

TASK – 1

task1-investigation.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

dns

No.	Time	Source	Destination	Protocol	Length	Info
61	1.650389	172.16.30.122	8.8.8.8	DNS	79	Standard query 0x2775
62	1.650699	172.16.30.122	8.8.8.8	DNS	79	Standard query 0x3ae9
63	1.801202	183.82.243.66	172.16.30.122	DNS	1042	Standard query respon
123	3.036757	202.122.21.106	172.16.30.122	DNS	1042	Standard query respon
178	3.673303	172.16.30.122	183.82.243.66	DNS	79	Standard query 0x2715
179	3.673555	172.16.30.122	183.82.243.66	DNS	79	Standard query 0xdf7c
220	4.125966	8.8.8.8	172.16.30.122	DNS	1042	Standard query respon
236	5.696046	172.16.30.122	8.8.8.8	DNS	79	Standard query 0xde54
244	6.581222	183.82.243.66	172.16.30.122	DNS	1042	Standard query respon
245	6.654627	183.82.243.66	172.16.30.122	DNS	1042	Standard query respon
246	6.697219	172.16.30.122	183.82.243.66	DNS	79	Standard query 0xde54
264	7.697721	172.16.30.122	202.122.21.106	DNS	79	Standard query 0xde54
291	9.697795	172.16.30.122	8.8.8.8	DNS	79	Standard query 0xde54
292	9.697945	172.16.30.122	183.82.243.66	DNS	79	Standard query 0xde54
293	9.698009	172.16.30.122	202.122.21.106	DNS	79	Standard query 0xde54
334	12.069610	8.8.8.8	172.16.30.122	DNS	1042	Standard query respon
344	12.143078	183.82.243.66	172.16.30.122	DNS	1042	Standard query respon
1093	34.708107	172.16.30.122	8.8.8.8	DNS	91	Standard query 0x31da
1104	35.708629	172.16.30.122	183.82.243.66	DNS	91	Standard query 0x31da
1131	36.708665	172.16.30.122	202.122.21.106	DNS	91	Standard query 0x31da
1146	36.972352	8.8.8.8	172.16.30.122	DNS	1042	Standard query respon
1170	38.057024	183.82.243.66	172.16.30.122	DNS	1042	Standard query respon
1182	38.714173	202.122.21.106	172.16.30.122	DNS	1042	Standard query respon
1327	44.881401	172.16.30.122	8.8.8.8	DNS	91	Standard query 0x6f31
1354	45.881171	172.16.30.122	183.82.243.66	DNS	91	Standard query 0x6f31
1371	46.881457	172.16.30.122	202.122.21.106	DNS	91	Standard query 0x6f31

.... .0.. = Z: reserved (0)
.... .0 = Non-authenticated da

Questions: 1
Answer RRs: 0
Authority RRs: 0
Additional RRs: 0

> Queries
[Response In: 220]

0000	18 b1 69 ee 46 3d 14 85 7f 68 89 31 08 00 45
0010	00 41 d6 df 00 00 80 11 89 32 ac 10 1e 7a 08
0020	08 08 c6 03 00 35 00 2d 27 6e 27 75 01 00 00
0030	00 00 00 00 00 00 04 6d 61 69 6e 0a 76 73 63
0040	64 65 2d 63 64 6e 03 6e 65 74 00 00 01 00 01

host-machine.pcapng
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ip.src==172.16.30.122&&dns
✕ ↩ +

No.	Time	Source	Destination	Protocol	Length	Info
61	1.650389	172.16.30.122	8.8.8.8	DNS	79	Standard query 0x2775
62	1.650699	172.16.30.122	8.8.8.8	DNS	79	Standard query 0x3ae9
178	3.673303	172.16.30.122	183.82.243.66	DNS	79	Standard query 0x2715
179	3.673555	172.16.30.122	183.82.243.66	DNS	79	Standard query 0xdf7c
236	5.696046	172.16.30.122	8.8.8.8	DNS	79	Standard query 0xde54
246	6.697219	172.16.30.122	183.82.243.66	DNS	79	Standard query 0xde54
264	7.697721	172.16.30.122	202.122.21.106	DNS	79	Standard query 0xde54
291	9.697795	172.16.30.122	8.8.8.8	DNS	79	Standard query 0xde54
292	9.697945	172.16.30.122	183.82.243.66	DNS	79	Standard query 0xde54
293	9.698009	172.16.30.122	202.122.21.106	DNS	79	Standard query 0xde54
1093	34.708107	172.16.30.122	8.8.8.8	DNS	91	Standard query 0x31da
1104	35.708629	172.16.30.122	183.82.243.66	DNS	91	Standard query 0x31da
1131	36.708665	172.16.30.122	202.122.21.106	DNS	91	Standard query 0x31da
1327	44.881401	172.16.30.122	8.8.8.8	DNS	91	Standard query 0x6f31
1354	45.881171	172.16.30.122	183.82.243.66	DNS	91	Standard query 0x6f31
1371	46.881457	172.16.30.122	202.122.21.106	DNS	91	Standard query 0x6f31
1400	48.881705	172.16.30.122	8.8.8.8	DNS	91	Standard query 0x6f31
1401	48.881832	172.16.30.122	183.82.243.66	DNS	91	Standard query 0x6f31
1402	48.881881	172.16.30.122	202.122.21.106	DNS	91	Standard query 0x6f31
1494	54.216060	172.16.30.122	8.8.8.8	DNS	82	Standard query 0x9fc0
1496	54.216130	172.16.30.122	8.8.8.8	DNS	82	Standard query 0x0364
1676	58.337678	172.16.30.122	8.8.8.8	DNS	89	Standard query 0xc462
1681	58.708477	172.16.30.122	8.8.8.8	DNS	86	Standard query 0xae8c
1694	59.337868	172.16.30.122	183.82.243.66	DNS	89	Standard query 0xc462
1695	59.432170	172.16.30.122	8.8.8.8	DNS	91	Standard query 0x5332
1696	59.708456	172.16.30.122	183.82.243.66	DNS	86	Standard query 0xae8c

> Transaction ID: 0x3ae9

Flags: 0x0100 Standard query

0... .. = Response: Message is
.000 0... .. = Opcode: Standard que
... ..0. = Truncated: Message i
... ..1 = Recursion desired: D
... ..0. = Z: reserved (0)
... ..0 = Non-authenticated da

0000

18 b1 69 ee 46 3d 14 85 7f 68 89 31 08 00 45

0010

00 41 d6 e0 00 00 80 11 89 31 ac 10 1e 7a 08

0020

08 08 ff e2 00 35 00 2d 9a 1a 3a e9 01 00 00

0030

00 00 00 00 00 00 04 6d 61 69 6e 0a 76 73 63

0040

64 65 2d 63 64 6e 03 6e 65 74 00 00 41 00 01

The screenshot displays the Wireshark interface with the following components:

- Top Bar:** Shows the host name "host-machine.pcapng" and standard window controls.
- Menu Bar:** Includes File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Wireless, Tools, and Help.
- Toolbar:** Contains icons for various network analysis functions like capture, display, and zoom.
- Filter Bar:** The active filter is "dns&&dns.flags.response==1", which filters the display to show only DNS response packets.
- Packet List:** A table of captured packets. Packet 63 is selected, showing it is a DNS query response from 183.82.243.66 to 172.16.30.122.
- Packet Details:** The selected packet is expanded, showing the Ethernet II header, Internet Protocol Version 4 header, and the Hypertext Transfer Protocol (HTTP) section, which is a 200 OK response from the Microsoft Office client.
- Packet Bytes:** The raw data of the selected packet is shown in hexadecimal and ASCII format.

host-machine.pcapng

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dns&&dns.flags.response==1

▼ Queries

▼ main.vscode-cdn.net: type A, class IN

Name: main.vscode-cdn.net

[Name Length: 19]

[Label Count: 3]

Type: A (1) (Host Address)

Class: IN (0x0001)

▼ Answers

▼ main.vscode-cdn.net: type CNAME, class IN, cname vscode-

Name: main.vscode-cdn.net

Type: CNAME (5) (Canonical NAME for an alias)

Class: IN (0x0001)

Time to live: 1229 (20 minutes, 29 seconds)

Data length: 25

CNAME: vscode-cdn.z01.azurefd.net

▼ vscode-cdn.z01.azurefd.net: type CNAME, class IN, cname

Name: vscode-cdn.z01.azurefd.net

Type: CNAME (5) (Canonical NAME for an alias)

Class: IN (0x0001)

Time to live: 42 (42 seconds)

Data length: 20

CNAME: mr-z01.tm-azurefd.net

▼ mr-z01.tm-azurefd.net: type CNAME, class IN, cname shed.

