

Assignment #4: Lab on PCAP Analysis (4th Jan 2021)

In this assignment, we will complete our work with reading and reviewing PCAPs as it is essential for a security analyst to understand how to do this and to be very familiar with Wireshark. Additionally, students will set up a honeypot in their Kali Linux installation.

Part #1

Situation: A Very Special One

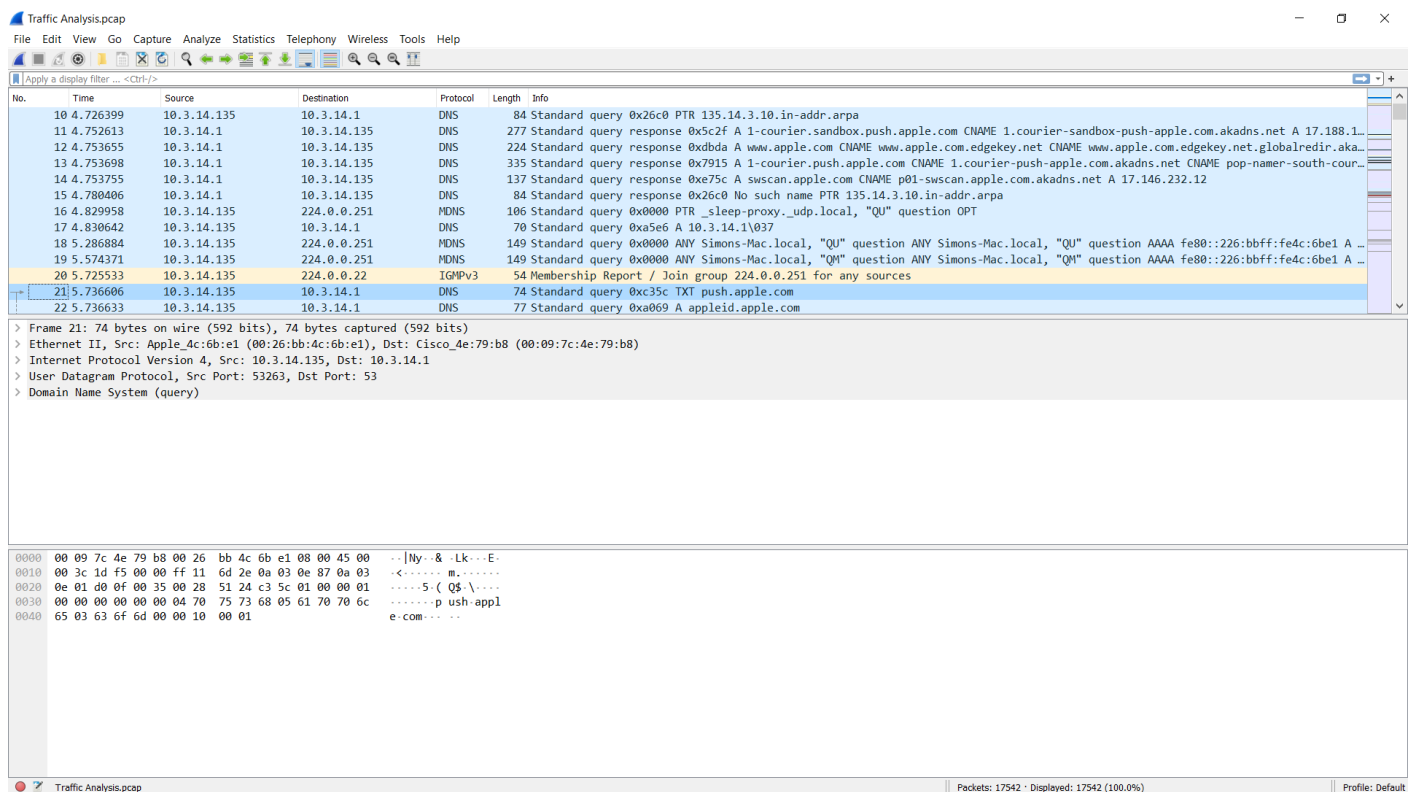
Students should:

1. Download this **PCAP file from Classwork**.

Task Done Till now:

I have downloaded wireshark in my windows and also downloaded pcap file from the classroom.

Opening PCAP file in wireshark



Complete a 1 page reflection for Part #1. Given these sample incident reports, write about what you learned, what you have questions about, what you researched as part of this review, and anything else you feel is relevant. Later in the course, you will be asked to complete an incident report on a given PCAP but this project is meant to mature the exercise of packet analysis and incident reporting.

2. Review the sample analysis discussing these questions:

i) Document the date, start time and end time of the pcap in UTC (GMT).

Ans: Date:2017-02-11 Start Time: 08:27:04 UTC End Time: 08:39:58 UTC

Steps: Statistics → Capture File Properties

Wireshark - Capture File Properties - Traffic Analysis.pcap

Details

File

Name: C:\Users\SILENTONE\Downloads\Traffic Analysis.pcap
Length: 956348
Hash (SHA256): 6971ca45f782265b10378d8331201b14704cd8525922fd89bb909fef3e788075
Hash (RIPMD160): 9b72c07260e2660582d78753ca7e0a73c3cae1e
Hash (SHA1): f28e2eadb07627db4109b1b70eb5424310dd1cdb
Format: Wireshark/tcpdump/... - pcap
Encapsulation: Ethernet
Snapshot length: 65535

Time

First packet: 2017-02-11 08:27:04
Last packet: 2017-02-11 08:39:58
Elapsed: 00:12:54

Capture

Hardware: Unknown
OS: Unknown
Application: Unknown

Interfaces

Interface	Dropped packets	Capture filter	Link type	Packet size limit
Unknown	Unknown	Unknown	Ethernet	65535 bytes

Statistics

Measurement	Captured	Displayed	Marked
Packets	17542	423 (2.4%)	—
Time span, s	774.355	760.640	—
Average pps	22.7	0.6	—
Average packet size, B	529	95	—
Bytes	9283281	40266 (0.4%)	0
Average bytes/s	11k	52	—
Average bits/s	95k	423	—

Fig. Properties of pcap file

ii) Document the IP address of the three hosts in the pcap.

