

The image shows a Wireshark capture of an IPv6 TCP SYN packet. The packet list pane displays the following information for frame 46:

No.	Time	Source	Destination	Protocol	Length	Info
46	325.030792	2001:6f8:102d:0:2d0:9ff:fee3:e8de	2001:6f8:900:7c0::2	TCP	94	59201 > http [SYN] Seq=0 win=5760 Len=0 M
47	325.030878	2001:6f8:900:7c0::2	2001:6f8:102d:0:2d0:9ff:fee3:e8de	TCP	82	http > 59201 [SYN, ACK] Seq=0 Ack=1 win=6
48	325.031166	2001:6f8:102d:0:2d0:9ff:fee3:e8de	2001:6f8:900:7c0::2	TCP	74	59201 > http [ACK] Seq=1 Ack=1 win=5760 L
49	325.040411	2001:6f8:102d:0:2d0:9ff:fee3:e8de	2001:6f8:900:7c0::2	HTTP	314	GET / HTTP/1.0
50	325.045496	2001:6f8:900:7c0::2	2001:6f8:102d:0:2d0:9ff:fee3:e8de	TCP	1506	[TCP segment of a reassembled PDU]
51	325.045525	2001:6f8:900:7c0::2	2001:6f8:102d:0:2d0:9ff:fee3:e8de	HTTP	901	HTTP/1.1 200 OK (text/html)

The packet details pane for frame 46 shows the following structure:

- Frame 46: 94 bytes on wire (752 bits), 94 bytes captured (752 bits)
- Ethernet II, Src: HsingTec_e3:e8:de (00:d0:09:e3:e8:de), Dst: Ibm_82:95:b5 (00:11:25:82:95:b5)
- Internet Protocol Version 6, Src: 2001:6f8:102d:0:2d0:9ff:fee3:e8de (2001:6f8:102d:0:2d0:9ff:fee3:e8de), Dst: 2001:6f8:900:7c0::2 (2001:6f8:900:7c0::2)
 - 0110 = Version: 6
 - 0000 0000 = Traffic class: 0x00000000
 - 0000 0000 0000 0000 0000 0000 = Flowlabel: 0x00000000
 - Payload length: 40
 - Next header: TCP (6)
 - Hop limit: 64
 - Source: 2001:6f8:102d:0:2d0:9ff:fee3:e8de (2001:6f8:102d:0:2d0:9ff:fee3:e8de)
 - [Source SA MAC: HsingTec_e3:e8:de (00:d0:09:e3:e8:de)]
 - Destination: 2001:6f8:900:7c0::2 (2001:6f8:900:7c0::2)
 - [Source GeoIP: Unknown]
 - [Destination GeoIP: Unknown]
- Transmission Control Protocol, Src Port: 59201 (59201), Dst Port: http (80), Seq: 0, Len: 0

The packet bytes pane shows the raw hex and ASCII data for the packet:

```

0000  00 11 25 82 95 b5 00 d0 09 e3 e8 de 86 dd 60 00  ..%.
0010  00 00 00 28 06 40 20 01 06 f8 10 2d 00 00 02 d0  ..(.@
0020  09 ff fe e3 e8 de 20 01 06 f8 09 00 07 c0 00 00  ..-...
0030  00 00 00 00 00 02 e7 41 00 50 ab dc d6 60 00 00  ..A.P
0040  00 00 a0 02 16 80 41 a2 00 00 02 04 05 a0 04 02  ..A.
0050  08 0a 00 0a 22 a8 00 00 00 00 01 03 03 05  .."
  
```

La captura 1 muestra el contenido del paquete número 46 en esta captura de muestra. El paquete contiene el mensaje inicial del protocolo TCP de enlace de tres vías entre un host IPv6 y un servidor IPv6. Observe los valores en la sección expandida del encabezado de IPv6. Observe, además, que se trata de un paquete TCP y que no contiene más información más allá de la sección TCP.

The image shows a Wireshark capture of an IPv6 HTTP GET request. The packet list pane shows the following packets:

No.	Time	Source	Destination	Protocol	Length	Info
47	325.030878	2001:6f8:900:7c0::2	2001:6f8:102d:0:2d0:9ff:fee3:e8de	TCP	82	http > 59201 [SYN, ACK] Seq=0 Ack=1 win=6
48	325.031166	2001:6f8:102d:0:2d0:9ff:fee3:e8de	2001:6f8:900:7c0::2	TCP	74	59201 > http [ACK] Seq=1 Ack=1 win=5760 L
49	325.040411	2001:6f8:102d:0:2d0:9ff:fee3:e8de	2001:6f8:900:7c0::2	HTTP	314	GET / HTTP/1.0
50	325.045496	2001:6f8:900:7c0::2	2001:6f8:102d:0:2d0:9ff:fee3:e8de	TCP	1506	[TCP segment of a reassembled PDU]
51	325.045525	2001:6f8:900:7c0::2	2001:6f8:102d:0:2d0:9ff:fee3:e8de	HTTP	901	HTTP/1.1 200 OK (text/html)
52	325.045627	2001:6f8:900:7c0::2	2001:6f8:102d:0:2d0:9ff:fee3:e8de	TCP	74	http > 59201 [FIN, ACK] Seq=2260 Ack=241

The packet details pane for frame 49 shows the following structure:

