

ip-wireshark-trace1-1.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
178	10.370823	52.114.132.176	192.168.86.61	TCP	60	443 → 56197 [ACK] Seq=335 Ack=189 Win=2053 Len=0
179	12.788154	192.168.86.61	128.119.245.12	IPv4	1514	Fragmented IP protocol (proto=UDP 17, off=0, ID=fda2) [Reassembled in #181]
180	12.788155	192.168.86.61	128.119.245.12	IPv4	1514	Fragmented IP protocol (proto=UDP 17, off=1480, ID=fda2) [Reassembled in #181]
181	12.788155	192.168.86.61	128.119.245.12	UDP	54	64929 → 33435 Len=2972

Frame 179: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits) on interface en0, id 0
 Ethernet II, Src: Apple_98:d9:27 (78:4f:43:98:d9:27), Dst: Google_89:0e:c8 (3c:28:6d:89:0e:c8)
 Internet Protocol Version 4, Src: 192.168.86.61, Dst: 128.119.245.12
 ... 0101 = Header Length: 20 bytes (5)
 ... Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
 ... 0000 00.. = Differentiated Services Codepoint: Default (0)
00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
 Total Length: 1500
 Identification: 0xfda2 (64930)
 ... 001. = Flags: 0x1, More fragments
 ... 0. = Reserved bit: Not set
 ... 0. = Don't fragment: Not set
 ... 1. = More fragments: Set
 ... 0 0000 0000 0000 = Fragment Offset: 0
 Time to Live: 1
 [Expert Info (Note/Sequence): "Time To Live" only 1]
 Protocol: UDP (17)
 Header Checksum: 0x0a05 [validation disabled]
 [Header checksum status: Unverified]
 Source Address: 192.168.86.61
 Destination Address: 128.119.245.12
 [Reassembled IPv4 in frame: 181]
 Data (1480 bytes)

1.1 Yes, the 3000-byte UDP segment was split into three IPv4 fragments, packets 179, 180, and 181.

1.2 Two lines above the blue Time to Live, More fragments: Set (1)

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No.	Time	Source	Destination	Protocol	Length	Info
178	10.370823	52.114.132.176	192.168.86.61	TCP	60	443 → 56197 [ACK] Seq=335 Ack=189 Win=2053 Len=0
179	12.788154	192.168.86.61	128.119.245.12	IPv4	1514	Fragmented IP protocol (proto=UDP 17, off=0, ID=fda2) [Reassembled in #181]
180	12.788155	192.168.86.61	128.119.245.12	IPv4	1514	Fragmented IP protocol (proto=UDP 17, off=1480, ID=fda2) [Reassembled in #181]
181	12.788155	192.168.86.61	128.119.245.12	UDP	54	64929 → 33435 Len=2972

Frame 180: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits) on interface en0, id 0
 Ethernet II, Src: Apple_98:d9:27 (78:4f:43:98:d9:27), Dst: Google_89:0e:c8 (3c:28:6d:89:0e:c8)
 Internet Protocol Version 4, Src: 192.168.86.61, Dst: 128.119.245.12
 ... 0100 = Version: 4
 ... 0101 = Header Length: 20 bytes (5)
 ... Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
 ... 0000 00.. = Differentiated Services Codepoint: Default (0)
00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
 Total Length: 1500
 Identification: 0xfda2 (64930)
 ... 001. = Flags: 0x1, More fragments
 ... 0. = Reserved bit: Not set
 ... 0. = Don't fragment: Not set
 ... 1. = More fragments: Set
 ... 0 0000 1011 1001 = Fragment Offset: 1480
 Time to Live: 1
 [Expert Info (Note/Sequence): "Time To Live" only 1]
 Protocol: UDP (17)
 Header Checksum: 0x094c [validation disabled]
 [Header checksum status: Unverified]
 Source Address: 192.168.86.61
 Destination Address: 128.119.245.12
 [Reassembled IPv4 in frame: 181]
 Data (1480 bytes)

The image shows a Wireshark capture of network traffic. The main pane displays a list of packets with columns for Time, Source, Destination, Protocol, and Length. Packets 179, 180, and 181 are highlighted in red, indicating they are fragmented. Packet 179 is a UDP packet with a length of 1500 bytes. Packets 180 and 181 are also UDP packets, but they are fragmented. The packet details pane for packet 179 shows the following fields:

- Ethernet II, Src: Apple_98:d9:27 (78:4f:43:98:d9:27), Dst: Google_89:0e:c8 (3c:28:6d:89:0e:c8)
- Internet Protocol Version 4, Src: 192.168.86.61, Dst: 128.119.245.12
- 0101 ... = Version: 4
- ... 0101 = Header Length: 20 bytes (5)
- Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
- 0000 00... = Differentiated Services Codepoint: Default (0)
- ... 00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
- Total Length: 40
- Identification: 0xfda2 (64930)
- 000... = Flags: 0x0
- 0... = Reserved bit: Not set
- .0... = Don't fragment: Not set
- .0... = More fragments: Not set
- ...0 0001 0111 0010 = Fragment Offset: 2960
- Time to Live: 1
- [Expert Info (Note/Sequence): "Time to Live" only 1]
- Protocol: UDP (17)
- Header Checksum: 0x2e47 [validation disabled]
- [Header checksum status: Unverified]
- Source Address: 192.168.86.61
- Destination Address: 128.119.245.12
- [3 IPv4 Fragments: (2960 bytes): #179(1480), #180(1480), #181(20)]
- User Datagram Protocol, Src Port: 64929, Dst Port: 33435