Ans: i) 10.3.14.131 ii) 10.3.14.134 iii) 10.3.14.135

Step: Statistics → Endpoints → IPv4

When looking into the source maximum transactions are found with the IP 10.3.14. Also we can observe that when source is not 10.3.14 then its destination is this. Hence we can say that 10.3.14 is the starting ip of the host.

There are 5 ip addresses in the IPv4 sections but out of those we know that 255 is used for the broadcasting and 254 for DHCP traffic. Hence remaining 3 are the required IP addresses.

Address	Packets	Bytes	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes	Country	City	AS Number	AS Organization
8.43.72.57	21	5848	12	4261	9	1587	—	—	—	—
10.3.14.1	559	60k	194	28k	365	31k	—	—	—	—
10.3.14.131	6,855	4292k	3,121	372k	3,734	3919k	—	—	—	—
10.3.14.134	6,338	2708k	3,815	458k	2,523	2250k	—	—	—	—
10.3.14.135	4,349	2282k	2,170	219k	2,179	2062k	—	—	—	—
10.3.14.254	9	2518	9	2518	0	0	—	—	—	—
10.3.14.255	281	28k	0	0	281	28k	—	—	—	—
17.110.246.85	28	7411	13	5483	15	1928	—	—	—	—
17.120.229.60	26	7303	13	5483	13	1820	—	—	—	—
17.173.65.114	28	6468	13	4672	15	1796	—	—	—	—
17.188.129.137	49	8580	24	4913	25	3667	—	—	—	—

Fig.: IPv4 address of Endpoints

iii) Document the mac address of the three hosts in the pcap.

Ans: MAC Address of 10.3.14.131 is 00:25:64:18:4c:2a

MAC Address of 10.3.14.134 is 14:da:e9:5b:42:1c

MAC Address of 10.3.14.135 is 00:26:bb:4c:6b:e1

Traffic Analysis.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 10.3.14.131

No.	Time	Source	Destination	Protocol	Length	Info
15248	386.279885	172.217.6.132	10.3.14.131	GQUIC	119	Payload (Encrypted), PKN: 135
15252	389.429820	94.31.29.64	10.3.14.131	TLSv1.2	100	Application Data
15253	389.430311	10.3.14.131	94.31.29.64	TCP	54	49529 → 443 [FIN, ACK] Seq=947 Ack=73759 Win=64007 Len=0
15254	389.430373	94.31.29.64	10.3.14.131	TCP	54	443 → 49529 [ACK] Seq=73759 Ack=948 Win=64239 Len=0
15255	389.430492	94.31.29.64	10.3.14.131	TLSv1.2	85	Encrypted Alert
15256	389.430564	94.31.29.64	10.3.14.131	TCP	54	443 → 49529 [FIN, PSH, ACK] Seq=73790 Ack=948 Win=64239 Len=0
15257	389.430586	10.3.14.131	94.31.29.64	TCP	54	49529 → 443 [RST, ACK] Seq=948 Ack=73790 Win=0 Len=0
15258	389.445537	94.31.29.64	10.3.14.131	TLSv1.2	100	Application Data
15259	389.446378	94.31.29.64	10.3.14.131	TLSv1.2	85	Encrypted Alert
15260	389.446449	94.31.29.64	10.3.14.131	TCP	54	443 → 49527 [FIN, PSH, ACK] Seq=5047 Ack=336 Win=64240 Len=0

> Frame 15253: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)

✓ Ethernet II, Src: Dell_18:4c:2a (00:25:64:18:4c:2a), Dst: Cisco_4e:79:b8 (00:09:7c:4e:79:b8)

> Destination: Cisco_4e:79:b8 (00:09:7c:4e:79:b8)

> Source: Dell_18:4c:2a (00:25:64:18:4c:2a)

Type: IPv4 (0x0800)

> Internet Protocol Version 4, Src: 10.3.14.131, Dst: 94.31.29.64

> Transmission Control Protocol, Src Port: 49529, Dst Port: 443, Seq: 947, Ack: 73759, Len: 0

Fig. Mac Address for 10.3.14.131

Traffic Analysis.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 10.3.14.134