- Internet Protocol Version 6, Src: 2001:6f8:102d:0:2d0:9ff:fee3:e8de (2001:6f8:102d:0:2d0:9ff:fee3:e8de), Dst: 2001:6f8:900:7c0::2 (2001:6f8:900:7c0::2)
 - 0110 = Version: 6
 - 0000 0000 = Traffic class: 0x00000000
 - 0000 0000 0000 0000 0000 0000 = Flowlabel: 0x00000000
 - Payload length: 260
 - Next header: TCP (6)
 - Hop limit: 64
 - Source: 2001:6f8:102d:0:2d0:9ff:fee3:e8de (2001:6f8:102d:0:2d0:9ff:fee3:e8de)
 - [Source SA MAC: HsingTec_e3:e8:de (00:d0:09:e3:e8:de)]
 - Destination: 2001:6f8:900:7c0::2 (2001:6f8:900:7c0::2)
 - [Source GeoIP: Unknown]
 - [Destination GeoIP: Unknown]
- Transmission Control Protocol, Src Port: 59201 (59201), Dst Port: http (80), Seq: 1, Ack: 1, Len: 240
- Hypertext Transfer Protocol

The packet bytes pane shows the raw data of the packet, including the IPv6 header and the beginning of the HTTP GET request:

```

0000  00 11 25 82 95 b5 00 d0 09 e3 e8 de 86 dd 60 00  ..%. .... .
0010  00 00 01 04 06 40 20 01 06 f8 10 2d 00 00 02 d0  ....@ . . . .
0020  09 ff fe e3 e8 de 20 01 06 f8 09 00 07 c0 00 00  . . . . .
0030  00 00 00 00 00 02 e7 41 00 50 ab dc d6 61 01 4a  . . . . .A .P. .a.J
0040  73 9f 50 18 16 80 f4 48 00 00 47 45 54 20 2f 20  s.P. . . .H ..GET /
0050  48 54 54 50 2f 31 2e 30 0d 0a 48 6f 73 74 3a 20  HTTP/1.0 ..Host:
0060  63 6c 2d 31 39 38 35 2e 68 61 6d 2d 30 31 2e 64  cl-1985. ham-01.d
0070  65 2e 73 69 78 78 73 2e 6e 65 74 0d 0a 41 63 63  e.sixxs. net..Acc
  
```

La captura 2 muestra el contenido del paquete número 49 en esta captura de muestra. El paquete contiene el mensaje GET inicial del protocolo de transferencia de hipertexto (HTTP) para el servidor. Observe que se trata de un paquete HTTP y que ahora contiene información más allá de la sección TCP.

Wireshark 1.8.2 (SVN Rev 44520 from /trunk-1.8) - v6-http.cap

Filter: Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	fe80::211:25ff:fe82:95b5	ff02::1:ff82:95b5	ICMPv6	86	Neighbor solicitation for 2001:6f8:102d:0...
2	0.999613	fe80::211:25ff:fe82:95b5	ff02::1:ff82:95b5	ICMPv6	86	Neighbor solicitation for 2001:6f8:102d:0...
3	1.999505	fe80::211:25ff:fe82:95b5	ff02::1:ff82:95b5	ICMPv6	86	Neighbor solicitation for 2001:6f8:102d:0...
4	18.895689	fe80::2d0:9ff:fee3:e8de	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
5	19.315577	::	ff02::1:ff98:6e1	ICMPv6	78	Neighbor solicitation for 2001:6f8:102d:0...
6	20.446065	2001:6f8:102d:0:1033:c4c:7e:ff02::fb		MDNS	211	Standard query 0x0000 ANY 1.e.6.0.8.9.e...
7	20.447313	2001:6f8:102d:0:1033:c4c:7e:ff02::fb		MDNS	102	Standard query response 0x0000 HTNS...

Frame 1: 86 bytes on wire (688 bits), 86 bytes captured (688 bits)

Ethernet II, Src: Ibm_82:95:b5 (00:11:25:82:95:b5), Dst: IPv6mcast_ff:82:95:b5 (33:33:ff:82:95:b5)

Internet Protocol Version 6, Src: fe80::211:25ff:fe82:95b5 (fe80::211:25ff:fe82:95b5), Dst: ff02::1:ff82:95b5 (ff02::1:ff82:95b5)

- 0110 = Version: 6
- 0000 0000 = Traffic class: 0x00000000
- 0000 0000 0000 0000 0000 0000 = Flowlabel: 0x00000000
- Payload length: 32
- Next header: ICMPv6 (58)
- Hop limit: 255
- Source: fe80::211:25ff:fe82:95b5 (fe80::211:25ff:fe82:95b5)
- [Source SA MAC: Ibm_82:95:b5 (00:11:25:82:95:b5)]
- Destination: ff02::1:ff82:95b5 (ff02::1:ff82:95b5)
- [Source GeoIP: Unknown]
- [Destination GeoIP: Unknown]

Internet Control Message Protocol v6

```

0000  33 33 ff 82 95 b5 00 11 25 82 95 b5 86 dd 60 00  33.....%.....
0010  00 00 00 20 3a ff fe 80 00 00 00 00 00 02 11  ..%.....
0020  25 ff fe 82 95 b5 ff 02 00 00 00 00 00 00 00  %.....
0030  00 01 ff 82 95 b5 87 00 79 e6 00 00 00 00 20 01  ..y.....
0040  06 f8 10 2d 00 00 02 11 25 ff fe 82 95 b5 01 01  ..-%.....
0050  00 11 25 82 95 b5  ..%...

```

Internet Protocol Version 6 (IPv6), 40 bytes | Packets: 55 Displayed: 55 Mark... | Profile: Default

La captura 3 muestra el contenido del paquete número 1 en esta captura de muestra. El paquete de muestra es un mensaje ICMPv6 de solicitud de vecino. Observe que no hay información de TCP o UDP.