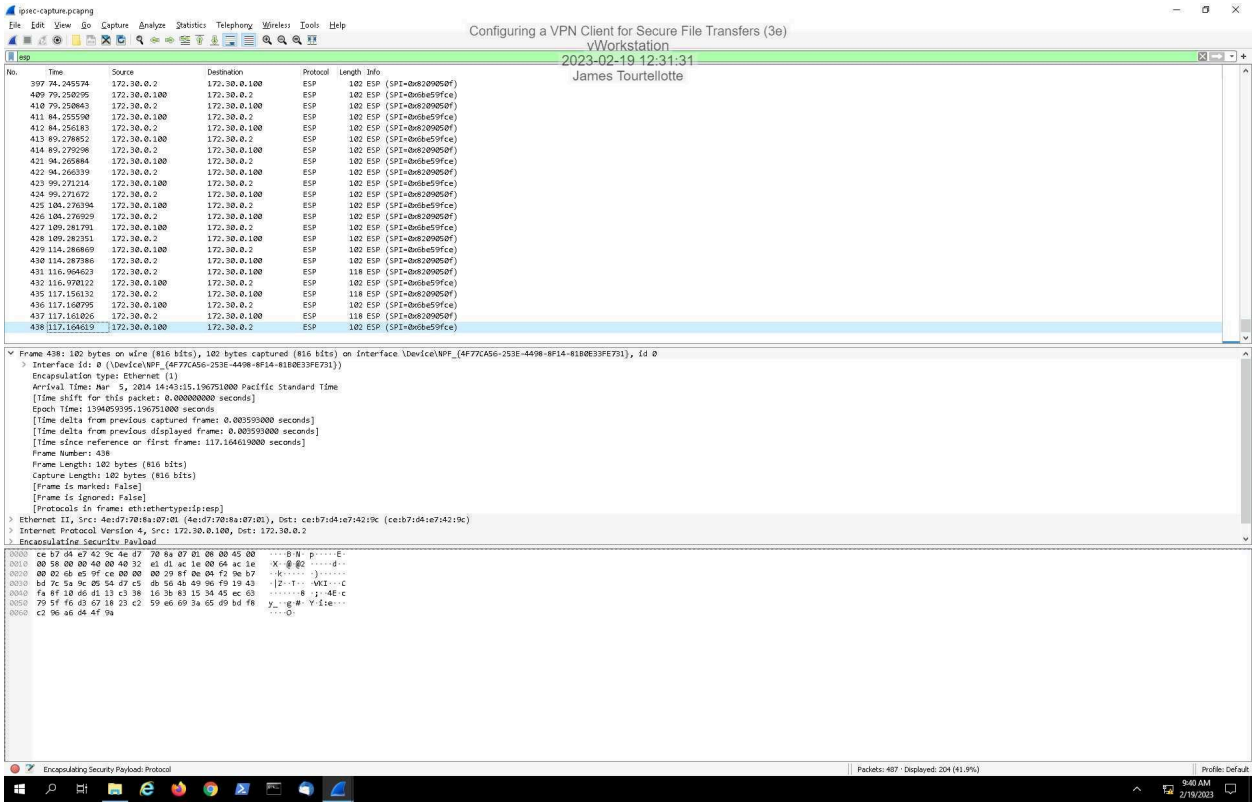
Screen Capture 6, Section 1:



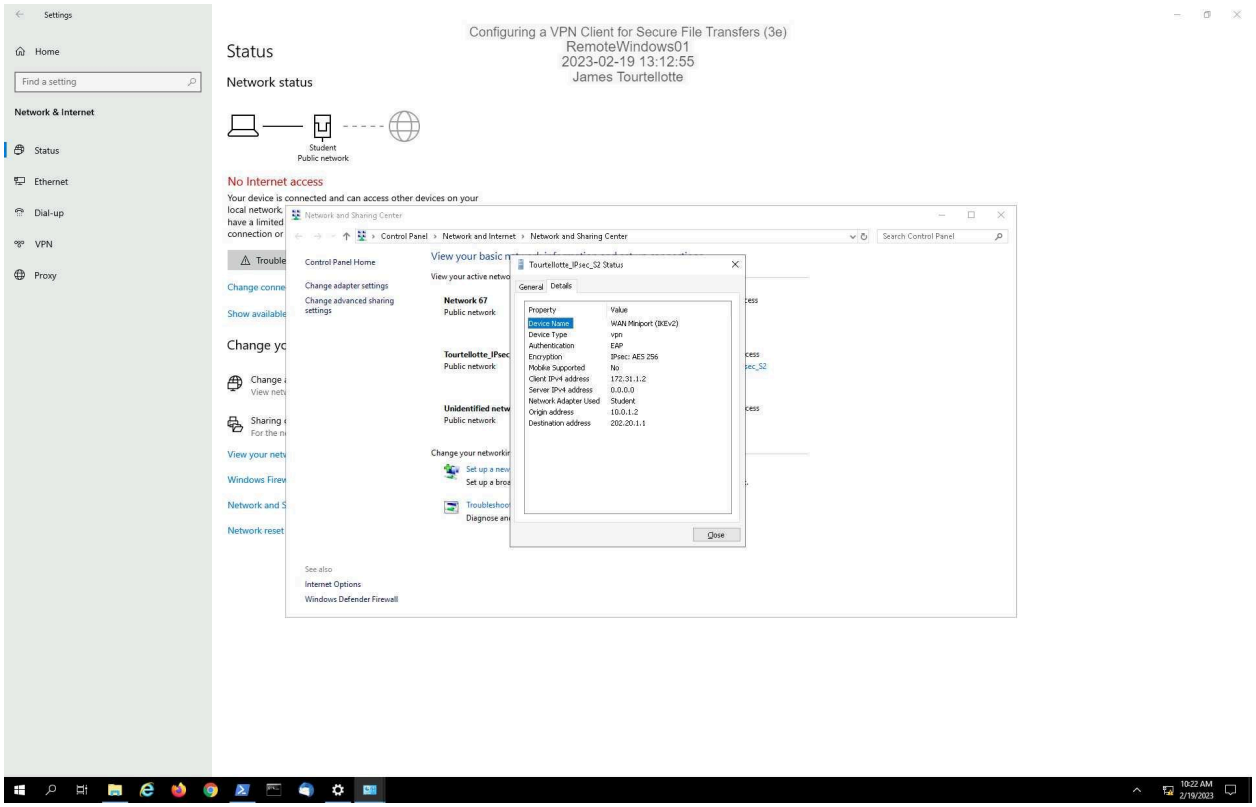
Screen Capture 7, Section 1:



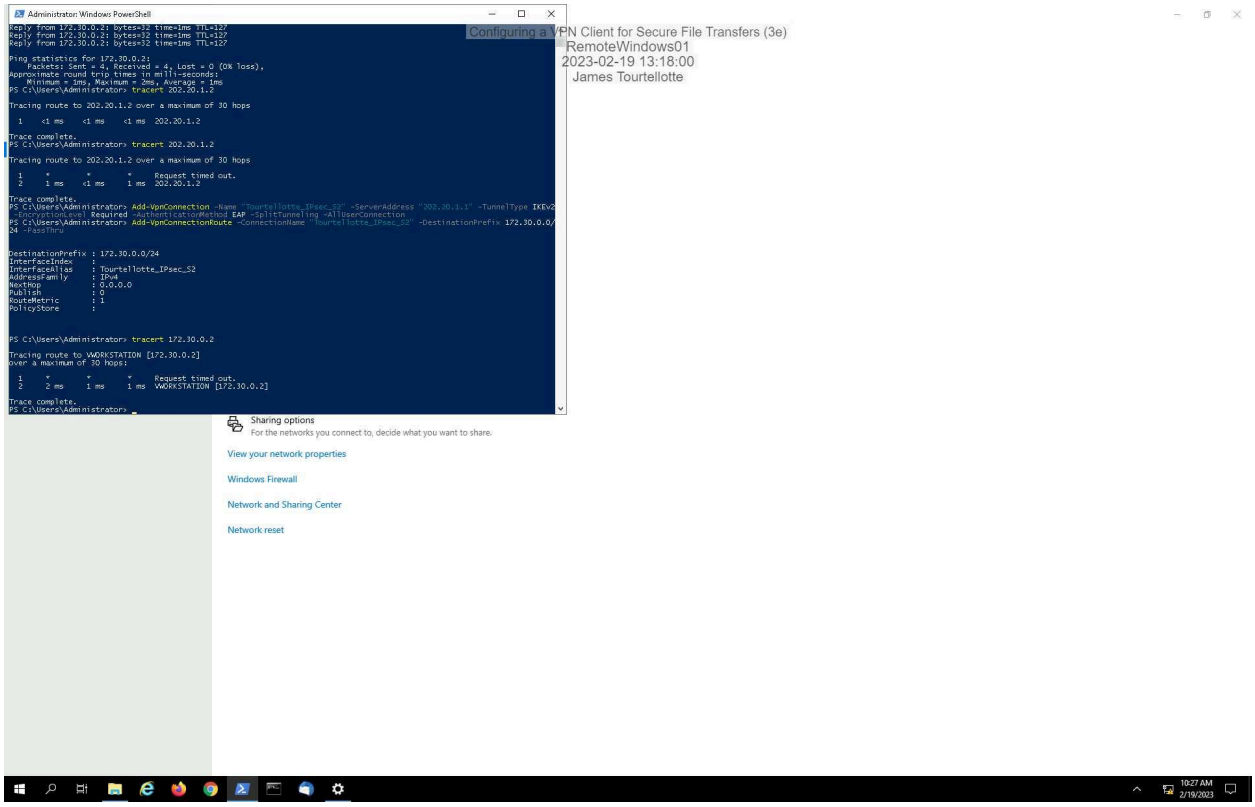