No.	Time	Source	Destination	Protocol	Length	Info
11056	352.418119	217.12.208.17	10.3.14.134	TCP	292	[TCP Retransmission] 80 → 49251 [PSH, ACK] Seq=1 Ack=335 Win=64240 Len=238
11057	352.418245	10.3.14.134	217.12.208.17	TCP	54	49251 → 80 [ACK] Seq=335 Ack=239 Win=64002 Len=0
15076	381.715032	10.3.14.134	10.3.14.255	BROWSER	216	Get Backup List Request
15077	381.715159	10.3.14.134	10.3.14.1	NBNS	92	Name query NB WORKGROUP<1b>
15202	383.226037	10.3.14.134	10.3.14.1	NBNS	92	Name query NB WORKGROUP<1b>
15246	384.739034	10.3.14.134	10.3.14.1	NBNS	92	Name query NB WORKGROUP<1b>
15249	386.283602	10.3.14.134	10.3.14.255	NBNS	92	Name query NB WORKGROUP<1b>
15250	387.047880	10.3.14.134	10.3.14.255	NBNS	92	Name query NB WORKGROUP<1b>
15251	387.813194	10.3.14.134	10.3.14.255	NBNS	92	Name query NB WORKGROUP<1b>
15268	389.590555	10.3.14.134	10.3.14.255	BROWSER	216	Get Backup List Request

> Frame 11057: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)

✓ Ethernet II, Src: ASUSTekC_5b:42:1c (14:da:e9:5b:42:1c), Dst: Cisco_4e:79:b8 (00:09:7c:4e:79:b8)

> Destination: Cisco_4e:79:b8 (00:09:7c:4e:79:b8)

> Source: ASUSTekC_5b:42:1c (14:da:e9:5b:42:1c)

Type: IPv4 (0x0800)

> Internet Protocol Version 4, Src: 10.3.14.134, Dst: 217.12.208.17

> Transmission Control Protocol, Src Port: 49251, Dst Port: 80, Seq: 335, Ack: 239, Len: 0

Fig. Mac Address for 10.3.14.134

Traffic Analysis.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 10.3.14.135

No.	Time	Source	Destination	Protocol	Length	Info
8492	312.404722	104.16.2.9	10.3.14.135	TCP	54	443 → 49193 [ACK] Seq=39855 Ack=2757 Win=64240 Len=0
8493	312.405069	10.3.14.135	104.16.2.9	TCP	54	49193 → 443 [FIN, ACK] Seq=2757 Ack=39855 Win=65535 Len=0
8494	312.405126	104.16.2.9	10.3.14.135	TCP	54	443 → 49193 [ACK] Seq=39855 Ack=2758 Win=64239 Len=0
8495	312.405302	10.3.14.135	104.16.2.9	TCP	54	[TCP Dup ACK 3785#1] 49193 → 443 [ACK] Seq=2758 Ack=39855 Win=65535 Len=0
8496	312.431161	104.16.2.9	10.3.14.135	TCP	54	443 → 49193 [FIN, PSH, ACK] Seq=39855 Ack=2758 Win=64239 Len=0
8497	312.431342	10.3.14.135	104.16.2.9	TCP	54	49193 → 443 [ACK] Seq=2758 Ack=39856 Win=65535 Len=0
8528	321.853020	10.3.14.135	10.3.14.255	NBNS	92	Name query NB WORKGROUP<1d>
8531	323.532109	10.3.14.135	10.3.14.255	NBNS	92	Name query NB WORKGROUP<1d>
8545	324.285034	10.3.14.135	10.3.14.255	NBNS	92	Name query NB WORKGROUP<1d>
11132	356.244564	10.3.14.135	10.3.14.255	NBNS	92	Name query NB WORKGROUP<1d>

> Frame 8493: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)

✓ Ethernet II, Src: Apple_4c:6b:e1 (00:26:bb:4c:6b:e1), Dst: Cisco_4e:79:b8 (00:09:7c:4e:79:b8)

> Destination: Cisco_4e:79:b8 (00:09:7c:4e:79:b8)

> Source: Apple_4c:6b:e1 (00:26:bb:4c:6b:e1)

Type: IPv4 (0x0800)

> Internet Protocol Version 4, Src: 10.3.14.135, Dst: 104.16.2.9

> Transmission Control Protocol, Src Port: 49193, Dst Port: 443, Seq: 2757, Ack: 39855, Len: 0

Fig. Mac Address for 10.3.14.135

iv) Document the type of computer (Windows, Mac, Android, etc) for each of the three hosts in the pcap.

Ans: Type of Computer of 10.3.14.131 is Mozilla 5 running on Windows 10.0

Type of Computer of 10.3.14.134 is Mozilla 4 running on Windows 6.1

Type of Computer of 10.3.14.135 is Apple computer running OS X.

