

Assignments:-1

Module:- NDC(WireShark)

Name:- Bhushan Pathrabe

Lab Assignment :-

Objective: Network Traffic Monitoring and Analysis using Wireshark

Tool Used: Wireshark

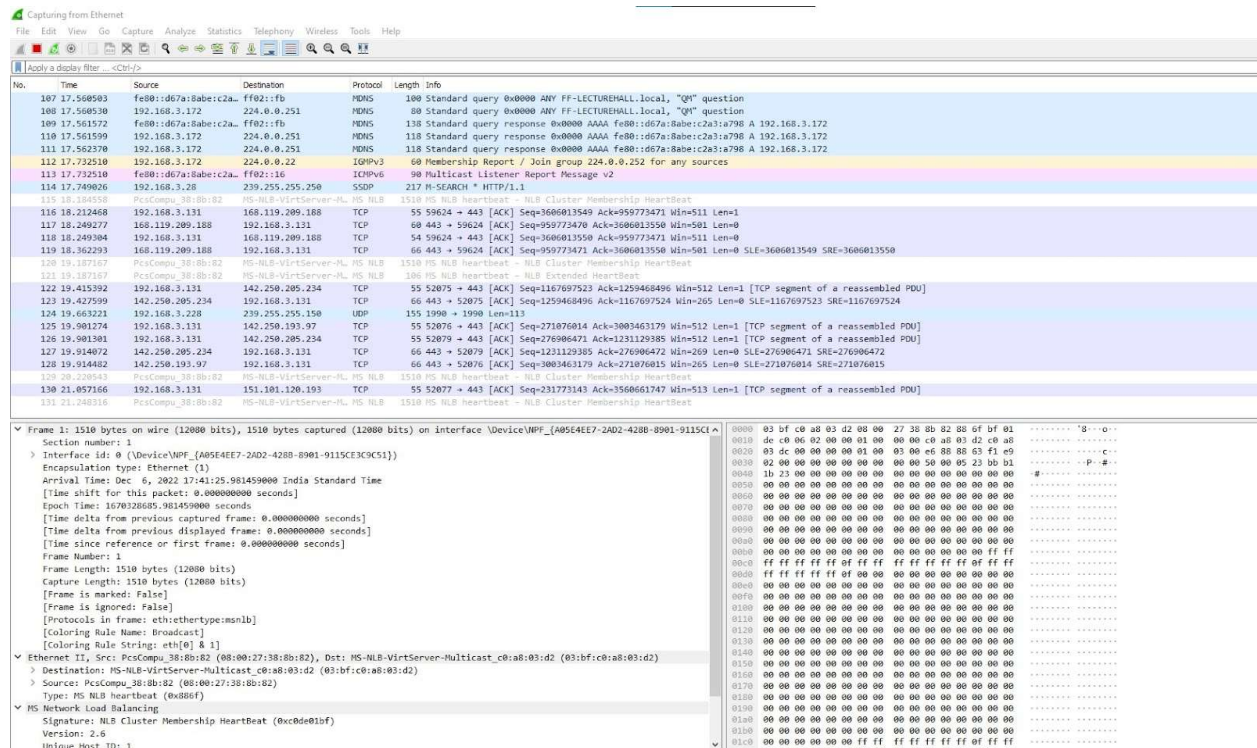
It is a network packet analyzer tool which captures network packets and tries to display that packet data as detailed as possible.

Team Size: 1

Person Duration: 3 Hours

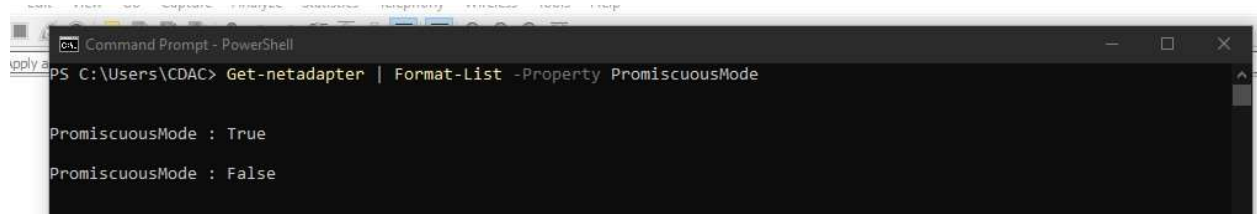
1. List down the network interfaces connected to your host. Identify the ethernet interface



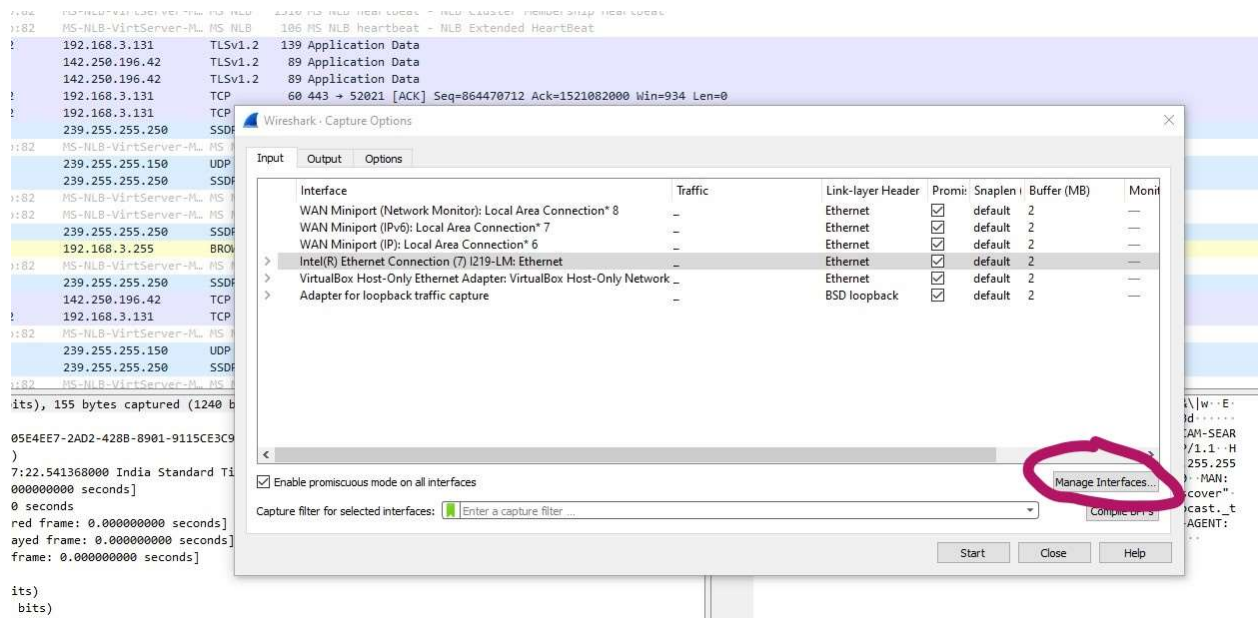


2. Check whether the network interface of your machine is in Promiscuous mode. If it is not in promiscuous mode, change it in to promiscuous mode.

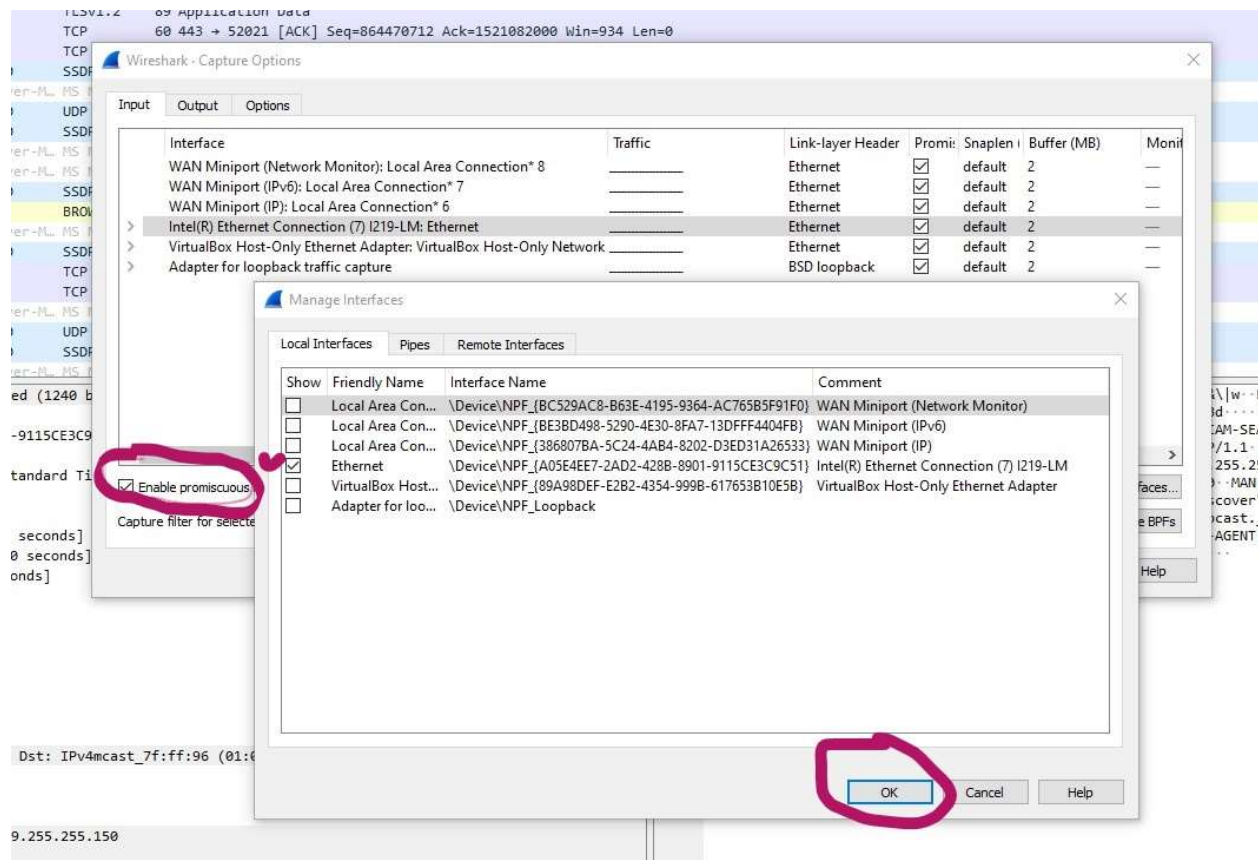
Step-1:- Go to Command Prompt And Check Promiscuous mode



