

## LAB 8. Phân tích gói tin WireShark

### I. Yêu cầu:

- Nắm được các kiểu định dạng gói tin: TCP, UDP, telnet, internet frame, ipv6
- Nắm được kỹ thuật bắt và phân tích các gói tin trên bằng WireShark.

### Chuẩn bị

- Bài LAB sử dụng 1 máy Windows 7
- Bảo đảm đường truyền internet đã thông.
- Đổi password của Administrator máy Windows 7 là abc@123
- Cài đặt sẵn phần mềm Wireshark

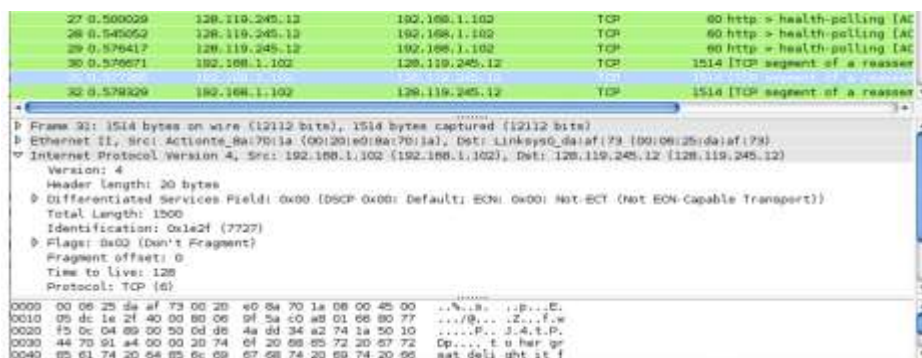
### IV. Triển khai

#### 1. Phân tích gói tin TCP

- Sử dụng trình duyệt, download tập tin <http://gaia.cs.umass.edu/wireshark-labs/alice.txt>
- Truy xuất trang <http://gaia.cs.umass.edu/wireshark-labs/TCP-wireshark-file1.html>

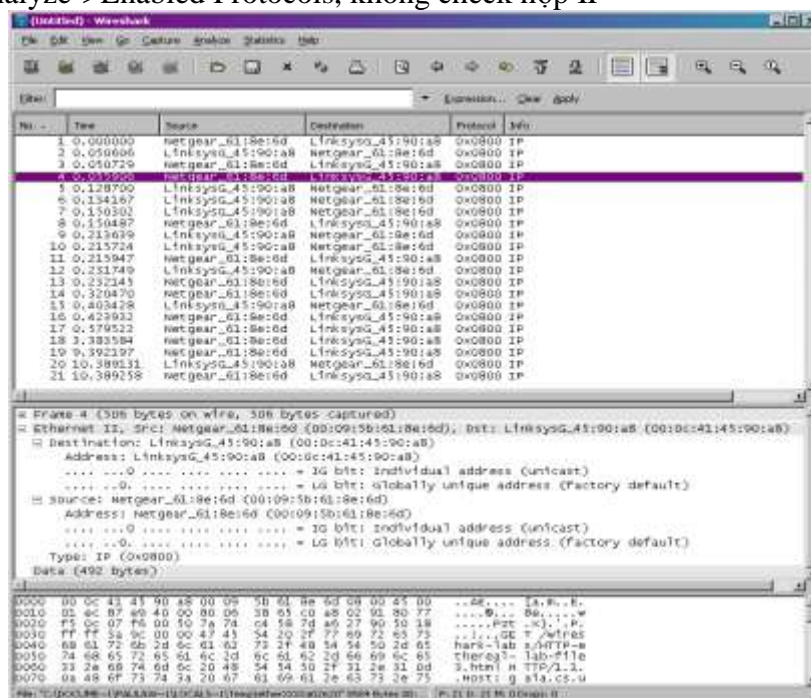


- Nhấp nút Browse, chọn file vừa download alice.txt.
- Khởi động Wireshark và chọn Capture > Start để bắt đầu bắt gói.
- Trở lại trình duyệt, nhấp nút “Upload alice.txt file” để upload file tới server [gaia.cs.umass.edu](http://gaia.cs.umass.edu). Một thông báo chúc mừng sẽ được hiển thị trên cửa sổ trình duyệt khi file upload thành công.
- Dừng việc bắt gói Wireshark và tiến hành phân tích các gói tin TCP.



