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[Portfolio_CyberSecurityMonashBootcamp](#) / [24-Final-Project](#) / [_PieterBooyesen-NetworkReport.md](#)**ShibumiKat** Final Project Submitted 1 contributor 189 lines (116 sloc) | 7.47 KB

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Network Forensic Analysis Report

Overview

This report is from the Security Engineering Team of X-CORP, supporting the SOC infrastructure. The SOC analysts have noticed some discrepancies with alerting in the Kibana system and the Security Engineering team investigated.

Yesterday, the team confirmed that newly created alerts are working. Live traffic was monitored on the wire to detect any abnormalities that aren't reflected in the alerting system.

This report is the findings for review by both the SOC manager and the Engineering Manager with appropriate analysis.

Methodology

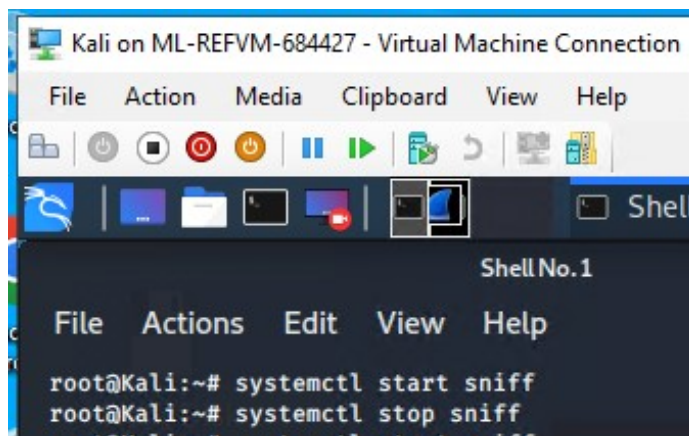
- Kali VM used for Analysis-* The following Commans were used to start and stop the WireShark Capture
- Open a terminal window and run the command `systemctl start sniff`.
 - This command uses `tcpreplay` to replay PCAPs in `/opt/pcaps` onto Kali's `eth0` interface.

- Launch Wireshark and capture traffic on the `eth0` interface.
- After 15 minutes have passed, run the command `systemctl stop sniff` to stop the `tcpreplay`.
 - Please note that replaying the PCAPs will use up the CPU memory. You will need to stop this service in order to avoid performance issues with your virtual machine.
- Save the capture to file. (**This is an important step.**)
- Profile users' behavior from their packet data.

If you are unable to find some of the solutions, it is possible you did not allow Wireshark to capture traffic for long enough. To save time, feel free to use the following PCAP file below to answer the questions:

- [PCAP](#)
- If copy and paste is not available on the VM, use `curl` to download the file with this alternate URL: <http://tinyurl.com/yaajh8o8>.
 - For example: `curl -L -o pcap.pcap http://tinyurl.com/yaajh8o8`

Note: You will be dealing with live malware in this activity. Please make sure all work is done on Azure machines.



Time Thieves

At least two users on the network have been wasting time on YouTube. Usually, IT wouldn't pay much mind to this behavior, but it seems these people have created their own web server on the corporate network. So far, Security knows the following about these time thieves:

- They have set up an Active Directory network.
- They are constantly watching videos on YouTube.
- Their IP addresses are somewhere in the range 10.6.12.0/24.

1. Domain name of the users' custom site

Domain Name: frank-n-ted-dc.frank-n-ted.com WireShark Filter: ip.addr == 10.6.12.0/24

Wireshark packet capture showing network traffic for the domain frank-n-ted-dc.frank-n-ted.com. The filter is ip.addr == 10.6.12.0/24. The selected packet is a DNS Standard query response from 10.6.12.12 to 10.6.12.157, showing the IP address of the Domain Controller.

No.	Time	Source	Destination	Protocol	Length	Info
72082	763.478291100	10.6.12.12	255.255.255.255	DHCP	351	DHCP ACK - Transaction ID 0xba8bd7f0
72083	763.479148700	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Join group 224.0.0.251 for any sources
72084	763.480005700	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Join group 224.0.0.252 for any sources
72085	763.480870400	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Leave group 224.0.0.252
72086	763.481731800	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Join group 224.0.0.252 for any sources
72087	763.483013100	10.6.12.157	224.0.0.251	MDNS	80	Standard query 0x0000 ANY DESKTOP-86J4BX.local, "QM" question
72088	763.484453300	10.6.12.157	224.0.0.251	MDNS	90	Standard query response 0x0000 A 10.6.12.157
72089	763.485644700	10.6.12.157	224.0.0.252	LLMNR	74	Standard query 0x094f ANY DESKTOP-86J4BX
72090	763.486644300	10.6.12.157	224.0.0.22	IGMPv3	62	Membership Report / Join group 224.0.0.251 for any sources / Join group ...
72091	763.488172400	10.6.12.12	10.6.12.12	DNS	96	Standard query 0x9c26 SRV _ldap._tcp.dc._msdcs.frank-n-ted.com
72092	763.492197400	10.6.12.12	10.6.12.157	DNS	102	Standard query response 0x9c26 SRV _ldap._tcp.dc._msdcs.frank-n-ted.com
72093	763.492197400	10.6.12.157	10.6.12.12	DNS	90	Standard query 0x838c A frank-n-ted-dc.frank-n-ted.com
72094	763.493894200	10.6.12.12	10.6.12.157	DNS	106	Standard query response 0x838c A frank-n-ted-dc.frank-n-ted.com A 10.6.1...
72095	763.498117000	10.6.12.157	10.6.12.12	CLDAP	264	searchRequest(1) "(<ROOT>)" baseObject