Step-2:- Go to Open Wire Shark and Select Capture Option—> manage Interface



Step-3:- Enable promiscuous and Click OK

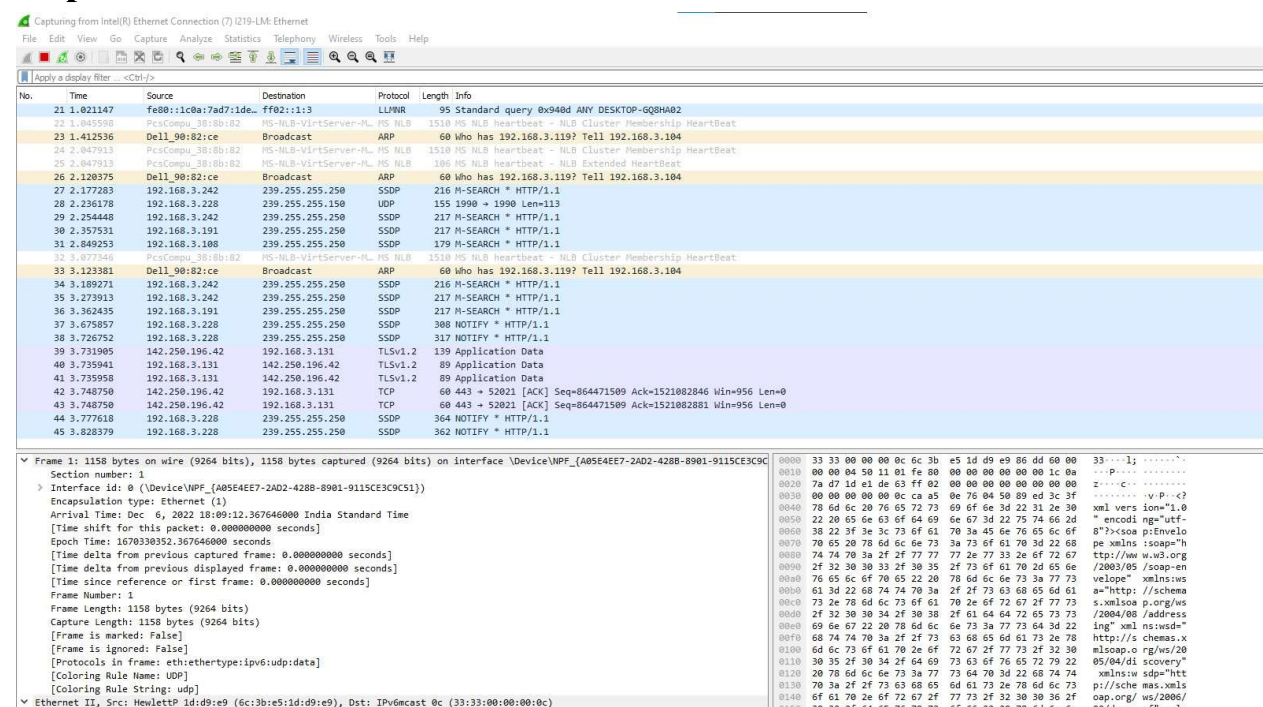


Step-3:- Check Changeable promiscuous Mode on Command Prompt

```
PS C:\Users\CDAC> Get-netadapter | Format-List -Property PromiscuousMode

PromiscuousMode : False
PromiscuousMode : False
```

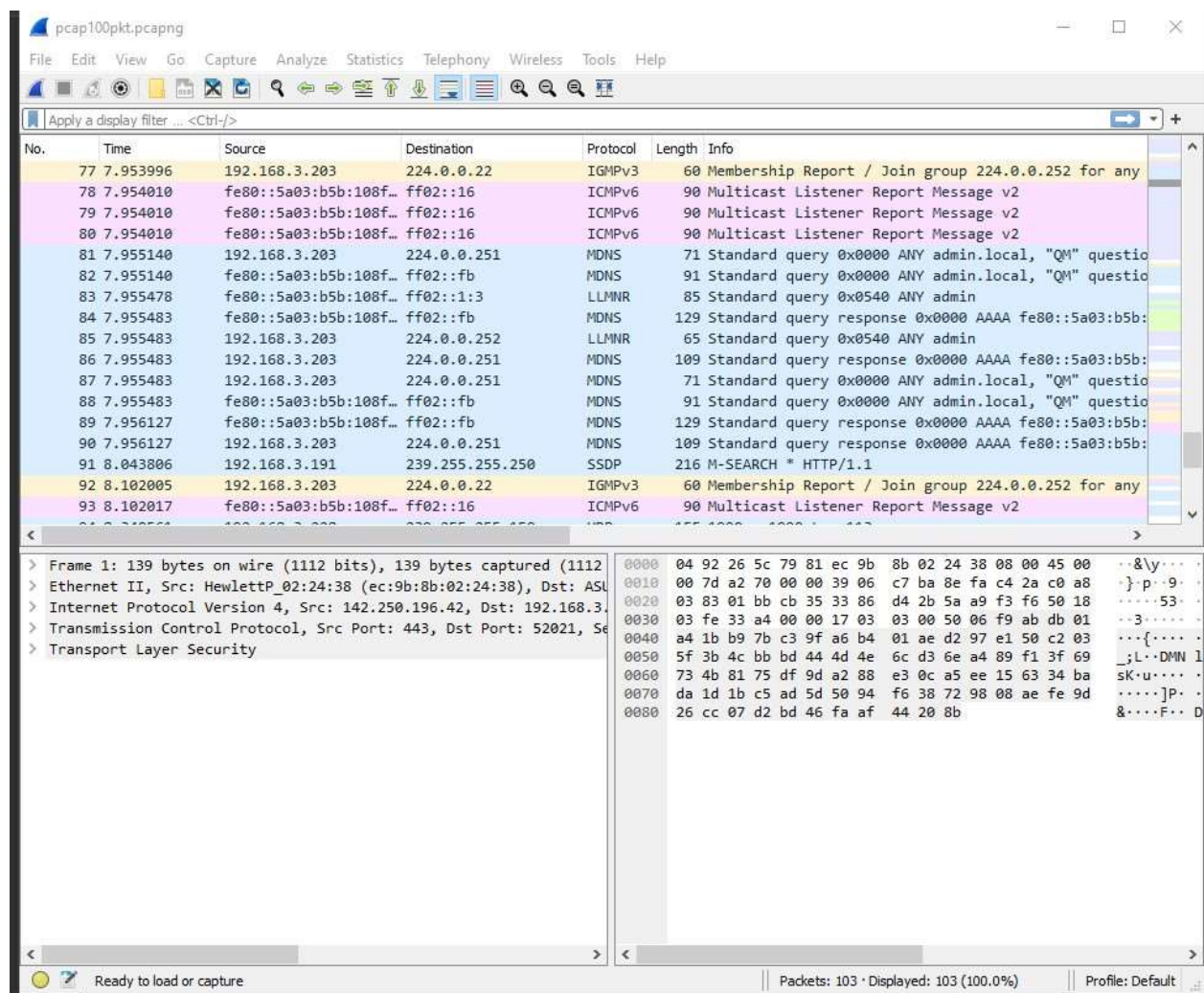
Step-4:- Open Wire Shark and Run It



3. Configure the capture stop option of the wireshark in following settings

3.a) Stop after 100 packets and store in to a file “pcap100pkt”.