Screen Capture 8, Section 1:



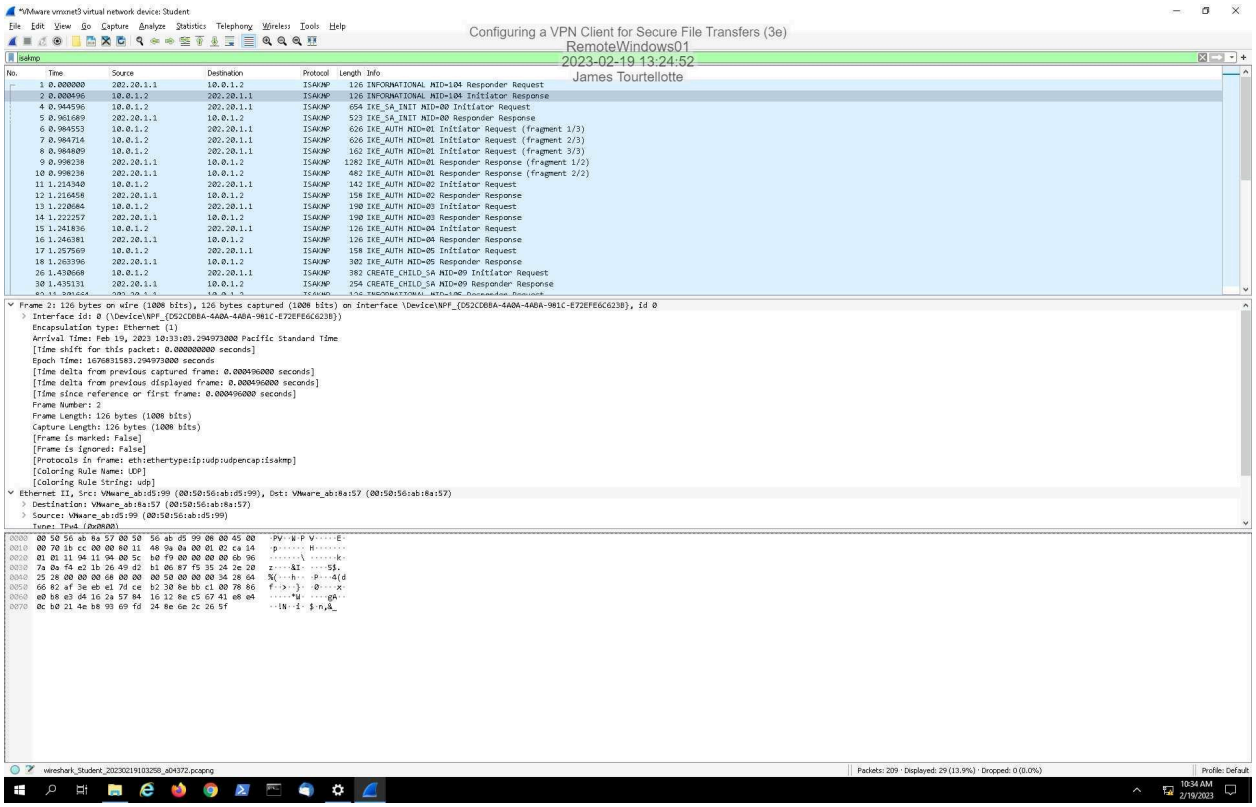
Screen Capture 1, Section 2:



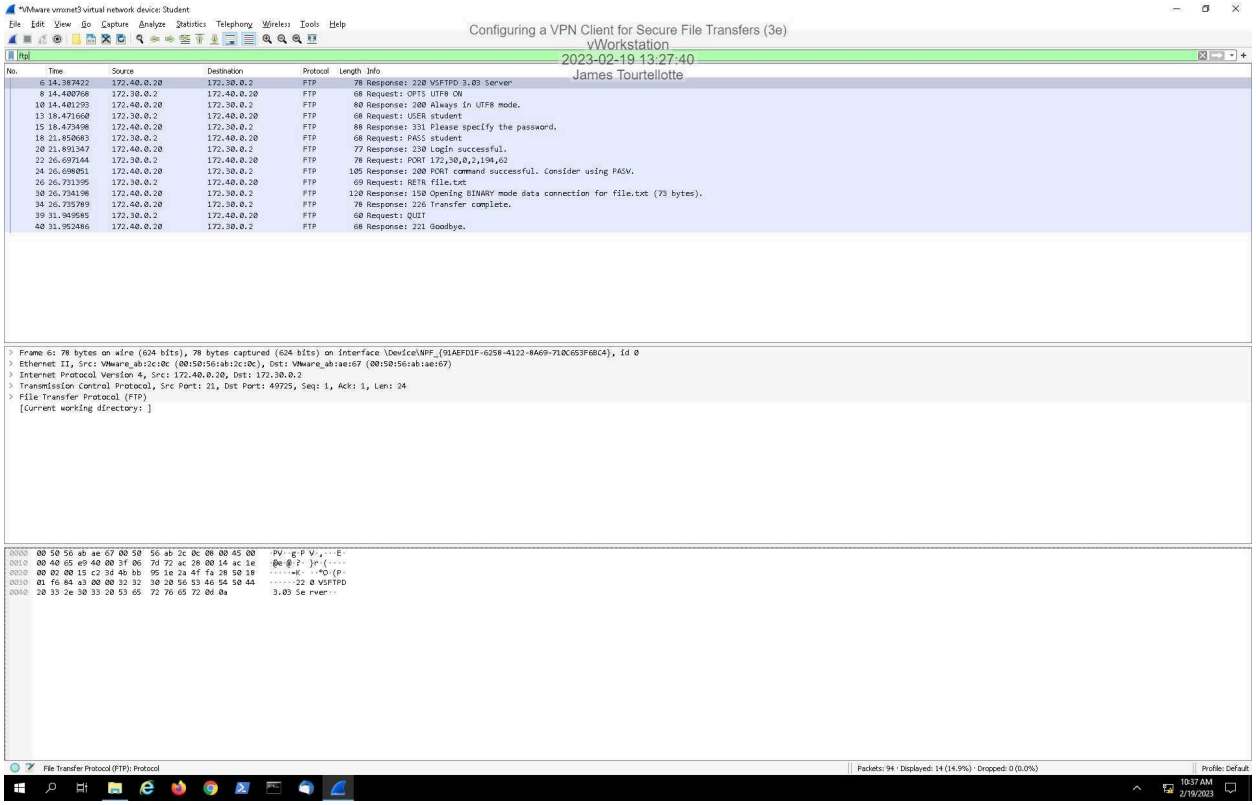
Screen Capture 2, Section 2:


Administrator: Windows PowerShell
Reply from 172.30.0.2: bytes=32 time=1ms TTL=127
Reply from 172.30.0.2: bytes=32 time=1ms TTL=127
Reply from 172.30.0.2: bytes=32 time=1ms TTL=127
Ping statistics for 172.30.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 2ms, Average = 1ms
PS C:\Users\Administrator> tracert 202.20.1.2
Tracing route to 202.20.1.2 over a maximum of 30 hops
1 <1 ms <1 ms <1 ms 202.20.1.2
Trace complete.