Data length: 38
Priority: 0
Weight: 100
Port: 389
Target: frank-n-ted-dc.frank-n-ted.com

Additional records

- frank-n-ted-dc.frank-n-ted.com: type A, class IN, addr 10.6.12.12
 - Name: frank-n-ted-dc.frank-n-ted.com
 - Type: A (Host Address) (1)
 - Class: IN (0x0001)
 - Time to live: 1200 (20 minutes)
 - Data length: 4
 - Address: 10.6.12.12

[Request In: 72091]
[Time: 0.002584000 seconds]

Frame (frame), 162 bytes Packets: 126171 · Displayed: 9966 (7.9%) · Dropped: 0 (0.0%) · Profile: Default

2. What is the IP address of the Domain Controller (DC) of the AD network?

Domain Controller: 10.6.12.12 WireShark Filter: ip.addr == 10.6.12.0/24 (and also refer to the previous screenshot)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 10.6.12.0/24

No.	Time	Source	Destination	Protocol	Length	Info
72082	763.478291100	10.6.12.12	255.255.255.255	DHCP	351	DHCP ACK - Transaction ID 0xba8bd7f0
72083	763.479148700	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Join group 224.0.0.251 for any sources
72084	763.480005700	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Join group 224.0.0.252 for any sources
72085	763.480870400	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Leave group 224.0.0.252
72086	763.481731800	10.6.12.157	224.0.0.22	IGMPv3	54	Membership Report / Join group 224.0.0.252 for any sources
72087	763.483013100	10.6.12.157	224.0.0.251	MDNS	80	Standard query 0x0000 ANY DESKTOP-86J4BX.local, "QM" question
72088	763.484453300	10.6.12.157	224.0.0.251	MDNS	90	Standard query response 0x0000 A 10.6.12.157
72089	763.485644700	10.6.12.157	224.0.0.252	LLMNR	74	Standard query 0x094f ANY DESKTOP-86J4BX
72090	763.486644300	10.6.12.157	224.0.0.22	IGMPv3	62	Membership Report / Join group 224.0.0.251 for any sources / Join group ...
72091	763.488172400	10.6.12.157	10.6.12.12	DNS	96	Standard query 0x9c26 SRV _ldap._tcp.dc._msdcs.frank-n-ted.com ...
72092	763.490756400	10.6.12.12	10.6.12.157	DNS	162	Standard query response 0x9c26 SRV _ldap._tcp.dc._msdcs.frank-n-ted.com ...
72093	763.492197400	10.6.12.157	10.6.12.12	DNS	90	Standard query 0x838c A frank-n-ted-dc.frank-n-ted.com
72094	763.493894200	10.6.12.12	10.6.12.157	DNS	106	Standard query response 0x838c A frank-n-ted-dc.frank-n-ted.com A 10.6.1...
72095	763.498117000	10.6.12.157	10.6.12.12	LDAP	264	searchRequest(1) "(<ROOT>)" baseObject

Client hardware address padding: 00000000000000000000
 Server host name not given
 Boot file name not given
 Magic cookie: DHCP
 Option: (53) DHCP Message Type (ACK)
 Option: (58) Renewal Time Value
 Option: (59) Rebinding Time Value
 Option: (51) IP Address Lease Time
 Option: (54) DHCP Server Identifier (10.6.12.12)
 Option: (1) Subnet Mask (255.255.255.0)
 Option: (81) Client Fully Qualified Domain Name
 Option: (3) Router
 Option: (6) Domain Name Server
 Option: (15) Domain Name
 Option: (255) End

0050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0060 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0070 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0090 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 00a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 00b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 00c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 00d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 00e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 00f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0100 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0110 00 00 00 00 00 00 63 82 53 63 35 01 05 3a 04 00c- Sc5-..
 0120 04 9d 40 3b 04 00 08 13 30 33 04 00 09 3a 00 36 ..-@;-...03-...6
 0130 04 0a 06 0c 0c 01 04 ff ff ff 00 51 03 00 ff ff-...Q-...fr
 0140 03 04 0a 06 0c 01 06 04 0a 06 0c 0c 0f 10 66 72fr
 0150 61 6e 6b 2d 6e 2d 74 65 64 2e 63 6f 6d 00 ff ank-n-te d.com..