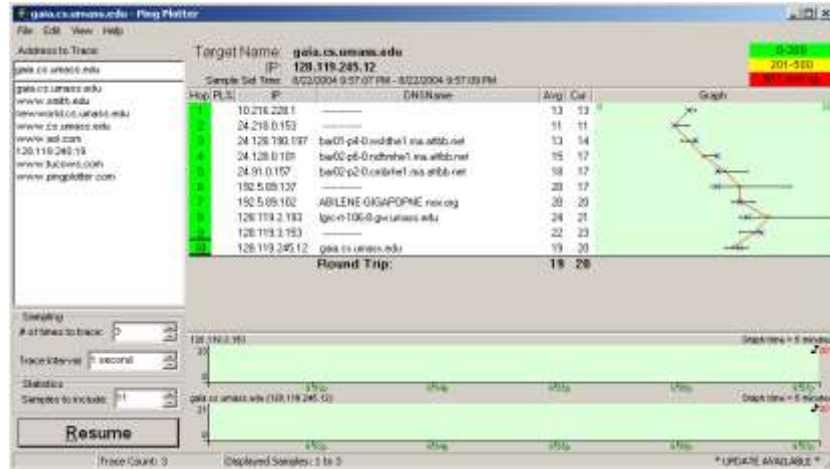
## 2. Phân tích gói tin Internet Frame

- Xóa trống cache trình duyệt (*Tools->Internet Options->Delete Files*).
- Khởi động Wireshark packet sniffer
- Truy xuất trang <http://gaia.cs.umass.edu/wireshark-labs/HTTP-ethereal-lab-file3.html>
- Dừng bắt gói Wireshark. Tìm các gói tin HTTP GET được gửi từ máy bạn tới [gaia.cs.umass.edu](http://gaia.cs.umass.edu), và các gói tin HTTP response gửi từ [gaia.cs.umass.edu](http://gaia.cs.umass.edu) tới máy của bạn.
- Chọn Analyze->Enabled Protocols, không check hộp IP



## 3. Phân tích gói tin IP

- Khởi động Wireshark và bắt đầu bắt gói tin.
- Khởi động *pingplotter* và nhập tên [www.huflit.edu.vn](http://www.huflit.edu.vn) trong mục “Address to Trace Window.” Nhập số 3 vào field “# of times to Trace”.
- Chọn lệnh *Edit->Advanced Options->Packet Options* và nhập vào giá trị 56 trong field *Packet Size* và nhấn OK. Nhấn nút Trace.



- Kế tiếp, gửi 1 bộ datagrams với chiều dài 2000, bằng cách chọn *Edit->Advanced Options->Packet Options*, nhập giá trị 2000 trong field *Packet Size*. Xong nhấn OK, rồi nhấn nút Resume.
- Cuối cùng, gửi 1 bộ datagrams với chiều dài 3500, bằng cách chọn *Edit->Advanced Options->Packet Options*, nhập giá trị 2000 trong field *Packet Size*. Xong nhấn OK, rồi nhấn nút Resume.
- Dừng việc bắt gói tin Wireshark.
- Phân tích gói tin ICMP Echo Request đầu tiên đã bắt được.

#### 4. Phân tích gói tin UDP:

- Bắt đầu bắt các gói tin trong Wireshark và thực hiện lệnh nslookup [www.huflit.edu.vn](http://www.huflit.edu.vn).
- Dừng việc bắt gói tin. Tiến hành lọc các gói tin UDP đã gửi và nhận được trên host của bạn. Chọn một gói tin UDP và phân tích chi tiết.

## V. Ví dụ:

- a. Phân tích gói tin HTTP

No.	Time	Source	Destination	Protocol	Length	Info
2834	9.632886	fe80::31da:dba9:be8...	fe80::81c2:baa0:d39...	HTTP	1180	HTTP/1.1 200 OK (PNG)
3459	12.053980	128.119.245.12	172.16.1.56	HTTP	845	HTTP/1.1 200 OK (text/html)
1262	4.315514	fe80::31da:dba9:be8...	fe80::81c2:baa0:d39...	HTTP/X...	116	HTTP/1.1 200 OK

Date: Wed, 21 Nov 2018 04:00:02 GMT\r\n\r\n[HTTP response 1/1]  
[Time since request: 0.003317000 seconds]  
[\[Request in frame: 2827\]](#)  
File Data: 5426 bytes

