

# INSTITUTO TECNOLÓGICO DE CANCUN



TECNOLÓGICO

INSTITUTO

DE CANCÚN



Nombre De La Materia: Fundamentos De Telecomunicaciones

Nombre De La Unidad: Sistemas de comunicación

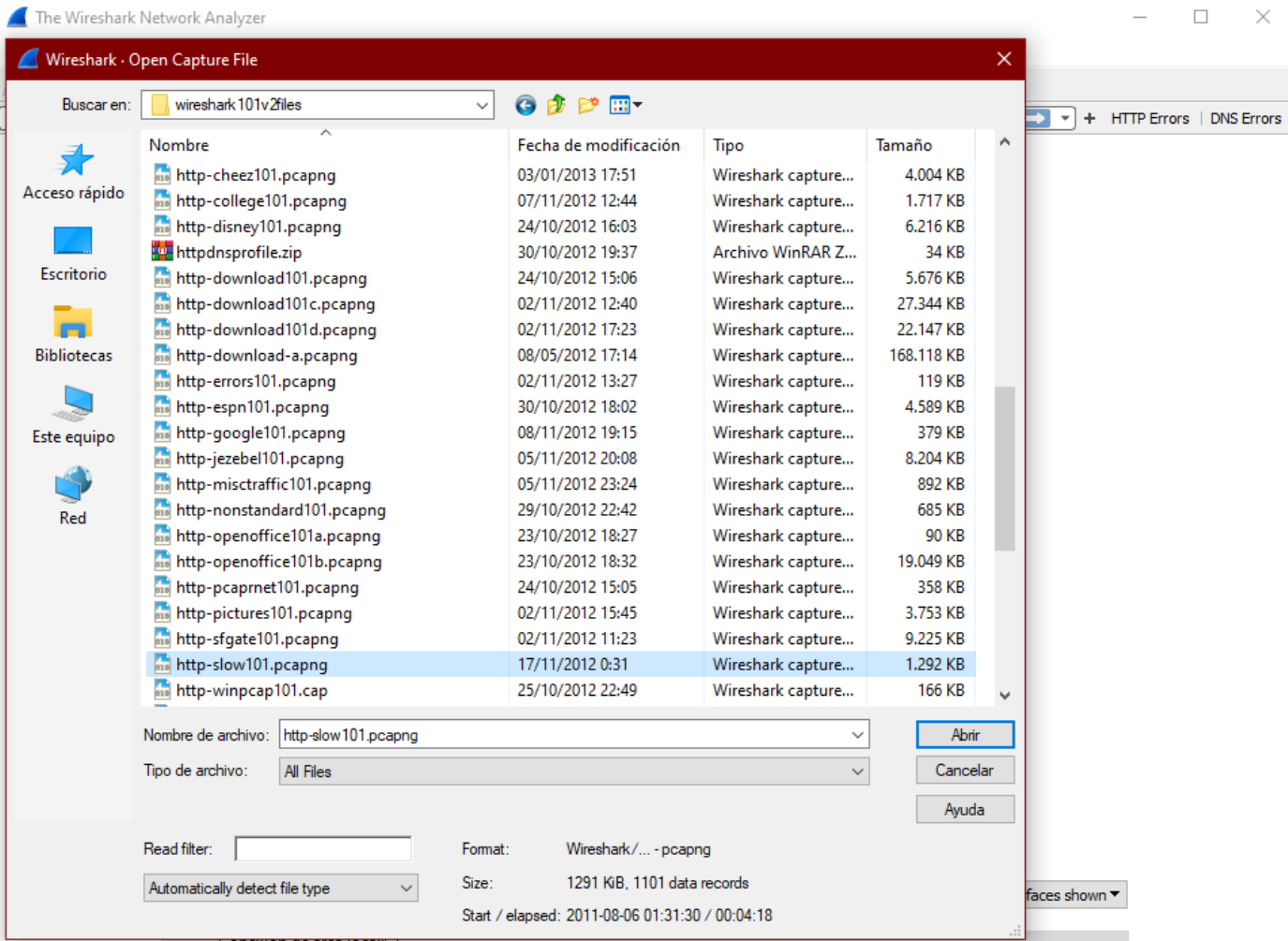
N.º De Actividad: Laboratorio 8

Nombre Del Alumno: Vazquez Canto Andres Omar

N.º De Control: 17530439

# Lab8- Spoth Path and Server Latency Problems

## Paso 1:



The Wireshark Network Analyzer

Wireshark · Open Capture File

Buscar en: wireshark101v2files

Nombre	Fecha de modificación	Tipo	Tamaño
http-cheez101.pcapng	03/01/2013 17:51	Wireshark capture...	4.004 KB
http-college101.pcapng	07/11/2012 12:44	Wireshark capture...	1.717 KB
http-disney101.pcapng	24/10/2012 16:03	Wireshark capture...	6.216 KB
httpdnsprofile.zip	30/10/2012 19:37	Archivo WinRAR Z...	34 KB
http-download101.pcapng	24/10/2012 15:06	Wireshark capture...	5.676 KB
http-download101c.pcapng	02/11/2012 12:40	Wireshark capture...	27.344 KB
http-download101d.pcapng	02/11/2012 17:23	Wireshark capture...	22.147 KB
http-download-a.pcapng	08/05/2012 17:14	Wireshark capture...	168.118 KB
http-errors101.pcapng	02/11/2012 13:27	Wireshark capture...	119 KB
http-espn101.pcapng	30/10/2012 18:02	Wireshark capture...	4.589 KB
http-google101.pcapng	08/11/2012 19:15	Wireshark capture...	379 KB
http-jezebel101.pcapng	05/11/2012 20:08	Wireshark capture...	8.204 KB
http-misctraffic101.pcapng	05/11/2012 23:24	Wireshark capture...	892 KB
http-nonstandard101.pcapng	29/10/2012 22:42	Wireshark capture...	685 KB
http-openoffice101a.pcapng	23/10/2012 18:27	Wireshark capture...	90 KB
http-openoffice101b.pcapng	23/10/2012 18:32	Wireshark capture...	19.049 KB
http-pcapnet101.pcapng	24/10/2012 15:05	Wireshark capture...	358 KB
http-pictures101.pcapng	02/11/2012 15:45	Wireshark capture...	3.753 KB
http-sfgate101.pcapng	02/11/2012 11:23	Wireshark capture...	9.225 KB
http-slow101.pcapng	17/11/2012 0:31	Wireshark capture...	1.292 KB
http-winpcap101.cap	25/10/2012 22:49	Wireshark capture...	166 KB

Nombre de archivo: http-slow101.pcapng

Tipo de archivo: All Files

Read filter: Automatically detect file type

Format: Wireshark/... - pcapng

Size: 1291 KiB, 1101 data records