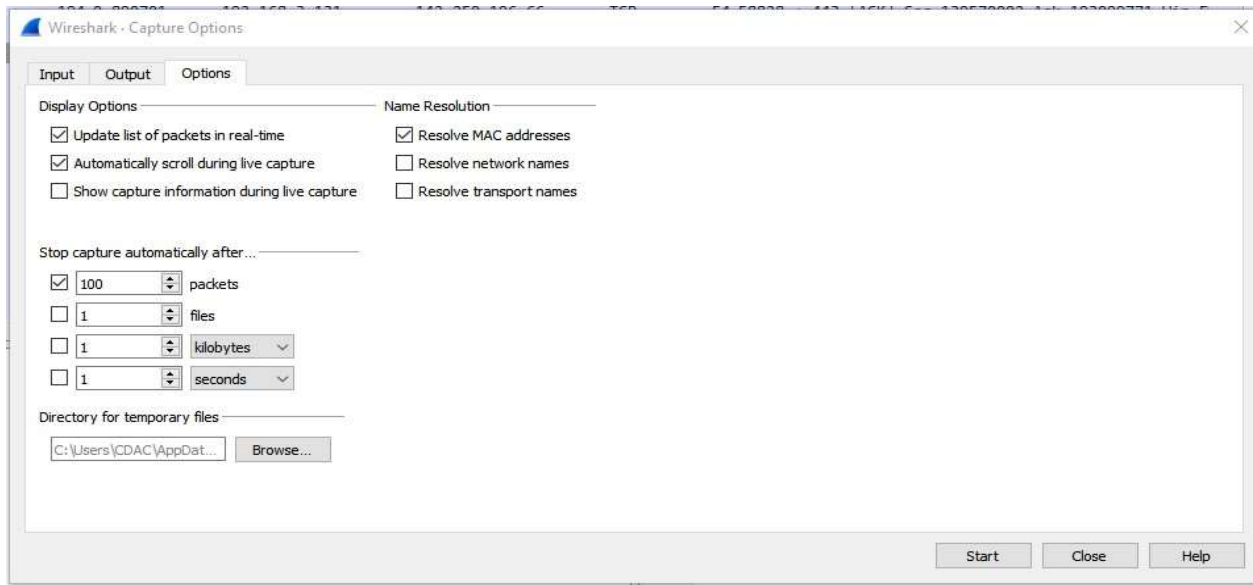
Open WireShark



Go to Capture Option ---->Right Click ---->Select Option and Set packets=100

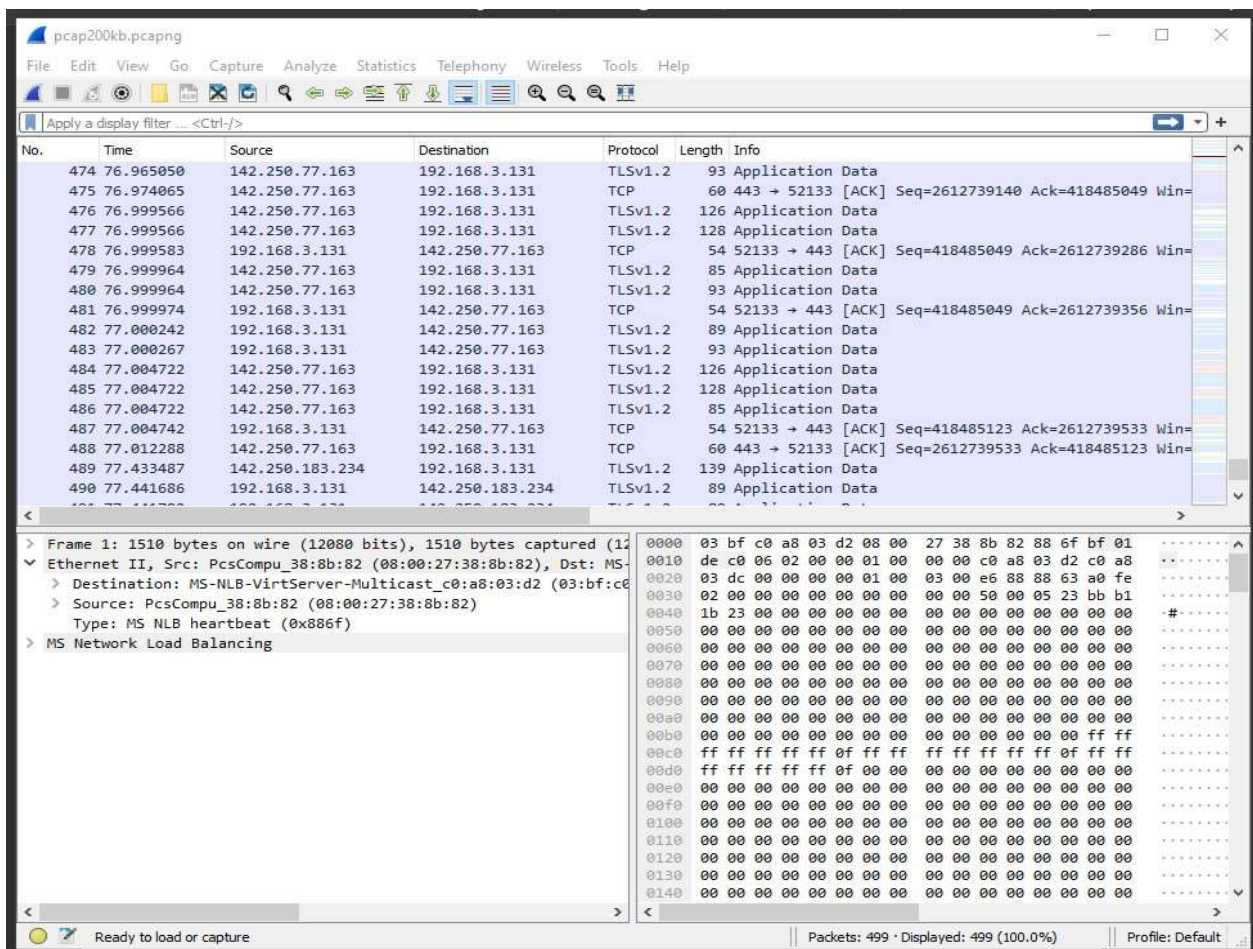
Start the WireShark

Save the file = pcap100pkt.pcap



3.b) Stop after 200 Kb and store in to a file “pcap200kb”.

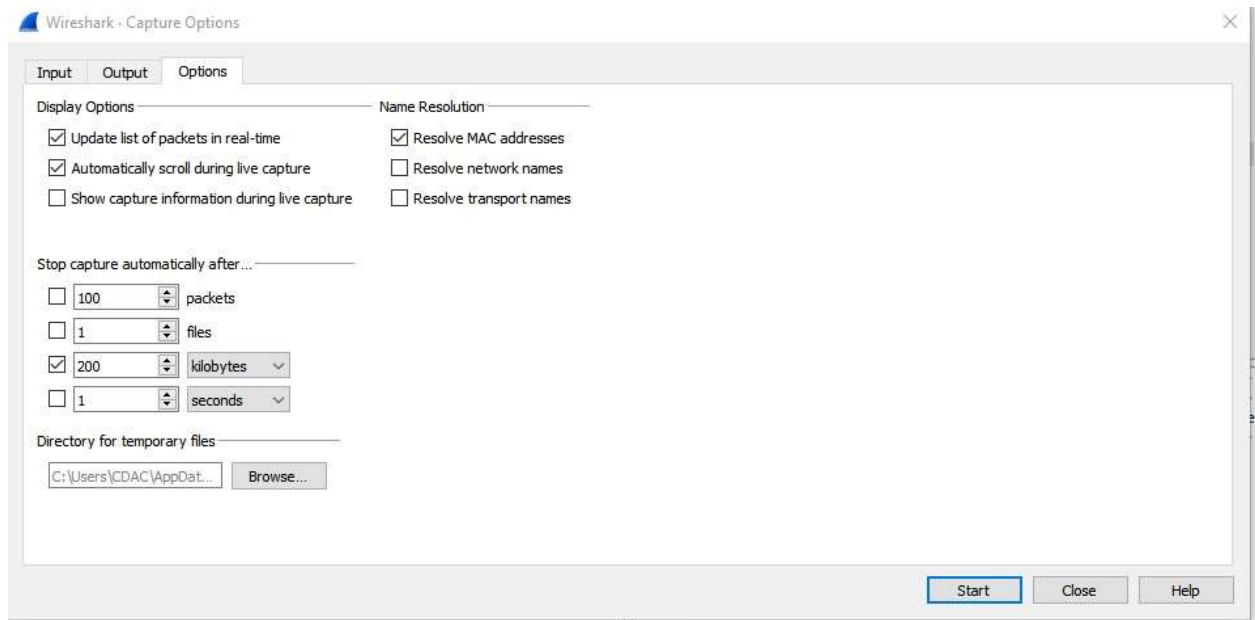
Open the Wire Shark



Go to Capture Option ---->Right Click ---->Select Option and Set Size=200kb

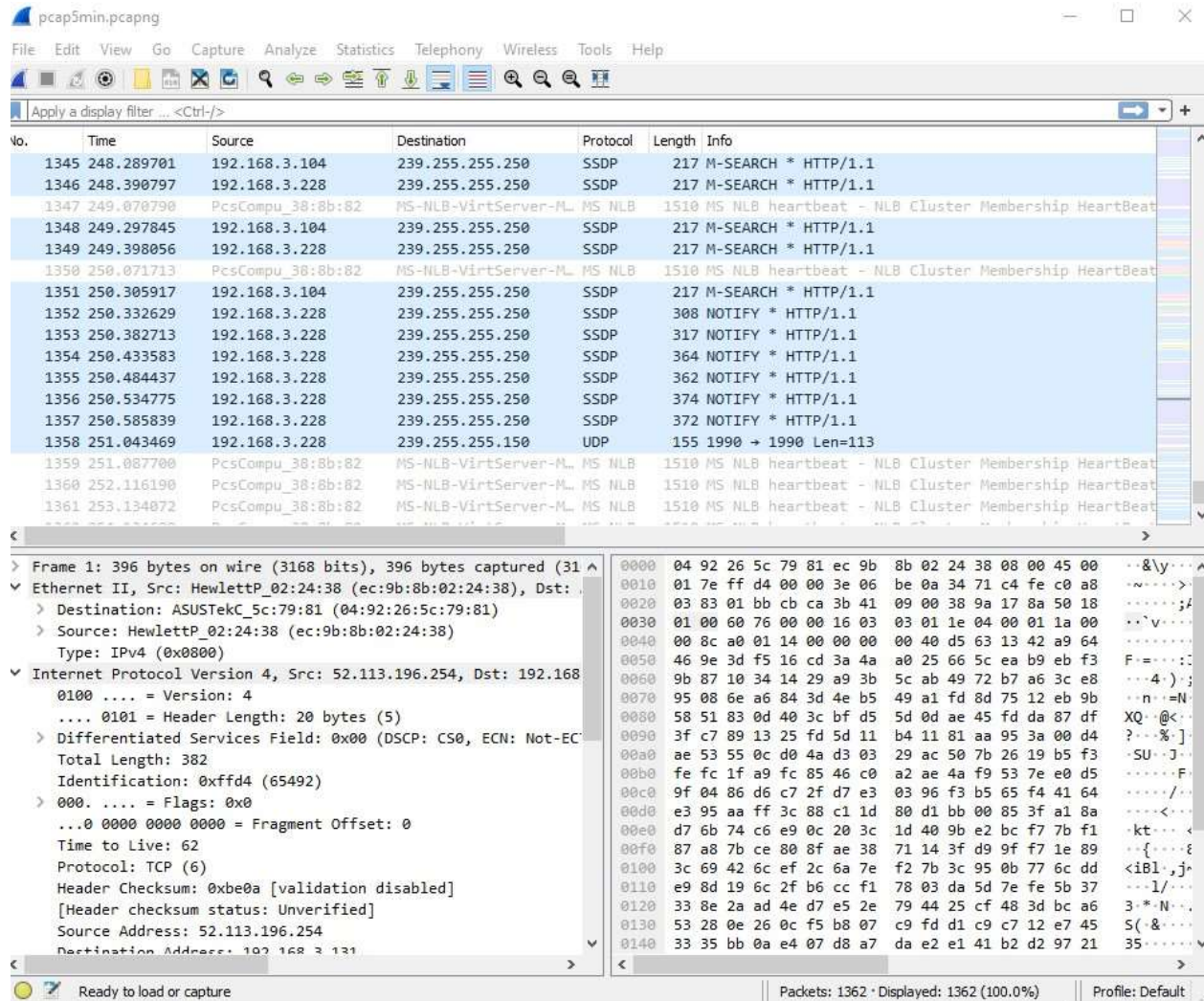
Start the WireShark

Save the file = pcap200kb.pcap



3.c) Stop after 5 minutes and store in to a file “pcap5min” .