Portable Network Graphics

0000	48 54 54 50 2f 31 2e 31	20 32 30 30 20 4f 4b 0d	HTTP/1.1 200 OK
0010	0a 43 6f 6e 74 65 6e 74	2d 4c 65 6e 67 74 68 3a	Content-Length:
0020	20 35 34 32 36 0d 0a 43	6f 6e 74 65 6e 74 2d 54	5426Content-Type:
0030	79 70 65 3a 20 69 6d 61	67 65 2f 70 6e 67 0d 0a	image/pngServer:
0040	53 65 72 76 65 72 3a 20	4d 69 63 72 6f 73 6f 66	Microsoft-Window
0050	74 2d 57 69 6e 64 6f 77	73 2d 4e 54 2f 35 2e 31	s-NT/5.1UPnP/1.0
0060	20 55 50 6e 50 2f 31 2e	30 20 55 50 6e 50 2d 44	UPnP-Device-Host/1.0
0070	65 76 69 63 65 2d 48 6f	73 74 2f 31 2e 30 20 4d	Microsoft-HTTPAPI
0080	69 63 72 6f 73 6f 66 74	2d 48 54 54 50 41 50 49	/2.0Date: Wed,
0090	2f 32 2e 30 0d 0a 44 61	74 65 3a 20 57 65 64 2c	21 Nov 2018 04:
00a0	20 32 31 20 4e 6f 76 20	32 30 31 38 20 30 34 3a	00:02 GMT-----PN
00b0	30 30 3a 30 32 20 47 4d	54 0d 0a 0d 0a 89 50 4e	G.....IHDR...
00c0	47 0d 0a 1a 0a 00 00 00	0d 49 48 44 52 00 00 00	

No.	Time	Source	Destination	Protocol	Length	Info
2834	9.632886	fe80::31da:dba9:be8...	fe80::81c2:baa0:d39...	HTTP	1180	HTTP/1.1 200 OK (PNG)
3459	12.053980	128.119.245.12	172.16.1.56	HTTP	845	HTTP/1.1 200 OK (text/html)
1262	4.315514	fe80::31da:dba9:be8...	fe80::81c2:baa0:d39...	HTTP/X...	116	HTTP/1.1 200 OK

Frame 2834: 1180 bytes on wire (9440 bits), 1180 bytes captured (9440 bits) on interface 0  
Ethernet II, Src: HewlettP\_ee:7f:9b (a0:8c:fd:ee:7f:9b), Dst: HewlettP\_33:a3:d8 (ec:b1:d7:33:a3:d8)  
Internet Protocol Version 6, Src: fe80::31da:dba9:be88:84d2, Dst: fe80::81c2:baa0:d396:9aab  
Transmission Control Protocol, Src Port: 2869, Dst Port: 49572, Seq: 4510, Ack: 208, Len: 1106  
Source Port: 2869  
Destination Port: 49572  
[Stream index: 12]  
[TCP Segment Len: 1106]  
Sequence number: 4510 (relative sequence number)  
[Next sequence number: 5616 (relative sequence number)]  
Acknowledgment number: 208 (relative ack number)  
0101 .... = Header Length: 20 bytes (5)  
Flags: 0x018 (PSH, ACK)  
Window size value: 258  
[Calculated window size: 66048]  
[Window size scaling factor: 256]  
Checksum: 0x1773 [unverified]  
[Checksum Status: Unverified]  
Urgent pointer: 0  
[SEQ/ACK analysis]  
[Timestamps]  
TCP payload (1106 bytes)  
TCP segment data (1106 bytes)  
[5 Reassembled TCP Segments (5615 bytes): #2829(189), #2830(1440), #2832(1440), #2833(1440), #2834(1106)]

Hypertext Transfer Protocol

HTTP/1.1 200 OK\r\n  
Content-Length: 5426\r\n  
Content-Type: image/png\r\n  
Server: Microsoft-Windows-NT/5.1 UPnP/1.0 UPnP-Device-Host/1.0 Microsoft-HTTPAPI/2.0\r\n  
Date: Wed, 21 Nov 2018 04:00:02 GMT\r\n\r\n[HTTP response 1/1]