Start / elapsed: 2011-08-06 01:31:30 / 00:04:18

Abrir

Cancelar

Ayuda

faces shown ▾

Conexión de área local\* 2

Conexión de área local\* 1

Wi-Fi

Radmin VPN

Conexión de área local\* 8

Conexión de área local\* 10

Conexión de área local\* 9

VirtualBox Host-Only Network

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Ethernet

Conexión de red Bluetooth

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You are running Wireshark 3.2.4 (v3.2.4-0-g893b5a5e1e3e). You receive automatic updates.

Ready to load or capture

No Packets

Profile: HTTP-DNS\_Errors

## Paso 2:

Wireshark interface showing a packet capture of `http-slow101.pcapng`. The packet list displays 22 packets, with the first packet selected. A context menu is open over the packet list, showing options like `Align Left`, `Align Center`, `Align Right`, `Column Preferences...`, `Edit Column`, `Resize to Contents`, `Resize Column to Width...`, `Resolve Names`, `No.`, `Time`, `Source`, `Destination`, `Protocol`, `Length`, `Info`, and `Remove this Column`.

The packet details pane shows the structure of the first packet:

- Frame 1: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface unknown, id 0
- Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)
- Internet Protocol Version 4, Src: 24.6.173.220, Dst: 69.4.231.53
- Transmission Control Protocol, Src Port: 12592, Dst Port: 80, Seq: 1, Ack: 1, Len: 0

The packet bytes pane shows the raw data in hexadecimal and ASCII:

```
0000 00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00  ..\1.... d.....E..
0010 00 28 59 68 40 00 80 06 00 00 18 06 ad dc 45 04  .(Yh@... ..E..
0020 e7 35 31 30 00 50 6e 37 28 cc ce 3f 0a 8d 50 11  .510·Pn7 (·?·P·
0030 3f c2 f2 36 00 00  ?..6..
```

### Paso 3:

The image shows the Wireshark network protocol analyzer interface. The 'View' menu is open, displaying various options for customizing the display. The 'Time Display Format' submenu is also open, showing different time display options. The main packet list shows several TCP packets, and the packet details pane shows the selected packet's structure. The packet bytes pane shows the raw data in hexadecimal and ASCII.

