



LAB 1



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1- TCP , UDP , SSDP

The image shows a Wireshark packet capture window titled "Capturing from Wi-Fi". The interface includes a menu bar (File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Wireless, Tools, Help) and a toolbar with various icons. A display filter is set to "Apply a display filter ... <Ctrl-F>".

The packet list pane shows 186 packets. The selected packet is packet 186, which is a UDP packet from 192.168.1.227 to 192.168.1.255, length 35 bytes. The packet details pane shows the following structure:

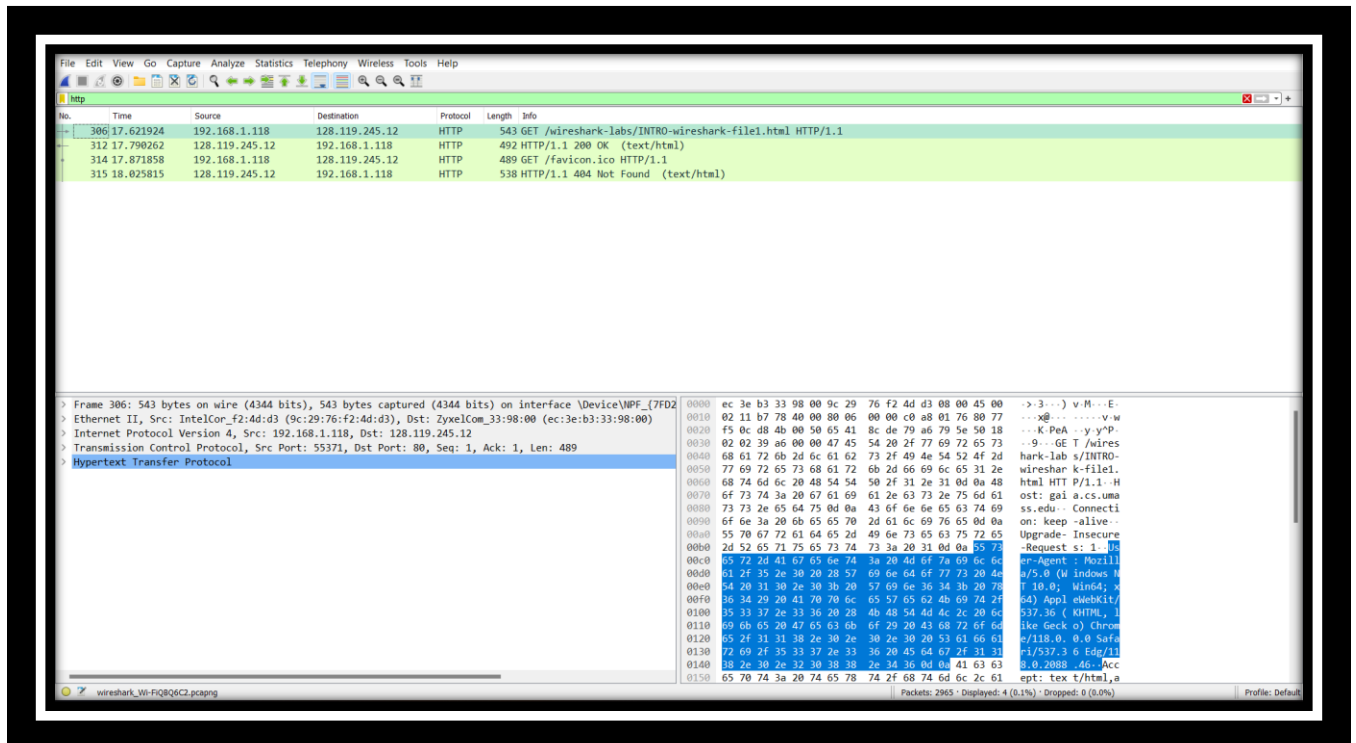
- Frame 1: 433 bytes on wire (3464 bits), 433 bytes captured (3464 bits) on interface \Device\NPF_{7FD207...}
- Ethernet II, Src: ZyxelCom_33:98:00 (ec:3e:b3:33:98:00), Dst: IntelCor_f2:4d:d3 (9c:29:76:f2:4d:d3)
- Internet Protocol Version 4, Src: 192.168.1.1, Dst: 239.255.255.250
- User Datagram Protocol, Src Port: 45719, Dst Port: 1900
- Simple Service Discovery Protocol

The packet bytes pane shows the raw data in hexadecimal and ASCII. The ASCII column shows the following text:

```
.v-M-> .3....E-
...@... ..
...1.. ..NOTIFY
* HTTP/ 1.1 -HOS
T: 239.2 55.255.2
50:1900..-CACHE-C
ONTROL: max-age=
100..LOC ATION: h
tftp://19 2.168.1.
1:49152/ descript
ion.xml- .NT: urn
:schemas-wifiall
iance-or g:device
:WFADevi ce:1- .NT
S: ssdp: alive- .S
ERVER: L inux/3.1
8.21, UP nP/1.0,
Portable SDK for
UPnP de vices/1.
6.18 -X- User-Age
nt: reds onic- .US
N: uuid: bc329e00
```