Name: mr-z01.tm-azurefd.net

Type: CNAME (5) (Canonical NAME for an alias)

Class: IN (0x0001)

Time to live: 40 (40 seconds)

Data length: 42

CNAME: shed.dual-low.part-0030.t-0009.t-msedge.net

▼ shed.dual-low.part-0030.t-0009.t-msedge.net: type CNAME,

Name: shed.dual-low.part-0030.t-0009.t-msedge.net

Type: CNAME (5) (Canonical NAME for an alias)

Class: IN (0x0001)

Time to live: 29 (29 seconds)

Data length: 2

CNAME: part-0030.t-0009.t-msedge.net

0000 14 85 7f 68 89 31 94 a6 7e 74 1f 8f 08 00 45 00 ...h.1.

0010 04 04 ba bb 40 00 40 11 07 0e b7 52 f3 42 ac 10 ...@.6

0020 1e 7a 00 35 ec b0 03 f0 db 34 4e c3 81 80 00 01 ...z.5...

0030 00 06 00 00 00 00 04 6d 61 69 6e 0a 76 73 63 6f ...

0040 64 65 2d 63 64 6e 03 6e 65 74 00 00 01 00 01 c0 de-cdn.

0050 0c 00 05 00 01 00 00 04 cd 00 19 0a 76 73 63 6f ...

0060 64 65 2d 63 64 6e 03 7a 30 31 07 61 7a 75 72 65 de-cdn.

0070 66 64 c0 1c c0 31 00 05 00 01 00 00 00 2a 00 14 fd...1.

0080 06 6d 72 2d 7a 30 31 0a 74 6d 2d 61 7a 75 72 65 mr-z01.

0090 66 64 c0 1c c0 56 00 05 00 01 00 00 00 28 00 2a fd...V.

00a0 04 73 68 65 64 08 64 75 61 6c 2d 6c 6f 77 09 70 shed-c

00b0 61 72 74 2d 30 30 33 30 06 74 2d 30 30 30 39 08 art-00:

00c0 74 2d 6d 73 65 64 67 65 c0 1c c0 76 00 05 00 01 t-msedg

00d0 00 00 00 1d 00 02 c0 84 c0 84 00 01 00 01 00 00 ...

00e0 00 1d 00 04 0d 6b f6 3a c0 84 00 01 00 01 00 00 ...k.

00f0 00 1d 00 04 0d 6b d5 3a 00 00 00 00 00 00 00 00 ...k.

0100 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0110 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0120 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0130 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0190 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

01a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

01b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

01c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

01d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

01e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

01f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0200 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0210 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0220 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0230 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0240 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0250 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0260 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0270 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0280 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

0290 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

02a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...

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dns.flags.response==0

No.	Time	Source	Destination	Protocol	Length	Info
3	0.000000	172.16.30.185	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local
4	0.000000	fe80::6a7e:d024:8bb...	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local
10	0.307340	172.16.31.18	224.0.0.251	MDNS	70	Standard query 0x0000 A wpad.local, "QM" question
11	0.307340	fe80::1376:4f18:681...	ff02::fb	MDNS	90	Standard query 0x0000 A wpad.local, "QM" question
12	0.307340	172.16.31.18	224.0.0.251	MDNS	70	Standard query 0x0000 A wpad.local, "QM" question
13	0.307340	fe80::1376:4f18:681...	ff02::1:3	LLMNR	84	Standard query 0xb50c A wpad
14	0.307340	172.16.31.18	224.0.0.252	LLMNR	64	Standard query 0xb50c A wpad
15	0.307340	fe80::1376:4f18:681...	ff02::fb	MDNS	90	Standard query 0x0000 A wpad.local, "QM" question
16	0.307340	fe80::1376:4f18:681...	ff02::1:3	LLMNR	84	Standard query 0xd9e1 A wpad
17	0.307340	172.16.31.18	224.0.0.252	LLMNR	64	Standard query 0xd9e1 A wpad
19	0.909751	fe80::1376:4f18:681...	ff02::1:3	LLMNR	84	Standard query 0xd9e1 A wpad
20	0.909751	fe80::1376:4f18:681...	ff02::1:3	LLMNR	84	Standard query 0xb50c A wpad
21	0.909751	172.16.31.18	224.0.0.252	LLMNR	64	Standard query 0xb50c A wpad
22	0.909751	172.16.31.18	224.0.0.252	LLMNR	64	Standard query 0xd9e1 A wpad
25	0.909751	172.16.30.185	224.0.0.251	MDNS	82	Standard query 0x0000 PTR _googlecast._tcp.local
26	0.909751	fe80::6a7e:d024:8bb...	ff02::fb	MDNS	102	Standard query 0x0000 PTR _googlecast._tcp.local
29	1.483210	172.16.31.18	224.0.0.251	MDNS	70	Standard query 0x0000 A wpad.local, "QM" question
30	1.483817	fe80::1376:4f18:681...	ff02::fb	MDNS	90	Standard query 0x0000 A wpad.local, "QM" question
31	1.484263	172.16.31.18	224.0.0.251	MDNS	70	Standard query 0x0000 A wpad.local, "QM" question
32	1.484691	fe80::1376:4f18:681...	ff02::fb	MDNS	90	Standard query 0x0000 A wpad.local, "QM" question
61	1.650389	172.16.30.122	8.8.8.8	DNS	79	Standard query 0x2775 A main.vscode-cdn.net
62	1.650699	172.16.30.122	8.8.8.8	DNS	79	Standard query 0x3ae9 HTTPS main.vscode-cdn.net
126	3.139015	172.16.31.8	224.0.0.251	MDNS	125	Standard query 0x0000 ANY Android-4.local, "QU"

> Frame 212: Packet, 102 bytes on wire (816 bits), 102 bytes captured (816 bits) on interface 0

> Ethernet II, Src: HonHaiPrecis_1d:68:41 (5c:ea:1d:1d:68:41), Dst: 01:00:00:00:00:00

> Internet Protocol Version 6, Src: fe80::1376:4f18:681f:eb11, Dst: ff02::1:3

> User Datagram Protocol, Src Port: 5353, Dst Port: 5353

Source Port: 5353

Destination Port: 5353

Length: 48

Checksum: 0xd765 [unverified]

[Checksum Status: Unverified]

[Stream index: 7]

[Stream Packet Number: 6]

0000 33 33 00 00 00 fb 5c ea 1d 1d 68 41 86 dd 60 0c 33....\.

0010 5b 8f 00 30 11 01 fe 80 00 00 00 00 00 00 13 76 [...0....

0020 4f 18 68 1f eb 11 ff 02 00 00 00 00 00 00 00 00 0-h....

0030 00 00 00 00 00 fb 14 e9 14 e9 00 30 d7 65 00 000

0040 00 00 00 01 00 00 00 00 00 00 0b 5f 67 6f 6f 677

0050 6c 65 63 61 73 74 04 5f 74 63 70 05 6c 6f 63 61 lecast_

0060 6c 00 00 0c 00 01 1.....

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dns.flags.response==1

No.	Time	Source	Destination	Protocol	Length	Info
1305	44.297346	fe80::bfeb:e23e:25e...	ff02::fb	MDNS	254	Standard query response 0x0000 PTR DESKTOP-R917A...
1322	44.605334	172.16.30.180	224.0.0.251	MDNS	508	Standard query response 0x0000 TXT, cache flush
1337	45.218619	172.16.31.198	224.0.0.251	MDNS	299	Standard query response 0x0000 PTR, cache flush
1338	45.218619	fe80::bfeb:e23e:25e...	ff02::fb	MDNS	319	Standard query response 0x0000 PTR, cache flush
1339	45.218619	172.16.31.198	224.0.0.251	MDNS	235	Standard query response 0x0000 SRV, cache flush
1340	45.218619	fe80::bfeb:e23e:25e...	ff02::fb	MDNS	255	Standard query response 0x0000 SRV, cache flush
1363	46.754565	172.16.30.180	224.0.0.251	MDNS	508	Standard query response 0x0000 TXT, cache flush
1374	47.155156	172.16.31.8	224.0.0.251	MDNS	289	Standard query response 0x0000 PTR, cache flush
1375	47.155518	fe80::485c:e2ff:fe7...	ff02::fb	MDNS	309	Standard query response 0x0000 PTR, cache flush
1385	47.983977	172.16.31.8	224.0.0.251	MDNS	289	Standard query response 0x0000 PTR, cache flush
1386	47.983977	fe80::485c:e2ff:fe7...	ff02::fb	MDNS	309	Standard query response 0x0000 PTR, cache flush
1412	49.924883	202.122.21.106	172.16.30.122	DNS	1042	Standard query response 0x6f31 A settings-win.da...
1415	50.133435	172.16.31.8	224.0.0.251	MDNS	289	Standard query response 0x0000 PTR, cache flush
1416	50.133435	fe80::485c:e2ff:fe7...	ff02::fb	MDNS	309	Standard query response 0x0000 PTR, cache flush
1425	50.432052	172.16.30.180	224.0.0.251	MDNS	508	Standard query response 0x0000 TXT, cache flush
1481	53.922720	172.16.31.8	224.0.0.251	MDNS	289	Standard query response 0x0000 PTR, cache flush
1482	53.922720	fe80::485c:e2ff:fe7...	ff02::fb	MDNS	309	Standard query response 0x0000 PTR, cache flush
1499	54.243801	8.8.8.8	172.16.30.122	DNS	160	Standard query response 0x9fc0 HTTPS dns.google
1503	54.247502	8.8.8.8	172.16.30.122	DNS	116	Standard query response 0x0364 A dns.google A 8.
1577	55.141166	172.16.31.21	224.0.0.251	MDNS	424	Standard query response 0x0000 TXT, cache flush
1578	55.145732	fe80::7b35:4a35:1bc...	ff02::fb	MDNS	444	Standard query response 0x0000 TXT, cache flush
1657	57.712743	fe80::18f5:95ec:1d2...	ff02::fb	MDNS	355	Standard query response 0x0000 PTR Nagarjunajada
1658	57.712743	172.16.30.210	224.0.0.251	MDNS	335	Standard query response 0x0000 PTR Nagarjunajada