**View Menu Options:**

- ✓ Main Toolbar
- ✓ Filter Toolbar
- ✓ Status Bar
- Full Screen (F11)
- ✓ Packet List
- ✓ Packet Details
- ✓ Packet Bytes
- Time Display Format
  - Date and Time of Day (1970-01-01 01:02:03.123456) Ctrl+Alt+1
  - Year, Day of Year, and Time of Day (1970/001 01:02:03.123456)
  - Time of Day (01:02:03.123456) Ctrl+Alt+2
  - Seconds Since 1970-01-01 Ctrl+Alt+3
  - Seconds Since Beginning of Capture Ctrl+Alt+4
  - Seconds Since Previous Captured Packet Ctrl+Alt+5
  - Seconds Since Previous Displayed Packet Ctrl+Alt+6
  - UTC Date and Time of Day (1970-01-01 01:02:03.123456) Ctrl+Alt+7
  - UTC Year, Day of Year, and Time of Day (1970/001 01:02:03.123456)
  - UTC Time of Day (01:02:03.123456) Ctrl+Alt+8
  - Automatic (from capture file)
  - Seconds
  - Tenths of a second
  - Hundredths of a second
  - Milliseconds
  - Microseconds
  - Nanoseconds
  - Display Seconds With Hours and Minutes
- Name Resolution
- Zoom
- Expand Subtrees (Shift+Right)
- Collapse Subtrees (Shift+Left)
- Expand All (Ctrl+Right)
- Collapse All (Ctrl+Left)
- Colorize Packet List
- Coloring Rules...
- Colorize Conversation
- Reset Layout (Ctrl+Shift+W)
- Resize Columns (Ctrl+Shift+R)
- Internals
- Show Packet in New Window
- Reload as File Format/Capture (Ctrl+Shift+F)
- Reload (Ctrl+R)

**Packet List:**

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.1	192.168.1.2	TCP	60	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16322 Len=0
2	0.000000	192.168.1.1	192.168.1.2	TCP	60	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
3	0.000000	192.168.1.1	192.168.1.2	TCP	60	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
4	0.000000	192.168.1.1	192.168.1.2	TCP	60	12590 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
5	0.000000	192.168.1.1	192.168.1.2	TCP	60	12594 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16254 Len=0
6	0.000000	192.168.1.1	192.168.1.2	TCP	60	12607 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1

**Packet Details:**

Frame 1: Ethernet II, Src: Intel(R) Dual Band Wireless-AC 8095, Dst: Intel(R) Dual Band Wireless-AC 8095, Protocol: Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.2

**Packet Bytes:**

0000 00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00 ..\1.... d....E.  
0010 00 28 59 68 40 00 80 06 00 00 18 06 ad dc 45 04 .(Yh@... ..E.  
0020 e7 35 31 30 00 50 6e 37 28 cc ce 3f 0a 8d 50 11 .510.Pn7 (..?..P.  
0030 3f c2 f2 36 00 00 ?..6..

**Status Bar:** Packets: 1101 · Displayed: 1101 (100.0%) Profile: wireshark101

http-slow101.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

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

No.	Time	Source	Destination	Protocol	Info
354	118.195308	24.6.173.220	69.4.231.53	TCP	12609 → 80 [FIN, ACK] Seq=1971 Ack=151255 Win=65700 Len=0
210	29.006113	69.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)
16	18.096205	24.6.173.220	69.4.231.53	TCP	12607 → 80 [FIN, ACK] Seq=641 Ack=1 Win=65700 Len=0
23	17.965049	69.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)
1098	14.745399	69.4.231.53	24.6.173.220	TCP	80 → 12621 [FIN, ACK] Seq=846303 Ack=672 Win=7680 Len=0
1100	14.381621	24.6.173.220	69.4.231.53	TCP	12621 → 80 [FIN, ACK] Seq=672 Ack=846304 Win=261340 Len=0
200	13.189802	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/epan/ HTTP/1.1
206	10.916739	24.6.173.220	69.4.231.53	TCP	12608 → 80 [FIN, ACK] Seq=641 Ack=169491 Win=65700 Len=0
352	9.771177	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/epan/dissectors/ HTTP/1.1
365	3.085901	69.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)
361	2.411608	69.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)
202	1.115240	69.4.231.53	24.6.173.220	TCP	80 → 12610 [FIN, ACK] Seq=767 Ack=627 Win=7168 Len=0
204	0.512248	69.4.231.53	24.6.173.220	TCP	80 → 12608 [FIN, ACK] Seq=169490 Ack=641 Win=7168 Len=0
227	0.120264	69.4.231.53	24.6.173.220	HTTP	Continuation
219	0.105283	69.4.231.53	24.6.173.220	HTTP	Continuation
18	0.100442	69.4.231.53	24.6.173.220	TCP	80 → 12608 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=146
250	0.099336	69.4.231.53	24.6.173.220	HTTP	Continuation
7	0.095042	69.4.231.53	24.6.173.220	TCP	80 → 12590 [ACK] Seq=1 Ack=2 Win=24 Len=0
353	0.093634	69.4.231.53	24.6.173.220	TCP	80 → 12609 [ACK] Seq=151255 Ack=1971 Win=10240 Len=0
201	0.090446	69.4.231.53	24.6.173.220	TCP	80 → 12609 [ACK] Seq=545 Ack=1300 Win=8704 Len=0
264	0.090432	69.4.231.53	24.6.173.220	HTTP	Continuation
369	0.090323	69.4.231.53	24.6.173.220	HTTP	Continuation
214	0.089760	69.4.231.53	24.6.173.220	HTTP	Continuation