PS C:\Users\Administrator> tracert 202.20.1.2
Tracing route to 202.20.1.2 over a maximum of 30 hops
1 * * * Request timed out.
2 1 ms <1 ms 1 ms 202.20.1.2
Trace complete.
PS C:\Users\Administrator> Add-VpnConnection -Name "Tourtellotte_IPsec_S2" -ServerAddress "202.20.1.1" -TunnelType IKEv2
-EncryptionLevel Required -AuthenticationMethod EAP -SplitTunneling -AllUserConnection
PS C:\Users\Administrator> Add-VpnConnectionRoute -ConnectionName "Tourtellotte_IPsec_S2" -DestinationPrefix 172.30.0.0/
24 -PassThru
DestinationPrefix : 172.30.0.0/24
InterfaceIndex :
InterfaceAlias : Tourtellotte_IPsec_S2
AddressFamily : IPv4
NextHop : 0.0.0.0
Publish : 0
RouteMetric : 1
PolicyStore :
PS C:\Users\Administrator> tracert 172.30.0.2
Tracing route to VWORKSTATION [172.30.0.2]
over a maximum of 30 hops:
1 * * * Request timed out.
2 2 ms 1 ms 1 ms VWORKSTATION [172.30.0.2]
Trace complete.
PS C:\Users\Administrator>
Configuring a VPN Client for Secure File Transfers (3e)
RemoteWindows01
2023-02-19 13:18:00
James Tourtellotte
Sharing options
For the networks you connect to, decide what you want to share.
View your network properties
Windows Firewall
Network and Sharing Center
Network reset
10:27 AM
2/19/2023

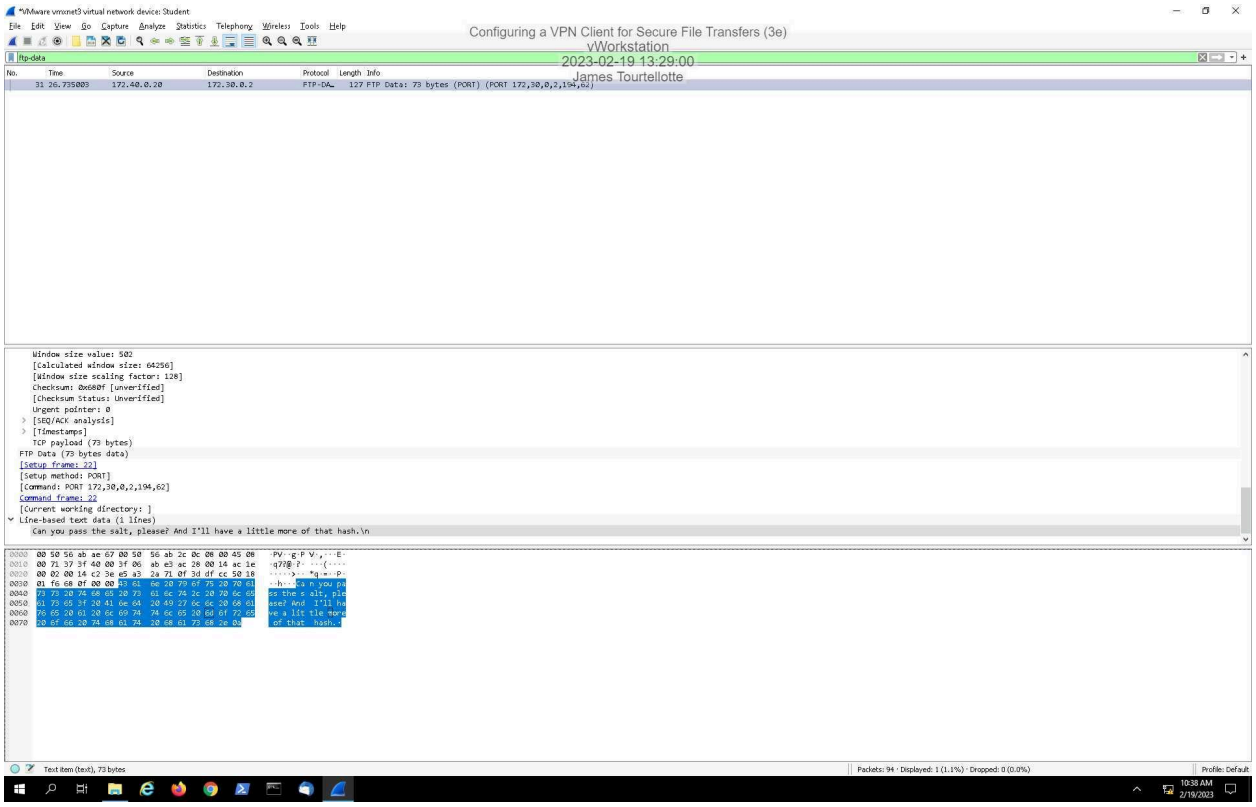
Screen Capture 3, Section 2:



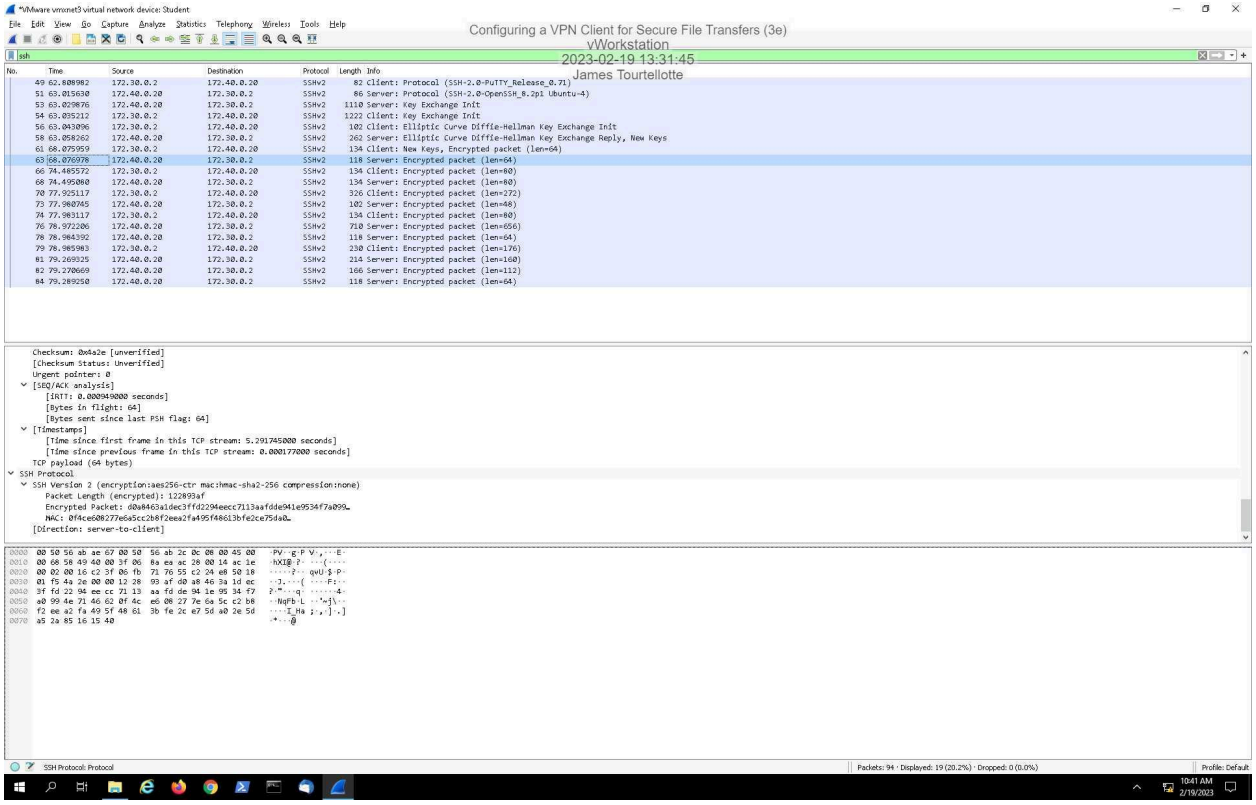
Screen Capture 4, Section 2:



Screen Capture 5, Section 2:



Screen Capture 6, section 2:


*VMware vmnet3 virtual network device: Student
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
ssh
No. Time Source Destination Protocol Length Info
49 62.808982 172.30.0.2 172.40.0.20 SSHv2 82 Client: Protocol (SSH-2.0-PuTTY_Release_0.71)
51 63.015630 172.40.0.20 172.30.0.2 SSHv2 86 Server: Protocol (SSH-2.0-OpenSSH_8.2p1 Ubuntu-4)
53 63.029876 172.40.0.20 172.30.0.2 SSHv2 1110 Server: Key Exchange Init
54 63.035212 172.30.0.2 172.40.0.20 SSHv2 1222 Client: Key Exchange Init
56 63.043096 172.30.0.2 172.40.0.20 SSHv2 102 Client: Elliptic Curve Diffie-Hellman Key Exchange Init
58 63.058262 172.40.0.20 172.30.0.2 SSHv2 262 Server: Elliptic Curve Diffie-Hellman Key Exchange Reply, New Keys
61 68.075959 172.30.0.2 172.40.0.20 SSHv2 134 Client: New Keys, Encrypted packet (len=64)
63 68.076978 172.40.0.20 172.30.0.2 SSHv2 118 Server: Encrypted packet (len=64)
66 74.485572 172.30.0.2 172.40.0.20 SSHv2 134 Client: Encrypted packet (len=80)
68 74.495080 172.40.0.20 172.30.0.2 SSHv2 134 Server: Encrypted packet (len=80)
70 77.925117 172.30.0.2 172.40.0.20 SSHv2 326 Client: Encrypted packet (len=272)
73 77.980745 172.40.0.20 172.30.0.2 SSHv2 102 Server: Encrypted packet (len=48)
74 77.983117 172.30.0.2 172.40.0.20 SSHv2 134 Client: Encrypted packet (len=80)
76 78.972206 172.40.0.20 172.30.0.2 SSHv2 710 Server: Encrypted packet (len=656)
78 78.984392 172.40.0.20 172.30.0.2 SSHv2 118 Server: Encrypted packet (len=64)