1.3 In Packet 179, Fragment offset is 0, whereas in 180 and 181 it is 1480 and 2960.

1.4 In Packet 179, right between the two light blue lines, Total length = 1500 bytes

1.5 The header checksum changes from 0x0a05 to 0x094c, as the header changed because the fragment offset changed from 0 to 1480, a second change.

The image shows a Wireshark capture of network traffic. The main pane displays a list of packets with columns for No., Time, Source, Destination, Protocol, and Length. Packet 20 is highlighted in red, indicating it is a DNS query. Packet 21 is highlighted in blue, indicating it is a DNS response. The packet details pane for packet 20 shows the following fields:

- Ethernet II, Src: Apple_98:d9:27 (78:4f:43:98:d9:27), Dst: VantivaUSA_81:74:5a (44:1c:12:81:74:5a)
- Internet Protocol Version 6, Src: 2601:193:8302:4620:215c:f5ae:8b40:a27a, Dst: 2601:558:feed::1
- 0110 ... = Version: 6
- ... 0000 0000 ... = Traffic Class: 0x00 (DSCP: CS0, ECN: Not-ECT)
- ... 0110 0011 1110 1101 0000 = Flow Label: 0x63ede0
- Payload Length: 37
- Next Header: UDP (17)
- Hop Limit: 255
- Source Address: 2601:193:8302:4620:215c:f5ae:8b40:a27a
- Destination Address: 2601:558:feed::1
- User Datagram Protocol, Src Port: 64430, Dst Port: 53
- Domain Name System (query)
- Transaction ID: 0x920d
- Flags: 0x0100 Standard query
- Questions: 1
- Answer RRs: 0
- Authority RRs: 0
- Additional RRs: 0
- Queries
- [Response In: 27]

2.1 Src: 2601:193:8302:4620:215c:f5ae:8b40:a27a

2.2 Dst: 2001:558:feed::1

2.3 Flow Label: 0x63ed0

2.4 Payload Length: 37, 37 bytes

16	2.653622	fe80::1085:6434:358...	ff02::fb	MDNS	159 Standard query 0x0000 PTR _companion-link_tcp.loc
17	3.267704	Sonos_25:3a:2a	Spanning-tree-(for...	STP	60 Conf. Root = 36864/0/48:a6:b8:25:3a:2a Cost = 0
18	3.629864	52.112.115.23	10.0.0.44	TCP	56 443 → 50518 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
19	3.814364	2601:193:8302:4620:...	2001:558:feed::1	DNS	91 Standard query 0x4667 A youtube.com
20	3.814489	2601:193:8302:4620:...	2001:558:feed::1	DNS	91 Standard query 0x920d AAAA youtube.com
21	3.819370	2601:193:8302:4620:...	2001:558:feed::1	DNS	95 Standard query 0x7884 A www.youtube.com
22	3.819905	2601:193:8302:4620:...	2001:558:feed::1	DNS	95 Standard query 0x04fe AAAA www.youtube.com
23	3.946846	2001:558:feed::1	2601:193:8302:4620:...	DNS	107 Standard query response 0x4667 A youtube.com A 172
24	3.953852	2001:558:feed::1	2601:193:8302:4620:...	DNS	241 Standard query response 0x04fe AAAA www.youtube.co
25	3.954763	2601:193:8302:4620:...	2001:558:feed::1	DNS	103 Standard query 0x7884 A youtube-ui.l.google.com
26	3.955402	2001:558:feed::1	2601:193:8302:4620:...	DNS	337 Standard query response 0x7884 A www.youtube.com C
27	3.955405	2001:558:feed::1	2601:193:8302:4620:...	DNS	119 Standard query response 0x920d AAAA youtube.com AA
28	3.956819	2601:193:8302:4620:...	2607:f8b0:4006:81a:...	TCP	98 50629 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1440 W
29	4.099918	2607:f8b0:4006:81a:...	2601:193:8302:4620:...	TCP	94 443 → 50629 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
30	4.099922	2001:558:feed::1	2601:193:8302:4620:...	DNS	311 Standard query response 0x7884 A youtube-ui.l.goog
31	4.100035	2601:193:8302:4620:...	2607:f8b0:4006:81a:...	TCP	86 50629 → 443 [ACK] Seq=1 Ack=1 Win=131328 Len=0 TSv
32	4.100036	2601:193:8302:4620:...	2001:558:feed::1	ICMPv6	359 Destination Unreachable (Port unreachable)
33	4.110376	2601:193:8302:4620:...	2607:f8b0:4006:81a:...	TLSv1.3	603 Client Hello (SNI=www.youtube.com)
34	4.227644	52.70.172.237	10.0.0.44	TLSv1.2	612 Application Data


```

Frame 27: 119 bytes on wire (952 bits), 119 bytes captured (952 bits) on interface en0, id 0
Ethernet II, Src: VantivaUSA_81:74:5a (44:1c:12:81:74:5a), Dst: Apple_98:d9:27 (78:4f:43:98:d9:27)
Internet Protocol Version 6, Src: 2001:558:feed::1, Dst: 2601:193:8302:4620:215c:f5ae:8b40:a27a
User Datagram Protocol, Src Port: 53, Dst Port: 64430
Domain Name System (response)
  Transaction ID: 0x920d
  Flags: 0x8180 Standard query response, No error
  Questions: 1
  Answer RRs: 1
  Authority RRs: 0
  Additional RRs: 0
  Queries
  Answers
    youtube.com: type AAAA, class IN, addr 2607:f8b0:4006:815::200e
      Name: youtube.com
      Type: AAAA (28) (IP6 Address)
      Class: IN (0x0001)
      Time to live: 201 (3 minutes, 21 seconds)
      Data length: 16
      AAAA Address: 2607:f8b0:4006:815::200e
    [Request In: 20]
    Time: 0.140916000 seconds
  