DHCP/BOOTP option type (dhcp.option.type), 6 bytes

Packets: 126171 · Displayed: 9966 (7.9%) · Dropped: 0 (0.0%) · Profile: Default

Status: Running

3. What is the name of the malware downloaded to the 10.6.12.203 machine?

- Once you have found the file, export it to your Kali machine's desktop.

Filename: june11.d11 WireShark Filter: ip.addr == 10.6.12.0/24 and

http.request.method == GET

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 10.6.12.0/24 and http.request.method == GET

No.	Time	Source	Destination	Protocol	Length	Info
57901	652.318762808	10.6.12.157	172.93.120.242	HTTP	513	GET /logs/invoice-86495.doc HTTP/1.1
58748	658.621258400	10.6.12.203	205.185.125.104	HTTP	275	GET /pQ8tWj HTTP/1.1
58752	658.636633700	10.6.12.203	205.185.125.104	HTTP	312	GET /files/june11.dll HTTP/1.1

TCP payload (258 bytes)

Hypertext Transfer Protocol

GET /files/june11.dll HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /files/june11.dll HTTP/1.1\r\n]

[GET /files/june11.dll HTTP/1.1\r\n]

[Severity Level: Chat]

[Group: Sequence]

Request Method: GET

Request URI: /files/june11.dll

Request Version: HTTP/1.1

Accept: */*\r\n

Accept-Encoding: gzip, deflate\r\n

User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 10.0; WOW64; Trident/7.0; .NET4.0C; .NET4.0E)\r\n

Host: 205.185.125.104\r\n

Connection: Keep-Alive\r\n

Cookie: _subid=3mmhnd8jp\r\n

Cookie pair: _subid=3mmhnd8jp

\r\n

[Full request URI: http://205.185.125.104/files/june11.dll]

[HTTP request 2/2]

[Prev request in frame: 58748]

[Response in frame: 59388]

0030 ff ff 34 1f 00 00 47 45 54 20 2f 66 69 6c 65 73 --4-- GE T /files

0040 2f 6a 75 6e 65 31 31 2e 64 6c 6c 20 48 54 54 50 /june11.dll HTTP

0050 2f 31 2e 31 0d 0a 41 63 63 65 70 74 3a 20 2a 2f /1.1--Ac cept: */

0060 2a 0d 0a 41 63 63 65 70 74 2d 45 6e 63 6f 64 69 *-Accep t-Encodi

0070 6e 67 3a 20 67 7a 69 70 2c 20 64 65 66 6c 61 74 ng: gzip , deflat

0080 65 0d 0a 55 73 65 72 2d 41 67 65 6e 74 3a 20 4d e--User- Agent: M

0090 6f 7a 69 6c 6c 61 2f 34 2e 30 20 28 63 6f 6d 70 ozilla/4 .0 (comp

00a0 61 74 69 62 6c 65 3b 20 4d 53 49 45 20 37 2e 30 atible; MSIE 7.0

00b0 3b 20 57 69 6e 64 6f 77 73 20 4e 54 20 31 30 2e ; Window s NT 10.