> Frame 209: Packet, 309 bytes on wire (2472 bits), 309 bytes captured (2472 bits) on interface 0

> Ethernet II, Src: 4a:5c:e2:7c:a2:5a (4a:5c:e2:7c:a2:5a), Dst: 01:00:00:00:00:00

> Internet Protocol Version 6, Src: fe80::485c:e2ff:fe7c:a25a, Dst: ff02::fb

> User Datagram Protocol, Src Port: 5353, Dst Port: 5353

Source Port: 5353

Destination Port: 5353

Length: 255

Checksum: 0xfaa8 [unverified]

[Checksum Status: Unverified]

[Stream index: 1]

[Stream Packet Number: 5]

0000 33 33 00 00 00 fb 4a 5c e2 7c a2 5a 86 dd 60 0e 33 ...

0010 94 ce 00 ff 11 ff fe 80 00 00 00 00 00 48 5c ...

0020 e2 ff fe 7c a2 5a ff 02 00 00 00 00 00 00 00 ...

0030 00 00 00 00 00 fb 14 e9 14 e9 00 ff fa a8 00 00 ...

0040 84 00 00 00 00 04 00 00 00 03 01 38 02 33 31 02 ...

0050 31 36 03 31 37 32 07 69 6e 2d 61 64 64 72 04 61 ...

0060 72 70 61 00 00 0c 80 01 00 00 78 00 11 09 41 ...

0070 6e 64 72 6f 69 64 2d 34 05 6c 6f 63 61 6c 00 01 ...

0080 41 01 35 01 32 01 41 01 43 01 37 01 45 01 46 01 ...

0090 46 01 46 01 32 01 45 01 43 01 35 01 38 01 34 01 ...

00a0 30 01 30 01 30 01 30 01 30 01 30 01 30 01 30 01 ...

00b0 30 01 30 01 30 01 30 01 30 01 38 01 45 01 46 03 ...

00c0 69 70 36 c0 20 00 0c 80 01 00 00 78 00 02 c0 ...

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tcp.flags.syn == 1 && tcp.flags.ack == 0

No.	Time	Source	Destination	Protocol	Length	Info
66	1.851807	172.16.30.122	52.182.143.209	TCP	66	49676 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
72	2.103746	172.16.30.122	52.182.143.209	TCP	66	51833 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
162	3.439978	172.16.30.122	44.228.249.3	TCP	66	60502 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
163	3.440408	172.16.30.122	44.228.249.3	TCP	66	52954 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
172	3.474427	172.16.30.122	44.228.249.3	TCP	66	53790 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
180	3.691461	172.16.30.122	44.228.249.3	TCP	66	50470 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
223	4.475049	172.16.30.122	44.228.249.3	TCP	66	[TCP Retransmission] 53790 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
243	6.475095	172.16.30.122	44.228.249.3	TCP	66	[TCP Retransmission] 53790 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
305	10.475347	172.16.30.122	44.228.249.3	TCP	66	[TCP Retransmission] 53790 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
335	12.071771	172.16.30.122	13.107.213.58	TCP	66	50471 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
534	18.476095	172.16.30.122	44.228.249.3	TCP	66	[TCP Retransmission] 53790 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
546	18.649811	172.16.30.122	4.213.133.109	TCP	66	49870 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
620	23.169498	172.16.30.122	44.228.249.3	TCP	66	56475 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
621	23.169761	172.16.30.122	44.228.249.3	TCP	66	59967 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
660	23.367023	172.16.30.122	4.144.165.14	TCP	66	58700 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
665	23.408410	172.16.30.122	3.111.241.224	TCP	66	50653 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
666	23.420873	172.16.30.122	44.228.249.3	TCP	66	60162 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
757	23.819735	172.16.30.122	150.171.28.11	TCP	66	50135 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
783	23.939267	172.16.30.122	150.171.27.11	TCP	66	54699 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
882	25.151048	172.16.30.122	150.171.28.11	TCP	66	56006 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
1147	36.979247	172.16.30.122	52.167.17.97	TCP	66	56007 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
1190	38.914263	172.16.30.122	52.167.17.97	TCP	66	56008 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
1270	43.181504	172.16.30.122	52.167.17.97	TCP	66	56009 → 443 [SYN] Seq=0 Win=65535 Len=0 MSS=1460

> Frame 180: Packet, 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface 0

> Ethernet II, Src: Intel_68:89:31 (14:85:7f:68:89:31), Dst: So

> Internet Protocol Version 4, Src: 172.16.30.122, Dst: 44.228.249.3

0100 = Version: 4

.... 0101 = Header Length: 20 bytes (5)

> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-E

0000 00.. = Differentiated Services Codepoint: Default (0)

.... ..00 = Explicit Congestion Notification: Not ECN-Capable

Total Length: 52

Identification: 0xf986 (63878)

> 010. = Flags: 0x2, Don't fragment

0000 18 b1 69 ee 46 3d 14 85 7f 68 89 31 08 00 45 00 ...

0010 00 34 f9 86 40 00 80 06 10 cb ac 10 1e 7a 2c e4 ...

0020 f9 03 c5 26 00 50 5c 8c 32 5e 00 00 00 00 80 02 ...

0030 ff ff 2a 3d 00 00 02 04 05 b4 01 03 03 08 01 01 ...

0040 04 02 ..

host-machine.pcapng

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tcp.flags.syn == 1 && tcp.flags.ack == 1

No.	Time	Source	Destination	Protocol	Length	Info
77	2.215048	52.182.143.209	172.16.30.122	TCP	66	443 → 49676 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
93	2.466869	52.182.143.209	172.16.30.122	TCP	66	443 → 51833 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
192	3.850019	44.228.249.3	172.16.30.122	TCP	66	80 → 52954 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
196	3.851996	44.228.249.3	172.16.30.122	TCP	66	80 → 60502 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
214	4.070662	44.228.249.3	172.16.30.122	TCP	66	80 → 50470 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
336	12.098143	13.107.213.58	172.16.30.122	TCP	66	443 → 50471 [SYN, ACK] Seq=0 Ack=1 Win=42340 Len=0
554	18.702666	4.213.133.109	172.16.30.122	TCP	66	443 → 49870 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
667	23.426943	4.144.165.14	172.16.30.122	TCP	66	443 → 58700 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0
671	23.430813	3.111.241.224	172.16.30.122	TCP	66	443 → 50653 [SYN, ACK] Seq=0 Ack=1 Win=26883 Len=0
715	23.491284	44.228.249.3	172.16.30.122	TCP	66	80 → 59967 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
718	23.491553	44.228.249.3	172.16.30.122	TCP	66	80 → 56475 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
745	23.657221	44.228.249.3	172.16.30.122	TCP	66	80 → 60162 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
771	23.932520	150.171.28.11	172.16.30.122	TCP	66	443 → 50135 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
794	23.965919	150.171.27.11	172.16.30.122	TCP	66	443 → 54699 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
883	25.178867	150.171.28.11	172.16.30.122	TCP	66	443 → 56006 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1161	37.405807	52.167.17.97	172.16.30.122	TCP	66	443 → 56007 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1193	39.165592	52.167.17.97	172.16.30.122	TCP	66	443 → 56008 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1273	43.445621	52.167.17.97	172.16.30.122	TCP	66	443 → 56009 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1417	50.172641	52.167.17.97	172.16.30.122	TCP	66	443 → 56010 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1459	52.873354	52.167.17.97	172.16.30.122	TCP	66	443 → 56011 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1489	54.215677	8.8.8.8	172.16.30.122	TCP	66	53 → 58267 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1491	54.215895	8.8.8.8	172.16.30.122	TCP	66	53 → 63824 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0
1563	54.632668	52.167.17.97	172.16.30.122	TCP	66	443 → 63825 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0