```

2.5 Answer RRs: 1

youtube.com: type AAAA, class IN, addr 2607:f8b0:4006:815::200e

3. First the server binds to 0.0.0.0:2002 and listens to all interfaces for connections. For each of the 15 connections that come in, it accepts them, sends the filename followed by `\n`, and then the contents of the file "test.txt" in 1024 byte chunks before closing the connection.

```
server.py:
#!/usr/bin/python3
import socket

def send_file_to_client(sock):
    filename = "test.txt"
    # Send the filename and then a new line
    line = (filename + "\n").encode("utf-8")
    sock.sendall(line)

    # Open the file and send it
    try:
        with open(filename, "rb") as file:
            while True:
                data = file.read(1024) #Send data in chunks
                if not data:
                    break
                sock.sendall(data)
    except FileNotFoundError:
        print("File", filename, "not found on server.")

server_host = "0.0.0.0"    #Listen to all interfaces
server_port = 2002
num_connections = 15      # Number of clients to serve

# Create socket for the server
server_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

# Reserve port and start listening
server_socket.bind((server_host, server_port))
server_socket.listen(5) # allow pending connections

print(f"Server listening on {server_host}:{server_port}")

for connection_number in range(num_connections):
    # Wait for a client to connect
    client_socket, client_addr = server_socket.accept()
    print(f"Connected to client {client_addr}")
    send_file_to_client(client_socket) # Send the file to the client

    # Close the connection to the client
    client_socket.close()
    print("Disconnected from client. Waiting for next connection...")

# Stop the server
server_socket.close()
print("Server shut down.")
```


Wireshark captures:

Capturing from enp0s1

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tcp.port == 2002

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol...
2	23.471962335	fe80::842f:57ff:fe1...	ff02::1	ICMPv6	142	Router Advertisement from 86:2f:57:14...
3	30.061682066	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol...
4	60.135839483	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol...
5	86.492047901	192.168.64.5	192.168.64.1	DNS	100	Standard query 0x82c2 AAAA connectiv...
6	86.580024232	86:2f:57:14:a9:64	6a:23:79:b0:8a:fc	ARP	42	Who has 192.168.64.5? Tell 192.168.64...
7	86.580044024	6a:23:79:b0:8a:fc	86:2f:57:14:a9:64	ARP	42	192.168.64.5 is at 6a:23:79:b0:8a:fc
8	86.580024440	192.168.64.1	192.168.64.5	DNS	436	Standard query response 0x82c2 AAAA c...
9	87.720473590	192.168.64.5	192.168.64.1	TCP	74	55114 → 2002 [SYN] Seq=0 Win=64240 Le...
10	87.720980392	192.168.64.1	192.168.64.5	TCP	78	2002 → 55114 [SYN, ACK] Seq=0 Ack=1 W...
11	87.721001434	192.168.64.5	192.168.64.1	TCP	66	55114 → 2002 [ACK] Seq=1 Ack=1 Win=64...
12	87.721222730	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55114 [AC...
13	87.721675572	192.168.64.1	192.168.64.5	TCP	75	2002 → 55114 [PSH, ACK] Seq=1 Ack=1 W...
14	87.721687822	192.168.64.5	192.168.64.1	TCP	66	55114 → 2002 [ACK] Seq=1 Ack=10 Win=6...
15	87.723023515	192.168.64.1	192.168.64.5	TCP	103	2002 → 55114 [PSH, ACK] Seq=10 Ack=1 W...
16	87.723031307	192.168.64.5	192.168.64.1	TCP	66	55114 → 2002 [ACK] Seq=1 Ack=47 Win=6...
17	87.723148184	192.168.64.1	192.168.64.5	TCP	66	2002 → 55114 [FIN, ACK] Seq=47 Ack=1 W...
18	87.723214644	192.168.64.5	192.168.64.1	TCP	66	55114 → 2002 [FIN, ACK] Seq=1 Ack=48 W...
19	87.723244519	192.168.64.5	192.168.64.1	TCP	74	55118 → 2002 [SYN] Seq=0 Win=64240 Le...
20	87.723485774	192.168.64.1	192.168.64.5	TCP	66	2002 → 55114 [ACK] Seq=48 Ack=2 Win=6...
21	87.723580859	192.168.64.1	192.168.64.5	TCP	78	2002 → 55118 [SYN, ACK] Seq=0 Ack=1 W...
22	87.723598151	192.168.64.5	192.168.64.1	TCP	66	55118 → 2002 [ACK] Seq=1 Ack=1 Win=64...
23	87.723907282	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55118 [AC...
24	87.724105828	192.168.64.1	192.168.64.5	TCP	75	2002 → 55118 [PSH, ACK] Seq=1 Ack=1 W...
25	87.724118869	192.168.64.5	192.168.64.1	TCP	66	55118 → 2002 [ACK] Seq=1 Ack=10 Win=6...
26	87.724291248	192.168.64.1	192.168.64.5	TCP	103	2002 → 55118 [FIN, PSH, ACK] Seq=10 A...
27	87.724400292	192.168.64.5	192.168.64.1	TCP	66	55118 → 2002 [FIN, ACK] Seq=1 Ack=48 W...
28	87.724468418	192.168.64.5	192.168.64.1	TCP	74	55132 → 2002 [SYN] Seq=0 Win=64240 Le...
29	87.724709381	192.168.64.1	192.168.64.5	TCP	66	2002 → 55118 [ACK] Seq=48 Ack=2 Win=6...
30	87.724709423	192.168.64.1	192.168.64.5	TCP	78	2002 → 55132 [SYN, ACK] Seq=0 Ack=1 W...
31	87.724729131	192.168.64.5	192.168.64.1	TCP	66	55132 → 2002 [ACK] Seq=1 Ack=1 Win=64...
32	87.724948844	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55132 [AC...
33	87.725050679	192.168.64.1	192.168.64.5	TCP	75	2002 → 55132 [PSH, ACK] Seq=1 Ack=1 W...
34	87.725063638	192.168.64.5	192.168.64.1	TCP	66	55132 → 2002 [ACK] Seq=1 Ack=10 Win=6...
35	87.725235391	192.168.64.1	192.168.64.5	TCP	103	2002 → 55132 [FIN, PSH, ACK] Seq=10 A...
36	87.725400311	192.168.64.5	192.168.64.1	TCP	66	55132 → 2002 [FIN, ACK] Seq=1 Ack=48 W...
37	87.725431187	192.168.64.5	192.168.64.1	TCP	74	55138 → 2002 [SYN] Seq=0 Win=64240 Le...
38	87.725616899	192.168.64.1	192.168.64.5	TCP	66	2002 → 55132 [ACK] Seq=48 Ack=2 Win=6...
39	87.725697233	192.168.64.1	192.168.64.5	TCP	78	2002 → 55138 [SYN, ACK] Seq=0 Ack=1 W...
40	87.725713692	192.168.64.5	192.168.64.1	TCP	66	55138 → 2002 [ACK] Seq=1 Ack=1 Win=64...
41	87.726010073	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55138 [AC...
42	87.726010114	192.168.64.1	192.168.64.5	TCP	75	2002 → 55138 [PSH, ACK] Seq=1 Ack=1 W...
43	87.726021573	192.168.64.5	192.168.64.1	TCP	66	55138 → 2002 [ACK] Seq=1 Ack=10 Win=6...
44	87.726169534	192.168.64.1	192.168.64.5	TCP	103	2002 → 55138 [FIN, PSH, ACK] Seq=10 A...
45	87.726322329	192.168.64.5	192.168.64.1	TCP	66	55138 → 2002 [FIN, ACK] Seq=1 Ack=48 W...
46	87.726364163	192.168.64.5	192.168.64.1	TCP	74	55146 → 2002 [SYN] Seq=0 Win=64240 Le...
47	87.726682253	192.168.64.1	192.168.64.5	TCP	66	2002 → 55138 [ACK] Seq=48 Ack=2 Win=6...
48	87.726682336	192.168.64.1	192.168.64.5	TCP	78	2002 → 55146 [SYN, ACK] Seq=0 Ack=1 W...
49	87.726699086	192.168.64.5	192.168.64.1	TCP	66	55146 → 2002 [ACK] Seq=1 Ack=1 Win=64...
50	87.726776050	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55146 [AC...