No.	Time	Source	Destination	Protocol	Length	Info
2834	9.632886	fe80::31da:ba9:be8...	fe80::81c2:baa0:d39...	HTTP	1180	HTTP/1.1 200 OK (PNG)
3459	12.053980	128.119.245.12	172.16.1.56	HTTP	845	HTTP/1.1 200 OK (text/html)
1262	4.315514	fe80::31da:ba9:be8...	fe80::81c2:baa0:d39...	HTTP/X...	116	HTTP/1.1 200 OK

```

  ▸ Flags: 0x018 (PSH, ACK)
    Window size value: 258
    [Calculated window size: 66048]
    [Window size scaling factor: 256]
    Checksum: 0x1773 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
  ▸ [SEQ/ACK analysis]
  ▸ [Timestamps]
    TCP payload (1106 bytes)
    TCP segment data (1106 bytes)
  ▸ [5 Reassembled TCP Segments (5615 bytes): #2829(189), #2830(1440), #2832(1440), #2833(1440), #2834(1106)]

```

- Hypertext Transfer Protocol

```

> HTTP/1.1 200 OK\r\n
> Content-Length: 5426\r\n
> Content-Type: image/png\r\n
> Server: Microsoft-Windows-NT/5.1 UPnP/1.0 UPnP-Device-Host/1.0 Microsoft-HTTPAPI/2.0\r\n
> Date: Wed, 21 Nov 2018 04:00:02 GMT\r\n
> \r\n
[HTTP response 1/1]
[Time since request: 0.003317000 seconds]
[Request in frame: 2827]
File Data: 5426 bytes

```

- Portable Network Graphics

- ▶ PNG Signature: 89504e470d0a1a0a
- ▶ Image Header (IHDR)
- ▶ Physical pixel dimensions (pHYs)
- ▶ Embedded ICC profile (iCCP)
- ▶ Primary chromaticities and white point (cHRM)
- ▶ Image data chunk (IDAT)
- ▶ Image Trailer (IEND)

[illegible]

## Phân tích gói tin TCP

1797	6.295415	172.16.1.56	128.119.245.12	TCP	54	49318	→ 80	[FIN, ACK] Seq=1 Ack=1 Win=64240 Len=0
1798	6.295548	172.16.1.56	128.119.245.12	TCP	54	49438	→ 80	[FIN, ACK] Seq=1 Ack=1 Win=64240 Len=0
1799	6.295615	172.16.1.56	113.171.239.207	TCP	54	49362	→ 80	[FIN, ACK] Seq=1 Ack=1 Win=64240 Len=0
1800	6.295679	172.16.1.56	216.58.220.206	TCP	54	49361	→ 80	[FIN, ACK] Seq=1 Ack=1 Win=63068 Len=0
1801	6.296094	128.119.245.12	172.16.1.56	TCP	60	80	→ 49318	[ACK] Seq=1 Ack=2 Win=64240 Len=0
1802	6.296096	128.119.245.12	172.16.1.56	TCP	60	80	→ 49318	[FIN, ACK] Seq=1 Ack=2 Win=64240 Len=0
1803	6.296113	128.119.245.12	172.16.1.56	TCP	60	80	→ 49438	[ACK] Seq=1 Ack=2 Win=64240 Len=0
1804	6.296115	113.171.239.207	172.16.1.56	TCP	60	80	→ 49362	[ACK] Seq=1 Ack=2 Win=64240 Len=0
1805	6.296116	128.119.245.12	172.16.1.56	TCP	60	80	→ 49438	[FIN, ACK] Seq=1 Ack=2 Win=64240 Len=0
1806	6.296116	113.171.239.207	172.16.1.56	TCP	60	80	→ 49362	[FIN, ACK] Seq=1 Ack=2 Win=64240 Len=0
1807	6.296128	216.58.220.206	172.16.1.56	TCP	60	80	→ 49361	[ACK] Seq=1 Ack=2 Win=64240 Len=0
1808	6.296152	172.16.1.56	128.119.245.12	TCP	54	49318	→ 80	[ACK] Seq=2 Ack=2 Win=64240 Len=0
1809	6.296180	172.16.1.56	128.119.245.12	TCP	54	49438	→ 80	[ACK] Seq=2 Ack=2 Win=64240 Len=0
1810	6.296215	172.16.1.56	113.171.239.207	TCP	54	49362	→ 80	[ACK] Seq=2 Ack=2 Win=64240 Len=0
1811	6.296367	172.16.1.56	128.119.245.12	TCP	60	49568	→ 80	[SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
1812	6.296081	216.58.220.206	172.16.1.56	TCP	60	80	→ 49361	[FIN, ACK] Seq=1 Ack=2 Win=64240 Len=0
1813	6.296082	128.119.245.12	172.16.1.56	TCP	62	80	→ 49568	[SYN, ACK] Seq=0 Ack=1 Win=8192 Len=0 MSS=1460 SACK_PERM=1
1814	6.296930	172.16.1.56	216.58.220.206	TCP	54	49361	→ 80	[ACK] Seq=2 Ack=2 Win=63068 Len=0
1815	6.296967	172.16.1.56	128.119.245.12	TCP	60	49569	→ 80	[SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
1816	6.297041	172.16.1.56	128.119.245.12	TCP	54	49568	→ 80	[ACK] Seq=1 Ack=1 Win=64240 Len=0
1817	6.297080	128.119.245.12	172.16.1.56	TCP	62	80	→ 49569	[SYN, ACK] Seq=0 Ack=1 Win=8192 Len=0 MSS=1460 SACK_PERM=1