> Frame 354: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface unknown, id 0  
> Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)  
> Internet Protocol Version 4, Src: 24.6.173.220, Dst: 69.4.231.53  
> Transmission Control Protocol, Src Port: 12609, Dst Port: 80, Seq: 1971, Ack: 151255, Len: 0

0000 00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00 ..\1... d.....E.  
0010 00 28 5a 3c 40 00 80 06 00 00 18 06 ad dc 45 04 .(Z@... ..E.  
0020 e7 35 31 41 00 50 f0 1e 4a c2 07 ec 42 a2 50 11 .51A.P.. J...B.P.  
0030 40 29 f2 36 00 00 @).6..

http-slow101.pcapng | Packets: 1101 · Displayed: 1101 (100.0%) | Profile: wireshark101

## Paso 4:

http-slow101.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

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

No.	Time	Source	Destination	Protocol	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16322 Len=0
2	0.000343	24.6.173.220	69.4.231.53	TCP	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
3	0.00065	24.6.173.220	69.4.231.53	TCP	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
4	0.00035	24.6.173.220	69.4.231.53	TCP	12590 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
5	0.00034	24.6.173.220	69.4.231.53	TCP	12594 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16254 Len=0
6	0.00034	24.6.173.220	69.4.231.53	TCP	12607 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK
7	0.095042	69.4.231.53	24.6.173.220	TCP	80 → 12590 [ACK] Seq=1 Ack=2 Win=24 Len=0
8	0.000858	69.4.231.53	24.6.173.220	TCP	80 → 12595 [ACK] Seq=1 Ack=2 Win=14 Len=0
9	0.000003	69.4.231.53	24.6.173.220	TCP	80 → 12594 [ACK] Seq=1 Ack=2 Win=14 Len=0
10	0.000010	69.4.231.53	24.6.173.220	TCP	80 → 12591 [ACK] Seq=1 Ack=2 Win=14 Len=0
11	0.000006	69.4.231.53	24.6.173.220	TCP	80 → 12607 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460
12	0.000289	24.6.173.220	69.4.231.53	TCP	12607 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
13	0.001095	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/ HTTP/1.1
14	0.029099	69.4.231.53	24.6.173.220	TCP	80 → 12592 [ACK] Seq=1 Ack=2 Win=17 Len=0
15	0.064374	69.4.231.53	24.6.173.220	TCP	80 → 12607 [ACK] Seq=1 Ack=641 Win=7168 Len=0
16	18.096205	24.6.173.220	69.4.231.53	TCP	12607 → 80 [FIN, ACK] Seq=641 Ack=1 Win=65700 Len=0
17	0.008281	24.6.173.220	69.4.231.53	TCP	12608 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK
18	0.100442	69.4.231.53	24.6.173.220	TCP	80 → 12608 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460
19	0.000198	24.6.173.220	69.4.231.53	TCP	12608 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
20	0.001125	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/ HTTP/1.1
21	0.026921	69.4.231.53	24.6.173.220	TCP	80 → 12607 [ACK] Seq=1 Ack=642 Win=7168 Len=0
22	0.061951	69.4.231.53	24.6.173.220	TCP	80 → 12608 [ACK] Seq=1 Ack=641 Win=7168 Len=0
23	17.965049	69.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)

