TASK 5

Jaringan Komputer

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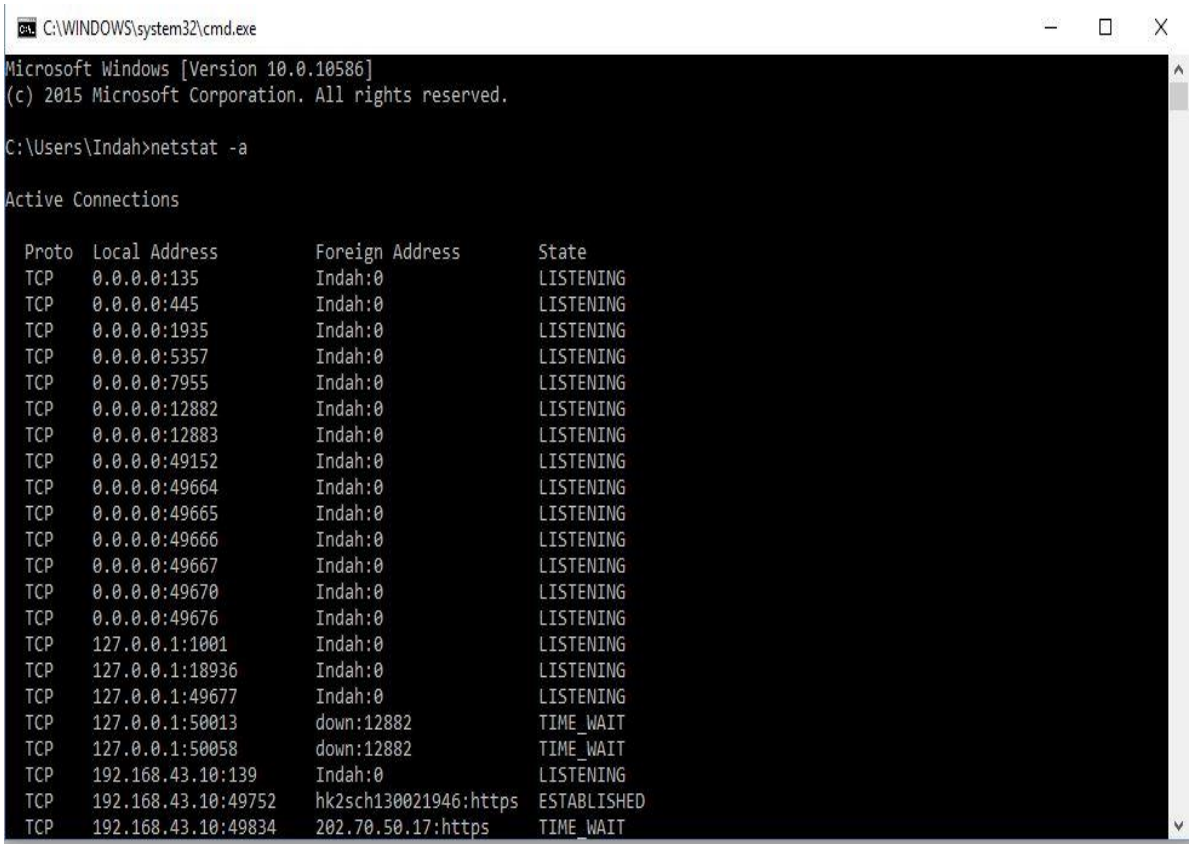
Menggunakan command prompt.

Ketik perintah netstat –a di command prompt ketika web telah dibuat pada chrome.