No.	Time	Source	Destination	Protocol	Length	Info
1800	6.295679	172.16.1.56	216.58.220.206	TCP	54	49361 → 80 [FIN, ACK] Seq=1 Ack=1 Win=63068 Len=0
1801	6.296094	128.119.245.12	172.16.1.56	TCP	60	80 → 49318 [ACK] Seq=1 Ack=2 Win=64240 Len=0
1802	6.296096	128.119.245.12	172.16.1.56	TCP	60	80 → 49318 [FIN, ACK] Seq=1 Ack=2 Win=64240 Len=0
> Frame 1801: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0 > Ethernet II, Src: HewlettP_65:28:24 (88:c1:6e:65:28:24), Dst: HewlettP_33:a3:d8 (ec:b1:d7:33:a3:d8) > Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172.16.1.56 # Transmission Control Protocol, Src Port: 80, Dst Port: 49318, Seq: 1, Ack: 2, Len: 0 Source Port: 80 Destination Port: 49318 [Stream index: 4] [TCP Segment Len: 0] Sequence number: 1 (relative sequence number) [Next sequence number: 1 (relative sequence number)] Acknowledgment number: 2 (relative ack number) 0101 .... = Header Length: 20 bytes (5) > Flags: 0x010 (ACK) Window size value: 64240 [Calculated window size: 64240] [Window size scaling factor: -1 (unknown)] Checksum: 0x4ab9 [unverified] [Checksum Status: Unverified] Urgent pointer: 0 > [SEQ/ACK analysis] # [Timestamps] [Time since first frame in this TCP stream: 0.000679000 seconds]						
0000	ec b1 d7 33 a3 d8 00 c1 6e 65 28 24 00 00 45 00	... 3 ... ne(\$-E-				
0010	00 28 02 fa 40 00 00 06 d5 09 00 77 f5 0c ac 10	... @ ... m ...				
0020	01 38 00 50 c0 a6 a6 66 16 9c 5c 25 6b 3f 50 11	8 P ... f ... \k?P-				
0030	fa f0 4a b9 00 00 00 00 00 00 00 00	... J ...				
No.	Time	Source	Destination	Protocol	Length	Info
1800	6.295679	172.16.1.56	216.58.220.206	TCP	54	49361 → 80 [FIN, ACK] Seq=1 Ack=1 Win=63068 Len=0
1801	6.296094	128.119.245.12	172.16.1.56	TCP	60	80 → 49318 [ACK] Seq=1 Ack=2 Win=64240 Len=0
1802	6.296096	128.119.245.12	172.16.1.56	TCP	60	80 → 49318 [FIN, ACK] Seq=1 Ack=2 Win=64240 Len=0
> Frame 1802: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0 > Ethernet II, Src: HewlettP_65:28:24 (88:c1:6e:65:28:24), Dst: HewlettP_33:a3:d8 (ec:b1:d7:33:a3:d8) > Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172.16.1.56 # Transmission Control Protocol, Src Port: 80, Dst Port: 49318, Seq: 1, Ack: 2, Len: 0 Source Port: 80 Destination Port: 49318 [Stream index: 4] [TCP Segment Len: 0] Sequence number: 1 (relative sequence number) [Next sequence number: 1 (relative sequence number)] Acknowledgment number: 2 (relative ack number) 0101 .... = Header Length: 20 bytes (5) > Flags: 0x011 (FIN, ACK) Window size value: 64240 [Calculated window size: 64240] [Window size scaling factor: -1 (unknown)] Checksum: 0x4ab8 [unverified] [Checksum Status: Unverified] Urgent pointer: 0 # [Timestamps] [Time since first frame in this TCP stream: 0.000681000 seconds] [Time since previous frame in this TCP stream: 0.00002000 seconds]						
0000	ec b1 d7 33 a3 d8 00 c1 6e 65 28 24 00 00 45 00	... 3 ... ne(\$-E-				
0010	00 28 02 fc 40 00 00 06 d5 07 00 77 f5 0c ac 10	... @ ... m ...				
0020	01 38 00 50 c0 a6 a6 66 16 9c 5c 25 6b 3f 50 11	8 P ... f ... \k?P-				
0030	fa f0 4a b8 00 00 00 00 00 00 00 00	... J ...				