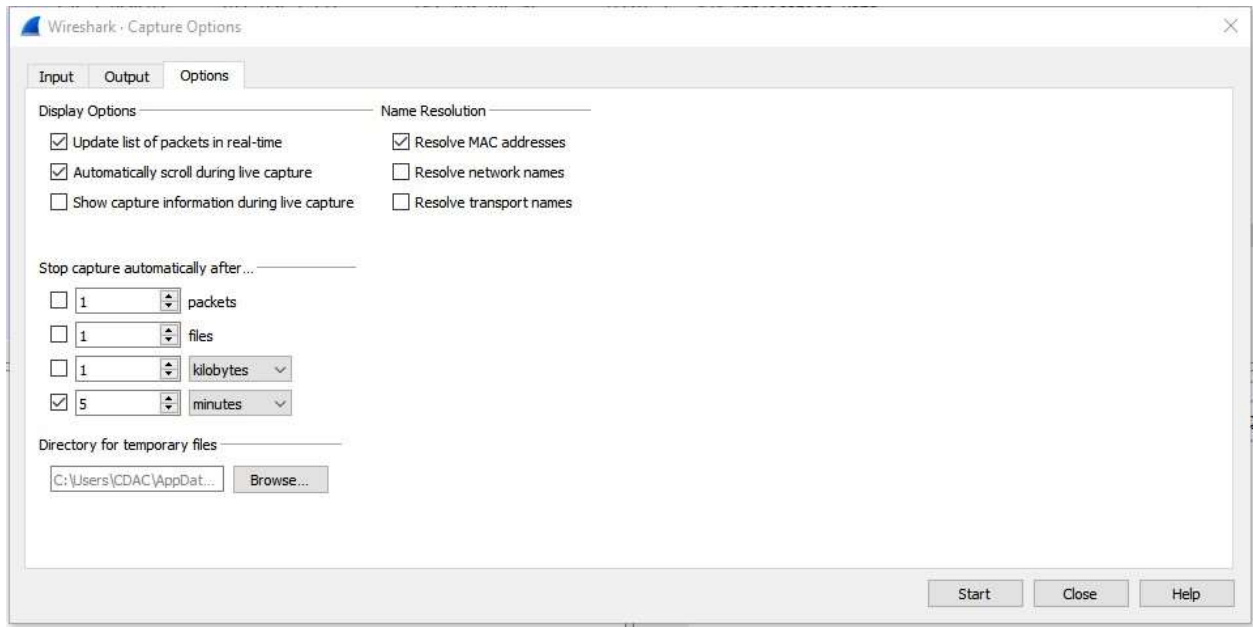
Open the Wire Shark



Go to Capture Option —>Right Click —>Select Option and Set time=5 min

Start the WireShark

Save the file = pcap5min.pcap



4. Capture live traffic from a particular host (e.g from www.google.com) and store the captured file as “pcaphost.pcap”.

Step-1:- Go to command prompt and check the host(www.google.com) IP

```

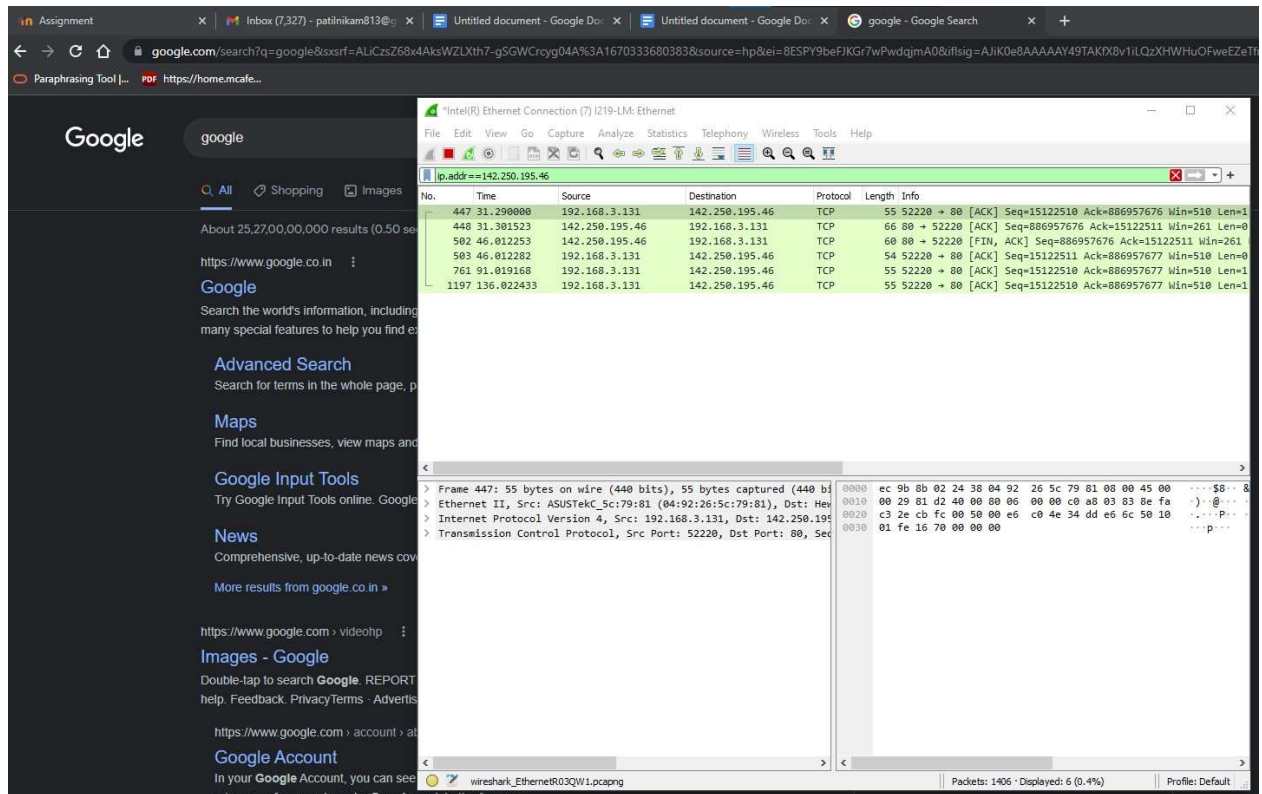
C:\Users\CDAC>nslookup
Default Server:  stuns.blr1.cdac.in
Address:  192.168.1.3

> google.com
Server:  stuns.blr1.cdac.in
Address:  192.168.1.3

Non-authoritative answer:
Name:    google.com
Addresses:  2404:6800:4007:822::200e
           142.250.195.46

```

Step-2:- Open the WireShark as well as run the Google.com on web Browser



**Step-3:- Now Capture The Live traffic through-
ip.addr=-142.250.195.46**

The image displays two screenshots from the Wireshark network protocol analyzer. The top screenshot shows a packet list with several TCP packets. The bottom screenshot shows a detailed view of packet 447, including its frame, Ethernet II header, Internet Protocol Version 4 header, and Transmission Control Protocol header.

No.	Time	Source	Destination	Protocol	Length	Info
447	31.290000	192.168.3.131	142.250.195.46	TCP	55	52220 → 80 [ACK] Seq=15122510 Ack=886957676 Win=510 Len=1
448	31.301523	142.250.195.46	192.168.3.131	TCP	66	80 → 52220 [ACK] Seq=886957676 Ack=15122511 Win=261 Len=0
502	46.012253	142.250.195.46	192.168.3.131	TCP	60	80 → 52220 [FIN, ACK] Seq=886957676 Ack=15122511 Win=261
503	46.012282	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [ACK] Seq=15122511 Ack=886957677 Win=510 Len=0
761	91.019168	192.168.3.131	142.250.195.46	TCP	55	52220 → 80 [ACK] Seq=15122510 Ack=886957677 Win=510 Len=1
1197	136.022433	192.168.3.131	142.250.195.46	TCP	55	52220 → 80 [ACK] Seq=15122510 Ack=886957677 Win=510 Len=1
1510	181.031917	192.168.3.131	142.250.195.46	TCP	55	52220 → 80 [ACK] Seq=15122510 Ack=886957677 Win=510 Len=1

Detailed view of packet 447:

```

> Frame 447: 55 bytes on wire (440 bits), 55 bytes captured (440 b
> Ethernet II, Src: ASUSTekC_5c:79:81 (04:92:26:5c:79:81), Dst: Hev
> Internet Protocol Version 4, Src: 192.168.3.131, Dst: 142.250.195
> Transmission Control Protocol, Src Port: 52220, Dst Port: 80, Seq
0000  ec 9b 8b 02 24 38 04 92 26 5c 79 81 08 00 45 00  ...$8... 8
0010  00 29 81 d2 40 00 80 06 00 00 c0 a8 03 83 8e fa  ...@...
0020  c3 2e cb fc 00 50 00 e6 c0 4e 34 dd e6 6c 50 10  ...P...
0030  01 fe 16 70 00 00 00
  
```

Wireshark interface details: wireshark_EthernetR03QW1.pcapng | Packets: 1633 · Displayed: 7 (0.4%) | Profile: Default

5. Capture live traffic from a port (e.g port 80) and store the captured file as “pcapport.pcap”.

**Step-1:- Capture the Live Traffic on port 80 using-
(ip.dst_host==142.250.195.46)||(ip.src_host==142.250.195.46&&tcp.s
report==80)&&tcp**

Wireshark capture showing a TCP connection termination sequence. The capture filter is `(ip.dst_host == 142.250.195.46) || (ip.src_host == 142.250.195.46 && tcp.srcport == 80) && tcp`.

