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NIM   : 09011281520101

Web browsing : tribunnews.com

Source	Destination			Info
64.62.151.51	192.168.43.133	TCP	1448	[TCP Previous segment not captured] 80 → 50906 [ACK] Seq=5577 Ack=1 Win=245 Len=1394
192.168.43.133	64.62.151.51	TCP	74	[TCP Dup ACK 5#1] 50906 → 80 [ACK] Seq=1 Ack=4183 Win=1432 Len=0 SLE=11153 SRE=12547 SLE=5577 SRE=6971
192.168.184.4	192.168.43.133	TCP	66	8080 → 51140 [SYN, ACK] Seq=0 Ack=1 Win=14600 Len=0 MSS=1394 SACK_PERM=1 WS=128
54.192.151.85	192.168.43.133	TCP	66	80 → 51143 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1394 SACK_PERM=1 WS=256
54.192.151.64	192.168.43.133	TCP	1448	[TCP Fast Retransmission] [TCP segment of a reassembled PDU]
202.70.49.152	192.168.43.133	TCP	66	80 → 51097 [ACK] Seq=1 Ack=2 Win=30331 Len=0 SLE=1 SRE=2
74.125.68.154	192.168.43.133	TLSv1.2	1448	[TCP Previous segment not captured] Ignored Unknown Record
157.240.7.35	192.168.43.133	TLSv1.2	96	Application Data
74.125.68.101	192.168.43.133	TCP	54	443 → 51053 [ACK] Seq=664 Ack=1677 Win=197 Len=0
103.234.120.205	192.168.43.133	QUIC	1392	Payload (Encrypted), PKN: 612
74.125.200.103	192.168.43.133	TLSv1.2	936	[TCP Fast Retransmission] Application Data
74.125.68.138	192.168.43.133	QUIC	75	Payload (Encrypted), PKN: 13
172.217.26.78	192.168.43.133	QUIC	194	Payload (Encrypted), PKN: 40
209.85.229.151	192.168.43.133	QUIC	1392	Rejection, PKN: 1, CID: 18271117189969248983
74.125.130.156	192.168.43.133	TCP	66	[TCP Keep-Alive ACK] 80 → 51070 [ACK] Seq=1 Ack=2 Win=172 Len=0 SLE=1 SRE=2

```
C:\Users\Carol>netstat -a

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    0.0.0.0:135            PC-PC:0                LISTENING
  TCP    0.0.0.0:445            PC-PC:0                LISTENING
  TCP    0.0.0.0:2869           PC-PC:0                LISTENING
  TCP    0.0.0.0:5357           PC-PC:0                LISTENING
  TCP    0.0.0.0:25999          PC-PC:0                LISTENING
  TCP    0.0.0.0:49152          PC-PC:0                LISTENING
  TCP    0.0.0.0:49153          PC-PC:0                LISTENING
  TCP    0.0.0.0:49154          PC-PC:0                LISTENING
  TCP    0.0.0.0:49155          PC-PC:0                LISTENING
  TCP    0.0.0.0:49156          PC-PC:0                LISTENING
  TCP    0.0.0.0:49170          PC-PC:0                LISTENING
  TCP    0.0.0.0:49174          PC-PC:0                LISTENING
  TCP    0.0.0.0:55283          PC-PC:0                LISTENING
  TCP    127.0.0.1:1001         PC-PC:0                LISTENING
  TCP    127.0.0.1:6543         PC-PC:0                LISTENING
  TCP    127.0.0.1:6543         PC-PC:49930            ESTABLISHED
  TCP    127.0.0.1:6543         PC-PC:50810            ESTABLISHED
  TCP    127.0.0.1:6543         PC-PC:50934            ESTABLISHED
  TCP    127.0.0.1:6544         PC-PC:0                LISTENING
  TCP    127.0.0.1:44430        PC-PC:0                LISTENING
  TCP    127.0.0.1:49171        PC-PC:0                LISTENING
  TCP    127.0.0.1:49171        PC-PC:49198            ESTABLISHED
  TCP    127.0.0.1:49198        PC-PC:49171            ESTABLISHED
  TCP    127.0.0.1:49930        PC-PC:6543             ESTABLISHED
  TCP    127.0.0.1:50799        PC-PC:52001            ESTABLISHED
  TCP    127.0.0.1:50800        PC-PC:52001            ESTABLISHED
  TCP    127.0.0.1:50801        PC-PC:52001            ESTABLISHED
  TCP    127.0.0.1:50802        PC-PC:52001            ESTABLISHED
  TCP    127.0.0.1:50810        PC-PC:6543             ESTABLISHED
  TCP    127.0.0.1:50934        PC-PC:6543             ESTABLISHED
  TCP    127.0.0.1:52001        PC-PC:0                LISTENING
  TCP    127.0.0.1:52001        PC-PC:50799            ESTABLISHED
  TCP    127.0.0.1:52001        PC-PC:50800            ESTABLISHED
  TCP    127.0.0.1:52001        PC-PC:50801            ESTABLISHED
  TCP    127.0.0.1:52001        PC-PC:50802            ESTABLISHED
  TCP    192.168.43.133:139     PC-PC:0                LISTENING
  TCP    192.168.43.133:51496   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51497   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51498   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51499   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51500   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51501   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51502   sa-in-f154:https       ESTABLISHED
  TCP    192.168.43.133:51508   sb-in-f138:https       ESTABLISHED