No.	Time	Source	Destination	Protocol	Length	Info
1802	6.296896	128.119.245.12	172.16.1.56	TCP	60	80 → 49318 [FIN, ACK] Seq=1 Ack=2 Win=64240 Len=0
1803	6.296113	128.119.245.12	172.16.1.56	TCP	60	80 → 49438 [ACK] Seq=1 Ack=2 Win=64240 Len=0
1804	6.296115	113.171.239.207	172.16.1.56	TCP	60	80 → 49362 [ACK] Seq=1 Ack=2 Win=64240 Len=0

<p>▶ Frame 1803: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0</p> <p>▶ Ethernet II, Src: HewlettP_65:28:24 (80:c1:6e:65:28:24), Dst: HewlettP_33:a3:d8 (ec:b1:d7:33:a3:d8)</p> <p>▶ Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172.16.1.56</p> <p>▲ Transmission Control Protocol, Src Port: 80, Dst Port: 49438, Seq: 1, Ack: 2, Len: 0</p> <p>Source Port: 80</p> <p>Destination Port: 49438</p> <p>[Stream index: 5]</p> <p>[TCP Segment Len: 0]</p> <p>Sequence number: 1 (relative sequence number)</p> <p>[Next sequence number: 1 (relative sequence number)]</p> <p>Acknowledgment number: 2 (relative ack number)</p> <p>0101 .... = Header Length: 20 bytes (5)</p> <p>▶ Flags: 0x010 (ACK)</p> <p>Window size value: 64240</p> <p>[Calculated window size: 64240]</p> <p>[Window size scaling factor: -1 (unknown)]</p> <p>Checksum: 0xb72c [unverified]</p> <p>[Checksum Status: Unverified]</p> <p>Urgent pointer: 0</p> <p>▶ [SEQ/ACK analysis]</p> <p>▲ [Timestamps]</p> <p>[Time since first frame in this TCP stream: 0.000565080 seconds]</p>	<pre> 0000  ec b1 d7 33 a3 d8 00 c1 6e 65 28 24 00 00 45 00  ...3... ne(\$-E- 0010  00 28 02 fb 40 00 00 06 d5 08 00 77 f5 0c ac 10  :.@...w... 0020  01 38 00 50 c1 1e 7e 01 1b e9 98 61 e6 af 50 10  :8P...a.P- 0030  fa f0 07 3c 00 00 00 00 00 00 00 00 00 00 00  :a...P- </pre>
---	--

## b. Phân tích gói tin UDP

No.	Time	Source	Destination	Protocol	Length	Info
508	1.648475	fe80::81c2:baa0:d39...	fe80::586b:7aff:ee8...	UDP	1304	3702 → 54763 Len=1242
542	1.748907	fe80::2d7f:ba9d:1ed...	ff02::c	UDP	686	60417 → 3702 Len=624
694	2.374344	fe80::1d9d:d8db:97c...	ff02::c	UDP	686	53420 → 3702 Len=624