< >

> Frame 354: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface unknown, id 0  
 > Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)  
 > Internet Protocol Version 4, Src: 24.6.173.220, Dst: 69.4.231.53  
 > Transmission Control Protocol, Src Port: 12609, Dst Port: 80, Seq: 1971, Ack: 151255, Len: 0

```

0000  00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00  ..\....d....E.
0010  00 28 5a 3c 40 00 80 06 00 00 18 06 ad dc 45 04  .(Z@.....E.
0020  e7 35 31 41 00 50 f0 1e 4a c2 07 ec 42 a2 50 11  .51A.P..J...B.P.
0030  40 29 f2 36 00 00                                @).6..
  
```

http-slow101.pcapng | Packets: 1101 · Displayed: 1101 (100.0%) | Profile: wireshark101



## Paso 5:

The image shows the Wireshark network protocol analyzer interface. The main window displays a packet capture of an HTTP connection. The packet list pane at the top shows a sequence of packets, with packet 23 selected. The packet details pane on the left shows the structure of the selected packet, including the Internet Protocol Version 4, Transmission Control Protocol, and Hypertext Transfer Protocol. The packet bytes pane on the right shows the raw data of the packet.

No.	Time	Source	Destination	Protocol	Info
1	0.000000	24.6.173.220	69.4.231.53	TCP	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16322 Len=0
2	0.003434	24.6.173.220	69.4.231.53	TCP	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
3	0.000065	24.6.173.220	69.4.231.53	TCP	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
4	0.000035	24.6.173.220	69.4.231.53	TCP	12590 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16425 Len=0
5	0.000034	24.6.173.220	69.4.231.53	TCP	12594 → 80 [FIN, ACK] Seq=1 Ack=1 Win=16254 Len=0
6	0.000334	24.6.173.220	69.4.231.53	TCP	12607 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK
7	0.095042	69.4.231.53	24.6.173.220	TCP	80 → 12590 [ACK] Seq=1 Ack=2 Win=24 Len=0
8	0.000858	69.4.231.53	24.6.173.220	TCP	80 → 12595 [ACK] Seq=1 Ack=2 Win=14 Len=0
9	0.000003	69.4.231.53	24.6.173.220	TCP	80 → 12594 [ACK] Seq=1 Ack=2 Win=14 Len=0
10	0.000010	69.4.231.53	24.6.173.220	TCP	80 → 12591 [ACK] Seq=1 Ack=2 Win=14 Len=0
11	0.000006	69.4.231.53	24.6.173.220	TCP	80 → 12607 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460
12	0.000289	24.6.173.220	69.4.231.53	TCP	12607 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
13	0.001095	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/ HTTP/1.1
14	0.029099	69.4.231.53	24.6.173.220	TCP	80 → 12592 [ACK] Seq=1 Ack=2 Win=17 Len=0
15	0.064374	69.4.231.53	24.6.173.220	TCP	80 → 12607 [ACK] Seq=1 Ack=641 Win=7168 Len=0
16	18.096205	24.6.173.220	69.4.231.53	TCP	12607 → 80 [FIN, ACK] Seq=641 Ack=1 Win=65700 Len=0
17	0.008281	24.6.173.220	69.4.231.53	TCP	12608 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK
18	0.100442	69.4.231.53	24.6.173.220	TCP	80 → 12608 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460
19	0.000198	24.6.173.220	69.4.231.53	TCP	12607 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
20	0.001125	24.6.173.220	69.4.231.53	HTTP	HTTP/1.1
21	0.026921	69.4.231.53	24.6.173.220	TCP	80 → 12607 [ACK] Seq=1 Ack=641 Win=7168 Len=0
22	0.061951	69.4.231.53	24.6.173.220	TCP	80 → 12607 [ACK] Seq=1 Ack=641 Win=7168 Len=0
23	17.965049	69.4.231.53	24.6.173.220	TCP	80 → 12608 [ACK] Seq=1 Ack=1 Win=65700 Len=0

The packet details pane for packet 23 shows the following information:

- Internet Protocol Version 4, Src: 24.6.173.220, Dst: 69.4.231.53
- Transmission Control Protocol, Src Port: 12592, Dst Port: 80
  - [Stream index: 0]
  - [TCP Segment Len: 0]
  - Sequence number: 1 (relative sequence number)
  - Sequence number (raw): 1849108684
  - [Next sequence number: 2 (relative sequence number)]
  - Acknowledgment number: 1 (relative acknowledgment number)
  - Acknowledgment number (raw): 3460237965
  - 0101 ... = Header Length: 20 bytes (5)
  - Flags: 0x011 (FIN, ACK)
  - Window size value: 16322
  - [Calculated window size: 16322]
  - [Window size scaling factor: -1 (unknown)]
  - Checksum: 0xf236 [unverified]
  - [Checksum Status: Unverified]
  - Urgent pointer: 0
- [Timestamps]
  - [Time since first frame in this TCP stream: 0.00000000 seconds]
  - [Time since previous frame in this TCP stream: 0.00000000 seconds]

The packet bytes pane shows the raw data of the packet:

```

0000  00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00  ..\1....d.....E.
0010  00 28 59 68 40 00 80 06 00 00 18 06 ad dc 45 04  .(Yh....E.
0020  e7 35 31 30 00 50 6e 37 28 cc ce 3f 0a 8d 50 11  .510.Pn7 (...P.
0030  3f c2 f2 36 00 00                                     ?..6..
  
```

The status bar at the bottom shows: Time delta from previous frame in this TCP stream (tcp.time\_delta) | Packets: 1101 · Displayed: 1101 (100.0%) | Profile: wireshark101

## Paso 6:

The image shows the Wireshark network protocol analyzer interface. The main display filter is set to **TCP Delta**. The packet list shows a selected packet (packet 1) with details expanded, showing the TCP segment structure. The packet details include:

- Internet Protocol Version 4, Src: 24.6.173.220, Dst: 69.4.231.53
- Transmission Control Protocol, Src Port: 12592, Dst Port: 80, Seq: 1, Ack: 1, Len: 0
  - Source Port: 12592
  - Destination Port: 80
  - [Stream index: 0]
  - [TCP Segment Len: 0]
  - Sequence number: 1 (relative sequence number)
  - Sequence number (raw): 1849108684
  - [Next sequence number: 2 (relative sequence number)]
  - Acknowledgment number: 1 (relative ack number)
  - Acknowledgment number (raw): 3460237965
  - 0101 .... = Header Length: 20 bytes (5)
  - Flags: 0x011 (FIN, ACK)
  - Window size value: 16322
  - [Calculated window size: 16322]
  - [Window size scaling factor: -1 (unknown)]
  - Checksum: 0xf236 [unverified]
  - [Checksum Status: Unverified]
  - Urgent pointer: 0
  - [Timestamps]
    - [Time since first frame in this TCP stream: 0.00000000 seconds]
    - [Time since previous frame in this TCP stream: 0.00000000 seconds]

The packet bytes pane shows the raw data of the selected packet:

```
0000 00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00  ..\1..d...E
0010 00 28 59 68 40 00 80 06 00 00 18 06 ad dc 45 04  .(Yh@...E
0020 e7 35 31 30 00 50 6e 37 28 cc ce 3f 0a 8d 50 11  .510Pn7 (...P
0030 3f c2 f2 36 00 00  ?..6..
```

The status bar at the bottom indicates: **Packets: 1101 · Displayed: 1101 (100.0%)** and **Profile: wireshark101**.