  TCP    192.168.43.133:51511   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51512   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51513   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51514   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51515   sa-in-f154:http        ESTABLISHED
  TCP    192.168.43.133:51516   sa-in-f154:http        ESTABLISHED
```

```
TCP    127.0.0.1:50801        PC-PC:52001              ESTABLISHED
TCP    127.0.0.1:50802        PC-PC:52001              ESTABLISHED
TCP    127.0.0.1:50810        PC-PC:6543               ESTABLISHED
TCP    127.0.0.1:50934        PC-PC:6543               ESTABLISHED
TCP    127.0.0.1:52001        PC-PC:0                  LISTENING
TCP    127.0.0.1:52001        PC-PC:50799              ESTABLISHED
TCP    127.0.0.1:52001        PC-PC:50800              ESTABLISHED
TCP    127.0.0.1:52001        PC-PC:50801              ESTABLISHED
TCP    127.0.0.1:52001        PC-PC:50802              ESTABLISHED
TCP    192.168.43.133:139     PC-PC:0                  LISTENING
TCP    192.168.43.133:51496   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51497   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51498   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51499   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51500   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51501   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51502   sa-in-f154:https         ESTABLISHED
TCP    192.168.43.133:51508   sb-in-f138:https         ESTABLISHED
TCP    192.168.43.133:51511   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51512   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51513   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51514   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51515   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51516   sa-in-f154:http          ESTABLISHED
TCP    192.168.43.133:51517   sb-in-f121:https         ESTABLISHED
TCP    192.168.43.133:51521   sin10s01-in-f4:https     ESTABLISHED
TCP    192.168.43.133:51522   209.58.162.55:http       ESTABLISHED
TCP    192.168.43.133:51523   209.58.162.55:http       ESTABLISHED
TCP    192.168.43.133:51524   209.58.162.55:http       ESTABLISHED
TCP    192.168.43.133:51525   xx-fbcdn-shv-01-sin6:https   ESTABLISHED
TCP    192.168.43.133:51526   sa-in-f157:https         ESTABLISHED
TCP    192.168.43.133:51527   sc-in-f132:http          ESTABLISHED
TCP    192.168.43.133:51528   sc-in-f132:http          ESTABLISHED
TCP    192.168.43.133:51529   sc-in-f132:http          ESTABLISHED
TCP    192.168.43.133:51530   sa-in-f84:https          ESTABLISHED
TCP    192.168.43.133:51532   sa-in-f138:https         ESTABLISHED
TCP    192.168.43.133:51533   edge-star-mini-shv-01-sin6:https   ESTABLISHED
TCP    192.168.43.133:51534   192.168.184.4:8080       ESTABLISHED
TCP    192.168.43.133:51535   server-54-192-151-96:http   ESTABLISHED
TCP    192.168.43.133:51536   sin11s03-in-f3:http      ESTABLISHED
TCP    192.168.43.133:51537   103.243.172.110:https    ESTABLISHED
TCP    192.168.43.133:51538   sc-in-f102:https         ESTABLISHED
TCP    192.168.43.133:51539   sc-in-f102:https         ESTABLISHED
TCP    192.168.43.133:51540   202.70.49.154:http       ESTABLISHED
TCP    192.168.43.133:51541   202.70.49.154:http       ESTABLISHED
TCP    192.168.43.133:51542   202.70.49.154:http       ESTABLISHED
TCP    192.168.43.133:51543   202.70.49.154:http       ESTABLISHED
TCP    192.168.43.133:51544   202.70.49.154:http       ESTABLISHED
TCP    192.168.43.133:51545   202.70.49.154:http       ESTABLISHED
TCP    192.168.43.133:51546   sin10s01-in-f66:http     ESTABLISHED
TCP    192.168.43.133:51547   sc-in-f102:https         ESTABLISHED
TCP    192.168.43.133:51548   sc-in-f102:https         ESTABLISHED
TCP    192.168.43.133:51549   xx-fbcdn-shv-01-sin6:https   ESTABLISHED
TCP    192.168.43.133:51550   182.161.72.73:http       ESTABLISHED
TCP    192.168.43.133:51552   202.70.49.152:http       ESTABLISHED
^C
C:\Users\Carol>_
```

MAC Source   : 80:a5:89:37:8c:b7
MAC Destination   : 8c:be:be:11:20:11

Analisa : pada port 1448 dan 96 berjalan di HTTP dan HTTPS. Namun, saat port TLSv1.2 bekerja port TCP tidak dapat dijalankan, sehingga untuk IP Source dan destination : 74.125.68.154 dan 192.168.43.133 tidak mendokumentasikan kegiatan yang ada di port 1448. Selain itu, IP source 64.62.151.51 tidak ter-capture TCP sebelumnya. Untuk kedua percobaan di cmd maupun di wireshark ini hasilnya sama.