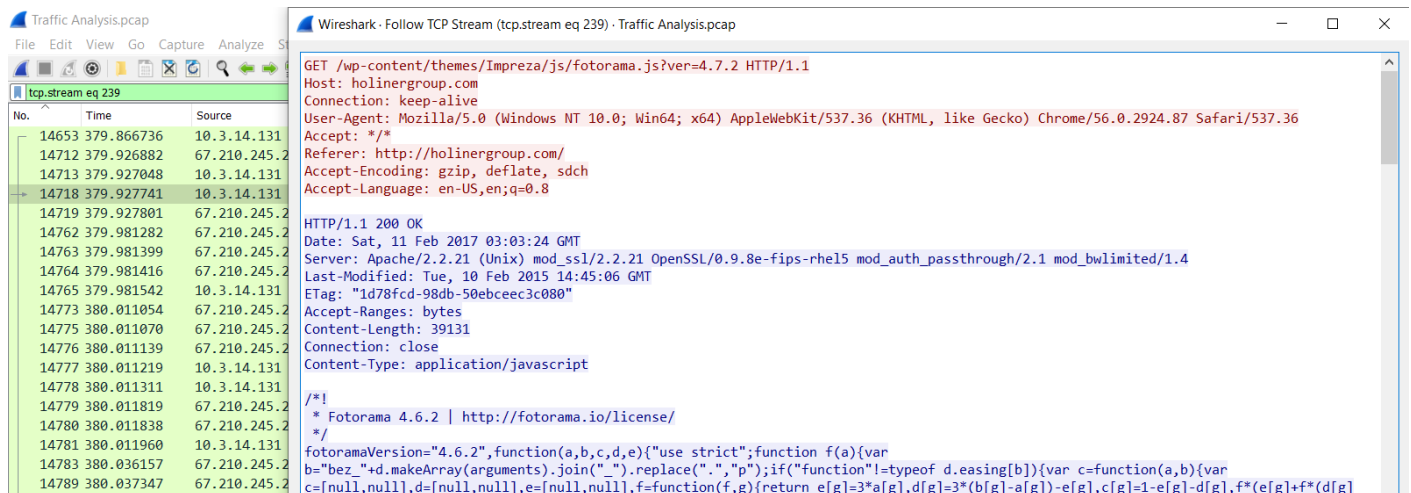


Fig. Mac Address for 10.3.14.131

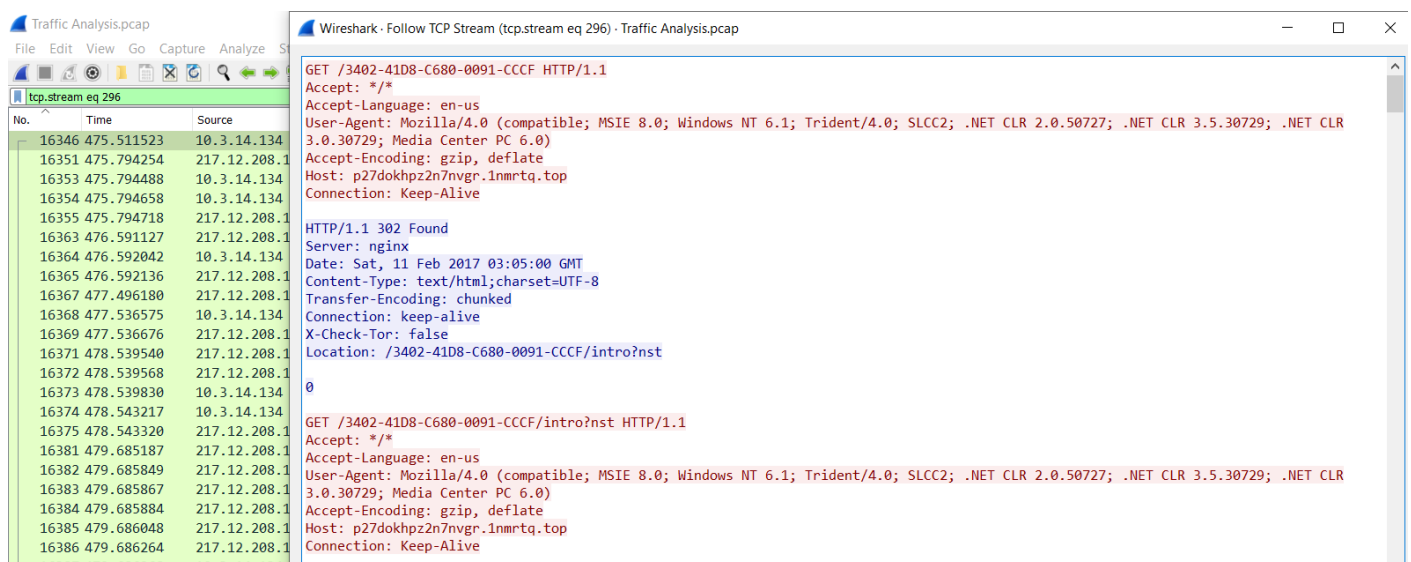


Fig. Mac Address for 10.3.14.134

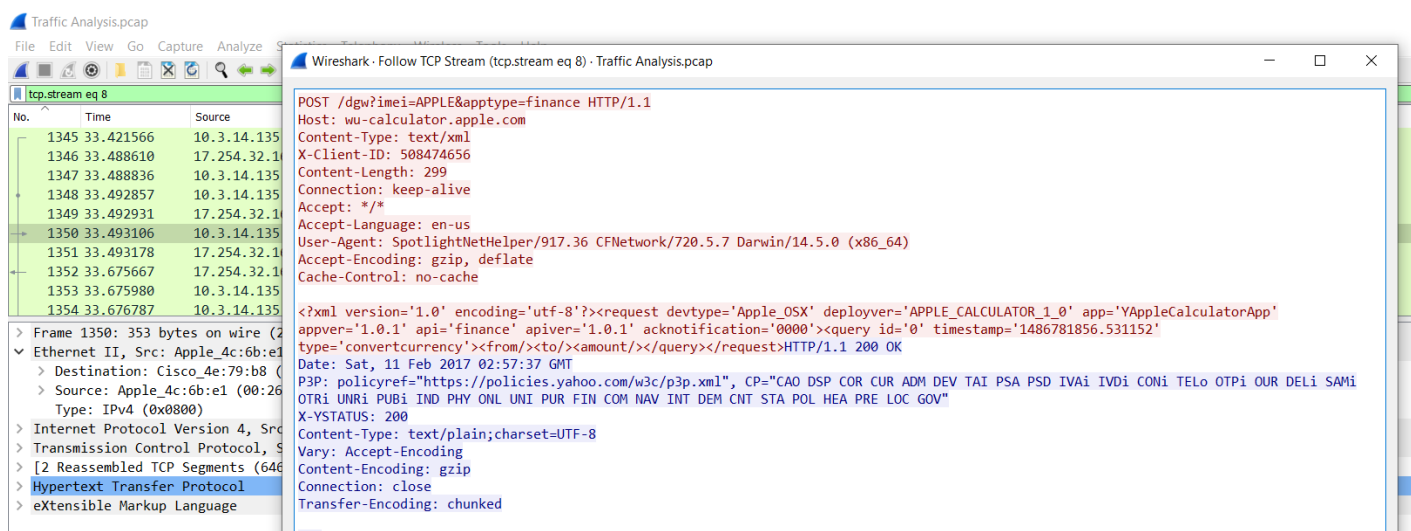


Fig. Mac Address for 10.3.14.134

v) Determine which host(s) were infected.

Ans: 10.3.14.134 and 10.3.14.131 are infected.

Reason: On exporting the object in http format we find out octet-stream content type. Octet-stream consists of random binary data which indicated that file is infected.

On clicking this infected ip is reflected in the wireshark. Hence we found out two IP's to be infected and they are mentioned above.

The image shows a Wireshark packet capture. The main packet list on the left shows several packets from source 10.3.14.134 to destination 104.155.4.180. Packet 8817 is highlighted. The right pane shows the details of packet 8817, which is an HTTP 200 OK response from 104.155.4.180. The 'Export - HTTP object list' window is open, showing a table of objects. The table has columns: Packet, Hostname, Content Type, Size, and Filename. The object for packet 8817 is highlighted, showing it is an application/octet-stream from unittogreas.top, with a size of 252kB and filename search.php.

Packet	Hostname	Content Type	Size	Filename
15236	graph.facebook.com	application/json	562 bytes	?id=http9
15239	sumome.com	application/json	16 bytes	jsonpcallt
15244	sumome.com	application/json	16 bytes	jsonpcallt
16175	sumome.com	application/json	513 bytes	load
16181	sumome.com	application/json	2666 bytes	load
8817	unittogreas.top	application/octet-stream	252kB	search.php
16077	kuzem2.kku.edu.tr	application/octet-stream	172kB	load.php
16444	p27dohpz2n7nvgr.1nmrtq.top	application/vnd.ms-fontobject	20kB	glyphicon
14465	load.sumome.com	application/x-javascript	164kB	\
15141	sumome-140a.kxcdn.com	application/x-javascript	194kB	service.js
15070	sumome.com	application/x-www-form-urlencoded	165 bytes	load
15210	sumome.com	application/x-www-form-urlencoded	325 bytes	load
15234	sumome.com	application/x-www-form-urlencoded	136 bytes	jsonpcallt
15240	sumome.com	application/x-www-form-urlencoded	135 bytes	jsonpcallt
15755	graylog.hotjar.com:12080	application/x-www-form-urlencoded	991 bytes	gelf