No.	Time	Source	Destination	Protocol	Length	Info
50	87.726975050	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55146 [ACK]
51	87.726975133	192.168.64.1	192.168.64.5	TCP	75	2002 → 55146 [PSH, ACK] Seq=1 Ack=1 Win=6
52	87.726989425	192.168.64.5	192.168.64.1	TCP	66	55146 → 2002 [ACK] Seq=1 Ack=10 Win=6
53	87.727139220	192.168.64.1	192.168.64.5	TCP	103	2002 → 55146 [FIN, PSH, ACK] Seq=10 A
54	87.727352099	192.168.64.5	192.168.64.1	TCP	66	55146 → 2002 [FIN, ACK] Seq=1 Ack=48
55	87.727402433	192.168.64.5	192.168.64.1	TCP	74	55152 → 2002 [SYN] Seq=0 Win=64240 L
56	87.727663397	192.168.64.1	192.168.64.5	TCP	66	2002 → 55146 [ACK] Seq=48 Ack=2 Win=6
57	87.727663438	192.168.64.1	192.168.64.5	TCP	78	2002 → 55152 [SYN, ACK] Seq=0 Ack=1 W
58	87.727679772	192.168.64.5	192.168.64.1	TCP	66	55152 → 2002 [ACK] Seq=1 Ack=1 Win=64
59	87.727910860	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55152 [ACK]
60	87.727910943	192.168.64.1	192.168.64.5	TCP	75	2002 → 55152 [PSH, ACK] Seq=1 Ack=1 W
61	87.727932318	192.168.64.5	192.168.64.1	TCP	66	55152 → 2002 [ACK] Seq=1 Ack=10 Win=6
62	87.728061279	192.168.64.1	192.168.64.5	TCP	103	2002 → 55152 [FIN, PSH, ACK] Seq=10 A
63	87.728187115	192.168.64.5	192.168.64.1	TCP	66	55152 → 2002 [FIN, ACK] Seq=1 Ack=48
64	87.728347785	192.168.64.5	192.168.64.1	TCP	74	55166 → 2002 [SYN] Seq=0 Win=64240 L
65	87.728424578	192.168.64.1	192.168.64.5	TCP	66	2002 → 55152 [ACK] Seq=48 Ack=2 Win=6
66	87.728615290	192.168.64.1	192.168.64.5	TCP	78	2002 → 55166 [SYN, ACK] Seq=0 Ack=1 W
67	87.728628415	192.168.64.5	192.168.64.1	TCP	66	55166 → 2002 [ACK] Seq=1 Ack=1 Win=64
68	87.728803877	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55166 [ACK]
69	87.728869170	192.168.64.1	192.168.64.5	TCP	75	2002 → 55166 [PSH, ACK] Seq=1 Ack=1 W
70	87.728887254	192.168.64.5	192.168.64.1	TCP	66	55166 → 2002 [ACK] Seq=1 Ack=10 Win=6
71	87.728994422	192.168.64.1	192.168.64.5	TCP	103	2002 → 55166 [FIN, PSH, ACK] Seq=10 A
72	87.729094008	192.168.64.5	192.168.64.1	TCP	66	55166 → 2002 [FIN, ACK] Seq=1 Ack=48
73	87.729111425	192.168.64.5	192.168.64.1	TCP	74	55176 → 2002 [SYN] Seq=0 Win=64240 L
74	87.729264844	192.168.64.1	192.168.64.5	TCP	66	2002 → 55166 [ACK] Seq=48 Ack=2 Win=6
75	87.729322512	192.168.64.1	192.168.64.5	TCP	78	2002 → 55176 [SYN, ACK] Seq=0 Ack=1 W
76	87.729332679	192.168.64.5	192.168.64.1	TCP	66	55176 → 2002 [ACK] Seq=1 Ack=1 Win=64
77	87.729492390	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55176 [ACK]
78	87.729573100	192.168.64.1	192.168.64.5	TCP	75	2002 → 55176 [PSH, ACK] Seq=1 Ack=1 W
79	87.729587976	192.168.64.5	192.168.64.1	TCP	66	55176 → 2002 [ACK] Seq=1 Ack=10 Win=6
80	87.729702728	192.168.64.1	192.168.64.5	TCP	103	2002 → 55176 [FIN, PSH, ACK] Seq=10 A
81	87.729770062	192.168.64.5	192.168.64.1	TCP	66	55176 → 2002 [FIN, ACK] Seq=1 Ack=48
82	87.729881315	192.168.64.5	192.168.64.1	TCP	74	55186 → 2002 [SYN] Seq=0 Win=64240 L
83	87.730006442	192.168.64.1	192.168.64.5	TCP	66	2002 → 55176 [ACK] Seq=48 Ack=2 Win=6
84	87.730075902	192.168.64.1	192.168.64.5	TCP	78	2002 → 55186 [SYN, ACK] Seq=0 Ack=1 W
85	87.730089444	192.168.64.5	192.168.64.1	TCP	66	55186 → 2002 [ACK] Seq=1 Ack=1 Win=64
86	87.730288489	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55186 [ACK]
87	87.730288531	192.168.64.1	192.168.64.5	TCP	75	2002 → 55186 [PSH, ACK] Seq=1 Ack=1 W
88	87.730288572	192.168.64.1	192.168.64.5	TCP	103	2002 → 55186 [FIN, PSH, ACK] Seq=10 A
89	87.730299406	192.168.64.5	192.168.64.1	TCP	66	55186 → 2002 [ACK] Seq=1 Ack=10 Win=6
90	87.730436242	192.168.64.5	192.168.64.1	TCP	66	55186 → 2002 [FIN, ACK] Seq=1 Ack=48
91	87.730450326	192.168.64.5	192.168.64.1	TCP	74	55200 → 2002 [SYN] Seq=0 Win=64240 L
92	87.730694539	192.168.64.1	192.168.64.5	TCP	66	2002 → 55186 [ACK] Seq=48 Ack=2 Win=6
93	87.730694580	192.168.64.1	192.168.64.5	TCP	78	2002 → 55200 [SYN, ACK] Seq=0 Ack=1 W
94	87.730732039	192.168.64.5	192.168.64.1	TCP	66	55200 → 2002 [ACK] Seq=1 Ack=1 Win=64
95	87.730867875	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55200 [ACK]
96	87.730867875	192.168.64.1	192.168.64.5	TCP	75	2002 → 55200 [PSH, ACK] Seq=1 Ack=1 W
97	87.730878876	192.168.64.5	192.168.64.1	TCP	66	55200 → 2002 [ACK] Seq=1 Ack=10 Win=6
98	87.730980044	192.168.64.1	192.168.64.5	TCP	103	2002 → 55200 [FIN, PSH, ACK] Seq=10 A
99	87.731006130	192.168.64.5	192.168.64.1	TCP	66	55200 → 2002 [FIN, ACK] Seq=1 Ack=48