Tampilannya seperti ini :

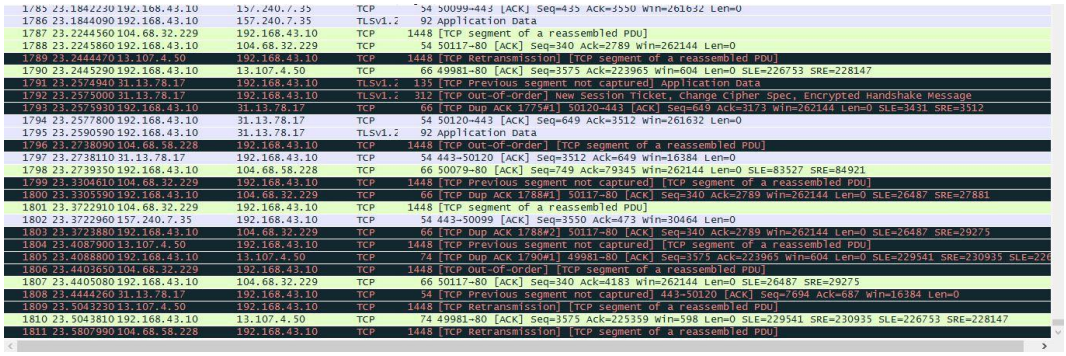


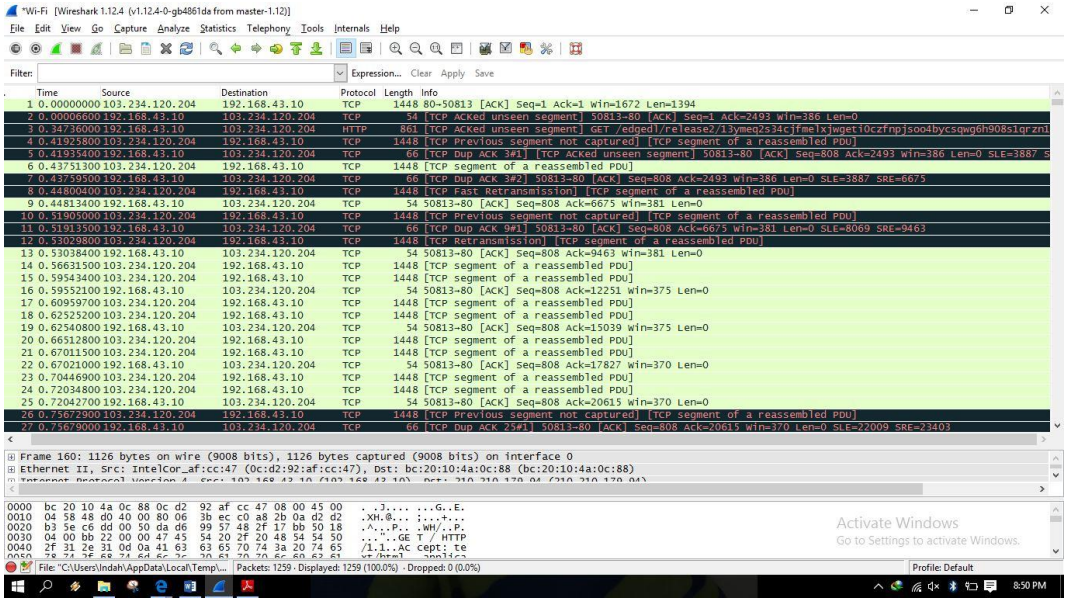
```
  TCP    127.0.0.1:49677        Indah:0                LISTENING
  TCP    127.0.0.1:50013        down:12882             TIME_WAIT
  TCP    127.0.0.1:50058        down:12882             TIME_WAIT
  TCP    192.168.43.10:139      Indah:0                LISTENING
  TCP    192.168.43.10:49752    hk2sch130021946:https  ESTABLISHED
  TCP    192.168.43.10:49834    202.70.50.17:https     TIME_WAIT
  TCP    192.168.43.10:49836    202.70.50.17:https     TIME_WAIT
  TCP    192.168.43.10:49837    202.70.50.17:https     TIME_WAIT
  TCP    192.168.43.10:49838    202.70.50.17:https     TIME_WAIT
  TCP    192.168.43.10:49927    a-0003:https           ESTABLISHED
^C
C:\Users\Indah>
```

