Lab 3: Packet Analysis (Part 2)

- This is an individual assignment, and is worth 20 points.
- The due date and time is 1:00 / 5:30, Sep 19.
- You should provide the answers using the accompanying outcome file. Change the file name following the naming convention: homework, underscore, last name, first initial, and extension (e.g., Lab 1_ImG.docx).
- Do not copy any of the sample screenshots provided as illustrations.
- You should not scan any live servers using Nmap and hping3. For violation, you may be expelled from the school (not a joke!).

Task 1. Identify the IP addresses

- Task
 - 1) Idenity the IP address of your **host** and the subnet mask (use ipconfig /all). If you use wireless, the IP address of "Wireless LAN adapter Wi-Fi" is the active physical interface. Provide a screenshot for this.

2) Identify the IP address of your **Kali** (use if config). Provide a screenshot for this.

```
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.126.128 netmask 255.255.255.0 broadcast 192.168.126.255
       inet6 fe80::20c:29ff:feb8:d8bd prefixlen 64 scopeid 0x20<link>
       ether 00:0c:29:b8:d8:bd txqueuelen 1000 (Ethernet)
       RX packets 20 bytes 2227 (2.1 KiB)
RX errors 0 dropped 0 overruns 0
                                            frame 0
       TX packets 31 bytes 2875 (2.8 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 ::1 prefixlen 128 scopeid 0x10<host>
       loop txqueuelen 1000 (Local Loopback)
       RX packets 20 bytes 1116 (1.0 KiB)
       RX errors 0 dropped 0 overruns 0
                                           frame 0
       TX packets 20 bytes 1116 (1.0 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
 oot@kali:~#
```

Task 2. Analyzing FTP Signatures

- Task
 - 1) Identify the TCP packets used for the initial three-way handshaking. <u>Take a screenshot of that TCP packets</u>.
 - **Hint**: These packets are placed right before ftp packets.

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110 8.924976	192.168.1.100	185.176.43.90	TCP	66 61141 → 49270 [SYN] Seq=2981658364 Win=65535 Len=0 MSS=1460 WS=128 SACK_PERM=1
111 9.124498	185.176.43.90	192.168.1.100	TCP	62 49270 → 61141 [SYN, ACK] Seq=720861028 Ack=2981658365 Win=29200 Len=0 MSS=1460 WS=128
113 9.124640	192.168.1.100	185.176.43.90	TCP	54 61141 → 49270 [ACK] Seq=2981658365 Ack=720861029 Win=4194304 Len=0

- 2) Identify the TCP stream used for authentication to the FTP server. The packets are encrypted and so we should guess. <u>Take a screenshot of the TCP stream</u>.
 - **Hint**: Use the IP address of the ftp server to recognize the relevant TCP stream. Use the display filter "tcp.stream eq xx" as necessary.