Capuring from eth0

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tcp.port == 2002

No.	Time	Source	Destination	Protocol	Length	Info
98	87.730980044	192.168.64.1	192.168.64.5	TCP	103	2002 → 55200 [FIN, PSH, ACK] Seq=10...
99	87.731086130	192.168.64.5	192.168.64.1	TCP	66	55200 → 2002 [FIN, ACK] Seq=1 Ack=48...
100	87.731108922	192.168.64.5	192.168.64.1	TCP	74	55202 → 2002 [SYN] Seq=0 Win=64240 L...
101	87.731258508	192.168.64.1	192.168.64.5	TCP	66	2002 → 55200 [ACK] Seq=48 Ack=2 Win=...
102	87.731353718	192.168.64.1	192.168.64.5	TCP	78	2002 → 55202 [SYN, ACK] Seq=0 Ack=1 W...
103	87.731365552	192.168.64.5	192.168.64.1	TCP	66	55202 → 2002 [ACK] Seq=1 Ack=1 Win=64...
104	87.731718558	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55202 [ACK]...
105	87.731718642	192.168.64.1	192.168.64.5	TCP	75	2002 → 55202 [PSH, ACK] Seq=1 Ack=1 W...
106	87.731718642	192.168.64.1	192.168.64.5	TCP	103	2002 → 55202 [FIN, PSH, ACK] Seq=10...
107	87.731752434	192.168.64.5	192.168.64.1	TCP	66	55202 → 2002 [ACK] Seq=1 Ack=10 Win=6...
108	87.731963730	192.168.64.5	192.168.64.1	TCP	66	55202 → 2002 [FIN, ACK] Seq=1 Ack=48...
109	87.731997564	192.168.64.5	192.168.64.1	TCP	74	55208 → 2002 [SYN] Seq=0 Win=64240 L...
110	87.732163359	192.168.64.1	192.168.64.5	TCP	66	2002 → 55202 [ACK] Seq=48 Ack=2 Win=...
111	87.732231027	192.168.64.1	192.168.64.5	TCP	78	2002 → 55208 [SYN, ACK] Seq=0 Ack=1 W...
112	87.732241152	192.168.64.5	192.168.64.1	TCP	66	55208 → 2002 [ACK] Seq=1 Ack=1 Win=64...
113	87.732498907	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55208 [ACK]...
114	87.732498949	192.168.64.1	192.168.64.5	TCP	75	2002 → 55208 [PSH, ACK] Seq=1 Ack=1 W...
115	87.732511157	192.168.64.5	192.168.64.1	TCP	66	55208 → 2002 [ACK] Seq=1 Ack=10 Win=6...
116	87.732658952	192.168.64.1	192.168.64.5	TCP	103	2002 → 55208 [FIN, PSH, ACK] Seq=10...
117	87.732706828	192.168.64.5	192.168.64.1	TCP	66	55208 → 2002 [FIN, ACK] Seq=1 Ack=48...
118	87.732799038	192.168.64.5	192.168.64.1	TCP	74	55218 → 2002 [SYN] Seq=0 Win=64240 L...
119	87.732904081	192.168.64.1	192.168.64.5	TCP	66	2002 → 55208 [ACK] Seq=48 Ack=2 Win=...
120	87.733041792	192.168.64.1	192.168.64.5	TCP	78	2002 → 55218 [SYN, ACK] Seq=0 Ack=1 W...
121	87.733051001	192.168.64.5	192.168.64.1	TCP	66	55218 → 2002 [ACK] Seq=1 Ack=1 Win=64...