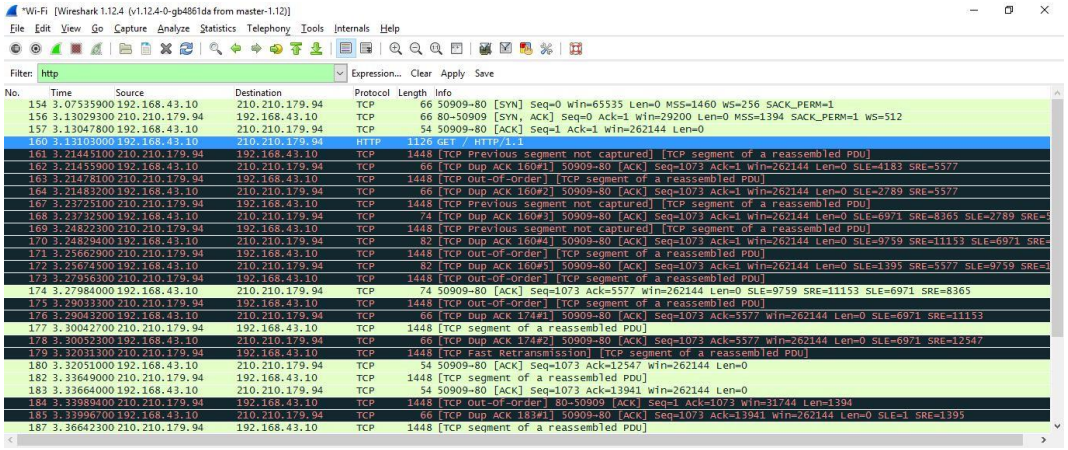
Percobaan menggunakan Wireshark.