00c0 30 3b 20 57 4f 57 36 34 3b 20 54 72 69 64 65 6e 0; WOW64 ; Triden

HTTP Request-URI (http.request.uri), 17 bytes

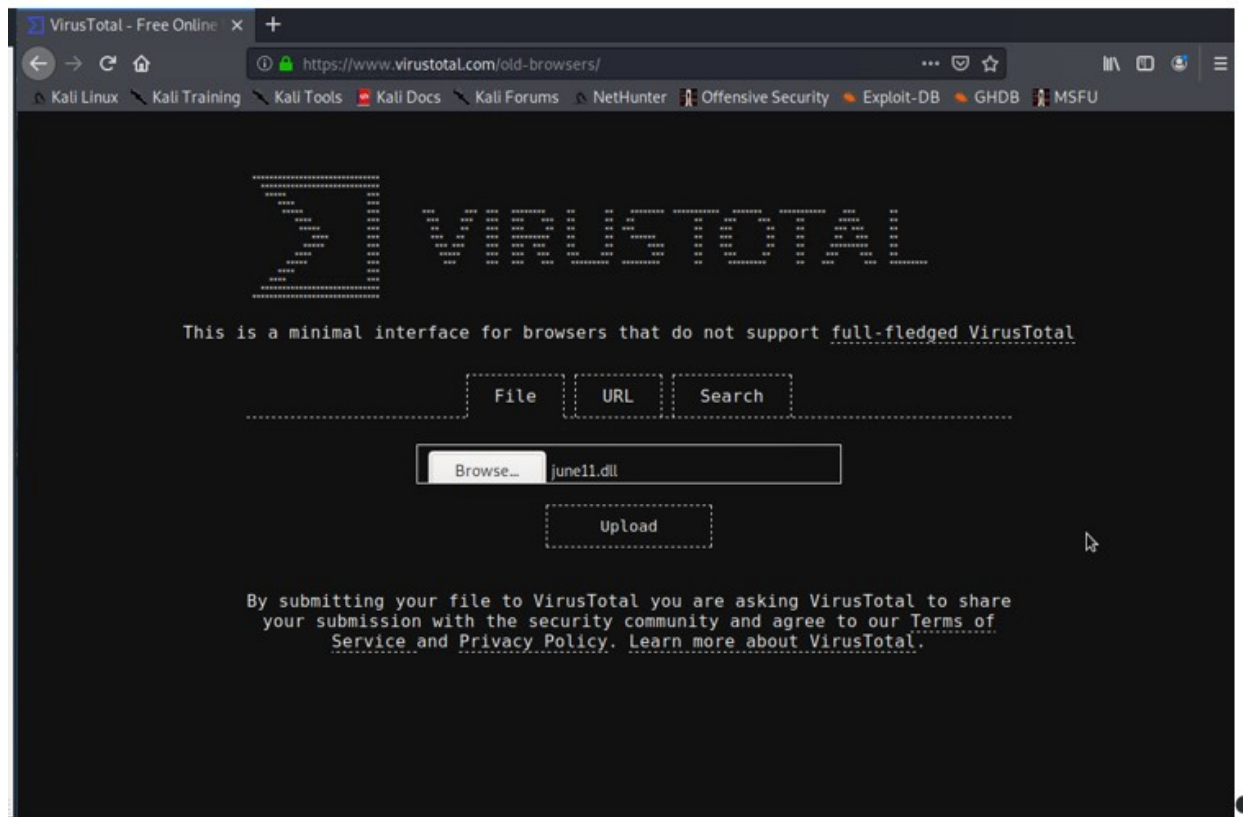
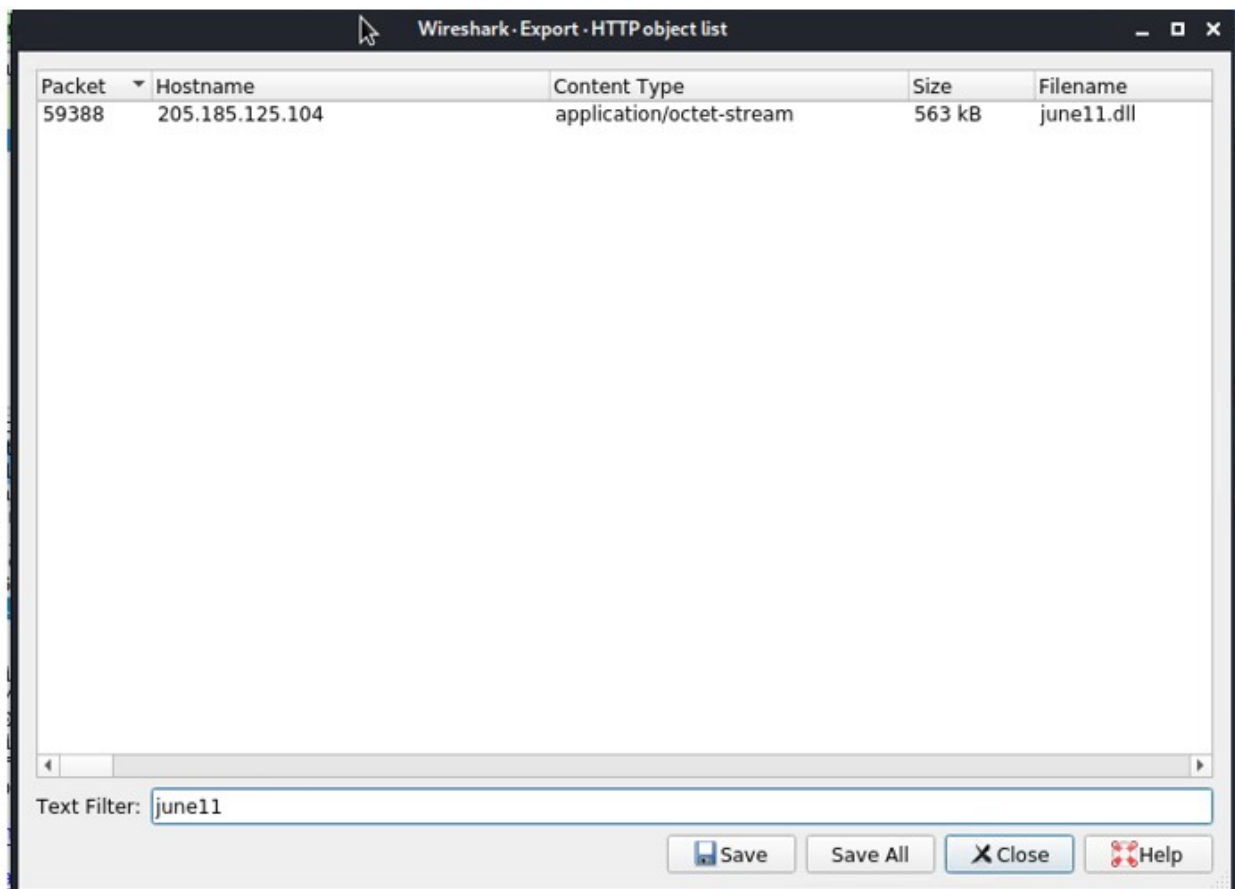
Packets: 104286 · Displayed: 3 (0.0%)