122	87.733202921	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55218 [ACK]...
123	87.733282130	192.168.64.1	192.168.64.5	TCP	75	2002 → 55218 [PSH, ACK] Seq=1 Ack=1 W...
124	87.733290672	192.168.64.5	192.168.64.1	TCP	66	55218 → 2002 [ACK] Seq=1 Ack=10 Win=6...
125	87.733406800	192.168.64.1	192.168.64.5	TCP	103	2002 → 55218 [FIN, PSH, ACK] Seq=10...
126	87.733490929	192.168.64.5	192.168.64.1	TCP	66	55218 → 2002 [FIN, ACK] Seq=1 Ack=48...
127	87.733572719	192.168.64.5	192.168.64.1	TCP	74	55228 → 2002 [SYN] Seq=0 Win=64240 L...
128	87.733711972	192.168.64.1	192.168.64.5	TCP	66	2002 → 55218 [ACK] Seq=48 Ack=2 Win=...
129	87.733784474	192.168.64.1	192.168.64.5	TCP	78	2002 → 55228 [SYN, ACK] Seq=0 Ack=1 W...
130	87.733793849	192.168.64.5	192.168.64.1	TCP	66	55228 → 2002 [ACK] Seq=1 Ack=1 Win=64...
131	87.733924185	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55228 [ACK]...
132	87.733988686	192.168.64.1	192.168.64.5	TCP	75	2002 → 55228 [PSH, ACK] Seq=1 Ack=1 W...
133	87.734007895	192.168.64.5	192.168.64.1	TCP	66	55228 → 2002 [ACK] Seq=1 Ack=10 Win=6...
134	87.734127814	192.168.64.1	192.168.64.5	TCP	103	2002 → 55228 [FIN, PSH, ACK] Seq=10...
135	87.734194106	192.168.64.5	192.168.64.1	TCP	66	55228 → 2002 [FIN, ACK] Seq=1 Ack=48...
136	87.734218190	192.168.64.5	192.168.64.1	TCP	74	55242 → 2002 [SYN] Seq=0 Win=64240 L...
137	87.734378693	192.168.64.1	192.168.64.5	TCP	66	2002 → 55228 [ACK] Seq=48 Ack=2 Win=...
138	87.734447861	192.168.64.1	192.168.64.5	TCP	78	2002 → 55242 [SYN, ACK] Seq=0 Ack=1 W...
139	87.734456778	192.168.64.5	192.168.64.1	TCP	66	55242 → 2002 [ACK] Seq=1 Ack=1 Win=64...
140	87.734650074	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55242 [ACK]...
141	87.734715575	192.168.64.1	192.168.64.5	TCP	75	2002 → 55242 [PSH, ACK] Seq=1 Ack=1 W...
142	87.734729034	192.168.64.5	192.168.64.1	TCP	66	55242 → 2002 [ACK] Seq=1 Ack=10 Win=6...
143	87.734856328	192.168.64.1	192.168.64.5	TCP	103	2002 → 55242 [FIN, PSH, ACK] Seq=10...
144	87.734923329	192.168.64.5	192.168.64.1	TCP	66	55242 → 2002 [FIN, ACK] Seq=1 Ack=48...
145	87.735123166	192.168.64.1	192.168.64.5	TCP	66	2002 → 55242 [ACK] Seq=48 Ack=2 Win=...
146	90.192361944	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol,
147	90.549450200	192.168.64.1	192.168.64.255	ICMPv6	142	Router Advertisement from 26:3f:57:1...