15879	kuzem2.kku.edu.tr	application/x-www-form-urlencoded	66 bytes	load.php
16171	sumome.com	application/x-www-form-urlencoded	165 bytes	load

Fig. IP infected from host unittogreas.top is 10.3.14.134

The image shows a Wireshark packet capture. The main packet list on the left shows several packets from source 10.3.14.131 to destination 193.255.242.61. Packet 16077 is highlighted. The right pane shows the details of packet 16077, which is an HTTP 200 OK response from 193.255.242.61. The 'Export - HTTP object list' window is open, showing a table of objects. The table has columns: Packet, Hostname, Content Type, Size, and Filename. The object for packet 16077 is highlighted, showing it is an application/octet-stream from kuzem2.kku.edu.tr, with a size of 172kB and filename load.php.

Packet	Hostname	Content Type	Size	Filename
15236	graph.facebook.com	application/json	562 bytes	?id=http9
15239	sumome.com	application/json	16 bytes	jsonpcallt
15244	sumome.com	application/json	16 bytes	jsonpcallt
16175	sumome.com	application/json	513 bytes	load
16181	sumome.com	application/json	2666 bytes	load
8817	unittogreas.top	application/octet-stream	252kB	search.php
16077	kuzem2.kku.edu.tr	application/octet-stream	172kB	load.php
16444	p27dohpz2n7nvgr.1nmrtq.top	application/vnd.ms-fontobject	20kB	glyphicon
14465	load.sumome.com	application/x-javascript	164kB	\
15141	sumome-140a.kxcdn.com	application/x-javascript	194kB	service.js
15070	sumome.com	application/x-www-form-urlencoded	165 bytes	load
15210	sumome.com	application/x-www-form-urlencoded	325 bytes	load
15234	sumome.com	application/x-www-form-urlencoded	136 bytes	jsonpcallt
15240	sumome.com	application/x-www-form-urlencoded	135 bytes	jsonpcallt
15755	graylog.hotjar.com:12080	application/x-www-form-urlencoded	991 bytes	gelf
15879	kuzem2.kku.edu.tr	application/x-www-form-urlencoded	66 bytes	load.php
16171	sumome.com	application/x-www-form-urlencoded	165 bytes	load

Fig. IP infected from host kuzem2.kku.edu.tr is 10.3.14.131

vi) Document the family (or families) of malware based on indicators from the pcap. ·

Ans: 10.3.14.131 was infected with Spora ransomware.
10.3.14.134 was infected with Cerber ransomware.