Profile: Default

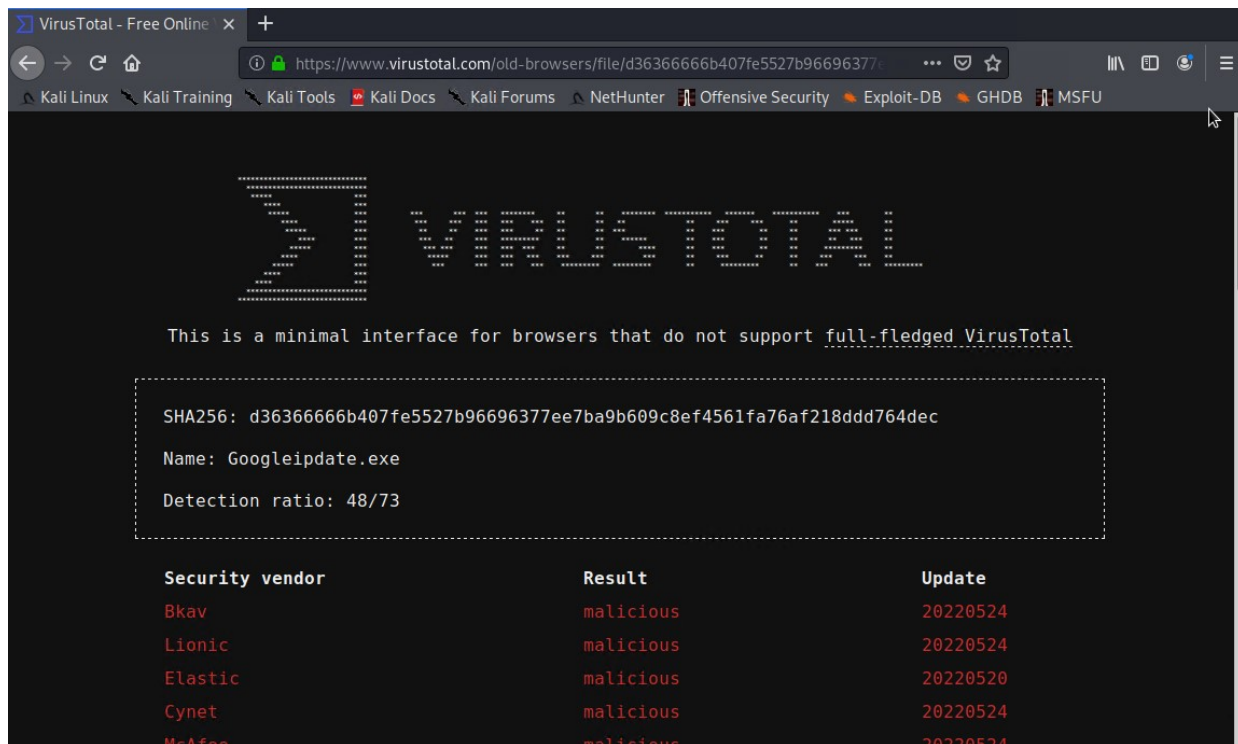
Status: Running

4. Upload the file to [VirusTotal.com](https://www.virustotal.com/).

- Wireshark//File//Export Objects//HTTP > filter: june11
- Upload file to VirusTotal.com