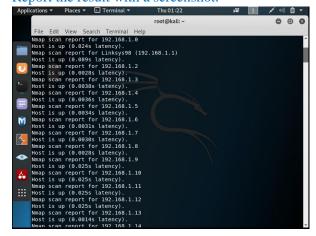
66 4.306987	192.168.1.100	185.176.43.90	TCP	66 61140 → 21 [SYN] Seq=1171224460 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
67 4.499236	185.176.43.90	192.168.1.100	TCP	62 21 → 61140 [SYN, ACK] Seq=2321213918 Ack=1171224461 Win=29200 Len=0 MSS=1460 WS=128
68 4.499361	192.168.1.100	185.176.43.90	TCP	54 61140 → 21 [ACK] Seq=1171224461 Ack=2321213919 Win=131328 Len=0
69 4.705984	185.176.43.90	192.168.1.100	FTP	97 Response: 220 ::ffff:185.176.43.90 FTP server ready
70 4.706376	192.168.1.100	185.176.43.90	FTP	64 Request: AUTH TLS
71 4.914438	185.176.43.90	192.168.1.100	TCP	54 21 → 61140 [ACK] Seq=2321213962 Ack=1171224471 Win=29312 Len=0
72 4.914439	185.176.43.90	192.168.1.100	FTP	79 Response: 234 AUTH TLS successful
73 4.928043	192.168.1.100	185.176.43.90	FTP	457 Request: \026\003\001\0101\216\001\000\001\212\003\003\321\276\276\227a\267\312\326\273\255E\366AL)]\316
75 5.211534	185.176.43.90	192.168.1.100	FTP	1440 Response: \026\003\0003\0002\000\000U\003\003\313'fP\223\351x\364\027,\035\366\337u\235\333\357\275\
76 5.242099	192.168.1.100	185.176.43.90	FTP	129 Request: \026\003\003\000F\020\000\000BA\004\353\036F\0231\376\002\016\245\005\215\027\330Xd\356\2
77 5.242212	192.168.1.100	185.176.43.90	FTP	60 Request: \024\003\003\000\001\001
78 5.242312	192.168.1.100	185.176.43.90	FTP	99 Request: \026\003\0003\000(\000\000\000\000\000\000\0
79 5.449482	185.176.43.90	192.168.1.100	TCP	54 21 → 61140 [ACK] Seq=2321215373 Ack=1171225000 Win=30336 Len=0
80 5.449483	185.176.43.90	192.168.1.100	FTP	105 Response: \024\003\003\000\001\001\026\003\000(\216\261\001x\022\377\213[w\242\b@OK\a+\317\323\227\
82 5.491181	192.168.1.100	185.176.43.90	TCP	54 61140 + 21 [ACK] Seq=1171225000 Ack=2321215424 Win=131328 Len=0
90 7.209172	192.168.1.100	185.176.43.90	FTP	97 Request: \027\003\003\000\000\000\000\000\000\000\00
92 7.375857	185.176.43.90	192.168.1.100	FTP	118 Response: \027\003\000;\216\261\001x\022\377\213\\020%\032*\226b8\350h\206`\213T\2536\341J\000Be\2
93 7.376189	192.168.1.100	185.176.43.90	FTP	102 Request: \027\003\003\000+\000\000\000\000\000\000\00
94 7.573240	185.176.43.90	192.168.1.100	FTP	380 Response: \027\003\003\001A\216\261\001x\022\377\213]\251\325\274\32234\231w\301\353U\341\326Brg\312\06
95 7.573808	192.168.1.100	185.176.43.90	FTP	97 Request: \027\003\003\000\000\000\000\000\000\000\00

3) Identify the TCP stream used for the uploading. Take a screenshot of that TCP stream.