Video streaming : vidio.com

Source	Destination			Info
192.168.43.133	23.60.152.79	TCP	66	[TCP Dup ACK 4#1] 51621 → 443 [ACK] Seq=177 Ack=762 Win=1292 Len=0 SLE=7724 SRE=9102
23.60.152.79	192.168.43.133	TCP	1448	[TCP Out-Of-Order] 443 → 51621 [ACK] Seq=3542 Ack=177 Win=4193 Len=1394
192.168.43.133	216.58.221.74	QUIC	80	Payload (Encrypted), PKN: 2, CID: 9175228709756952255
192.168.43.133	74.125.130.132	QUIC	550	Payload (Encrypted), PKN: 2, CID: 11768225512675960707
104.16.94.65	192.168.43.133	TCP	66	[TCP Keep-Alive ACK] 443 → 51640 [ACK] Seq=1 Ack=2 Win=31 Len=0 SLE=1 SRE=2

```
Proto  Local Address         Foreign Address        State
TCP    0.0.0.0:135           PC-PC:0                LISTENING
TCP    0.0.0.0:445           PC-PC:0                LISTENING
TCP    0.0.0.0:5357          PC-PC:0                LISTENING
TCP    0.0.0.0:25999         PC-PC:0                LISTENING
TCP    0.0.0.0:49152         PC-PC:0                LISTENING
TCP    0.0.0.0:49153         PC-PC:0                LISTENING
TCP    0.0.0.0:49154         PC-PC:0                LISTENING
TCP    0.0.0.0:49155         PC-PC:0                LISTENING
TCP    0.0.0.0:49156         PC-PC:0                LISTENING
TCP    0.0.0.0:49170         PC-PC:0                LISTENING
TCP    0.0.0.0:49174         PC-PC:0                LISTENING
TCP    0.0.0.0:55283         PC-PC:0                LISTENING
TCP    127.0.0.1:1001        PC-PC:0                LISTENING
TCP    127.0.0.1:6543        PC-PC:0                LISTENING
TCP    127.0.0.1:6543        PC-PC:49930            ESTABLISHED
TCP    127.0.0.1:6543        PC-PC:50810            ESTABLISHED
TCP    127.0.0.1:6544        PC-PC:0                LISTENING
TCP    127.0.0.1:44430       PC-PC:0                LISTENING
TCP    127.0.0.1:49171       PC-PC:0                LISTENING
TCP    127.0.0.1:49171       PC-PC:49198            ESTABLISHED
TCP    127.0.0.1:49198       PC-PC:49171            ESTABLISHED
TCP    127.0.0.1:49930       PC-PC:6543             ESTABLISHED
TCP    127.0.0.1:50799       PC-PC:52001            ESTABLISHED
TCP    127.0.0.1:50800       PC-PC:52001            ESTABLISHED
TCP    127.0.0.1:50801       PC-PC:52001            ESTABLISHED
TCP    127.0.0.1:50802       PC-PC:52001            ESTABLISHED
TCP    127.0.0.1:50810       PC-PC:6543             ESTABLISHED
TCP    127.0.0.1:51854       PC-PC:6543             TIME_WAIT
TCP    127.0.0.1:52001       PC-PC:0                LISTENING
TCP    127.0.0.1:52001       PC-PC:50799            ESTABLISHED
TCP    127.0.0.1:52001       PC-PC:50800            ESTABLISHED
TCP    127.0.0.1:52001       PC-PC:50801            ESTABLISHED
TCP    127.0.0.1:52001       PC-PC:50802            ESTABLISHED
TCP    192.168.43.133:139    PC-PC:0                LISTENING
TCP    192.168.43.133:52146  a-0001:https           ESTABLISHED
TCP    192.168.43.133:52148  ec2-54-169-90-38:https ESTABLISHED
TCP    192.168.43.133:52149  ec2-54-169-90-38:https ESTABLISHED
TCP    192.168.43.133:52150  ec2-54-169-90-38:https ESTABLISHED
TCP    192.168.43.133:52152  ec2-54-169-90-38:https ESTABLISHED
TCP    192.168.43.133:52153  a23-62-111-189:https   ESTABLISHED
TCP    192.168.43.133:52158  a23-60-152-79:https    ESTABLISHED
TCP    192.168.43.133:52161  xx-fbcdn-shv-01-sit4:https  ESTABLISHED
TCP    192.168.43.133:52163  ec2-54-174-46-21:https ESTABLISHED
TCP    192.168.43.133:52168  edge-star-mini-shv-01-sit4:https  ESTABLISHED
TCP    192.168.43.133:52169  sc-in-f154:https       ESTABLISHED