Checksum: 0x8aa3 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
Options: (12 bytes), Maximum segment size, No-Operation (NOP),
[Timestamps]
[SEQ/ACK analysis]
[This is an ACK to the segment in frame: 66]
[The RTT to ACK the segment was: 363.241000 milliseconds]
[iRTT: 363.418000 milliseconds]
[Client Contiguous Streams: 1]
[Server Contiguous Streams: 1]

0000 14 85 7f 68 89 31 18 b1 69 ee 46 3d 08 00 45 00 ...h.1..
0010 00 34 07 3a 40 00 69 06 7b 78 34 b6 8f d1 ac 10 ...4.:@.i..
0020 1e 7a 01 bb c2 0c c0 45 88 a6 a9 38 9f 72 80 12 ...z.....E..
0030 ff ff 8a a3 00 00 02 04 05 a0 01 03 03 08 01 01
0040 04 02 ..

Wireshark · Export · HTTP object list

Text Filter: Content Type: All Content-Types

Packet	Hostname	Content Type	Size	Filename
750	testphp.vulnweb.com	text/html	6001 bytes	userinfo.php
720	testphp.vulnweb.com	application/x-www-form-urlencoded	20 bytes	userinfo.php
218	testphp.vulnweb.com	text/html	5523 bytes	login.php

host-machine.pcapng						
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http.request						
No.	Time	Source	Destination	Protocol	Length	Info
7	0.000000	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
133	3.139015	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
195	3.851619	172.16.30.122	44.228.249.3	HTTP	523	GET /login.php HTTP/1.1
242	6.399412	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
268	9.583600	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
333	12.030896	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
720	23.491895	172.16.30.122	44.228.249.3	HTTP	725	POST /userinfo.php HTTP/1.1 (application/x-www-form-u
1021	30.370297	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
1032	31.292131	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
1053	32.623499	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
1072	33.842011	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
1110	35.797910	172.16.30.131	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
1384	47.983977	172.16.31.221	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
1408	49.816295	172.16.31.221	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
1438	50.748257	172.16.31.221	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
2833	68.972281	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
2847	69.898265	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1
2865	70.818651	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1

host-machine.pcapng						
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help						
http.host						
No.	Time	Source	Destination	Protocol	Length	Info
7	0.000000	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
133	3.139015	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
195	3.851619	172.16.30.122	44.228.249.3	HTTP	523	GET /login.php HTTP/1.1
242	6.399412	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
268	9.583600	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
310	10.811983	172.16.1.41	239.255.255.250	SSDP	386	NOTIFY * HTTP/1.1
311	10.811983	172.16.1.41	239.255.255.250	SSDP	331	NOTIFY * HTTP/1.1
312	10.811983	172.16.1.41	239.255.255.250	SSDP	322	NOTIFY * HTTP/1.1
313	10.811983	172.16.1.41	239.255.255.250	SSDP	396	NOTIFY * HTTP/1.1
333	12.030896	172.16.31.18	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
472	14.797784	172.16.31.57	239.255.255.250	SSDP	472	NOTIFY * HTTP/1.1
473	14.797784	172.16.31.57	239.255.255.250	SSDP	544	NOTIFY * HTTP/1.1
474	14.797784	172.16.31.57	239.255.255.250	SSDP	481	NOTIFY * HTTP/1.1
475	15.112719	172.16.31.57	239.255.255.250	SSDP	481	NOTIFY * HTTP/1.1
476	15.112719	172.16.31.57	239.255.255.250	SSDP	544	NOTIFY * HTTP/1.1
720	23.491895	172.16.30.122	44.228.249.3	HTTP	725	POST /userinfo.php HTTP/1.1 (application/x-www-
918	25.754366	172.16.31.18	239.255.255.250	SSDP	483	NOTIFY * HTTP/1.1
919	25.754366	fe80::1376:4f18:681...	ff02::c	SSDP	512	NOTIFY * HTTP/1.1
948	26.684702	172.16.31.18	239.255.255.250	SSDP	492	NOTIFY * HTTP/1.1
949	26.684702	fe80::1376:4f18:681...	ff02::c	SSDP	521	NOTIFY * HTTP/1.1
959	27.298837	172.16.31.18	239.255.255.250	SSDP	549	NOTIFY * HTTP/1.1
960	27.298837	fe80::1376:4f18:681...	ff02::c	SSDP	578	NOTIFY * HTTP/1.1
967	27.913141	172.16.31.18	239.255.255.250	SSDP	547	NOTIFY * HTTP/1.1
968	27.913141	fe80::1376:4f18:681...	ff02::c	SSDP	576	NOTIFY * HTTP/1.1
969	27.913141	172.16.31.18	239.255.255.250	SSDP	537	NOTIFY * HTTP/1.1
970	27.913141	fe80::1376:4f18:681...	ff02::c	SSDP	566	NOTIFY * HTTP/1.1
984	28.527306	172.16.31.18	239.255.255.250	SSDP	539	NOTIFY * HTTP/1.1
985	28.527306	fe80::1376:4f18:681...	ff02::c	SSDP	568	NOTIFY * HTTP/1.1
1004	28.824570	172.16.31.18	239.255.255.250	SSDP	483	NOTIFY * HTTP/1.1
1005	28.827051	fe80::1376:4f18:681...	ff02::c	SSDP	512	NOTIFY * HTTP/1.1
1010	29.448780	172.16.31.18	239.255.255.250	SSDP	492	NOTIFY * HTTP/1.1
1011	29.448780	fe80::1376:4f18:681...	ff02::c	SSDP	521	NOTIFY * HTTP/1.1
1021	30.370297	172.16.31.141	239.255.255.250	SSDP	212	M-SEARCH * HTTP/1.1

> Frame 7: Packet, 179 bytes on wire (1432 bits), 179 bytes cap

> Ethernet II. Src: HonHaiPrecis 1d:68:41 (5c:ea:1d:1d:68:41).

```

0000  01 00 5e 7f ff fa 5c ea 1d 1d 68 41 08 00 45 00  ...^...
0010  00 a5 12 34 00 00 04 11 e8 f7 ac 10 1f 12 ef ff  ...4...

```


host-machine.pcapng

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http.response

No.	Time	Source	Destination	Protocol	Length	Info
218	4.092502	44.228.249.3	172.16.30.122	HTTP	1342	HTTP/1.1 200 OK (text/html)
750	23.732792	44.228.249.3	172.16.30.122	HTTP	1479	HTTP/1.1 200 OK (text/html)

Source Port: 80
Destination Port: 52954
[Stream index: 13]
[Stream Packet Number: 7]
> [Conversation completeness: Complete, WITH_DATA (31)]
[TCP Segment Len: 1288]
Sequence Number: 1461 (relative sequence number)
Sequence Number (raw): 3865411451
[Next Sequence Number: 2749 (relative sequence number)]
Acknowledgment Number: 470 (relative ack number)
Acknowledgment number (raw): 71952810
0101 = Header Length: 20 bytes (5)
> Flags: 0x018 (PSH, ACK)
Window: 487
[Calculated window size: 62336]
[Window size scaling factor: 128]
Checksum: 0x08fc [unverified]
[Checksum Status: Unverified]

