TCP/IP

-การวิเคราะห์ข้อมูลเครือข่ายด้วย wireshark

Wireshark is Data Detection program IP in loop network

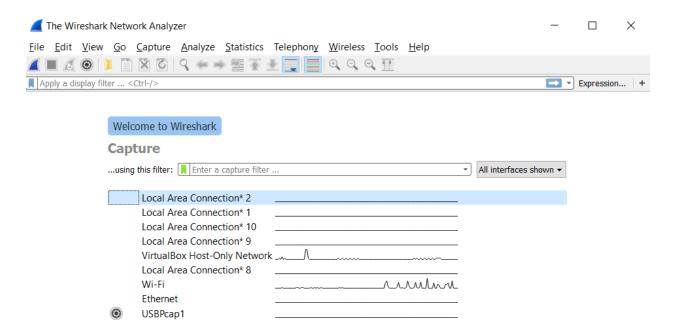
Wireshark -Can detect only //http

-No can detect only //https because of the code IP

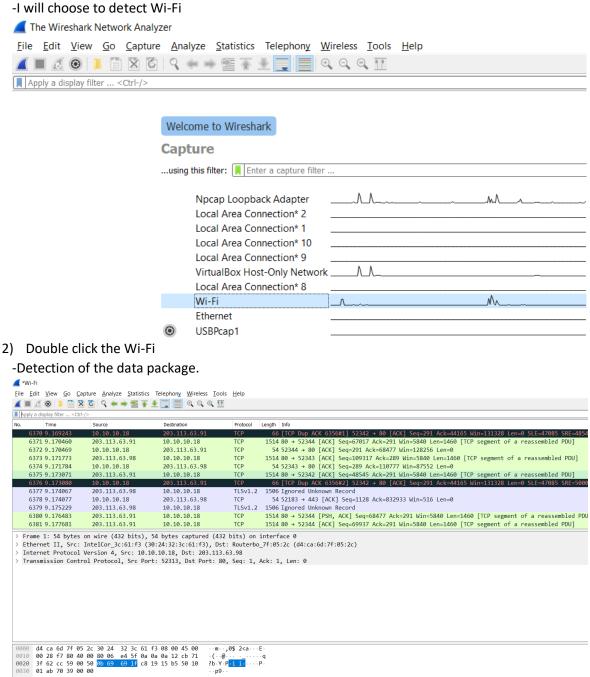
-Program wireshark



-The look of the program Wireshark

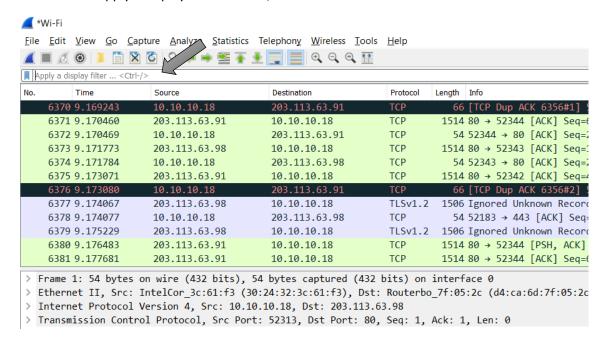


1) Select the information you want to detect.

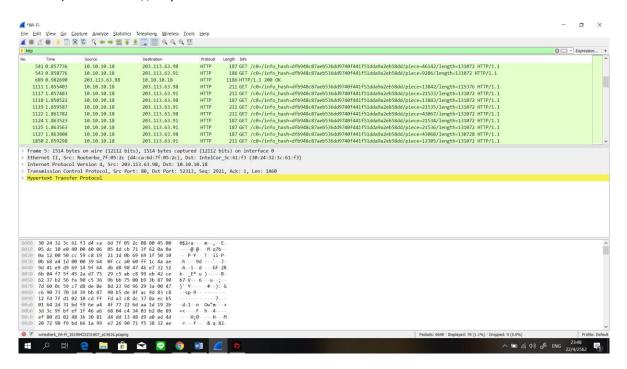


-stop for see the information you want to see.