## Paso 7:

http-slow101.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

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

No.	Time	TCP Delta	Source	Destination	Protocol	Info
354	118.195308	118.19	24.6.173.220	69.4.231.53	TCP	12609 → 80 [FIN, ACK] Seq=1971 Ack=1512
210	29.006113	41.64	24.6.173.220	69.4.231.53	HTTP	HTTP/1.1 200 OK (text/html)
34	0.006965	36.357656000	24.6.173.220	69.4.231.53	HTTP	HTTP/1.1 200 OK (text/html)
16	18.096205	18.096205000	24.6.173.220	69.4.231.53	TCP	12607 → 80 [FIN, ACK] Seq=641 Ack=1 Win=64
30	0.015479	18.052142000	24.6.173.220	69.4.231.53	HTTP	HTTP/1.1 200 OK (text/html)
23	17.965049	17.965049000	24.6.173.220	69.4.231.53	HTTP	HTTP/1.1 200 OK (text/html)
204	0.512248	14.907886000	24.6.173.220	69.4.231.53	TCP	80 → 12608 [FIN, ACK] Seq=169490 Ack=64
202	1.115240	14.812617000	24.6.173.220	69.4.231.53	TCP	80 → 12610 [FIN, ACK] Seq=767 Ack=627 W
1098	14.745399	14.745399000	24.6.173.220	69.4.231.53	TCP	80 → 12621 [FIN, ACK] Seq=846303 Ack=67
1100	14.381621	14.381621000	24.6.173.220	69.4.231.53	TCP	12621 → 80 [FIN, ACK] Seq=672 Ack=84630
200	13.189802	13.743938000	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/epan/ HTTP/1.1
207	0.000126	11.429253000	24.6.173.220	69.4.231.53	TCP	12610 → 80 [FIN, ACK] Seq=627 Ack=768 W
206	10.916739	10.916739000	24.6.173.220	69.4.231.53	TCP	12608 → 80 [FIN, ACK] Seq=641 Ack=16949
352	9.771177	9.771177000	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/epan/dissectors/
365	3.085901	5.498980000	24.6.173.220	69.4.231.53	HTTP	HTTP/1.1 200 OK (text/html)
361	2.411608	2.474089000	24.6.173.220	69.4.231.53	HTTP	HTTP/1.1 200 OK (text/html)
113	0.036049	0.198088000	24.6.173.220	69.4.231.53	TCP	12610 → 80 [ACK] Seq=627 Ack=767 Win=64
90	0.061081	0.195158000	24.6.173.220	69.4.231.53	TCP	12609 → 80 [ACK] Seq=645 Ack=545 Win=65
21	0.026921	0.136967000	24.6.173.220	69.4.231.53	TCP	80 → 12607 [ACK] Seq=1 Ack=642 Win=7168
14	0.029099	0.130304000	24.6.173.220	69.4.231.53	TCP	80 → 12592 [ACK] Seq=1 Ack=2 Win=17 Len=
359	0.026930	0.120314000	24.6.173.220	69.4.231.53	TCP	80 → 12609 [ACK] Seq=151255 Ack=1972 Wi
227	0.120264	0.120264000	24.6.173.220	69.4.231.53	HTTP	Continuation
219	0.105283	0.105283000	24.6.173.220	69.4.231.53	HTTP	Continuation

> Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)

> Internet Protocol Version 4, Src: 24.6.173.220, Dst: 69.4.231.53

▼ Transmission Control Protocol, Src Port: 12592, Dst Port: 80, Seq: 1, Ack: 1, Len: 0

Source Port: 12592  
Destination Port: 80  
[Stream index: 0]  
[TCP Segment Len: 0]  
Sequence number: 1 (relative sequence number)  
Sequence number (raw): 1849108684  
[Next sequence number: 2 (relative sequence number)]  
Acknowledgment number: 1 (relative ack number)  
Acknowledgment number (raw): 3460237965  
0101 .... = Header Length: 20 bytes (5)

> Flags: 0x011 (FIN, ACK)  
Window size value: 16322  
[Calculated window size: 16322]  
[Window size scaling factor: -1 (unknown)]  
Checksum: 0xf236 [unverified]  
[Checksum Status: Unverified]  
Urgent pointer: 0

▼ [Timestamps]  
[Time since first frame in this TCP stream: 0.00000000 seconds]

```

0000 00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00  ..\1.... d.....E.
0010 00 28 59 68 40 00 80 06 00 00 18 06 ad dc 45 04  .(Yh@.....E.
0020 e7 35 31 30 00 50 6e 37 28 cc ce 3f 0a 8d 50 11  .510·Pn7 (·?·P·
0030 3f c2 f2 36 00 00                                ?·6..

```

http-slow101.pcapng | Packets: 1101 · Displayed: 1101 (100.0%) | Profile: wireshark101