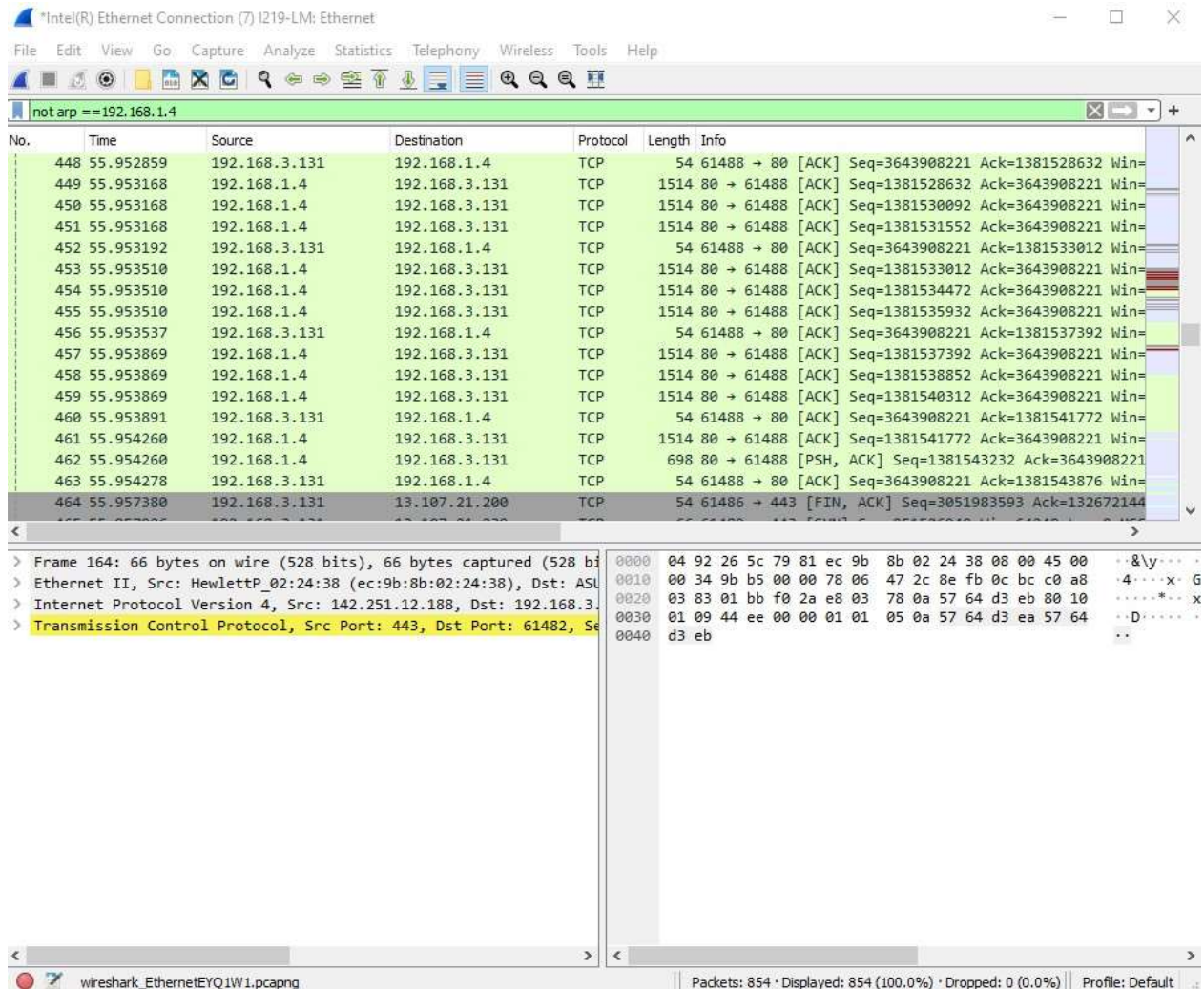
No.	Time	Source	Destination	Protocol	Length	Info
31	4.923636	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [FIN, ACK] Seq=15122511 Ack=886957677 Win=510
90	5.229675	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [FIN, ACK] Seq=15122511 Ack=886957677 Win=510
138	5.618994	192.168.3.131	142.250.195.46	TCP	55	52220 → 80 [ACK] Seq=15122510 Ack=886957677 Win=510 Len=1
217	5.843684	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [FIN, ACK] Seq=15122511 Ack=886957677 Win=510
751	7.050820	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [FIN, ACK] Seq=15122511 Ack=886957677 Win=510
765	9.457677	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [FIN, ACK] Seq=15122511 Ack=886957677 Win=510
835	14.261522	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [FIN, ACK] Seq=15122511 Ack=886957677 Win=510
869	23.866434	192.168.3.131	142.250.195.46	TCP	54	52220 → 80 [RST, ACK] Seq=15122512 Ack=886957677 Win=0 Len=0

Packet 31 details:

- Frame 31: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface
- Ethernet II, Src: ASUSTekC_5c:79:81 (04:92:26:5c:79:81), Dst: Hewlett-Packard (08:00:27:00:00:00)
- Internet Protocol Version 4, Src: 192.168.3.131, Dst: 142.250.195.46
- Transmission Control Protocol, Src Port: 52220, Dst Port: 80, Seq: 15122511, Ack: 886957677, Win: 510, Len: 0

6. Capture all non arp traffic using capturing filter operators and store the captured file as “nonarp.pcap”.

Now Capture the Non ARP packets
Not arp==192.168.1.4



7. Display the summary of the following

- * No. of packet captured, total bytes transferred
- * Average packets/sec, average packet size
- * Bandwidth usage (Average bytes/ sec)

Open Wireshark—-->Go to Statistics —--->Select Capture Filter Property

Details

File

Name: C:\Users\CDAC\AppData\Local\Temp\wireshark_Ethernet1V4TW1.pcapng
 Length: 84 kB
 Hash (SHA256): 0a4eaa30b7783bf0f1cb96022cff2fa14a4e885c7fe227e1d124c21fa9eeb65a
 Hash (RIPEMD 160): a6e43124f7a9621e386854ee1f4b54a438673081
 Hash (SHA1): 6f179270d488de07b5bbb2fbb180c22a61208571
 Format: Wireshark/... - pcapng
 Encapsulation: Ethernet

Time

First packet: 2022-12-09 19:18:54
 Last packet: 2022-12-09 19:18:56
 Elapsed: 00:00:02

Capture

Hardware: Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz (with SSE4.2)
 OS: 64-bit Windows 10 (21H2), build 19044
 Application: Dumpcap (Wireshark) 4.0.1 (v4.0.1-0-ge9f3970b1527)

Interfaces

<u>Interface</u>	<u>Dropped packets</u>	<u>Capture filter</u>	<u>Link type</u>	<u>Packet size limit (snaplen)</u>
Ethernet	0 (0.0%)	none	Ethernet	262144 bytes

Statistics

<u>Measurement</u>	<u>Captured</u>	<u>Displayed</u>	<u>Marked</u>
Packets	379	379 (100.0%)	—
Time span, s	2.267	2.267	—
Average pps	167.2	167.2	—
Average packet size, B	189	189	—
Bytes	71524	71524 (100.0%)	0
Average bytes/s	31 k	31 k	—
Average bits/s	252 k	252 k	—

Capture file comments

Refresh

Save Comments

Close

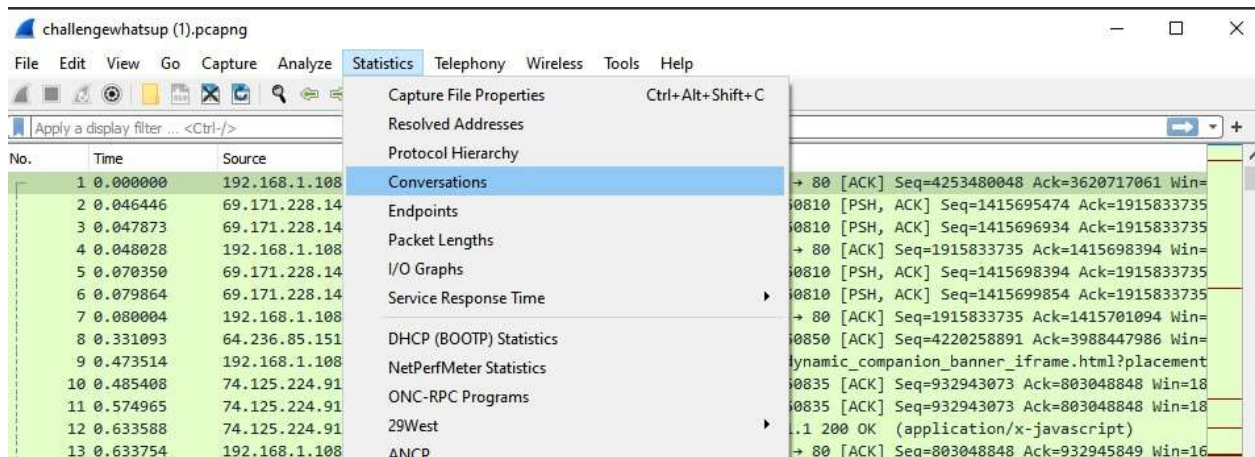
Copy To Clipboard

Help

Use the challengewhatsup.pcapng for solving the problems from 10 to 13

10. How many different IP hosts is A's machine is communicating with?

Step-1:- Now open the challengewhatsup.pcapng file ---->go to ----> Statistics ----->Select Conversation ---->Open It



Conversation Settings

☐ Name resolution

☐ Absolute start time

☐ Limit to display filter

Copy

Follow Stream...