0020 1e 7a 00 50 ce da e6 65 7f 7b 04 49 e9 aa 50 18 z-P...
0030 01 e7 08 fc 00 00 23 8d 8e 50 22 42 81 f3 d5 6c#
0040 78 44 d5 8c ea 02 f1 20 3f f6 de b9 81 f1 96 a8 xD...
0050 2d 5f 7c a7 01 41 f7 0c fd 4d c4 ff d7 53 40 25 _]...A...
0060 94 ae 48 c5 23 aa 61 2e 29 43 98 05 c5 7c d3 37 ...H...#...
0070 6d 36 97 b0 e5 82 57 2d d4 71 b6 de d1 e8 e5 8b m6...v...
0080 4f 14 5a 87 26 82 99 3c 43 31 8a 3f 29 48 bf 12 O.Z...&...
0090 27 20 f2 ff fe 40 b4 a0 40 41 2e a3 36 25 c0 40 ...@...
00a0 c8 b6 f1 4e f4 7f 3b 40 41 49 33 70 51 d1 5d bf ...N...;
00b0 75 84 0c 19 4d 7e 2e 06 ec c6 87 18 e2 c0 b5 78 u...M...
00c0 8a 07 e7 cd f1 14 d0 8c 2c a1 74 fa 1d 62 f1 bb
00d0 89 45 12 93 c8 b5 9d b8 9a 4c 88 a0 b3 33 fb 2a ...E...;
00e0 f9 80 aa 3b aa 28 c5 28 74 f4 ba 76 3f fd fc fa ...;...(
00f0 04 d9 e0 90 52 b5 9f 90 9b 06 07 7c 71 c6 75 68 ...R...
0100 6f 5d d2 19 c1 75 5e 76 e5 19 62 21 17 ba 60 f7 o]...u...
0110 67 64 a5 ef 49 99 f4 63 2b 90 89 db 99 e1 9a a5 gd...I...
0120 93 b6 e2 48 ad 89 bf 83 04 85 ee 7e c7 2b 03 75 ...H...
0130 fa 41 ee c9 de 2a f4 ec 0d 22 ec a2 6f 78 d8 c9 ...A...*...
0140 b3 73 6b a6 ce 5a 6b 15 90 ea 67 23 6a 86 16 d8 ...sk...Z...
0150 99 ce 85 8a eb 92 a1 8e f5 ba 12 3a 2a 61 90 6b ...
0160 20 66 20 40 70 43 43 72 43 43 43 43 43 43 43 ...
Packet (1342 bytes) Reassembled TCP (2748 bytes) De-chunked entity body

host-machine.pcapng

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tcp.port==80

No.	Time	Source	Destination	Protocol	Length	Info
162	3.439978	172.16.30.122	44.228.249.3	TCP	66	60502 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
163	3.440408	172.16.30.122	44.228.249.3	TCP	66	52954 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
180	3.691461	172.16.30.122	44.228.249.3	TCP	66	50470 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460
192	3.850019	44.228.249.3	172.16.30.122	TCP	66	80 → 52954 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
194	3.850318	172.16.30.122	44.228.249.3	TCP	54	52954 → 80 [ACK] Seq=1 Ack=1 Win=65280 Len=0
195	3.851619	172.16.30.122	44.228.249.3	HTTP	523	GET /login.php HTTP/1.1
196	3.851996	44.228.249.3	172.16.30.122	TCP	66	80 → 60502 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
197	3.852165	172.16.30.122	44.228.249.3	TCP	54	60502 → 80 [ACK] Seq=1 Ack=1 Win=65280 Len=0
214	4.070662	44.228.249.3	172.16.30.122	TCP	66	80 → 50470 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0
215	4.070843	172.16.30.122	44.228.249.3	TCP	54	50470 → 80 [ACK] Seq=1 Ack=1 Win=65280 Len=0
216	4.088639	44.228.249.3	172.16.30.122	TCP	60	80 → 52954 [ACK] Seq=1 Ack=470 Win=62336 Len=0
217	4.092502	44.228.249.3	172.16.30.122	TCP	1514	80 → 52954 [ACK] Seq=1 Ack=470 Win=62336 Len=1460
218	4.092502	44.228.249.3	172.16.30.122	HTTP	1342	HTTP/1.1 200 OK (text/html)
219	4.092777	172.16.30.122	44.228.249.3	TCP	54	52954 → 80 [ACK] Seq=470 Ack=2749 Win=65280 Len=0
315	11.604672	172.16.30.122	44.228.249.3	TCP	54	60502 → 80 [FIN, ACK] Seq=1 Ack=1 Win=65280 Len=0
316	11.604901	172.16.30.122	44.228.249.3	TCP	54	50470 → 80 [FIN, ACK] Seq=1 Ack=1 Win=65280 Len=0
317	11.604991	172.16.30.122	44.228.249.3	TCP	54	52954 → 80 [FIN, ACK] Seq=470 Ack=2749 Win=65280
320	11.841751	44.228.249.3	172.16.30.122	TCP	60	80 → 50470 [FIN, ACK] Seq=1 Ack=2 Win=62848 Len=0
321	11.842093	44.228.249.3	172.16.30.122	TCP	60	80 → 52954 [FIN, ACK] Seq=2749 Ack=471 Win=62336
322	11.842226	172.16.30.122	44.228.249.3	TCP	54	50470 → 80 [ACK] Seq=2 Ack=2 Win=65280 Len=0
323	11.842587	172.16.30.122	44.228.249.3	TCP	54	52954 → 80 [ACK] Seq=471 Ack=2750 Win=65280 Len=0
324	11.842896	44.228.249.3	172.16.30.122	TCP	60	80 → 60502 [FIN, ACK] Seq=1 Ack=2 Win=62848 Len=0
325	11.843011	172.16.30.122	44.228.249.3	TCP	54	60502 → 80 [ACK] Seq=2 Ack=2 Win=65280 Len=0
620	23.460408	172.16.30.122	44.228.249.3	TCP	66	50470 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460

0100 = Version: 4
... 0101 = Header Length: 20 bytes (5)
v Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-Ex...
0000 00.. = Differentiated Services Codepoint: Default (0...
.... 00.. = Explicit Congestion Notification: Not ECN-C...
Total Length: 1328
Identification: 0x3745 (14149)
> 010. = Flags: 0x2, Don't fragment
...0 0000 0000 0000 = Fragment Offset: 0
Time to Live: 51
Protocol: TCP (6)

0020 1e 7a 00 50 ce da e6 65 7f 7b 04 49 e9 aa 50 18 z-P...
0030 01 e7 08 fc 00 00 23 8d 8e 50 22 42 81 f3 d5 6c#
0040 78 44 d5 8c ea 02 f1 20 3f f6 de b9 81 f1 96 a8 xD...
0050 2d 5f 7c a7 01 41 f7 0c fd 4d c4 ff d7 53 40 25 _]...A...
0060 94 ae 48 c5 23 aa 61 2e 29 43 98 05 c5 7c d3 37 ...H...#...
0070 6d 36 97 b0 e5 82 57 2d d4 71 b6 de d1 e8 e5 8b m6...v...
0080 4f 14 5a 87 26 82 99 3c 43 31 8a 3f 29 48 bf 12 O.Z...&...
0090 27 20 f2 ff fe 40 b4 a0 40 41 2e a3 36 25 c0 40 ...@...
00a0 c8 b6 f1 4e f4 7f 3b 40 41 49 33 70 51 d1 5d bf ...N...;
00b0 75 84 0c 19 4d 7e 2e 06 ec c6 87 18 e2 c0 b5 78 u...M...
00c0 8a 07 e7 cd f1 14 d0 8c 2c a1 74 fa 1d 62 f1 bb
00d0 89 45 12 93 c8 b5 9d b8 9a 4c 88 a0 b3 33 fb 2a ...E...;

Packet (1342 bytes) Reassembled TCP (2748 bytes) De-chunked entity body

host-machine.pcapng

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http.connection=="keep-alive"

No.	Time	Source	Destination	Protocol	Length	Info
195	3.851619	172.16.30.122	44.228.249.3	HTTP	523	GET /login.php HTTP/1.1
218	4.092502	44.228.249.3	172.16.30.122	HTTP	1342	HTTP/1.1 200 OK (text/html)
720	23.491895	172.16.30.122	44.228.249.3	HTTP	725	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)
750	23.732792	44.228.249.3	172.16.30.122	HTTP	1479	HTTP/1.1 200 OK (text/html)

[Next Sequence Number: 2886 (relative sequence number)]
Acknowledgment Number: 672 (relative ack number)
Acknowledgment number (raw): 3022239451
0101 = Header Length: 20 bytes (5)
> Flags: 0x018 (PSH, ACK)
Window: 485
[Calculated window size: 62080]
[Window size scaling factor: 128]
Checksum: 0x9482 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
> [Timestamps]
v [SEQ/ACK analysis]
[iRTT: 321.657000 milliseconds]
[Bytes in flight: 2885]
[Bytes sent since last PSH flag: 2885]
[Client Contiguous Streams: 1]
[Server Contiguous Streams: 1]
TCP payload (1425 bytes)
TCP segment data (1425 bytes)
> [2 Reassembled TCP Segments (2885 bytes): #749(1460), #750(1425)]
v Hypertext Transfer Protocol, has 2 chunks (including last chunk)