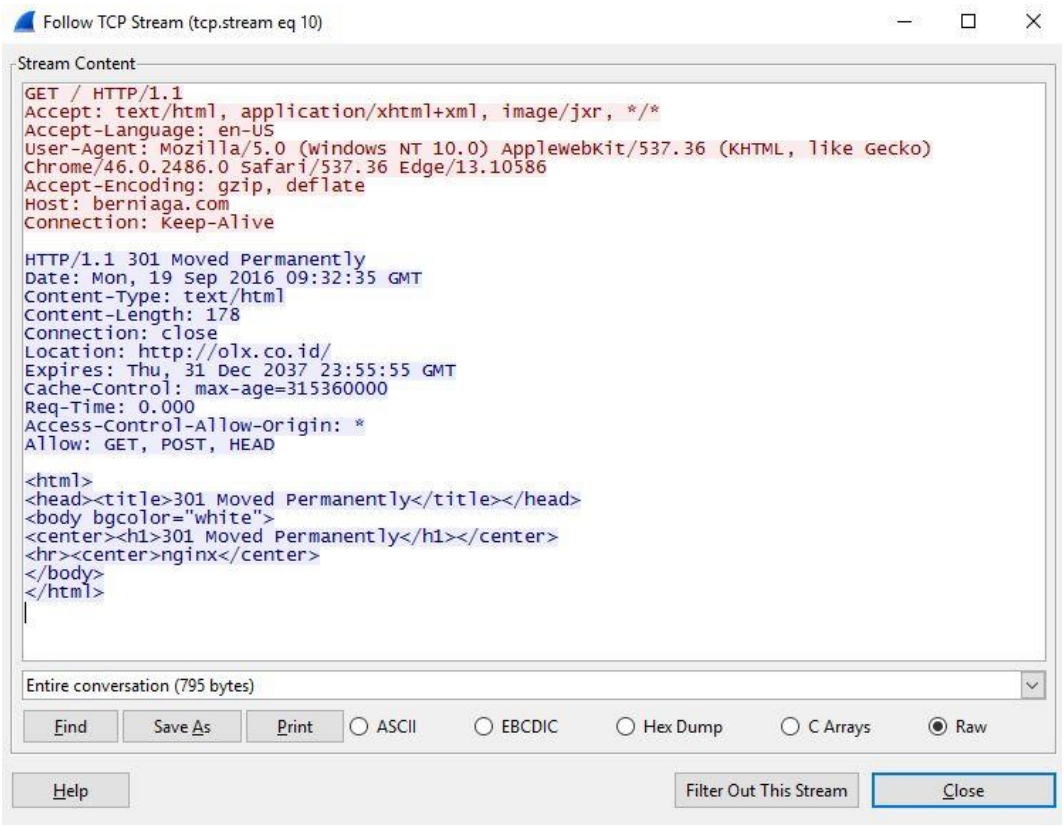
Ke situs berniaga.com

Tampilan nya seperti ini :




*Wi-Fi [Wireshark 1.12.4 (v1.12.4-0-gb4861da from master-1.12)]
File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help
Filter:
Expression... Clear Apply Save
No. Time Source Destination Protocol Length Info
1 0.00000000 103.234.120.204 192.168.43.10 TCP 1448 80-50813 [ACK] Seq=1 Ack=1 Win=1672 Len=1394
2 0.00006600 192.168.43.10 103.234.120.204 TCP 54 [TCP ACKed unseen segment] 50813-80 [ACK] Seq=1 Ack=2493 Win=386 Len=0
3 0.34736000 192.168.43.10 103.234.120.204 HTTP 861 [TCP ACKed unseen segment] GET /edged1/release2/13ymeq2s34cjfmelxjwget10czfnpjsoo4bycsqwg6h908s1qrzn1
4 0.41925800 103.234.120.204 192.168.43.10 TCP 1448 [TCP Previous segment not captured] [TCP segment of a reassembled PDU]
5 0.41935400 192.168.43.10 103.234.120.204 TCP 66 [TCP Dup ACK 3#1] [TCP ACKed unseen segment] 50813-80 [ACK] Seq=808 Ack=2493 Win=386 Len=0 SLE=3887 S
6 0.43751300 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
7 0.43759500 192.168.43.10 103.234.120.204 TCP 66 [TCP Dup ACK 3#2] 50813-80 [ACK] Seq=808 Ack=2493 Win=386 Len=0 SLE=3887 SRE=6675
8 0.44800400 103.234.120.204 192.168.43.10 TCP 1448 [TCP Fast Retransmission] [TCP segment of a reassembled PDU]
9 0.44813400 192.168.43.10 103.234.120.204 TCP 54 50813-80 [ACK] Seq=808 Ack=6675 Win=381 Len=0
10 0.51905000 103.234.120.204 192.168.43.10 TCP 1448 [TCP Previous segment not captured] [TCP segment of a reassembled PDU]
11 0.51913500 192.168.43.10 103.234.120.204 TCP 66 [TCP Dup ACK 9#1] 50813-80 [ACK] Seq=808 Ack=6675 Win=381 Len=0 SLE=8069 SRE=9463
12 0.53029800 103.234.120.204 192.168.43.10 TCP 1448 [TCP Retransmission] [TCP segment of a reassembled PDU]
13 0.53038400 192.168.43.10 103.234.120.204 TCP 54 50813-80 [ACK] Seq=808 Ack=9463 Win=381 Len=0
14 0.56631500 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