Capturing from enp0s1

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tcp.port == 2002

No.	Time	Source	Destination	Protocol	Length	Info
117	87.732706828	192.168.64.5	192.168.64.1	TCP	66	55208 → 2002 [FIN, ACK] Seq=1 Ack=48
118	87.732799038	192.168.64.5	192.168.64.1	TCP	74	55218 → 2002 [SYN] Seq=0 Win=64240 Len=
119	87.732904081	192.168.64.1	192.168.64.5	TCP	66	2002 → 55208 [ACK] Seq=48 Ack=2 Win=
120	87.733041792	192.168.64.1	192.168.64.5	TCP	78	2002 → 55218 [SYN, ACK] Seq=0 Ack=1 W
121	87.733051001	192.168.64.5	192.168.64.1	TCP	66	55218 → 2002 [ACK] Seq=1 Ack=1 Win=64
122	87.733202921	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55218 [ACK
123	87.733282130	192.168.64.1	192.168.64.5	TCP	75	2002 → 55218 [PSH, ACK] Seq=1 Ack=1 W
124	87.733290672	192.168.64.5	192.168.64.1	TCP	66	55218 → 2002 [ACK] Seq=1 Ack=10 Win=6
125	87.733406800	192.168.64.1	192.168.64.5	TCP	103	2002 → 55218 [FIN, PSH, ACK] Seq=10 W
126	87.733499926	192.168.64.5	192.168.64.1	TCP	66	55218 → 2002 [FIN, ACK] Seq=1 Ack=48
127	87.733572719	192.168.64.5	192.168.64.1	TCP	74	55228 → 2002 [SYN] Seq=0 Win=64240 Len=
128	87.733711972	192.168.64.1	192.168.64.5	TCP	66	2002 → 55218 [ACK] Seq=48 Ack=2 Win=
129	87.733784474	192.168.64.1	192.168.64.5	TCP	78	2002 → 55228 [SYN, ACK] Seq=0 Ack=1 W
130	87.733793849	192.168.64.5	192.168.64.1	TCP	66	55228 → 2002 [ACK] Seq=1 Ack=1 Win=64
131	87.733924185	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55228 [ACK
132	87.733988686	192.168.64.1	192.168.64.5	TCP	75	2002 → 55228 [PSH, ACK] Seq=1 Ack=1 W
133	87.734007895	192.168.64.5	192.168.64.1	TCP	66	55228 → 2002 [ACK] Seq=1 Ack=10 Win=6
134	87.734127814	192.168.64.1	192.168.64.5	TCP	103	2002 → 55228 [FIN, PSH, ACK] Seq=10 W
135	87.734194106	192.168.64.5	192.168.64.1	TCP	66	55228 → 2002 [FIN, ACK] Seq=1 Ack=48
136	87.734218190	192.168.64.5	192.168.64.1	TCP	74	55242 → 2002 [SYN] Seq=0 Win=64240 Len=
137	87.734378693	192.168.64.1	192.168.64.5	TCP	66	2002 → 55228 [ACK] Seq=48 Ack=2 Win=
138	87.734447861	192.168.64.1	192.168.64.5	TCP	78	2002 → 55242 [SYN, ACK] Seq=0 Ack=1 W
139	87.734456778	192.168.64.5	192.168.64.1	TCP	66	55242 → 2002 [ACK] Seq=1 Ack=1 Win=64
140	87.734650074	192.168.64.1	192.168.64.5	TCP	66	[TCP Window Update] 2002 → 55242 [ACK
141	87.734715575	192.168.64.1	192.168.64.5	TCP	75	2002 → 55242 [PSH, ACK] Seq=1 Ack=1 W
142	87.734729034	192.168.64.5	192.168.64.1	TCP	66	55242 → 2002 [ACK] Seq=1 Ack=10 Win=6
143	87.734856328	192.168.64.1	192.168.64.5	TCP	103	2002 → 55242 [FIN, PSH, ACK] Seq=10 W
144	87.734923329	192.168.64.5	192.168.64.1	TCP	66	55242 → 2002 [FIN, ACK] Seq=1 Ack=48
145	87.735123166	192.168.64.1	192.168.64.5	TCP	66	2002 → 55242 [ACK] Seq=48 Ack=2 Win=
146	90.192361944	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol,
147	98.548450299	fe80::842f:57ff:fe1... ff02::1	ff02::1	ICMPv6	142	Router Advertisement from 86:2f:57:14
148	120.247574669	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol,
149	150.303364989	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol,
150	176.477370448	192.168.64.5	192.168.64.1	DNS	100	Standard query 0x6612 A connectivity-
151	176.513907293	192.168.64.1	192.168.64.5	DNS	292	Standard query response 0x6612 A conne
152	176.514913063	192.168.64.5	91.189.91.97	TCP	74	35334 → 80 [SYN] Seq=0 Win=64240 Len=
153	176.568008443	91.189.91.97	192.168.64.5	TCP	74	80 → 35334 [SYN, ACK] Seq=0 Ack=1 Win=
154	176.568054277	192.168.64.5	91.189.91.97	TCP	66	35334 → 80 [ACK] Seq=1 Ack=1 Win=6425
155	176.568155654	192.168.64.5	91.189.91.97	HTTP	154	GET / HTTP/1.1
156	176.619666586	91.189.91.97	192.168.64.5	HTTP	251	HTTP/1.1 204 No Content
157	176.619666836	91.189.91.97	192.168.64.5	TCP	66	[TCP Previous segment not captured]
158	176.619666878	91.189.91.97	192.168.64.5	TCP	66	[TCP Retransmission] 80 → 35334 [FIN
159	176.619683837	192.168.64.5	91.189.91.97	TCP	66	35334 → 80 [ACK] Seq=89 Ack=186 Win=6
160	176.619764838	192.168.64.5	91.189.91.97	TCP	66	35334 → 80 [FIN, ACK] Seq=89 Ack=187
161	176.671992535	91.189.91.97	192.168.64.5	TCP	66	80 → 35334 [ACK] Seq=187 Ack=90 Win=6
162	180.363565955	192.168.64.1	192.168.64.255	DB-LSP...	271	Dropbox LAN sync Discovery Protocol,
163	181.783534718	6a:23:79:b0:8a:fc	86:2f:57:14:a9:64	ARP	42	Who has 192.168.64.1? Tell 192.168.64
164	181.783739972	86:2f:57:14:a9:64	6a:23:79:b0:8a:fc	ARP	42	192.168.64.1 is at 86:2f:57:14:a9:64
165	188.624846027	fe80::842f:57ff:fe1... ff02::1	ff02::1	ICMPv6	142	Router Advertisement from 86:2f:57:14

enp0s1: divs capture in progress

Packets: 165, Displayed: 165 (100%) Profile: Default