0020 1e 7a 00 50 ea 3f bf 8b ac ff b4 23 b6 db 50 18 .z.P.?
0030 01 e5 94 82 00 00 69 e0 c2 1d a9 ba 85 90 41 faj
0040 cd 42 e1 a5 3f f7 23 86 4a 5f 28 c0 17 c0 0a 85 B..?..#
0050 92 bb ba 92 46 2e 92 b7 b6 7a b4 69 6b fd bf a7F..
0060 93 66 95 24 10 f7 20 89 0e 83 18 78 1e 8e 43 ae .f.\$..
0070 cc 43 b2 58 55 47 23 b2 d6 c0 85 06 a6 60 b5 aa .C.XUG#
0080 6e 6c a7 30 47 b4 ba 41 59 7c 6c cf 28 5c a1 d1 nL.0G..
0090 15 61 62 8b b7 1e 5c 0f 08 5c 09 a5 48 28 45 8c .ab...\
00a0 53 ff 69 15 4e b5 33 2b 12 20 67 55 33 1b 0b fd S-i-N-
00b0 95 0a 65 d9 57 68 73 1e 7f e0 b2 fc 4a 0d 04 ea ..e.Whs
00c0 50 f9 15 4a 5c 15 aa 02 37 fb 7f 18 a3 26 51 5f P..J\..
00d0 a1 ca db 3c 07 13 30 1d 83 10 dd e4 5a 70 b6 d0 ...<..
00e0 bc 06 a1 53 c0 dc 36 16 80 dc b4 3a 62 5a 2d 4c ...S..
00f0 1a bd 7a e6 e0 47 c9 89 18 09 52 9f 8d 99 4c 51 .z.z.G..
0100 21 00 c8 1f 50 75 74 70 1f 00 ec 41 d4 9a 66 3c !...Put
0110 93 50 28 c4 6d 53 e7 80 f8 95 7e 7e b4 79 06 4e P(.mS..
0120 f7 70 46 d9 99 50 4e ba 78 7d 36 9f 81 15 bf 03 .pF..PM
0130 1e 0a 3e 17 6c 8f a1 30 cf 0c b8 0e 01 83 c7 f1 ...>..l..
0140 3e a3 e9 35 72 78 2c d1 76 55 77 b6 5b f0 df 1e >..5rx,
0150 11 79 25 80 ee 77 10 c4 e1 c8 43 36 fc 88 b8 02 .y%..w..
0160 37 09 65 bb 58 ba e6 2f a0 8f 27 5c 07 f6 d2 e2 7.e.X..
0170 a5 11 5c 67 45 5b 7d 3d 0a b5 50 e3 e7 a8 c6 fc ..\gE[..
0180 40 28 99 7e 69 84 5e 6e e0 92 e3 42 84 63 c3 92 @(.~i..
0190 8f 45 39 f2 7b 98 ab 5b fe 0b 31 11 b7 c0 c3 08 .E9-{..
01a0 e1 02 e2 c3 1d fb 4e 81 92 ad 09 3f e2 02 90 4aN

Packet (1479 bytes) Reassembled TCP (2885 bytes) De-chunked entity body

TASK – 2

host-machine.pcapng

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http.request.method=="GET"

No.	Time	Source	Destination	Protocol	Length	Info
195	3.851619	172.16.30.122	44.228.249.3	HTTP	523	GET /login.php HTTP/1.1

> Frame 195: Packet, 523 bytes on wire (4184 bits), 523 bytes captured (4184 bits) on interface \Device
> Ethernet II, Src: Intel_68:89:31 (14:85:7f:68:89:31), Dst: Sonicwall_ee:46:3d (18:b1:69:ee:46:3d)
v Internet Protocol Version 4, Src: 172.16.30.122, Dst: 44.228.249.3
0100 = Version: 4
.... 0101 = Header Length: 20 bytes (5)
v Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
0000 00.. = Differentiated Services Codepoint: Default (0)
.... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
Total Length: 509
Identification: 0xf988 (63880)
> 010. = Flags: 0x2, Don't fragment
...0 0000 0000 0000 = Fragment Offset: 0
Time to Live: 128
Protocol: TCP (6)
Header Checksum: 0xf00 [validation disabled]
[Header checksum status: Unverified]
Source Address: 172.16.30.122
Destination Address: 44.228.249.3
[Stream index: 21]
v Transmission Control Protocol, Src Port: 52954, Dst Port: 80, Seq: 1, Ack: 1, Len: 469
Source Port: 52954
Destination Port: 80

0000 18 b1 69 ee 46 3d 14 85 7f 68 89 31 08 00 45 00 ...i F=...h1:E
0010 01 fd f9 88 40 00 00 06 0f 00 ac 10 1e 7a 2c e4 ...@...z,
0020 f9 03 ce da 00 50 04 49 e7 d5 e6 65 79 c7 50 18 ...P:I...ey-P
0030 00 ff 43 26 00 00 47 45 54 20 2f 6c 6f 67 69 6e ...C&...GE T /login
0040 2e 70 68 70 20 48 54 54 50 2f 31 2e 31 0d 0a 48 ...php HTTP/1.1-H
0050 6f 73 74 3a 20 74 65 73 74 70 68 70 2e 76 75 6c ...ost: tes tph.vul
0060 6e 77 65 62 2e 63 6f 6d 0d 0a 43 6f 6e 6e 65 63 ...nweb.com...Connec
0070 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 55 ...tion: ke ep-alive
0080 0d 0a 55 70 67 72 61 64 65 2d 49 6e 73 65 63 75 ...Upgrad e-Insecu
0090 72 65 2d 52 65 71 75 65 73 74 73 3a 20 31 0d 0a ...re-Que sts: 1-
00a0 55 73 65 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 ...User-Age nt: Mozi
00b0 6c 6e 61 2f 35 2e 30 20 28 57 69 6e 64 6f 77 73 ...lla/5.0 (Windows
00c0 20 4e 54 20 31 30 2e 30 3b 20 57 69 6e 36 34 3b ...NT 10.0 ; Win64;
00d0 20 78 36 34 29 20 41 70 70 6c 65 57 65 62 4b 69 ...x64) Ap pleWebKi
00e0 74 2f 35 33 37 2e 33 36 20 28 4b 48 54 4d 4c 2c ...t/537.36 (KHTML,
00f0 20 6c 69 6b 65 20 47 65 63 6b 6f 29 20 43 68 72 ...like Ge cko) Chr
0100 6f 6d 65 2f 31 34 33 2e 30 2e 30 2e 30 20 53 61 ...ome/143. 0.0.0 Sa
0110 66 61 72 69 2f 35 33 37 2e 33 36 20 45 64 6f 2f ...fari/537 .36 Edg/
0120 31 34 33 2e 30 2e 30 2e 30 0d 0a 41 63 63 65 70 ...143.0.0. 0-Accep
0130 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c 61 70 70 ...t: text/ html,app
0140 6c 69 63 61 74 69 6f 6e 2f 70 68 74 6d 6c 2b 78 ...lication /html,ex
0150 6d 6c 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 ...ml,appli cation/x
0160 6d 6c 3b 71 3d 30 2e 39 2c 69 6d 61 67 65 2f 61 ...ml;q=0.9,image/a
0170 76 69 66 2c 69 6d 61 67 65 2f 77 65 62 70 2c 69 ...vif,image e/webp,i
0180 6d 61 67 65 2f 61 70 70 6e 67 2c 2a 2f 2a 3b 71 3d ...mage/apn g,*/*;q=
0190 30 2e 38 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f ...0.8,appli cation/
01a0 73 69 67 6e 65 64 2d 65 78 63 68 61 6e 67 65 3b ...signed-e xchange;
01b0 76 3d 62 33 3b 71 3d 30 2e 37 0d 0a 41 63 63 65 ...v=b3;q=0 .7-Acpe