Graph...

Protocol

☐ Bluetooth

☐ DCCP

☒ Ethernet

☐ FC

☐ FDDI

☐ IEEE 802.11

☐ IEEE 802.15.4

☐ IPv4

☐ IPv6

☐ IPX

☐ JXTA

☐ MPTCP

☐ NCP

☐ openSAFETY

☐ RSVP

☐ SCTP

☐ SLL

☒ TCP

☐ Token-Ring

☐ UDP

☐ USB

☐ ZigBee

Filter list for specific type

Conversation Settings

☐ Name resolution

☐ Absolute start time

☐ Limit to display filter

Copy

Follow Stream...

Graph...

Protocol

☐ Bluetooth

☐ DCCP

☒ Ethernet

☐ FC

☐ FDDI

☐ IEEE 802.11

☐ IEEE 802.15.4

☐ IPv4

☐ IPv6

☐ IPX

☐ JXTA

☐ MPTCP

☐ NCP

☐ openSAFETY

☐ RSVP

☐ SCTP

☐ SLL

☒ TCP

☐ Token-Ring

☐ UDP

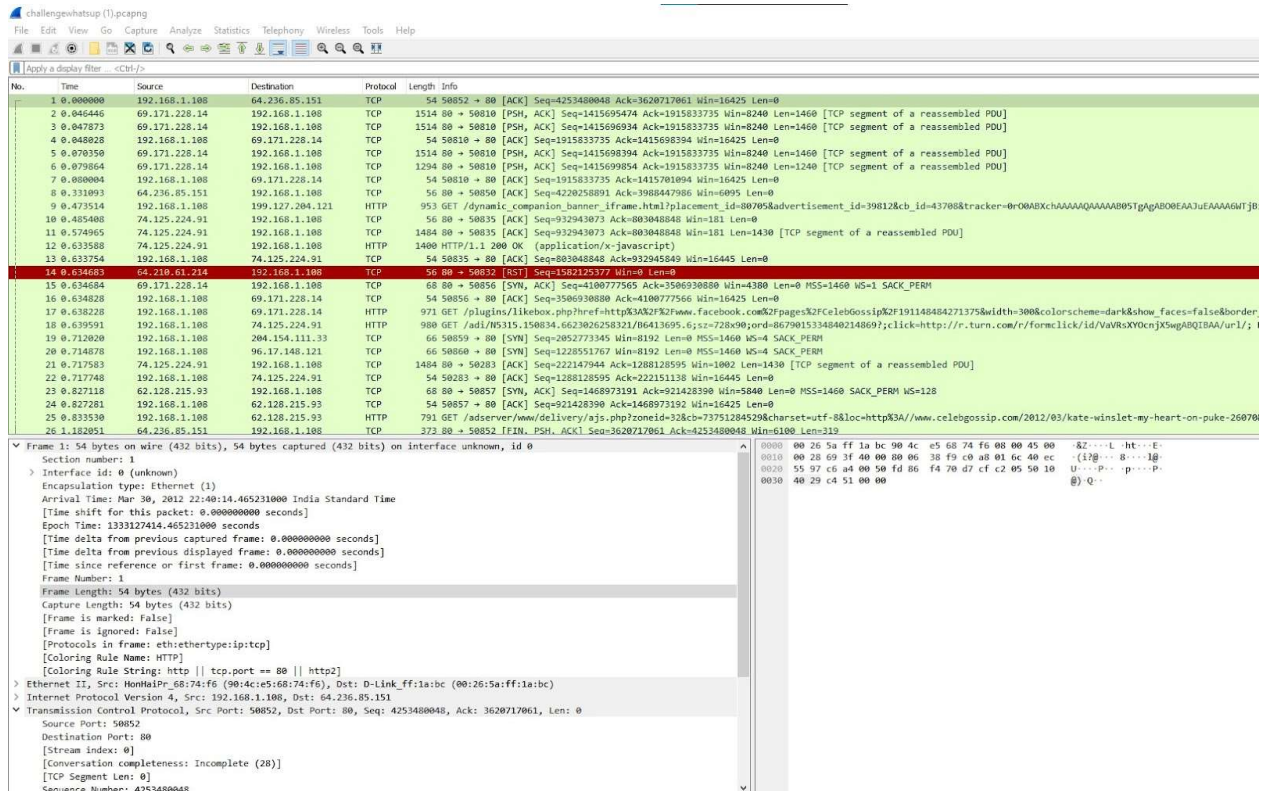
☐ USB

☐ ZigBee

Filter list for specific type

11. What is the average packets per second rate seen in trace file?

Step-1:- Now open the challengewhatsup.pcapng file



The image shows a Wireshark packet capture analysis of a file named 'challengewhatsup.pcapng'. The main packet list pane displays a series of network packets. The first packet (No. 1) is an Ethernet II frame from source 192.168.1.108 to destination 64.236.85.151, containing an IP packet from 192.168.1.108 to 64.236.85.151. The second packet (No. 2) is a TCP segment from 192.168.1.108 to 192.168.1.108, which is a self-loop. Subsequent packets (Nos. 3-13) show a sequence of TCP segments and HTTP GET requests. Notably, packet 14 is a large HTTP GET request for a JavaScript file. The packet details pane on the right shows the structure of the selected packet (No. 14), including Ethernet II, Internet Protocol Version 4, and Transmission Control Protocol fields. The packet bytes pane on the far right shows the raw hexadecimal and ASCII data of the selected packet.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.108	64.236.85.151	TCP	54	50852 → 80 [ACK] Seq=4253480048 Ack=3620717861 Win=16425 Len=0
2	0.004546	69.171.228.14	192.168.1.108	TCP	1514	80 → 50810 [PSH, ACK] Seq=1415699474 Ack=1915833735 Win=8240 Len=1460 [TCP segment of a reassembled PDU]
3	0.004787	69.171.228.14	192.168.1.108	TCP	1514	80 → 50810 [PSH, ACK] Seq=1415699394 Ack=1915833735 Win=8240 Len=1460 [TCP segment of a reassembled PDU]
4	0.004828	192.168.1.108	69.171.228.14	TCP	54	50810 → 80 [ACK] Seq=1915833735 Ack=1415698394 Win=16425 Len=0
5	0.070350	69.171.228.14	192.168.1.108	TCP	1514	80 → 50810 [PSH, ACK] Seq=1415698394 Ack=1915833735 Win=8240 Len=1460 [TCP segment of a reassembled PDU]
6	0.070864	69.171.228.14	192.168.1.108	TCP	1294	80 → 50810 [PSH, ACK] Seq=1415698354 Ack=1915833735 Win=8240 Len=1240 [TCP segment of a reassembled PDU]
7	0.080004	192.168.1.108	69.171.228.14	TCP	54	50810 → 80 [ACK] Seq=1915833735 Ack=1415701094 Win=16425 Len=0
8	0.331093	64.236.85.151	192.168.1.108	TCP	56	80 → 50850 [ACK] Seq=4202558091 Ack=3908447906 Win=6095 Len=0
9	0.473514	192.168.1.108	199.127.204.121	HTTP	953	GET /dynamic_companion_banner_iframe.html?placement_id=80705&advertisement_id=39812&cb_id=43788&tracker=0r00ABXhAAAAQAAAAAD05TpAgAB0BEAAJuEAAAAGHTJB
10	0.485408	74.125.224.91	192.168.1.108	TCP	56	80 → 50835 [ACK] Seq=932943073 Ack=803048848 Win=181 Len=0
11	0.574965	74.125.224.91	192.168.1.108	TCP	1484	80 → 50835 [ACK] Seq=932943073 Ack=803048848 Win=181 Len=1430 [TCP segment of a reassembled PDU]
12	0.633588	74.125.224.91	192.168.1.108	HTTP	1400	HTTP/1.1 200 OK (application/x-javascript)
13	0.633754	192.168.1.108	74.125.224.91	TCP	54	50835 → 80 [ACK] Seq=803048848 Ack=932945849 Win=16445 Len=0
14	0.634654	69.171.228.14	192.168.1.108	TCP	5080	80 → 50852 [ACK] Seq=1209255377 Ack=1915833735 Win=8240 Len=0 MSS=1460 WS=1 SACK_PERM=1
15	0.634664	69.171.228.14	192.168.1.108	TCP	68	80 → 50856 [SYN, ACK] Seq=4100777565 Ack=3506330680 Win=4380 Len=0 MSS=1460 WS=1 SACK_PERM=1
16	0.634828	192.168.1.108	69.171.228.14	TCP	54	50856 → 80 [ACK] Seq=3506330880 Ack=4100777566 Win=16425 Len=0
17	0.638228	192.168.1.108	69.171.228.14	HTTP	971	GET /plugins/likebox.php?href=http%3A%2F%2Fwww.facebook.com%2Fpages%2Fcelebgossip%2F191148484271375&width=300&colorscheme=dark&show_faces=false&border=
18	0.639591	192.168.1.108	74.125.224.91	HTTP	980	GET /ad/WS315.150834.6623026258321/06413695.6;sz=728x90;ord=86790153348402148697;click=http://fr.turn.com/r/formclick/id/VaVRsXYOcniJSwgAQIDAA/ur1/;
19	0.712620	192.168.1.108	204.154.111.33	TCP	66	50859 → 80 [SYN] Seq=2052773345 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
20	0.714878	192.168.1.108	96.17.140.121	TCP	66	50860 → 80 [SYN] Seq=123551767 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
21	0.717583	74.125.224.91	192.168.1.108	TCP	1484	80 → 50823 [ACK] Seq=222147944 Ack=1288128595 Win=1002 Len=1430 [TCP segment of a reassembled PDU]
22	0.717748	192.168.1.108	74.125.224.91	TCP	54	50823 → 80 [ACK] Seq=1288128595 Ack=222151138 Win=16445 Len=0
23	0.827118	62.128.215.93	192.168.1.108	TCP	68	80 → 50857 [SYN, ACK] Seq=1468973191 Ack=921428390 Win=5840 Len=0 MSS=1460 SACK_PERM=1 WS=128
24	0.827281	192.168.1.108	62.128.215.93	TCP	54	50857 → 80 [ACK] Seq=921428390 Ack=1468973192 Win=16425 Len=0
25	0.833530	192.168.1.108	62.128.215.93	HTTP	791	GET /adserver/www/delivery/ajs.php?zoneid=328cb=73751284529&charset=utf-8&loc=http%3A%2F%2Fwww.celebgossip.com/2012/03/kate-winslet-my-heart-on-puke-26078
26	1.162051	64.236.85.151	192.168.1.108	TCP	372	80 → 50852 [FIN, PSH, ACK] Seq=3620717861 Ack=4253480048 Win=6100 Len=310