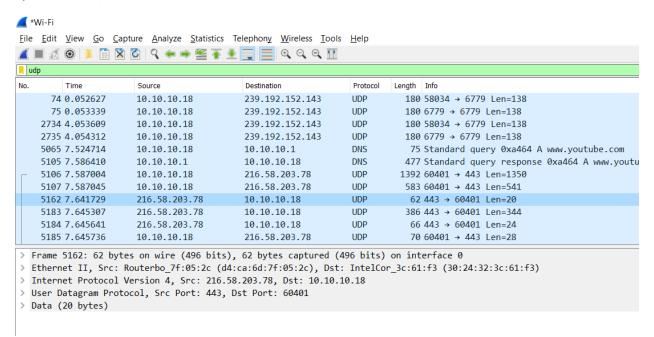
Finding the information you need Apply a display filter.....



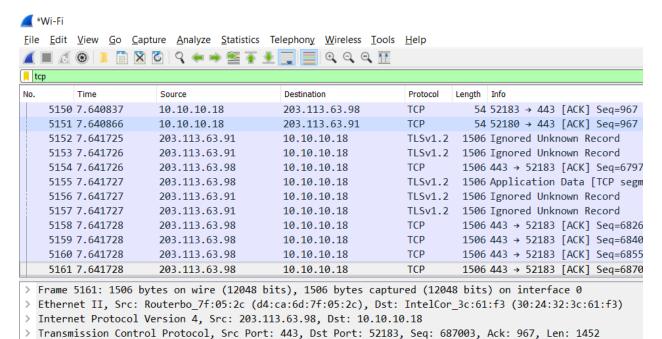
4) Search for //http data



5) Search for //UDP data



6) Search for //TCP data



7) The procedure of the HTTP protocol to show which packet is a request for a webpage and which packets are a response.

543 0.858776 10.10.10.18 203.113.63.91 HTTP 186 GET /c0=/info_hash=dfb948c87aeb536dd9740f441f51dda9a2eb58dd/piece=9

-client send Request go to server past header request line a website

-Responses server

689 0.982690 203.113.63.98 10.10.10.18 HTTP 1186 HTTP/1.1 200 OK

-Server responses past header (Status line = Status-code 200 "OK") means that the request is successful.

→ Hypertext Transfer Protocol

- ✓ HTTP/1.1 200 OK\r\n
 - > [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

Response Version: HTTP/1.1

Status Code: 200

[Status Code Description: OK]

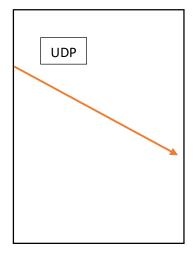
Response Phrase: OK Server: NWS_Oversea_AP\r\n

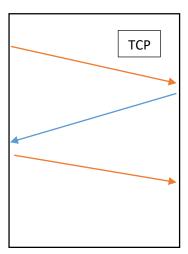
Last-Modified: Mon, 22 Apr 2019 03:20:00 GMT\r\n

- 8) UDP (User Datagram Protocol) works on layer4 as a connection, sending less data, no connection.
- 9) TCP or Transmission Control Protocol. It is a protocol used in the Internet protocol set, which is the form of a protocol group commonly used as a standard in the Internet.
 - -TCP: transmission Control Protocol (Transport layer)
 - IP: Internet Protocol (Network layer)

TCP / IP The function of TCP is to create precision based on the sequence and check for errors. To send information Connect with IP Network

10) UDP is data transmission without confirmation of data transmission. Is that the sender cannot know whether the information has reached the recipient yet.





- 11) MSNMS protocols for program MSN Messagers Is to see the messages that are exported.
- 12) Ethenet protocols for program Check IP

```
V Ethernet II, Src: Routerbo_7f:05:2c (d4:ca:6d:7f:05:2c), Dst: IntelCor_3c:61:f3 (30:24:32:3c:61:f3)

V Destination: IntelCor_3c:61:f3 (30:24:32:3c:61:f3)

Address: IntelCor_3c:61:f3 (30:24:32:3c:61:f3)

.....0...... = LG bit: Globally unique address (factory default)

.....0 ..... = IG bit: Individual address (unicast)

V Source: Routerbo_7f:05:2c (d4:ca:6d:7f:05:2c)

Address: Routerbo_7f:05:2c (d4:ca:6d:7f:05:2c)

....0 ..... = LG bit: Globally unique address (factory default)

....0 ..... = LG bit: Individual address (unicast)

Type: IPv4 (0x0800)
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