TCP    192.168.43.133:52170  74.125.24.138:https    ESTABLISHED
TCP    192.168.43.133:52171  ec2-54-174-46-21:https TIME_WAIT
TCP    192.168.43.133:52172  server-52-84-225-91:https  ESTABLISHED
TCP    192.168.43.133:52175  21:https               ESTABLISHED
TCP    192.168.43.133:52179  server-52-84-225-112:https  ESTABLISHED
TCP    192.168.43.133:52180  sin11s01-in-f228:https ESTABLISHED
TCP    192.168.43.133:52181  server-52-84-225-103:https  ESTABLISHED
TCP    192.168.43.133:52182  209.58.162.55:https    TIME_WAIT
TCP    192.168.43.133:52186  104.16.94.65:https     ESTABLISHED
TCP    192.168.43.133:52187  sa-in-f100:http        ESTABLISHED
TCP    192.168.43.133:52188  a23-60-152-79:https    ESTABLISHED
```

```
TCP    192.168.43.133:52200    sc-in-f101:https    ESTABLISHED
TCP    192.168.43.133:52201    38.72.130.155:https    ESTABLISHED
TCP    192.168.56.1:139        PC-PC:0             LISTENING
TCP    [::]:135                PC-PC:0             LISTENING
TCP    [::]:445                PC-PC:0             LISTENING
TCP    [::]:5357               PC-PC:0             LISTENING
TCP    [::]:49152              PC-PC:0             LISTENING
TCP    [::]:49153              PC-PC:0             LISTENING
TCP    [::]:49154              PC-PC:0             LISTENING
TCP    [::]:49155              PC-PC:0             LISTENING
TCP    [::]:49156              PC-PC:0             LISTENING
TCP    [::]:49170              PC-PC:0             LISTENING
TCP    [::]:49174              PC-PC:0             LISTENING
TCP    [::1]:49471             PC-PC:0             LISTENING
UDP    0.0.0.0:123             *:*
UDP    0.0.0.0:500             *:*
UDP    0.0.0.0:3702            *:*
UDP    0.0.0.0:3702            *:*
UDP    0.0.0.0:4500            *:*
UDP    0.0.0.0:5353            *:*
UDP    0.0.0.0:5353            *:*
UDP    0.0.0.0:5353            *:*
UDP    0.0.0.0:5353            *:*
UDP    0.0.0.0:5355            *:*
UDP    0.0.0.0:49846           *:*
UDP    0.0.0.0:50993           *:*
UDP    0.0.0.0:55526           *:*
UDP    0.0.0.0:61137           *:*
UDP    0.0.0.0:61138           *:*
UDP    0.0.0.0:61141           *:*
UDP    0.0.0.0:62707           *:*
UDP    127.0.0.1:1900          *:*
UDP    127.0.0.1:56028         *:*
UDP    127.0.0.1:58317         *:*
UDP    192.168.43.133:137      *:*
UDP    192.168.43.133:138      *:*
UDP    192.168.43.133:1900     *:*
UDP    192.168.56.1:137        *:*
UDP    192.168.56.1:138        *:*
UDP    192.168.56.1:1900       *:*
UDP    [::]:123                *:*
UDP    [::]:500                *:*
UDP    [::]:3702               *:*
UDP    [::]:3702               *:*
UDP    [::]:4500               *:*
UDP    [::]:5353               *:*
UDP    [::]:5353               *:*
UDP    [::]:5355               *:*
UDP    [::]:49847              *:*
UDP    [::1]:1900              *:*
UDP    [::1]:56027             *:*
UDP    [fe80::2496:831:79b6:749f%4]:1900    *:*
UDP    [fe80::94e0:8d4e:5994:9550%7]:1900   *:*
```

MAC Source   : 80:a5:89:37:8c:b7
MAC Destination   : 8c:be:be:11:20:11

Analisa : dari hasil filter paket tersebut, paket HTTP atau HTTPS tersebut seluruhnya akan diperoleh dari port TCP 80 dan 66. Dari port tersebut juga dapat diasumsikan bahwa port tersebut adalah video streaming penulis ingin filter paketnya. Paket loss dan isu pemulihan TCP belum ada karena videonya jauh lebih terlihat ke pengguna. Untuk kedua percobaan di cmd maupun di wireshark ini hasilnya sama.