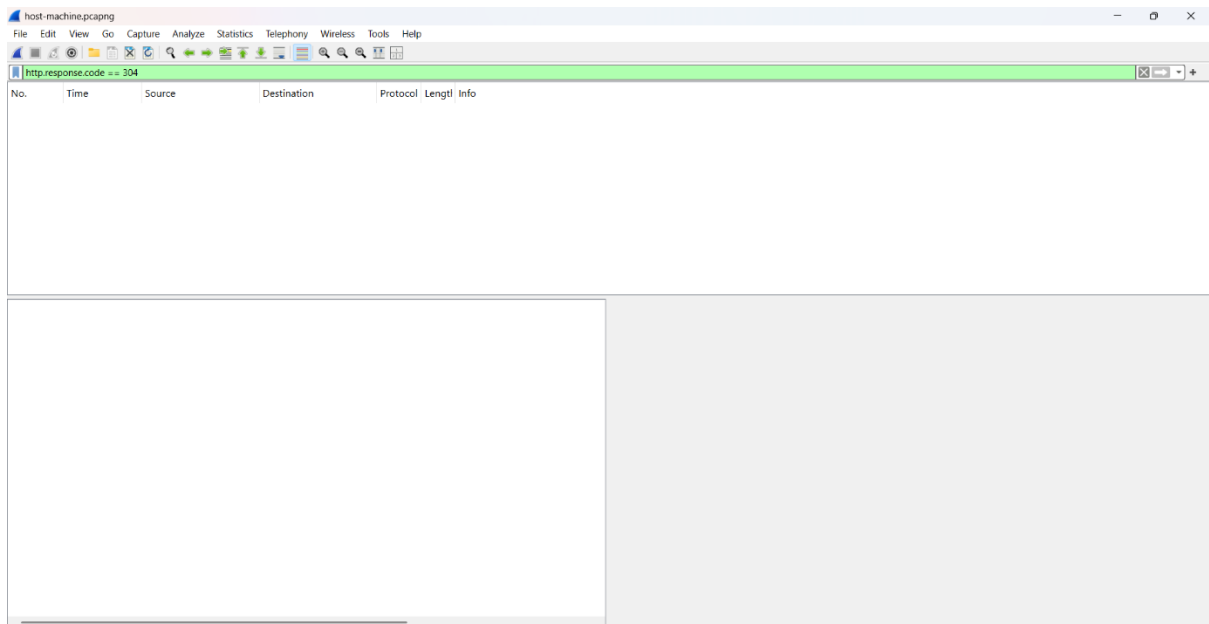
http.response.code == 200

No.	Time	Source	Destination	Protocol	Length	Info
218	4.092502	44.228.249.3	172.16.30.122	HTTP	1342	HTTP/1.1 200 OK (text/html)
750	23.732792	44.228.249.3	172.16.30.122	HTTP	1479	HTTP/1.1 200 OK (text/html)

> Frame 218: Packet, 1342 bytes on wire (10736 bits), 1342 bytes captured (10736 bits) on interface \De
> Ethernet II, Src: Sonicwall_ee:46:3d (18:b1:69:ee:46:3d), Dst: Intel_68:89:31 (14:85:7f:68:89:31)
v Internet Protocol Version 4, Src: 44.228.249.3, Dst: 172.16.30.122
0100 = Version: 4
.... 0101 = Header Length: 20 bytes (5)
v Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
0000 00.. = Differentiated Services Codepoint: Default (0)
.... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
Total Length: 1328
Identification: 0x3745 (14149)
> 010. = Flags: 0x2, Don't fragment
...0 0000 0000 0000 = Fragment Offset: 0
Time to Live: 51
Protocol: TCP (6)
Header Checksum: 0xb11 [validation disabled]
[Header checksum status: Unverified]
Source Address: 44.228.249.3
Destination Address: 172.16.30.122
[Stream index: 21]
v Transmission Control Protocol, Src Port: 80, Dst Port: 52954, Seq: 1461, Ack: 470, Len: 1288
Source Port: 80
Destination Port: 52954

0000 14 85 7f 68 89 31 18 b1 69 ee 46 3d 08 00 45 00 ...h1...i F=...E
0010 05 30 37 45 40 00 33 06 1b 11 2c e4 f9 03 ac 10 ...-07E@3...
0020 1e 7a 00 50 ce da e6 65 7f 7b 04 49 ea 50 18 ...z P...e...[I...P
0030 01 e7 08 fc 00 00 23 8d 8e 50 22 42 81 f3 d5 6c#...P*B...1
0040 78 44 d5 8c ea 02 f1 20 3f f6 de b9 81 f1 96 a8 ...x0.....?.....
0050 2d 5f 7c a7 01 41 f7 0c fd 4d c4 ff d7 53 40 25 ..._...A...M...50%
0060 94 ae 48 c5 23 aa 61 2e 29 43 98 05 c5 7c d3 37 ...M...H#a.)C...].7
0070 6d 36 97 b0 e5 82 57 2d d4 71 b6 de d1 e8 e5 8b ...m6...W...q.....
0080 4f 14 5a 87 26 82 99 3c 43 31 8a 3f 29 48 bf 12 ...O-Z&-< C1-?)H...
0090 27 20 f2 ff fe 0b b4 a0 40 41 2e a3 36 25 c0 40 ...'...@...@A. 6%@
00a0 c8 b6 f1 4e f4 7f 3b 40 41 49 33 70 51 d1 5d bfN...;@ AI3pQ...
00b0 75 84 0c 19 4d 7e 2e 06 ec c6 87 18 e2 c0 b5 78 ...u...M...x.....
00c0 8a 07 e7 cd f1 14 0d 8c 2c a1 74 fa 1d 62 f1 bb ...,..., t-b...
00d0 89 45 12 93 c8 b5 9d b8 9a 4c 88 a0 b3 33 fb 2a ...-E.....L-3-.*
00e0 f9 80 aa 3b aa 28 c5 28 74 f4 ba 76 3f fd fc fa ...;...(: t-v?...
00f0 04 d9 e0 90 52 b5 9f 90 9b 06 07 7c 71 c6 75 68R.....[q uh
0100 6f 5d d2 19 c1 75 5e 6e e5 19 62 21 17 ba 60 07 ...o)...u'v...b1...
0110 67 64 a5 ef 49 99 f4 63 2b 90 89 db 99 e1 9a a5 ...gd...I...c +.....
0120 93 b6 e2 48 ad 89 bf 83 04 85 ee 7e c7 2b 03 75 ...-H.....+u
0130 fa 41 ee c9 de 2a f4 ec 80 22 ec a2 6f 78 d8 c9 ...-A...*...ox...
0140 b3 73 6b a6 ce 5a 6b 15 90 ea 67 23 6a 06 16 08 ...-sk-Zk...gB...
0150 99 ce 85 8a eb 92 a1 0e f5 ba 12 3a 2a 61 90 6b:..Fa-k
0160 20 56 20 00 70 a3 ad 7a aa c8 4d b7 df 74 07 1f ...V...z...H...t...
0170 2e 67 5a 2d a1 fc cd 36 05 0d 74 95 9f bf 1e ba ...gZ...6...t...
0180 ce d6 dd b0 f7 f5 8b 36 5e 81 10 de b4 8a 2f bfV.....f-
0190 e4 f2 c9 bf e3 a3 76 cd 7f ef 09 94 87 80 eb 06v.....

Packet (1342 bytes) Reassembled TCP (2748 bytes) De-chunked entity body (2484 bytes) Uncompressed entity body (5523 bytes)



2.3

First Request

During the first request, the browser cache is empty. The browser sends normal HTTP GET requests for the main HTML page and all embedded objects. Since the server has no information about any cached copies at the client side, it unconditionally sends the full content of every requested resource.

http method – 200 Ok – full content will be delivered

Second Request

During the second request, the browser already has cached copies of the previously downloaded resources. Instead of requesting the full content again, the browser sends conditional GET requests that include cache validation headers.

http method – 304 not modified – where it will not send any content if it was same.

2.4

List of HTTP method Headers

For 200

If modified since

If none match

Cache control

For 304

Last modified

Etag

TASK – 3

http2-h2ccap

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http

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.9.0.2	139.162.123.134	HTTP	244	GET /robots.txt HTTP/1.1
2	0.600079	139.162.123.134	10.9.0.2	HTTP2	164	HTTP/1.1 101 Switching Protocols , SETTINGS[0]

> Frame 1: Packet, 244 bytes on wire (1952 bits), 244 bytes captured (1952 bits)
> Ethernet II, Src: 92:76:39:bc:c1:81 (92:76:39:bc:c1:81), Dst: 8a:7d:40:9e:52:1b (8a:7d:40:9e:52:1b)
> Internet Protocol Version 4, Src: 10.9.0.2, Dst: 139.162.123.134
 0100 = Version: 4
 0101 = Header Length: 20 bytes (5)
 v Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
 0000 00.. = Differentiated Services Codepoint: Default (0)
 00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
 Total Length: 230
 Identification: 0x8c70 (35952)
> 010. = Flags: 0x2, Don't fragment
 ...0 0000 0000 0000 = Fragment Offset: 0
 Time to Live: 64
 Protocol: TCP (6)
 Header Checksum: 0x9c6e [validation disabled]
 [Header checksum status: Unverified]
 Source Address: 10.9.0.2
 Destination Address: 139.162.123.134
 [Stream index: 0]
v Transmission Control Protocol, Src Port: 58038, Dst Port: 80, Seq: 1, Ack: 1, Len: 178
 Source Port: 58038
 Destination Port: 80
 [Stream index: 0]