79 78.985983 172.30.0.2 172.40.0.20 SSHv2 230 Client: Encrypted packet (len=176)
81 79.269325 172.40.0.20 172.30.0.2 SSHv2 214 Server: Encrypted packet (len=160)
82 79.270669 172.40.0.20 172.30.0.2 SSHv2 166 Server: Encrypted packet (len=112)
84 79.289250 172.40.0.20 172.30.0.2 SSHv2 118 Server: Encrypted packet (len=64)
Checksum: 0x4a2e [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
[iRTT: 0.000949000 seconds]
[Bytes in flight: 64]
[Bytes sent since last PSH flag: 64]
[Timestamps]
[Time since first frame in this TCP stream: 5.291745000 seconds]
[Time since previous frame in this TCP stream: 0.000177000 seconds]
TCP payload (64 bytes)
SSH Protocol
SSH Version 2 (encryption:aes256-ctr mac:hmac-sha2-256 compression:none)
Packet Length (encrypted): 122893af
Encrypted Packet: d0a0463a1dec3ffd2294eecc7113aafdde941e9534f7a099…
MAC: 0f4ce608277e6a5cc2b8f2eea2fa495f48613bfe2ce754a0…
[Direction: server-to-client]
0000 00 50 56 ab ae 67 00 50 56 ab 2c 0c 08 00 45 00
0010 00 68 58 49 40 00 3f 06 0a ea ac 28 00 14 ac 1e
0020 00 02 00 16 c2 3f 06 fb 71 76 55 c2 24 e8 50 18
0030 01 f5 4a 2e 00 00 12 28 93 af d0 a8 46 3a 1d ec
0040 3f fd 22 94 ee cc 71 13 aa fd de 94 1e 95 34 f7
0050 a0 99 4e 71 46 62 0f 4c e0 08 27 7e 6a 5c e2 b8
0060 f2 ee a2 fa 49 5f 48 61 3b fe 2c e7 5d a0 2e 5d
0070 a5 2a 85 16 15 40
SSH Protocol: Protocol
Packets: 94 · Displayed: 19 (20.2%) · Dropped: 0 (0.0%)
Profile: Default
10:41 AM
2/19/2023