▼ Frame 1: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface unknown, id 0

Section number: 1

Interface id: 0 (unknown)

Encapsulation type: Ethernet (1)

Arrival Time: Mar 30, 2012 22:40:14.465231000 India Standard Time

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1333127414.465231000 seconds

[Time delta from previous captured frame: 0.000000000 seconds]

[Time delta from previous displayed frame: 0.000000000 seconds]

[Time since reference or first frame: 0.000000000 seconds]

Frame Number: 1

Frame Length: 54 bytes (432 bits)

Capture Length: 54 bytes (432 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:ip:tcp]

[Coloring Rule Name: HTTP]

[Coloring Rule Strings: http || tcp.port == 80 || https2]

Ethernet II, Src: HontaiP:68:74:f6 (90:4c:e5:68:74:f6), Dst: D-Link_ff:1a:bc (00:26:5a:ff:1a:bc)

Internet Protocol Version 4, Src: 192.168.1.108, Dst: 64.236.85.151

Transmission Control Protocol, Src Port: 50852, Dst Port: 80, Seq: 4253480048, Ack: 3620717861, Len: 0

Source Port: 50852

Destination Port: 80

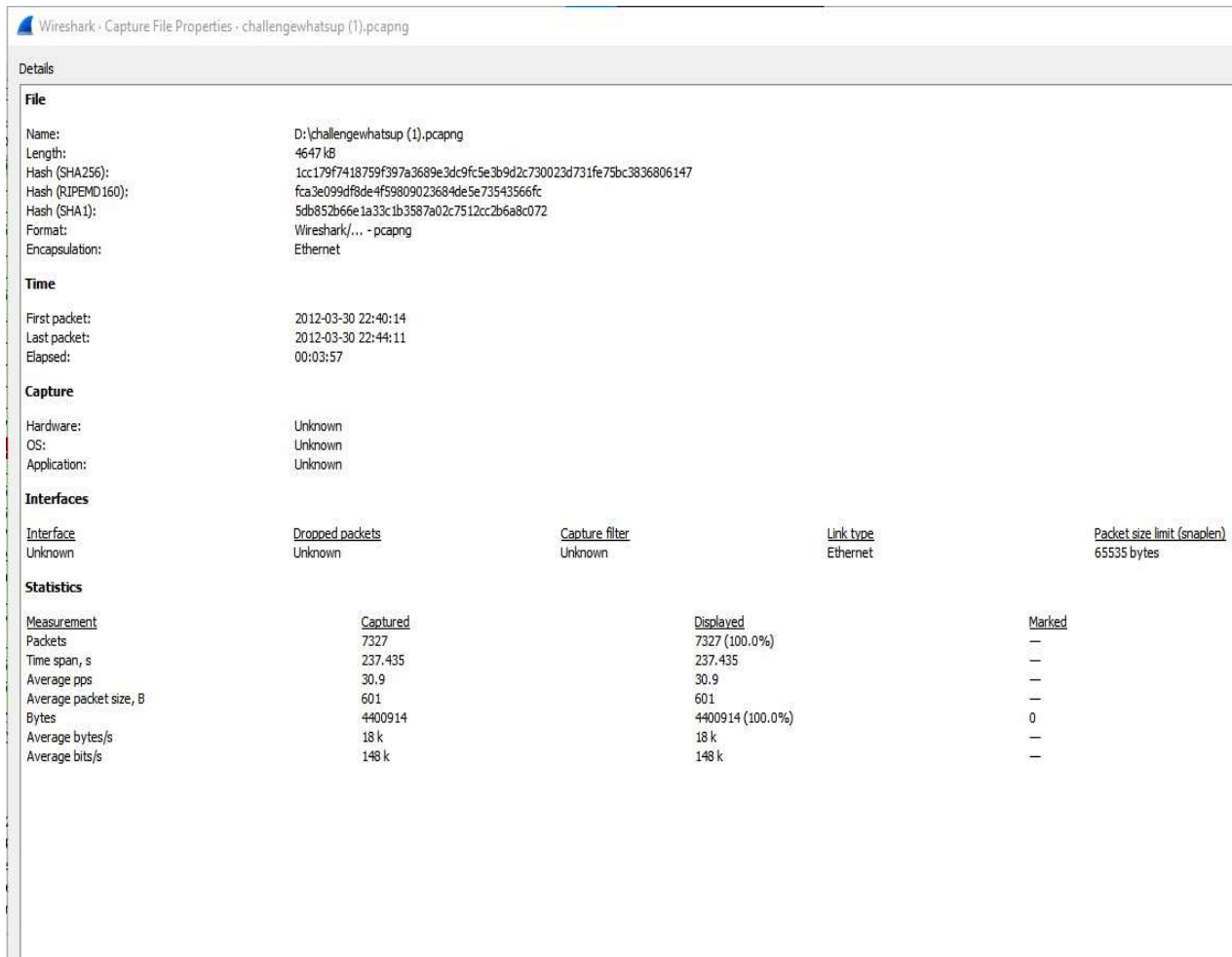
[Stream index: 0]

[Conversation completeness: Incomplete (28)]

[TCP Segment Len: 0]

Sequence Number: 4253480048

Step-2:- Open Wireshark---->Go to Statistics ----->Select Capture Filter Property



12. How many HTTP POST requests did A's machine send?

Step-1:- Now open the challengewhatsup.pcapng file

challengewhatsup (2).pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
9	0.473514	192.168.1.108	199.127.204.121	HTTP	953	GET /dynamic_companion_banner_iframe.html?placement
12	0.633588	74.125.224.91	192.168.1.108	HTTP	1400	HTTP/1.1 200 OK (application/x-javascript)
17	0.638228	192.168.1.108	69.171.228.14	HTTP	971	GET /plugins/likebox.php?href=http%3A%2F%2Fwww.face
18	0.639591	192.168.1.108	74.125.224.91	HTTP	980	GET /adi/N5315.150834.6623026258321/B6413695.6;sz=7
25	0.833530	192.168.1.108	62.128.215.93	HTTP	791	GET /adserver/www/delivery/ajs.php?zoneid=32&cb=737
29	1.183644	192.168.1.108	74.125.224.91	HTTP	1414	GET /adj/N6344.272756.AOLADVERTISING/B6390033.49;sz
32	1.193306	192.168.1.108	208.111.148.210	HTTP	617	GET /ym/1615/rSSaAiGN_512K_480x360.flv HTTP/1.1
38	1.657567	69.171.228.14	192.168.1.108	HTTP	64	HTTP/1.1 200 OK (text/html)
44	1.694739	199.127.204.121	192.168.1.108	HTTP	1426	HTTP/1.1 200 OK (text/html)
54	1.880023	69.171.228.14	192.168.1.108	HTTP	76	HTTP/1.1 200 OK (text/html)
58	2.009261	74.125.224.91	192.168.1.108	HTTP	791	HTTP/1.1 200 OK (text/html)
60	2.009880	192.168.1.108	74.125.224.91	HTTP	996	GET /adi/N3905.YuMe/B6229987.3;sz=300x250;ord=72696
62	2.024722	192.168.1.108	74.125.224.155	HTTP	616	GET /1831140/1-hopper_SizeMatters_728x90.swf HTTP/1
68	2.604156	192.168.1.108	96.17.148.121	HTTP	487	GET /b?c1=3&c2=6035940&rn=0.06679549368088&c7=http
70	2.609406	192.168.1.108	204.154.111.33	HTTP	150	GET /visit.js?ctx=1000798&cmp=6390033&ipos=&sid=101
73	2.847181	62.128.215.93	192.168.1.108	HTTP	987	HTTP/1.0 200 OK (text/javascript)
84	3.591692	74.125.224.91	192.168.1.108	HTTP	1401	HTTP/1.1 200 OK (application/x-javascript)

> Frame 9: 953 bytes on wire (7624 bits), 953 bytes captured (7624) on interface 0
 > Ethernet II, Src: HonHaiPr_68:74:f6 (90:4c:e5:68:74:f6), Dst: D-Link_8c:8e:62:74:31:12
 > Internet Protocol Version 4, Src: 192.168.1.108, Dst: 199.127.204.121
 > Transmission Control Protocol, Src Port: 50855, Dst Port: 80, Seq: 3054567890, Win: 65535, Len: 953
 > Hypertext Transfer Protocol