0000 8a 7d 40 9e 52 1b 92 76 39 bc c1 81 08 00 45 00 ...@ R...v 9...E
0010 00 e6 8c 70 40 00 00 06 9c 6e 0a 09 00 02 8b a2 ...p@.-n.....
0020 7b 06 e2 b6 00 50 a3 6a 31 8c a4 31 16 29 80 18 {...P:j 1..1}..
0030 00 e5 12 0c 00 00 01 01 08 0a 44 e5 5f 6c d4 bcD_1..
0040 f1 1b 47 45 54 20 2f 72 6f 62 6f 74 73 2e 74 78 ...GET /r obots.tx
0050 74 20 48 54 54 50 2f 31 2e 31 00 0a 48 6f 73 74 t HTTP/1 .1: Host
0060 3a 20 6e 67 68 74 74 70 32 2e 6f 72 67 0d 0a 55 : nghttp 2.org- U
0070 73 65 72 2d 41 67 65 6e 74 3a 20 63 75 72 6c 2f ser-Agen t: curl/
0080 37 2e 36 31 2e 30 0d 0a 41 63 63 65 70 74 3a 20 7.61.0 - Accept:
0090 2a 2f 2a 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a */*- Con nectio:
00a0 20 55 70 67 72 61 64 65 2c 20 48 54 54 50 32 2d Upgrade , HTTP2-
00b0 53 65 74 74 69 6e 67 73 0d 0a 55 70 67 72 61 64 Settings ..Upgrad
00c0 65 3a 20 68 32 63 0d 0a 4b 54 54 50 32 2d 53 65 er: h2c- HTTP2-5e
00d0 74 74 69 6e 67 73 3a 20 41 41 4d 41 41 41 42 6b ttings: AAAAAAAbk
00e0 41 41 52 41 41 41 41 41 41 41 49 41 41 41 41 41 AAAAAAAA AAAAAAAAA
00f0 0d 0a 0d 0a

Packet (244 bytes) Base64uri decoded (18 bytes)

http2-h2ccap

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http2

No.	Time	Source	Destination	Protocol	Length	Info
2	0.600079	139.162.123.134	10.9.0.2	HTTP2	164	HTTP/1.1 101 Switching Protocols , SETTINGS[0]
3	0.600465	10.9.0.2	139.162.123.134	HTTP2	90	Magic
4	0.600541	10.9.0.2	139.162.123.134	HTTP2	93	SETTINGS[0]
5	0.600575	10.9.0.2	139.162.123.134	HTTP2	75	SETTINGS[0]
6	0.600596	139.162.123.134	10.9.0.2	HTTP2	342	HEADERS[1]: 200 OK, DATA[1] (text/plain)
7	0.600603	10.9.0.2	139.162.123.134	HTTP2	79	WINDOW_UPDATE[0]
8	0.601307	10.9.0.2	139.162.123.134	HTTP2	115	HEADERS[3]: GET /humans.txt
9	0.912304	139.162.123.134	10.9.0.2	HTTP2	75	SETTINGS[0]
10	0.916413	139.162.123.134	10.9.0.2	HTTP2	156	HEADERS[3]: 404 Not Found, DATA[3] (text/plain)

> Frame 2: Packet, 164 bytes on wire (1312 bits), 164 bytes captured (1312 bits)
> Ethernet II, Src: 8a:7d:40:9e:52:1b (8a:7d:40:9e:52:1b), Dst: 92:76:39:bc:c1:81 (92:76:39:bc:c1:81)
> Internet Protocol Version 4, Src: 139.162.123.134, Dst: 10.9.0.2
 0100 = Version: 4
 0101 = Header Length: 20 bytes (5)
 v Differentiated Services Field: 0x20 (DSCP: CS1, ECN: Not-ECT)
 0010 00.. = Differentiated Services Codepoint: Class Selector 1 (8)
 00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
 Total Length: 150
 Identification: 0xdbad (56237)
> 010. = Flags: 0x2, Don't fragment
 ...0 0000 0000 0000 = Fragment Offset: 0
 Time to Live: 53
 Protocol: TCP (6)
 Header Checksum: 0x5861 [validation disabled]
 [Header checksum status: Unverified]
 Source Address: 139.162.123.134
 Destination Address: 10.9.0.2
 [Stream index: 0]
v Transmission Control Protocol, Src Port: 80, Dst Port: 58038, Seq: 1, Ack: 179, Len: 98
 Source Port: 80
 Destination Port: 58038
 [Stream index: 0]

0000 92 76 39 bc c1 81 8a 7d 40 9e 52 1b 08 00 45 20 ...v9...@ R...E
0010 00 96 db ad 40 00 35 06 58 61 8b a2 7b 86 0a 09@.5. Xa{...
0020 00 02 00 50 e2 b6 a4 31 16 29 a3 6a 32 3e 80 18 ...P...1 .-}23..
0030 00 eb 2c 43 00 00 01 01 08 0a d4 bc f2 56 44 e5 ...yC.....VD..
0040 5f 6c 48 54 54 50 2f 31 2e 31 20 31 30 31 20 53 _IHTTP/1 .1 101 S
0050 77 69 74 63 68 69 6e 67 20 50 72 6f 74 6f 63 6f withing Proto
0060 6c 73 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 ls..Conn ectio:
0070 55 70 67 72 61 64 65 0d 0a 55 70 67 72 61 64 65 Upgrade- Upgrade
0080 3a 20 68 32 63 0d 0a 0d 0a 00 00 12 04 00 00 00 : h2c-
0090 00 00 00 03 00 00 00 64 00 04 00 10 00 00 00 01d
00a0 00 00 20 00

http2-h2cpap

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http2

No.	Time	Source	Destination	Protocol	Length	Info
2	0.600079	139.162.123.134	10.9.0.2	HTTP2	164	HTTP/1.1 101 Switching Protocols , SETTINGS[0]
3	0.600465	10.9.0.2	139.162.123.134	HTTP2	90	Magic
4	0.600541	10.9.0.2	139.162.123.134	HTTP2	93	SETTINGS[0]
5	0.600575	10.9.0.2	139.162.123.134	HTTP2	75	SETTINGS[0]
6	0.600596	139.162.123.134	10.9.0.2	HTTP2	342	HEADERS[1]: 200 OK, DATA[1] (text/plain)
7	0.600603	10.9.0.2	139.162.123.134	HTTP2	79	WINDOW_UPDATE[0]
8	0.601307	10.9.0.2	139.162.123.134	HTTP2	115	HEADERS[3]: GET /humans.txt
9	0.912304	139.162.123.134	10.9.0.2	HTTP2	75	SETTINGS[0]
10	0.916413	139.162.123.134	10.9.0.2	HTTP2	156	HEADERS[3]: 404 Not Found, DATA[3] (text/plain)

▼ Hypertext Transfer Protocol

- ▼ HTTP/1.1 101 Switching Protocols\r\n
 - Response Version: HTTP/1.1
 - Status Code: 101
 - [Status Code Description: Switching Protocols]
 - Response Phrase: Switching Protocols
 - Connection: Upgrade\r\n
 - Upgrade: h2c\r\n
 - \r\n
 - [Request in frame: 1]
 - [Time since request: 600.079000 milliseconds]
 - [Request URI: /robots.txt]
 - [Full request URI: http://nghttp2.org/robots.txt]
- ▼ Hypertext Transfer Protocol 2
 - ▼ Stream: SETTINGS, Stream ID: 0, Length 18
 - Length: 18
 - Type: SETTINGS (4)
 - > Flags: 0x00
 - 0... .. = Reserved: 0x0
 - .000 0000 0000 0000 0000 0000 0000 0000 = Stream Identifier: 0
 - > Settings - Max concurrent streams : 100
 - > Settings - Initial window size : 1048576
 - > Settings - Header table size : 8192

0000 92 76 39 be c1 81 8a 7d 40 9e 52 1b 08 00 45 20 --v9-- @ R --E

0010 00 96 db ad 40 00 35 06 58 61 8b a2 7b 86 0a 09 ---@5- Xa- {...

0020 00 02 00 50 e2 b6 a4 31 16 29 a3 6a 32 3e 80 18 ---P--1- }23--

0030 00 eb 2c 43 00 00 01 01 00 0a d8 bc f2 56 44 a5 --,C-----VD-

0040 5f 6c 48 54 54 50 2f 31 2e 31 20 31 30 31 20 53 _IHTTP/1 .1 101 S

0050 77 69 74 63 68 69 6e 67 20 50 72 6f 74 6f 63 6f witting Protoco

0060 6c 73 0d 0a 43 6f 6e 6e 65 63 7a 69 6f 6e 3a 20 1s - Connection:

0070 55 70 67 72 61 64 65 0d 0a 55 70 67 72 61 64 65 Upgrade- Upgrade

0080 3a 20 68 32 63 0d 0a 0d 0a 00 00 12 04 00 00 00 : h2c-----

0090 00 00 00 03 00 00 00 64 00 04 00 10 00 00 00 01 -----d-----

00a0 00 00 20 00 -----