111 9.124498 185.176.43.90 192.168.1.100 185.176.43.90 TCP 54 61141 [SVW, ACK] Seq=720861028 Ack=2981658365 Win=29200 Len=0 MSS=1460 WS=128 114 9.125422 192.168.1.100 185.176.43.90 TCP 54 61141 [ACK] Seq=720861029 Ack=2981658365 Win=39336 Len=0 121 10.133717 185.176.43.90 192.168.1.100 TCP 54 99270 + 61141 [ACK] Seq=720861029 Ack=2981658800 Win=39336 Len=0 122 10.134098 192.168.1.100 185.176.43.90 TLSv1.2 60 Change Cipher Spec 123 10.134155 192.168.1.100 185.176.43.90 TLSv1.2 60 Change Cipher Spec 124 10.134449 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981658851 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 125 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669311 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166931 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981660311 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 127 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166031 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981660321 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981660321 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=29816605174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=29816605174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167931 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a r	- 1	110 8.924976	192.168.1.100	185.176.43.90	TCP	CC C1141 . 40270 [CVN] Com-2001CE02C4 Min-CEC2E Lon-0 MCC-14C0 MC-120 CACV DEDM-1
113 9.124640 192.168.1.100 185.176.43.90 TCP 54 61141 + 49270 [ACK] Seq=2981658365 Ack=720861029 Win=4194304 Len=0 114 9.125422 192.168.1.100 185.176.43.90 TLSV1.2 489 Client Hello 121 10.133717 185.176.43.90 192.168.1.100 TCP 54 49270 6 foli41 [ACK] Seq=720861029 Ack=2981658300 Win=30336 Len=0 121 10.133717 185.176.43.90 192.168.1.100 TCP 54 49270 6 foli41 [ACK] Seq=720861029 Ack=2981658800 Win=30336 Len=0 122 10.134098 192.168.1.100 185.176.43.90 TLSV1.2 199 Server Hello, Change Cipher Spec 123 10.134155 192.168.1.100 185.176.43.90 TLSV1.2 69 Encrypted Handshake Message 124 10.134459 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298165831 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 125 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166177 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166177 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166177 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666171 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666917 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666917 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [A						66 61141 → 49270 [SYN] Seq=2981658364 Win=65535 Len=0 MSS=1460 WS=128 SACK_PERM=1
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115 9.319128 185.176.43.90 192.168.1.100 TCP 54 49270 + 61141 [ACK] Seq=720861029 Ack=2981658800 Win=30336 Len=0 121 10.133717 185.176.43.90 192.168.1.100 TLSV1.2 199 Server Hello, Change Cipher Spec, Encrypted Handshake Message 123 10.13405 192.168.1.100 185.176.43.90 TLSV1.2 99 Encrypted Handshake Message 124 10.134449 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981668311 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 125 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981668311 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166171 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 127 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981663174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981663174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666174 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167919 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 6		113 9.124640	192.168.1.100	185.176.43.90	TCP	54 61141 → 49270 [ACK] Seq=2981658365 Ack=720861029 Win=4194304 Len=0
121 10.133777 185.176.43.90 192.168.1.100 185.176.43.90 TLSV1.2 199 Server Hello, Change Cipher Spec, Encrypted Handshake Message 123 10.134659 192.168.1.100 185.176.43.90 TLSV1.2 69 Encrypted Handshake Message 124 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981658851 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 125 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981661771 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981661771 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=29816669151 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=29816669151 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=29816669151 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=29816669151 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669174 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669174 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167919 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 49270 [ACK] Seq=298167931 Ack=728861174 Win=4194048 Len=1460 [TCP segment		114 9.125422	192.168.1.100	185.176.43.90	TLSv1.2	489 Client Hello
122 10.134698 192.168.1.100 185.176.43.90 TLSv1.2 60 Change Cipher Spec 124 10.134459 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981658851 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 125 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981658931 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166171 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 127 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166171 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981660151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981660151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981670531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981670531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981670531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134556 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981670531 Ack=7		115 9.319128	185.176.43.90	192.168.1.100	TCP	54 49270 → 61141 [ACK] Seq=720861029 Ack=2981658800 Win=30336 Len=0
123 10.134155 192.168.1.100 185.176.43.90 TLSV1.2 99 Encrypted Handshake Message 124 10.134449 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981658851 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669311 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 127 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981664911 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166491 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669611 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669611 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 136 10.335250 185.176.43.90 TCP 1514 61141 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TC		121 10.133717	185.176.43.90	192.168.1.100	TLSv1.2	199 Server Hello, Change Cipher Spec, Encrypted Handshake Message
124 10.134449 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981658815 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166931 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 127 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166921 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166921 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166915 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166915 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166916 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166951 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166951 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167951 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167951 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167951 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A9270 [ACK] Seq=298167951 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A9270 [ACK] Seq=2		122 10.134098	192.168.1.100	185.176.43.90	TLSv1.2	60 Change Cipher Spec
125 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981660311 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 127 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981661771 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166491 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981664691 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166611 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 49270 [ACK] Seq=2981679531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 49270 [ACK] Seq=2981679531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 49270 [ACK] Seq=2981679		123 10.134155	192.168.1.100	185.176.43.90	TLSv1.2	99 Encrypted Handshake Message
126 10.134450 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166177 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 128 10.134451 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981663174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166691 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669611 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.13456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 AP270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 AP270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 AP270 [ACK] Seq=298167991 Ack=728861174 Win=		124 10.134449	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981658851 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
127 18.134453 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981664231 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 129 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981664511 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666151 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666761 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298166971 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167951 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 54 49270 56 1414 [ACK] Seq=298167951 Ack=228861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 54 49270 56 1414 [ACK] Seq=22886174 Ack=228861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 54 49270 56 1414 [ACK] Seq=22886174 Ack=228861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 54 49270 56 1414 [ACK] Seq=22886174 Ack=2288618174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 54 49270 56 1414 [ACK] Seq=22886174 Ack=2288618174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A9270 [ACK] Seq=22886174 Ack=228868174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A9270 [ACK] Seq=22886174 Ack=228868174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 1		125 10.134450	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981660311 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
128 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981664691 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 139 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666161 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.13457 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167991 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 192.168.1.100 TCP 54 49270 + 61141 [ACK] Seq=720861174 Ack=298165806 Win=30336 Len=0		126 10.134450	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981661771 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
139 10.134454 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981666511 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 A 9270 [ACK] Seq=298167991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 TCP 151		127 10.134453	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981663231 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
130 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981667611 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981670531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981671991 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 192.168.1.100 TCP 54 49270 + 61141 [ACK] Seq=720861174 Ack=2981658806 Win=30336 Len=0		128 10.134454	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981664691 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
131 10.134455 192.168.1.100 185.176.43.90 TCP 1514 61141 → 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 → 49270 [ACK] Seq=298167951 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 133 10.13456 192.168.1.100 185.176.43.90 TCP 1514 61141 → 49270 [ACK] Seq=298167991 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 192.168.1.100 TCP 54 49270 → 61141 [ACK] Seq=720861174 Ack=298165806 Win=30336 Len=0		129 10.134454	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981666151 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
132 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981679531 ACk=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 TCP 1514 61141 + 49270 [ACK] Seq=2981671991 Ack=728861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 192.168.1.100 TCP 54 49270 + 61141 [ACK] Seq=728861174 Ack=298165880 Win=39336 Len=0		130 10.134455	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981667611 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
133 10.134456 192.168.1.100 185.176.43.90 TCP 1514 61141 → 49270 [ACK] Seq=2981671991 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU] 135 10.335250 185.176.43.90 192.168.1.100 TCP 54 49270 → 61141 [ACK] Seq=720861174 Ack=2981658806 Win=30336 Len=0		131 10.134455	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981669071 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
135 10.335250 185.176.43.90 192.168.1.100 TCP 54 49270 → 61141 [ACK] Seq=720861174 Ack=2981658806 Win=30336 Len=0		132 10.134456	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981670531 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
		133 10.134456	192.168.1.100	185.176.43.90	TCP	1514 61141 → 49270 [ACK] Seq=2981671991 Ack=720861174 Win=4194048 Len=1460 [TCP segment of a reassembled PDU]
136 10.335251 185.176.43.90 192.168.1.100 TCP 54.49270 → 61141 [ACK] Seg=720861174 Ack=2981658851 Win=30336 Len=0		135 10.335250	185.176.43.90	192.168.1.100	TCP	54 49270 → 61141 [ACK] Seq=720861174 Ack=2981658806 Win=30336 Len=0
		136 10.335251	185.176.43.90	192.168.1.100	TCP	54 49270 → 61141 [ACK] Seq=720861174 Ack=2981658851 Win=30336 Len=0