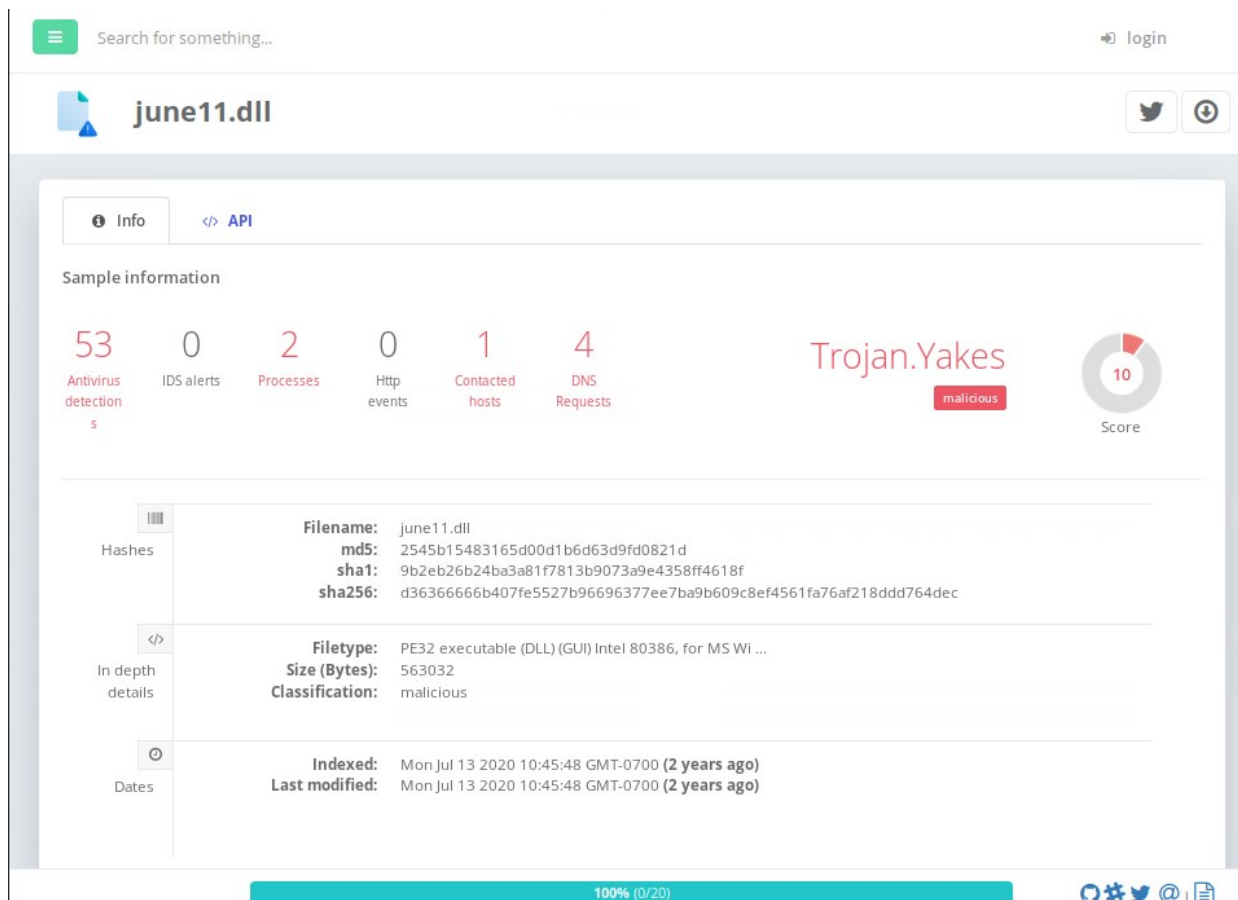


Malware Characteristics



5. What kind of malware is this classified as?

The malware goes by different names but maltiverse.com classify it as Trojan



Antivirus positives	
Antivirus	Threat
MicroWorld-eScan	Trojan.GenericKD.34007934
VBA32	Trojan.Wacatac
FireEye	Generic.mg.2545b15483165d00
CAT-QuickHeal	Trojan.Multi
ALYac	Trojan.GenericKD.34007934
Cylance	Unsafe
Zillya	Trojan.Yakes.Win32.75599
Sangfor	Malware
Alibaba	TrojanSpy:Win32/Yakes.56555f48
K7GW	Trojan (0056893e1)
K7AntiVirus	Trojan (0056893e1)
Arcabit	Trojan.Generic.D206EB7E
TrendMicro	TROJ_GEN.R069C0PFH20
BitDefenderTheta	Gen:NN.ZediaF.34130.lu9@aul7OQgi
Symantec	ML.Attribute.HighConfidence
ESET-NOD32	Win32/Spy.Zbot.ADI
APEX	Malicious
Paloalto	generic.ml

100% (0/20)