## Paso 8:

http-slow101.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

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

No.	Time	TCP Delta	Source	Destination	Protocol	Info
1	0.000000	0.000000000	24.6.173.220	69.4.231.53	TCP	12592 → 80 [FIN, ACK] Seq=1 Ack=1 Win=1
2	0.003434	0.000000000	24.6.173.220	69.4.231.53	TCP	12591 → 80 [FIN, ACK] Seq=1 Ack=1 Win=1
3	0.000065	0.000000000	24.6.173.220	69.4.231.53	TCP	12595 → 80 [FIN, ACK] Seq=1 Ack=1 Win=1
4	0.000035	0.000000000	24.6.173.220	69.4.231.53	TCP	12590 → 80 [FIN, ACK] Seq=1 Ack=1 Win=1
5	0.000034	0.000000000	24.6.173.220	69.4.231.53	TCP	12594 → 80 [FIN, ACK] Seq=1 Ack=1 Win=1
6	0.000334	0.000000000	24.6.173.220	69.4.231.53	TCP	12607 → 80 [SYN] Seq=0 Win=8192 Len=0 M
7	0.095042	0.095410000	69.4.231.53	24.6.173.220	TCP	80 → 12590 [ACK] Seq=1 Ack=2 Win=24 Len
8	0.000858	0.096303000	69.4.231.53	24.6.173.220	TCP	80 → 12595 [ACK] Seq=1 Ack=2 Win=14 Len
9	0.000003	0.096237000	69.4.231.53	24.6.173.220	TCP	80 → 12594 [ACK] Seq=1 Ack=2 Win=14 Len
10	0.000010	0.096381000	69.4.231.53	24.6.173.220	TCP	80 → 12591 [ACK] Seq=1 Ack=2 Win=14 Len
11	0.000006	0.095919000	69.4.231.53	24.6.173.220	TCP	80 → 12607 [SYN, ACK] Seq=0 Ack=1 Win=5
12	0.000289	0.000289000	24.6.173.220	69.4.231.53	TCP	12607 → 80 [ACK] Seq=1 Ack=1 Win=65700
13	0.001095	0.001095000	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/ HTTP/1.1
14	0.029099	0.130304000	69.4.231.53	24.6.173.220	TCP	80 → 12592 [ACK] Seq=1 Ack=2 Win=17 Len
15	0.064374	0.093473000	69.4.231.53	24.6.173.220	TCP	80 → 12607 [ACK] Seq=1 Ack=641 Win=7168
16	18.096205	18.096205000	24.6.173.220	69.4.231.53	TCP	12607 → 80 [FIN, ACK] Seq=641 Ack=1 Win
17	0.008281	0.000000000	24.6.173.220	69.4.231.53	TCP	12608 → 80 [SYN] Seq=0 Win=8192 Len=0 M
18	0.100442	0.100442000	69.4.231.53	24.6.173.220	TCP	80 → 12608 [SYN, ACK] Seq=0 Ack=1 Win=5
19	0.000198	0.000198000	24.6.173.220	69.4.231.53	TCP	12608 → 80 [ACK] Seq=1 Ack=1 Win=65700
20	0.001125	0.001125000	24.6.173.220	69.4.231.53	HTTP	GET /viewvc/trunk-1.6/ HTTP/1.1
21	0.026921	0.136967000	69.4.231.53	24.6.173.220	TCP	80 → 12607 [ACK] Seq=1 Ack=642 Win=7168
22	0.061951	0.088872000	69.4.231.53	24.6.173.220	TCP	80 → 12608 [ACK] Seq=1 Ack=641 Win=7168
23	17.965049	17.965049000	69.4.231.53	24.6.173.220	HTTP	HTTP/1.1 200 OK (text/html)

> Ethernet II, Src: HewlettP\_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadant\_31:bb:c1 (00:01:5c:31:bb:c1)

> Internet Protocol Version 4, Src: 24.6.173.220, Dst: 69.4.231.53

▼ Transmission Control Protocol, Src Port: 12592, Dst Port: 80, Seq: 1, Ack: 1, Len: 0

Source Port: 12592  
Destination Port: 80  
[Stream index: 0]  
[TCP Segment Len: 0]  
Sequence number: 1 (relative sequence number)  
Sequence number (raw): 1849108684  
[Next sequence number: 2 (relative sequence number)]  
Acknowledgment number: 1 (relative ack number)  
Acknowledgment number (raw): 3460237965  
0101 .... = Header Length: 20 bytes (5)

> Flags: 0x011 (FIN, ACK)  
Window size value: 16322  
[Calculated window size: 16322]  
[Window size scaling factor: -1 (unknown)]  
Checksum: 0xf236 [unverified]  
[Checksum Status: Unverified]  
Urgent pointer: 0

▼ [Timestamps]  
[Time since first frame in this TCP stream: 0.00000000 seconds]

```

0000 00 01 5c 31 bb c1 d4 85 64 a7 bf a3 08 00 45 00  ..\....d.....E.
0010 00 28 59 68 40 00 80 06 00 00 18 06 ad dc 45 04  .(Yh@.....E.
0020 e7 35 31 30 00 50 6e 37 28 cc ce 3f 0a 8d 50 11  .510.Pn7 (...?..P.
0030 3f c2 f2 36 00 00                                ?..6..

```

http-slow101.pcapng | Packets: 1101 · Displayed: 1101 (100.0%) | Profile: wireshark101