0000 00 26 5a ff 1a bc 90 4c e5 68 74 f6 08 00 45 00 &Z...l
 0010 03 ab 69 45 40 00 80 06 37 fa c0 a8 01 6c c7 7f ..iE@...
 0020 cc 79 c6 a7 00 50 d4 e0 23 79 94 e7 41 de 50 18 ..y...P...
 0030 40 29 5c 52 00 00 47 45 54 20 2f 64 79 6e 61 6d @)\R...GE
 0040 69 63 5f 63 6f 6d 70 61 6e 69 6f 6e 5f 62 61 6e ic_compa
 0050 6e 65 72 5f 69 66 72 61 6d 65 2e 68 74 6d 6c 3f ner_ifra
 0060 70 6c 61 63 65 6d 65 6e 74 5f 69 64 3d 38 30 37 placem
 0070 30 35 26 61 64 76 65 72 74 69 73 65 6d 65 6e 74 05&adver
 0080 5f 69 64 3d 33 39 38 31 32 26 63 62 5f 69 64 3d _id=3981
 0090 34 33 37 30 38 26 74 72 61 63 6b 65 72 3d 30 72 43708&tr
 00a0 4f 30 41 42 58 63 68 41 41 41 41 41 51 41 41 41 00ABXch/
 00b0 41 41 42 30 35 54 67 41 67 41 42 4f 30 45 41 41 AAB05Tg/
 00c0 4a 75 45 41 41 41 41 36 57 54 6a 42 69 59 4c 30 JuEAAAAE
 00d0 76 76 70 26 77 69 64 74 68 3d 33 30 30 26 68 65 vvp&wid
 00e0 69 67 68 74 3d 32 35 30 20 48 54 54 50 2f 31 2e ight=250
 00f0 31 0d 0a 41 63 63 65 70 74 3a 20 61 70 70 6c 69 1...Accep
 0100 63 61 74 69 6f 6e 2f 78 2d 6d 73 2d 61 70 70 6c cation/>
 0110 69 63 61 74 69 6f 6e 2c 20 69 6d 61 67 65 2f 6a igation,
 0120 70 65 67 2c 20 61 70 70 6c 69 63 61 74 69 6f 6e peg, app
 0130 2f 78 61 6d 6c 2b 78 6d 6c 2c 20 69 6d 61 67 65 /xaml+sm
 0140 2f 67 69 66 2c 20 69 6d 61 67 65 2f 70 6a 70 65 /gif, in

Step-2:- Open Wireshark---->Go to Statistics ----->Select HTTP

challengewhatsup (2).pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source
2171	200.682431	192.168.1.108
2172	200.684994	93.184.216.11
2175	200.684998	207.46.6.162
2189	200.686304	192.168.1.108
2190	200.687065	192.168.1.108
2191	200.690832	192.168.1.108
2192	200.709294	93.184.216.11
2207	200.775796	64.236.68.228
2211	200.775798	96.17.148.121
2215	200.775800	216.151.210.1
2222	200.775805	64.210.61.156
2234	200.776531	192.168.1.108
2242	200.785206	192.168.1.108
2244	200.794826	192.168.1.108
2259	200.816553	192.168.1.108
2261	200.836141	192.168.1.108
2265	200.843410	64.210.61.142
2280	200.853397	192.168.1.108
2291	200.915830	204.236.131.4
2294	200.915832	67.214.158.5
2298	200.915834	199.16.172.15
2305	200.916379	74.125.224.91
2322	200.992223	66.150.149.23
2340	201.026925	192.168.1.108
2342	201.027233	192.168.1.108
2346	201.032859	192.168.1.108

> Frame 9: 953 bytes on wire (7624 bytes captured) on interface 0
 > Ethernet II, Src: HonHaiPr_68:74:73:08, Dst: 08:00:27:00:00:00
 > Internet Protocol Version 4, Src: 192.168.1.108, Dst: 192.168.1.108
 > Transmission Control Protocol, Src Port: 80, Dst Port: 80
 > Hypertext Transfer Protocol

Statistics

- Capture File Properties
- Resolved Addresses
- Protocol Hierarchy
- Conversations
- Endpoints
- Packet Lengths
- I/O Graphs
- Service Response Time
- DHCP (BOOTP) Statistics
- NetPerfMeter Statistics
- ONC-RPC Programs
- 29West
- ANCP
- BACnet
- Collectd
- DNS
- Flow Graph
- HART-IP
- HPFEEDS
- HTTP**
 - Packet Counter
 - Requests**
 - Load Distribution
 - Request Sequences
- HTTP2
- Sametime
- TCP Stream Graphs
- UDP Multicast Streams
- Reliable Server Pooling (RSerPool)
- SOME/IP
- F5
- IPv4 Statistics
- IPv6 Statistics

201213.js HTTP/1.1
 200 OK (JPEG JFIF image)
 302 Found (text/html)
 intellitxt/front.asp?ipid=33723 HTTP/1.1
 thumbnails/StreetFighter2.jpg HTTP/1.1
 ddyn/3.0/5389.1/2306811/0/170/ADTECH;loc=100;t
 200 OK (PNG)
 200 OK (application/x-javascript)
 204 No Content
 200 OK (application/x-javascript)
 200 OK (text/html)
 sftcookiehandler?t=1&c= HTTP/1.1
 images/IconOnlyCollisionMarker.png HTTP/1.1
 di/N553.281598.MAGNETICNETWORK/B6217695.3;sz=7
 /8711/14219/29069-15.js?cb=0.6495469201300568&
 p-content/themes/gamewall/images/boomify.png H
 200 OK (GIF89a)
 ds/freegamewall300x250_tag.html?%%CACHEBUSTER%
 200 OK (text/html)
 200 OK (PNG)
 200 OK (application/x-javascript)
 n/x-javascript)
 CtfbPwAAAMDmzPw_16NwPQrX
 =90;coid=273;nid=8485;cr
 HTTP/1.1

Unknown, id 0
 26:5a:ff:1a:bc)
 : 2498183646, Len: 899

Step-3:- HTTP Post request

Wireshark - Packet Counter - challengewhatsup (2).pcapng

Topic / Item	Count	Average	Min Val	Max Val	Rate (ms)	Percent	Burst Rate	Burst Start
▼ Total HTTP Packets	1351				0.0057	100%	0.2100	207.638
Other HTTP Packets	39				0.0002	2.89%	0.0500	211.164
▼ HTTP Response Packets	612				0.0026	45.30%	0.0800	221.827
???: broken	0				0.0000	0.00%	-	-
▼ 5xx: Server Error	4				0.0000	0.65%	0.0100	37.394
504 Gateway Time-out	4				0.0000	100.00%	0.0100	37.394
▼ 4xx: Client Error	1				0.0000	0.16%	0.0100	85.763
404 Not Found	1				0.0000	100.00%	0.0100	85.763
▼ 3xx: Redirection	65				0.0003	10.62%	0.0300	36.129
304 Not Modified	1				0.0000	1.54%	0.0100	197.361
302 Found	59				0.0002	90.77%	0.0300	36.129
301 Moved Permanently	5				0.0000	7.69%	0.0100	134.648
▼ 2xx: Success	542				0.0023	88.56%	0.0800	221.827
204 No Content	44				0.0002	8.12%	0.0300	205.858
200 OK	498				0.0021	91.88%	0.0800	221.827
1xx: Informational	0				0.0000	0.00%	-	-
▼ HTTP Request Packets	700				0.0030	51.81%	0.1400	207.638
POST	3				0.0000	0.43%	0.0100	33.620
GET	697				0.0029	99.57%	0.1400	207.638

Display filter: Apply

Copy Save as... Close

13. What application appears to be generating the GET/POST requests?

Step-1:- Open Wireshark---->Go to Statistics ----->Select HTTP ----->Packet Counter

challengewhatsup (2).pcapng

File Edit View Go Capture Analyze **Statistics** Telephony Wireless Tools Help

Current filter: http

No.	Time	Source
2171	200.682431	192.168.1.108
2172	200.684994	93.184.216.11
2175	200.684998	207.46.6.162
2189	200.686304	192.168.1.108
2190	200.687065	192.168.1.108
2191	200.690832	192.168.1.108
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2340	201.026925	192.168.1.108
2342	201.027233	192.168.1.108
2346	201.032859	192.168.1.108

> Frame 9: 953 bytes on wire (7624)

> Ethernet II, Src: HonHaiPr_68:74:

> Internet Protocol Version 4, Src:

> Transmission Control Protocol, Src:

> **Hypertext Transfer Protocol**

Capture File Properties Ctrl+Alt+Shift+C

Resolved Addresses

Protocol Hierarchy

Conversations

Endpoints

Packet Lengths

I/O Graphs

Service Response Time

DHCP (BOOTP) Statistics

NetPerfMeter Statistics

ONC-RPC Programs

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SOME/IP

F5

IPv4 Statistics

IPv6 Statistics

Packet Counter

Requests

Load Distribution

Request Sequences

-201213.js HTTP/1.1

1.1 200 OK (JPEG JFIF imag

1.1 302 Found (text/html)

Intellitxt/front.asp?ipid=3

thumbnails/StreetFighter2.j

ddyn/3.0/5389.1/2306811/0/

1.1 200 OK (PNG)

1.0 200 OK (application/x-

1.1 204 No Content

1.1 200 OK (application/x-

1.1 200 OK (text/html)

softcookiehandler?t=1&c= HT

Images/IconOnlyCollisionMar

di/N553.281598.MAGNETICNET

/8711/14219/29069-15.js?cb

p-content/themes/gamewall/

1.1 200 OK (GIF89a)

ds/freegamewall300x250_tag

1.1 200 OK (text/html)

1.1 200 OK (PNG)

1.1 200 OK (application/x-

n/x-

Ctfb

=90;

HTTP

e unknown, id 0

26:5a:ff:1a:bc)

: 2498183646, Len: 899

Step-2:-

Wireshark - Packet Counter - challengewhatsup (2).pcapng

Topic / Item	Count	Average	Min Val	Max Val	Rate (ms)	Percent	Burst Rate	Burst Start
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POST	3				0.0000	0.43%	0.0100	33.620
GET	697				0.0029	99.57%	0.1400	207.638

Display filter: Apply

Copy Save as... Close

Step-3:-