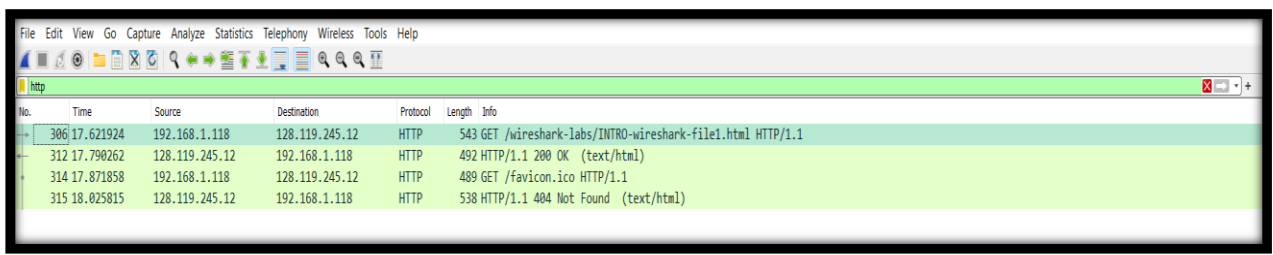
2- the time taken is 0.168338

$17.790262 - 17.621924 = 0.168338$



3-the Internet address

Source and destination



The image shows a Wireshark packet capture window with a filter set to 'http'. The packet list pane displays four captured packets, all of which are HTTP requests from 192.168.1.118 to 128.119.245.12. The first packet is a GET request for a file, and the subsequent three are requests for a 200 OK response, a favicon, and a 404 Not Found response.

No.	Time	Source	Destination	Protocol	Length	Info
306	17.621924	192.168.1.118	128.119.245.12	HTTP	543	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
312	17.790262	128.119.245.12	192.168.1.118	HTTP	492	HTTP/1.1 200 OK (text/html)
314	17.871858	192.168.1.118	128.119.245.12	HTTP	489	GET /favicon.ico HTTP/1.1
315	18.025815	128.119.245.12	192.168.1.118	HTTP	538	HTTP/1.1 404 Not Found (text/html)

4-

Get

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C:\Users\eslam\AppData\Local\Temp\wireshark_Wi-Fi\BQ6C2.pcapng 2965 total packets, 4 shown

No.      Time            Source            Destination        Protocol Length Info
306 17.621924      192.168.1.118      128.119.245.12      HTTP      543      GET /wireshark-labs/INTRO-wireshark-file1.html
HTTP/1.1
Frame 306: 543 bytes on wire (4344 bits), 543 bytes captured (4344 bits) on interface \Device\NPF_{7FD207EA-C8DD-46DD-B453-820FE5362159}, id 0
Ethernet II, Src: IntelCor_f2:4d:d3 (9c:29:76:f2:4d:d3), Dst: ZyxelCom_33:98:00 (ec:3e:b3:33:98:00)
Internet Protocol Version 4, Src: 192.168.1.118, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 55371, Dst Port: 80, Seq: 1, Ack: 1, Len: 489
Hypertext Transfer Protocol
  GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
  Host: gaia.cs.umass.edu\r\n
  Connection: keep-alive\r\n
  Upgrade-Insecure-Requests: 1\r\n
  User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/118.0.0.0 Safari/537.36 Edg/118.0.2088.46\r\n
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7\r\n
  Accept-Encoding: gzip, deflate\r\n
  Accept-Language: en-US,en;q=0.9,ar;q=0.8\r\n
  \r\n
  [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
  [HTTP request 1/2]
  [Response in frame: 312]
  [Next request in frame: 314]
```

OK

```
No.      Time            Source            Destination        Protocol Length Info
312 17.798262      128.119.245.12      192.168.1.118      HTTP      492      HTTP/1.1 200 OK (text/html)
Frame 312: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface \Device\NPF_{7FD207EA-C8DD-46DD-B453-820FE5362159}, id 0
Ethernet II, Src: ZyxelCom_33:98:00 (ec:3e:b3:33:98:00), Dst: IntelCor_f2:4d:d3 (9c:29:76:f2:4d:d3)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.118
Transmission Control Protocol, Src Port: 80, Dst Port: 55371, Seq: 1, Ack: 490, Len: 438
Hypertext Transfer Protocol
  HTTP/1.1 200 OK\r\n
  Date: Thu, 19 Oct 2023 20:12:58 GMT\r\n
  Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3\r\n
  Last-Modified: Thu, 19 Oct 2023 05:59:02 GMT\r\n
  ETag: "51-6080b73e2f67a"\r\n
  Accept-Ranges: bytes\r\n
  Content-Length: 81\r\n
  Keep-Alive: timeout=5, max=100\r\n
  Connection: Keep-Alive\r\n
  Content-Type: text/html; charset=UTF-8\r\n
  \r\n
  [HTTP response 1/2]
  [Time since request: 0.168338000 seconds]
  [Request in frame: 306]
  [Next request in frame: 314]
  [Next response in frame: 315]
  [Request URI: http://gaia.cs.umass.edu/favicon.ico]
  File Data: 81 bytes
Line-based text data: text/html (3 lines)
```