Host of the infections are found in the last sections as:

- i) unittogreas.top
- ii) kuzem2.kku.edu.tr

The root cause for kuzem2.kku.edu.tr is <http://holinergroup.com> (It is found using the follow tcp stream of that IP). Hence we come to know this malware is found from this link.

On google search holinergroup malware we come to know that Spora-Ransomware is the malware associated with it.

Similarly we found host of other IP as unittogreas.top and on google searching it we found it associated with the Cerber ransomware.

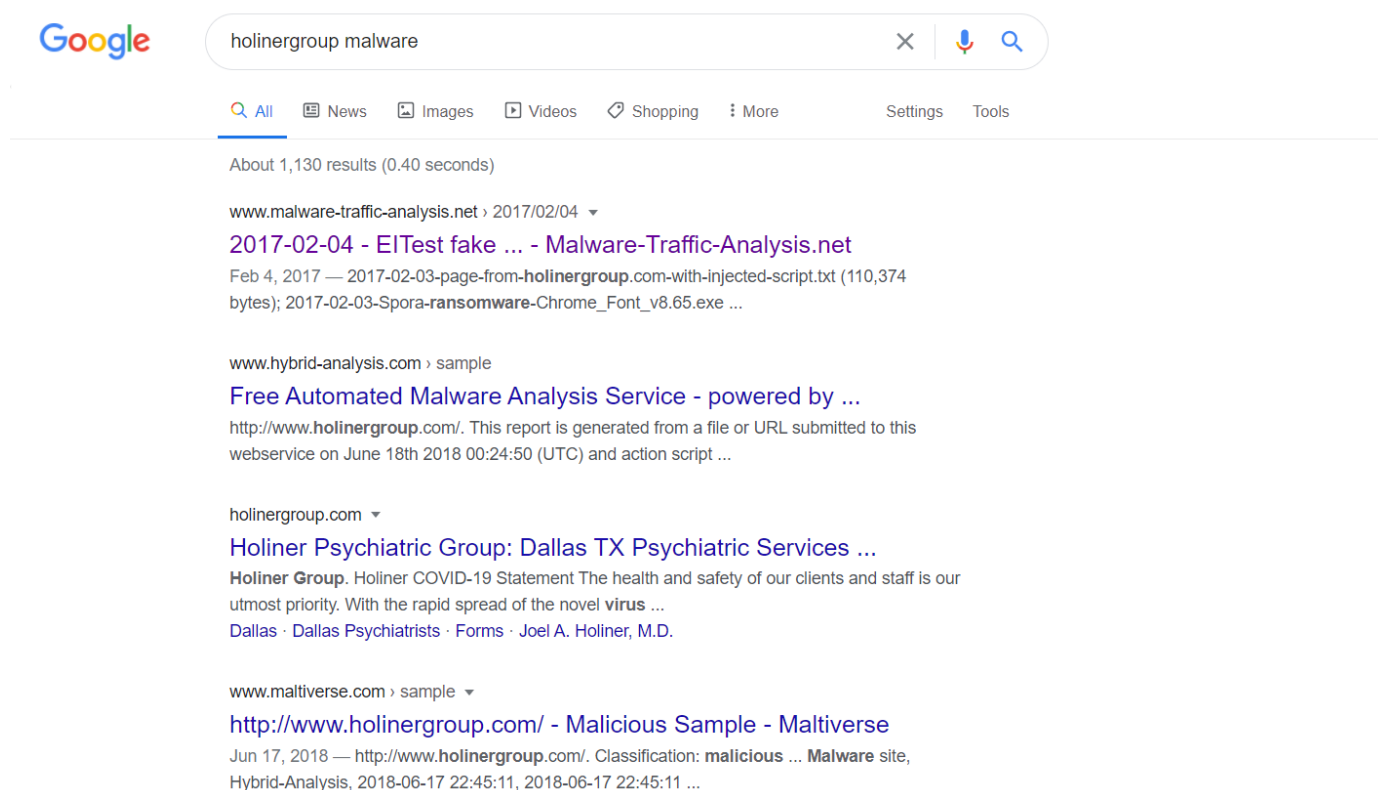


Fig. Google search of "holineargroup malware"

viii) Document the root cause for any infections noted in the pcap.

Ans: Root cause for the IP 10.3.14.131 is <http://holinergroup.com>.

Reason: On finding the IP through the object report we follow the TCP stream of it and find the origin to be the above mentioned link.