Task 3. Ping Sweeping

Report the result with a screenshot.



Task 4. Port Scanning

• Report the result with a screenshot.

```
SYN Stealth Scan Timing: About 54.61% done; ETC: 01:29 (0:02:01 remaining)
Stats: 0:04:50 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 68.42% done; ETC: 01:31 (0:02:14 remaining)
Stats: 0:06:09 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 77.95% done; ETC: 01:32 (0:01:44 remaining)
Stats: 0:07:29 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 86.45% done; ETC: 01:33 (0:01:10 remaining)
Stats: 0:08:17 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 91.64% done; ETC: 01:33 (0:00:45 remaining)
Stats: 0:09:04 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 96.25% done; ETC: 01:34 (0:00:21 remaining)
Stats: 0:10:05 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 99.99% done; ETC: 01:34 (0:00:00 remaining)
Stats: 0:11:26 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 99.99% done; ETC: 01:36 (0:00:00 remaining)
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (2.6s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 995 closed ports
PORT
         STATE of CSERVICES CODUMD
          open at Alissh
22/tcp
80/tcp
          open
                    http
514/tcp
          filtered shell
                  Winping-echions and Answers · Mailing Lists
9929/tcp open
31337/tcp.open ing WiElite 3.0.3 (Git v3.0.3 packaged as 3.0.3-1).
Nmap done: 1 IP address (1 host up) scanned in 705.87 seconds
```

Task 5. SYN Flooding Attack

- Task
 - 1) Report your Wireshark result in a screenshot.

```
1055... 15.639733769
                     192.168.101.101
                                            192.168.1.101
                                                                  TCP
                                                                  TCP
1055... 15.639904520
                     192.168.101.101
                                            192.168.1.101
1055... 15.639934985
                     192.168.101.101
                                            192.168.1.101
                                                                  TCP
1055... 15.640019803
                     192.168.101.101
                                            192.168.1.101
                                                                  TCP
                                                                  TCP
1055... 15.640043807 192.168.101.101
                                            192.168.1.101
```