15 0.59543400 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
16 0.59552100 192.168.43.10 103.234.120.204 TCP 54 50813-80 [ACK] Seq=808 Ack=12251 Win=375 Len=0
17 0.60959700 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
18 0.62525200 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
19 0.62540800 192.168.43.10 103.234.120.204 TCP 54 50813-80 [ACK] Seq=808 Ack=15039 Win=375 Len=0
20 0.66512800 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
21 0.67011500 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
22 0.67021000 192.168.43.10 103.234.120.204 TCP 54 50813-80 [ACK] Seq=808 Ack=17827 Win=370 Len=0
23 0.70446900 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
24 0.72034800 103.234.120.204 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
25 0.72042700 192.168.43.10 103.234.120.204 TCP 54 50813-80 [ACK] Seq=808 Ack=20615 Win=370 Len=0
26 0.75672900 103.234.120.204 192.168.43.10 TCP 1448 [TCP Previous segment not captured] [TCP segment of a reassembled PDU]
27 0.75679000 192.168.43.10 103.234.120.204 TCP 66 [TCP Dup ACK 25#1] 50813-80 [ACK] Seq=808 Ack=20615 Win=370 Len=0 SLE=22009 SRE=23403
Frame 160: 1126 bytes on wire (9008 bits), 1126 bytes captured (9008 bits) on interface 0
Ethernet II, Src: IntelCor_af:cc:47 (0c:d2:92:af:cc:47), Dst: bc:20:10:4a:0c:88 (bc:20:10:4a:0c:88)
0000 bc 20 10 4a 0c 88 0c d2 92 af cc 47 08 00 45 00 . .J.... ...G..E.
0010 04 58 48 d0 40 00 80 06 3b ec c0 a8 2b 0a d2 d2 .XH.@... ;...+...
0020 b3 5e c6 dd 00 50 da d6 99 57 48 2f 17 bb 50 18 .^...P.. .WH/..P.
0030 04 00 bb 22 00 00 47 45 54 20 2f 20 48 54 54 50 ..."..GE T / HTTP
0040 2f 31 2e 31 0d 0a 41 63 63 65 70 74 3a 20 74 65 /1.1..Ac cept: te
Activate Windows
Go to Settings to activate Windows.
File: "C:\Users\Indah\AppData\Local\Temp\... Packets: 1259 · Displayed: 1259 (100.0%) · Dropped: 0 (0.0%)
Profile: Default
8:50 PM