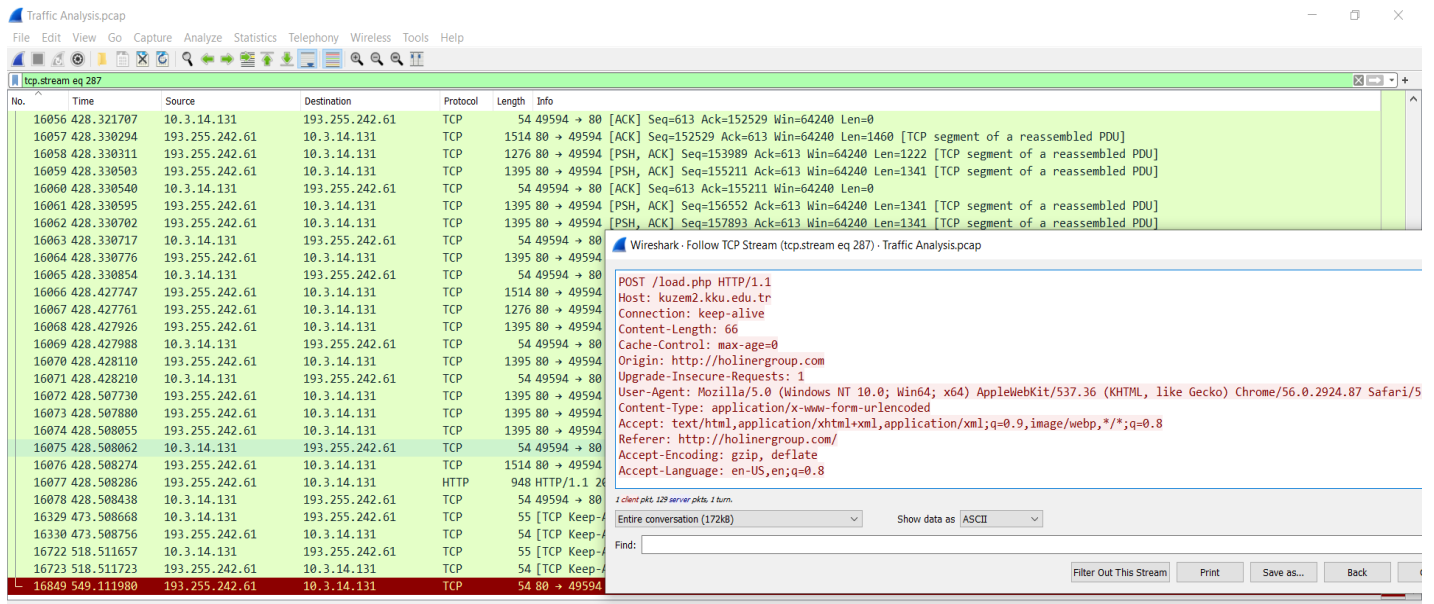


Fig. Root casue of infected IP 10.3.14.131

Learning:

- 1) Wireshark is the packet network analyser. It can brief about all our incoming and outgoing packets. It is an open-source software which is available for both UNIX and Windows.
- 2) We have analysed the given pcap file to us name Traffic Analyser. We came to many conclusions such as host ips, there OS and mac address. We also analysed the infected one among them and their origin. We can also figure out the connections of the host with other machines.
- 3) Besides this project we came to know about many feature of wireshark and how it can be useful to analyse our network and secure it from various malware. There are lot of feature in Wireshark that can be used to closly determine the flow of our network.
- 4) Wireshark is not helpful in stopping the activities that can harm our network. Hence it cannot act as intrusion detection system. It can only help in figure out what going in the system.

Part #2

In Part #2 this assignment, students are to follow the guidance in your book and in the video below on how to create a honeypot within Kali Linux. Students should provide screen shots as needed showing the setup process of the honeypot and that the honeypot is working. Finally, students should write about what you learned in this part.

Step1: Installation of Pentbox 1.8

```
(aman@kali)-[~]
$ cd ~/Desktop

(aman@kali)-[/Desktop]
$ git clone https://github.com/Hackplayers/pentbox.git
Cloning into 'pentbox-1.8' ...
remote: Enumerating objects: 306, done.
remote: Total 306 (delta 0), reused 0 (delta 0), pack-reused 306
Receiving objects: 100% (306/306), 808.04 KiB | 232.00 KiB/s, done.
Resolving deltas: 100% (113/113), done.

(aman@kali)-[/Desktop]
$ cd ~/pentbox-1.8/
cd: no such file or directory: /home/aman/pentbox-1.8/

(aman@kali)-[/Desktop]
$ cd pentbox-1.8/

(aman@kali)-[/Desktop/pentbox-1.8]
$ ./pentbox.rb
```

PentBox 1.8
.....WhiteHatPanda Add project 72c8182 on Apr 12, 2018 1 commit
..!!!!!!
~~~~!!!!!! ..!!!!!!UWWW\$\$\$  
:\$SNWX! : .!!!!!!XUWWW\$\$\$\$\$\$SP b Add project 5 years ago  
\$\$\$\$\$#WX!: <!!!!UW\$\$\$ \$\$\$\$\$\$# Add project 5 years ago  
\$\$\$\$\$ \$\$\$UX : !! UW\$\$\$\$\$\$\$ 4\$\$\$\$\$\* other Add project 5 years ago  
^\$\$\$B \$\$\$S \$\$\$\$\$\$\$\$\$\$\$\$ d\$R\* tools Add project 5 years ago  
\*\*\$bd\$\$\$ \*\$\$\$\$\$\$\$\$\$\$\$o+# COPYING.txt Add project 5 years ago  
\*\*\*\* \*\*\*\*\*  
  
----- Menu ruby2.7.2 @ x86\_64-linux-gnu  
1- Cryptography tools changelog.txt Add project 5 years ago  
2- Network tools pb\_update.rb Add project 5 years ago  
3- Web pentbox.rb Add project 5 years ago  
4- Ip grabber readme.txt Add project 5 years ago  
5- Geolocation ip todo.txt Add project 5 years ago  
6- Mass attack  
7- License and contact  
8- Exit readme.txt  
→ Documentation available @ http://pentbox.net/

## Step2: Finding IP Address of Linux Machine

CMD: ifconfig

### Step 3: Setting up honey pot

**Error faced: Honeypot requires root privilege.**

It is solved by becoming the super user. It is shown in the screenshot.