<p>▶ Frame 508: 1304 bytes on wire (10432 bits), 1304 bytes captured (10432 bits) on interface 0</p> <p>▶ Ethernet II, Src: HewlettP_33:a3:d8 (ec:b1:d7:33:a3:d8), Dst: HewlettP_33:a3:ad (ec:b1:d7:33:a3:ad)</p> <p>▶ Internet Protocol Version 6, Src: fe80::81c2:baa0:d396:9aab, Dst: fe80::586b:7aff:ee82:94c2</p> <p>▶ User Datagram Protocol, Src Port: 3702, Dst Port: 54763</p> <p>▲ Data (1242 bytes)</p> <p>Data: 3c3f786d6c2076657273696f6e3d22312e302220656e636f...</p> <p>[Length: 1242]</p>	<pre> 0000  ec b1 d7 33 a3 ad ec b1 d7 33 a3 d8 86 dd 60 00  ...3... .3.... 0010  00 00 04 e2 11 80 fe 80 00 00 00 00 00 00 81 c2  ..... 0020  ba a0 d3 96 9a ab fe 80 00 00 00 00 00 00 58 6b  .....Xk 0030  7a ff ee 82 94 c2 0e 76 d5 eb 04 e2 03 4b 3c 3f  z.....v ....K? 0040  78 6d 6c 20 76 65 72 73 69 6f 6e 3d 22 31 2e 30  xml vers ion="1.0 0050  22 20 65 6e 63 6f 64 69 6e 67 3d 22 75 74 66 2d  " encodi ng="utf- 0060  38 22 3f 3e 3c 73 6f 61 70 3a 45 6e 76 65 6c 6f  8"?&gt;&lt;soa p:Envelo 0070  70 65 20 78 6d 6c 6e 73 3a 73 6f 61 70 3d 22 68  pe xmlns :soap="h 0080  74 74 70 3a 2f 2f 77 77 77 2e 77 33 2e 6f 72 67  ttp://ww w.w3.org 0090  2f 32 30 30 33 2f 30 35 2f 73 6f 61 70 2d 65 6e  /2003/05 /soap-en 00a0  76 65 6c 6f 70 65 22 20 78 6d 6c 6e 73 3a 77 73  velope" xmlns:ws </pre>
---	--

No.	Time	Source	Destination	Protocol	Length	Info
508	1.648475	fe80::81c2:bba0:d39...	fe80::586b:7aff:ee8...	UDP	1304	3702 → 54763 Len=1242
542	1.748907	fe80::2d7f:ba9d:1ed...	ff02::c	UDP	686	60417 → 3702 Len=624
694	2.374344	fe80::1d9d:d8db:97c...	ff02::c	UDP	686	53420 → 3702 Len=624
698	2.413399	172.16.0.159	239.255.255.250	UDP	666	53004 → 3702 Len=624
699	2.414150	fe80::5de2:5fbe:5d9...	ff02::c	UDP	686	53005 → 3702 Len=624
721	2.505764	fe80::1d9d:d8db:97c...	ff02::c	UDP	686	53420 → 3702 Len=624
743	2.580303	fe80::5de2:5fbe:5d9...	ff02::c	UDP	686	53005 → 3702 Len=624
769	2.657437	172.16.0.159	239.255.255.250	UDP	666	53004 → 3702 Len=624
861	3.034562	172.16.0.217	239.255.255.250	UDP	666	59954 → 3702 Len=624
862	3.035305	fe80::616a:3acf:2ce...	ff02::c	UDP	686	59955 → 3702 Len=624
869	3.091683	fe80::616a:3acf:2ce...	ff02::c	UDP	686	59955 → 3702 Len=624
893	3.167676	172.16.0.217	239.255.255.250	UDP	666	59954 → 3702 Len=624
940	3.356492	172.16.1.56	172.16.0.217	UDP	1269	3702 → 59954 Len=1227
978	3.542443	172.16.1.56	172.16.0.217	UDP	1269	3702 → 59954 Len=1227
1395	4.620522	172.16.1.56	172.16.0.159	UDP	1269	3702 → 53004 Len=1227
1465	4.835381	172.16.1.56	172.16.0.159	UDP	1269	3702 → 53004 Len=1227
1472	4.847494	fe80::5c27:29a5:686...	ff02::c	UDP	686	58917 → 3702 Len=624
1495	4.967379	fe80::5c27:29a5:686...	ff02::c	UDP	686	58917 → 3702 Len=624
1937	6.546281	fe80::a884:843b:661...	ff02::c	UDP	686	58204 → 3702 Len=624
1987	6.714654	fe80::a884:843b:661...	ff02::c	UDP	686	58204 → 3702 Len=624
2824	9.629403	fe80::d511:9732:3c3...	ff02::c	UDP	686	54646 → 3702 Len=624
3024	10.446194	fe80::e0df:223e:8f7...	ff02::c	UDP	686	63084 → 3702 Len=624