*Wi-Fi [Wireshark 1.12.4 (v1.12.4-0-gb4861da from master-1.12)]
File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help
Filter: http
Expression... Clear Apply Save
No. Time Source Destination Protocol Length Info
154 3.07535900 192.168.43.10 210.210.179.94 TCP 66 50909-80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
156 3.13029300 210.210.179.94 192.168.43.10 TCP 66 80-50909 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1394 SACK_PERM=1 WS=512
157 3.13047800 192.168.43.10 210.210.179.94 TCP 54 50909-80 [ACK] Seq=1 Ack=1 Win=262144 Len=0
160 3.13103000 192.168.43.10 210.210.179.94 HTTP 1126 GET / HTTP/1.1
161 3.21445100 210.210.179.94 192.168.43.10 TCP 1448 [TCP Previous segment not captured] [TCP segment of a reassembled PDU]
162 3.21455900 192.168.43.10 210.210.179.94 TCP 66 [TCP Dup ACK 160#1] 50909-80 [ACK] Seq=1073 Ack=1 Win=262144 Len=0 SLE=4183 SRE=5577
163 3.21478100 210.210.179.94 192.168.43.10 TCP 1448 [TCP Out-Of-Order] [TCP segment of a reassembled PDU]
164 3.21483200 192.168.43.10 210.210.179.94 TCP 66 [TCP Dup ACK 160#2] 50909-80 [ACK] Seq=1073 Ack=1 Win=262144 Len=0 SLE=2789 SRE=5577
167 3.23725100 210.210.179.94 192.168.43.10 TCP 1448 [TCP Previous segment not captured] [TCP segment of a reassembled PDU]
168 3.23732500 192.168.43.10 210.210.179.94 TCP 74 [TCP Dup ACK 160#3] 50909-80 [ACK] Seq=1073 Ack=1 Win=262144 Len=0 SLE=6971 SRE=8365 SLE=2789 SRE=5
169 3.24822300 210.210.179.94 192.168.43.10 TCP 1448 [TCP Previous segment not captured] [TCP segment of a reassembled PDU]
170 3.24829400 192.168.43.10 210.210.179.94 TCP 82 [TCP Dup ACK 160#4] 50909-80 [ACK] Seq=1073 Ack=1 Win=262144 Len=0 SLE=9759 SRE=11153 SLE=6971 SRE=
171 3.25662900 210.210.179.94 192.168.43.10 TCP 1448 [TCP Out-Of-Order] [TCP segment of a reassembled PDU]
172 3.25674500 192.168.43.10 210.210.179.94 TCP 82 [TCP Dup ACK 160#5] 50909-80 [ACK] Seq=1073 Ack=1 Win=262144 Len=0 SLE=1395 SRE=5577 SLE=9759 SRE=1
173 3.27956300 210.210.179.94 192.168.43.10 TCP 1448 [TCP Out-Of-Order] [TCP segment of a reassembled PDU]
174 3.27984000 192.168.43.10 210.210.179.94 TCP 74 50909-80 [ACK] Seq=1073 Ack=5577 Win=262144 Len=0 SLE=9759 SRE=11153 SLE=6971 SRE=8365
175 3.29033300 210.210.179.94 192.168.43.10 TCP 1448 [TCP Out-Of-Order] [TCP segment of a reassembled PDU]
176 3.29043200 192.168.43.10 210.210.179.94 TCP 66 [TCP Dup ACK 174#1] 50909-80 [ACK] Seq=1073 Ack=5577 Win=262144 Len=0 SLE=6971 SRE=11153
177 3.30042700 210.210.179.94 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
178 3.30052300 192.168.43.10 210.210.179.94 TCP 66 [TCP Dup ACK 174#2] 50909-80 [ACK] Seq=1073 Ack=5577 Win=262144 Len=0 SLE=6971 SRE=12547
179 3.32031300 210.210.179.94 192.168.43.10 TCP 1448 [TCP Fast Retransmission] [TCP segment of a reassembled PDU]
180 3.32051000 192.168.43.10 210.210.179.94 TCP 54 50909-80 [ACK] Seq=1073 Ack=12547 Win=262144 Len=0
182 3.33649000 210.210.179.94 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]
183 3.33664000 192.168.43.10 210.210.179.94 TCP 54 50909-80 [ACK] Seq=1073 Ack=13941 Win=262144 Len=0
184 3.33989400 210.210.179.94 192.168.43.10 TCP 1448 [TCP Out-Of-Order] 80-50909 [ACK] Seq=1 Ack=1073 Win=31744 Len=1394
185 3.33996700 192.168.43.10 210.210.179.94 TCP 66 [TCP Dup ACK 183#1] 50909-80 [ACK] Seq=1073 Ack=13941 Win=262144 Len=0 SLE=1 SRE=1395
187 3.36642300 210.210.179.94 192.168.43.10 TCP 1448 [TCP segment of a reassembled PDU]



Analisa

Wireshark, perangkat lunak ini membantu untuk menangkap/merekam dan melihat traffic yang sedang berjalan di sebuah jaringan komputer. Wireshark digunakan untuk menganalisa kinerja jaringannya. Wireshark mampu menangkap data/informasi yang melewati jaringan yang sedang kita amati. Dengan wireshark dapat dilihat proses pengiriman data dari komputer ke web yang dituju.

Ketika kita mengetik **http** dan tekan enter, kita tidak perlu lagi untuk mengingat setiap kali mnyaring paket. Klik kanan pada paket yang ingin di analisis lalu pilih Follow TCP Stream.

Get menunjukkan permintaan data yang dikirim dari sumber tertentu.

Post → Data yang diserahkan untuk di proses ke sumber daya tertentu dengan login.

Respon → mengirim data ke web.

Kita dapat menemukan seluruh kode status HTTP tanggal meunjukkan waktu selama respon yang dikeluarkan.