```

(aman@kali)~[~]
$ sudo su
(root@kali)~[/home/aman]
# cd ./Desktop

(root@kali)~[/home/aman/Desktop]
# cd pentbox-1.8/

(root@kali)~[/home/aman/Desktop/pentbox-1.8]
# ./pentbox.rb

PentBox 1.8
      .::!!!!!!:.
.!!!!:.      .:!!!!!!:.
~::~!!!!:.    .:!!!!!!UWWWW$$$
:$$NWX!!:    .:!!!!!!XUWW$$$$$$$$$P
$$$$$##WX!:  .<!!!!UW$$$$ $$$$$$#
$$$$$ $$$UX :!!UW$$$$$$$$$ 4$$$$$*
^$$$B $$$B  $$$$$$$$$$$$ d$$R*
**$bd$$$$$ '*$$$$$$$$$o+#
      ****      *****

----- Menu      ruby2.7.2 @ x86_64-linux-gnu

1- Cryptography tools
2- Network tools
3- Web
4- Ip grabber
5- Geolocation ip
6- Mass attack
7- License and contact
8- Exit

  → 2

1- Net DoS Tester
2- TCP port scanner
3- Honeypot
4- Fuzzer
5- DNS and host gathering
6- MAC address geolocation (samy.pl)

```



Unable to connect

Firefox can't establish a connection to the server.

- The site could be temporarily down or it could be too far away.
- If you are unable to load any pages, you may need to reset your network connection.
- If your computer or network is having problems, it could also be the cause of the problem. If you are a network administrator, you may want to verify that the server is configured properly, to ensure that Firefox is permitted to access the site.

## I: Using Fast Auto Configuration

```

inet0 fe80::a00:27ff:febf:1c8d prefixlen 64 scopeid 0x20<link>
1- Net DoS Tester 10:27:b1:1c:8d txqueuelen 1000 (Ethernet)
2- TCP port scanner 977 bytes 3193481 (3.0 MiB)
3- Honeypot errors 0 dropped 0 overruns 0 frame 0
4- Fuzzer packets 2960 bytes 336089 (328.2 KiB)
5- DNS and host gathering 0 overruns 0 carrier 0 collisions 0
6- MAC address geolocation (samy.pl)
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
0- Back inet 127.0.0.1 netmask 255.0.0.0
      inet6 ::1 prefixlen 128 scopeid 0x10<host>
      → 3 loop txqueuelen 1000 (local Loopback)
      RX packets 26 bytes 1256 (1.2 KiB)
// Honeypot //
TX packets 26 bytes 1256 (1.2 KiB)
You must run PentBox with root privileges. carrier 0 collisions 0

Select option.

1- Fast Auto Configuration
2- Manual Configuration [Advanced Users, more options]

  → 1
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
HONEYPOT ACTIVATED ON PORT 80 (2021-01-09 18:24:44 +0530) 0.1.255
inet0 fe80::a00:27ff:febf:1c8d prefixlen 64 scopeid 0x20<link>

```

## Step 4 : Login from the browser

## II: Using Manual Configuration

```

Select option. 18:44 +0530
1- Fast Auto Configuration
2- Manual Configuration [Advanced Users, more options]

→ 2

Insert port to Open.

→ 23

Insert false message to show.

→ You are not allowed So get lost from here

Save a log with intrusions?

(y/n) → y

Log file name? (incremental)

Default: */pentbox/other/log_honeypot.txt

→

Activate beep() sound when intrusion?

(y/n) → n

HONEYPOT ACTIVATED ON PORT 23 (2021-01-09 18:41:41 +0530)

```

## Step 4 : Login From Browser

**Error faced: Telnet command not found.**

It solved by installing telnet in linux machine.

```

File Actions Edit View Help

(aman@kali)-[~]
$ sudo apt-get install telnet
[sudo] password for aman:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
telnet
0 upgraded, 1 newly installed, 0 to remove and 795 not upgraded.
Need to get 70.4 kB of archives.
After this operation, 167 kB of additional disk space will be used.
Get:1 http://ftp.harukasan.org/kali kali-rolling/main amd64 telnet amd64 0.17-41.2 [70.4 kB]
Fetched 70.4 kB in 3s (20.4 kB/s)
Selecting previously unselected package telnet.
(Reading database ... 261615 files and directories currently installed.)
Preparing to unpack .../telnet_0.17-41.2_amd64.deb ...
Unpacking telnet (0.17-41.2) ...
Setting up telnet (0.17-41.2) ...
update-alternatives: using /usr/bin/telnet.netkit to provide /usr/bin/telnet (telnet) in auto mode
Processing triggers for kali-menu (2020.4.0) ...
Processing triggers for man-db (2.9.3-2) ...

```

## Learning:

It is security mechanism in which attacker can be easily traced. As its name suggest pot of honey means a trap to lure attacker. It is mentioned in the video that it basically hacking the hacker.

We have installed honeypot from the Pentbox 1.8 which is basically a security suite that can be used in penetration testing to do various activities.

Honeypot is one of the features of Pentbox. We can set it up by two ways:

- 1) By Using Fast Auto Configuration in which it is setup automatically with the default port 80.
- 2) By Manual Configuration in which we can set up the port for the honeypot.

In the end whenever we try to enter into our IP is blocks it and also directs IP address of the attacking user.

---