Vulnerable Windows Machine

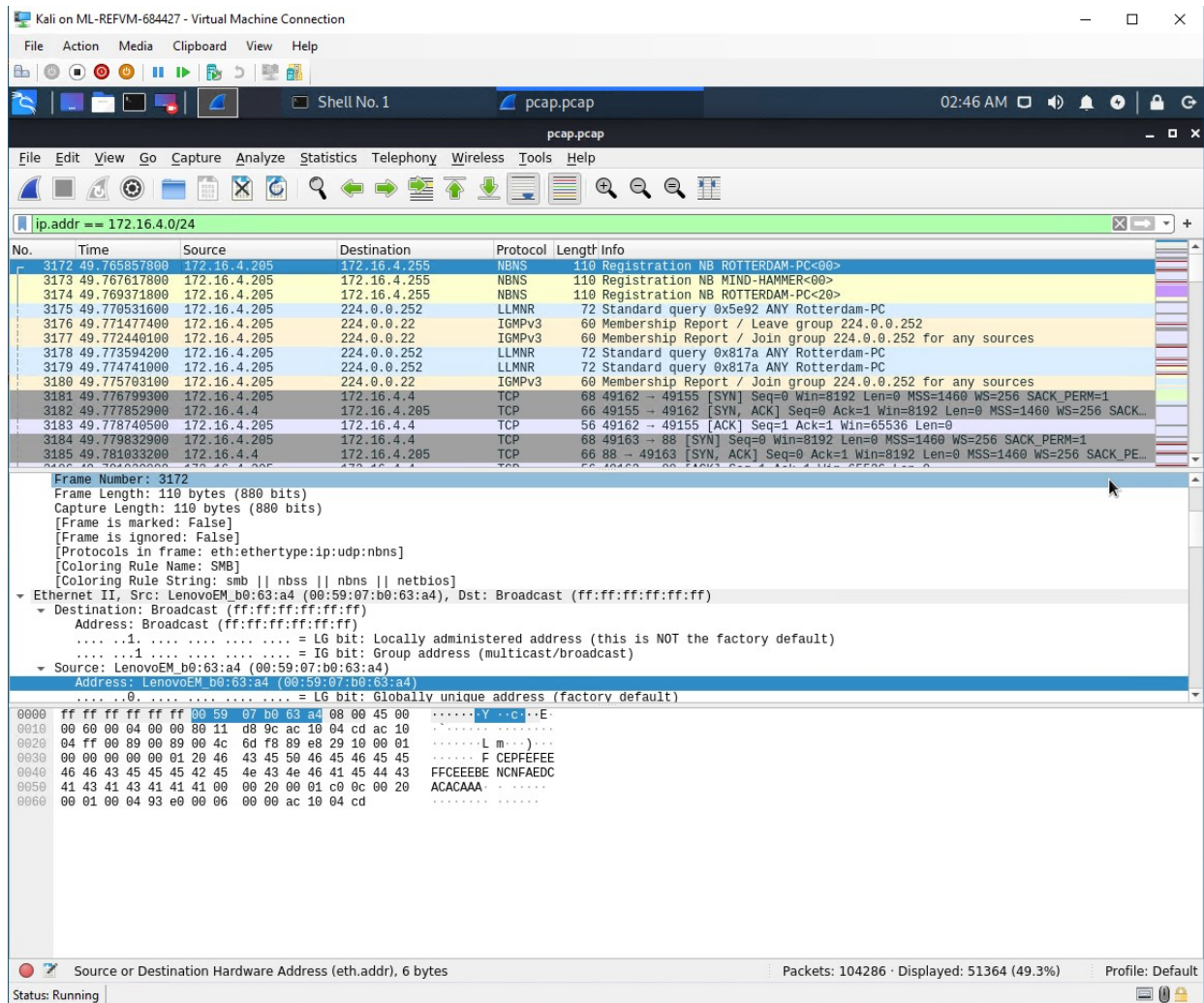
The Security team received reports of an infected Windows host on the network. They know the following:

- Machines in the network live in the range 172.16.4.0/24 .
- The domain mind-hammer.net is associated with the infected computer.
- The DC for this network lives at 172.16.4.4 and is named Mind-Hammer-DC.
- The network has standard gateway and broadcast addresses.

Inspect your traffic to answer the following questions in your network report:

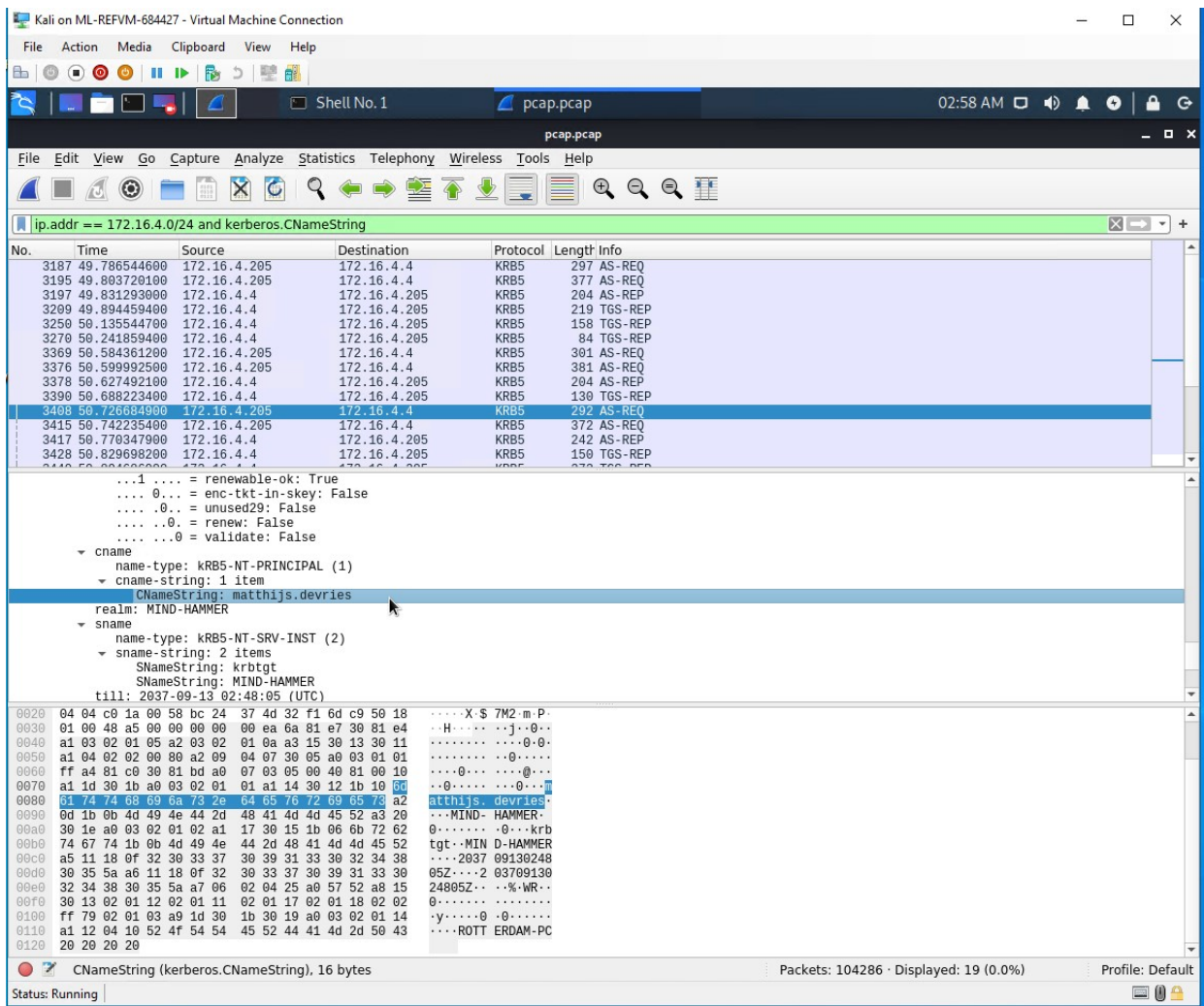
1. Find the following information about the infected Windows machine:

- Host name: ROTTERDAM-PC
- IP address: 172.16.4.205
- MAC address: 00:59:07:b0:63:a4
- Wireshark Filter: ip.addr == 172.16.4.0/24



2. What is the username of the Windows user whose computer is infected?

- Username: matthijs.devries
- Wireshark Filter: ip.src==172.16.4.205 && kerberos.CNameString



3. What are the IP addresses used in the actual infection traffic?

- 3 IP addresses involved with the majority of network traffic:
 - 172.16.4.205
 - 185.243.115.84
 - 166.62.11.64
- WireShark Filter: `ip.src==172.16.4.205`
- Finding the IP addresses:
 - Click on the Statistics Tab
 - Select the Conversation
 - Select the IPv4
 - Sort Packets high to low
 - Select function "Limit to Display Filter"

Ethernet · 6		IPv4 · 37		IPv6		TCP · 120		UDP · 83			
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	Bit
172.16.4.205	185.243.115.84	30,344	26 M	15,149	9,831 k	15,195	16 M	196.154314	1016.8611	77 k	
166.62.111.64	172.16.4.205	15,728	16 M	11,354	15 M	4,374	321 k	51.161259	1001.6762	126 k	
172.16.4.4	172.16.4.205	1,417	339 k	680	147 k	737	191 k	49.776799	1144.3125	1,034	
31.13.70.52	172.16.4.205	726	479 k	436	447 k	290	31 k	62.702930	989.8205	3,620	
93.95.100.178	172.16.4.205	722	419 k	418	391 k	304	28 k	116.562981	937.4512	3,336	
54.230.89.184	172.16.4.205	308	208 k	184	196 k	124	11 k	51.829430	1001.0016	1,571	

With examples of the infected traffic being:

Kali on ML-REFVM-684427 - Virtual Machine Connection

File Action Media Clipboard View Help

pcap.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 172.16.4.205 and ip.addr == 185.243.115.84

No.	Time	Source	Destination	Protocol	Length	Info
13076	196.626830200	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=9202 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13077	196.649437800	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=10559 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13078	196.672026300	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=11916 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13079	196.694571400	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=13273 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13080	196.695423300	185.243.115.84	172.16.4.205	TCP	54	80 → 49249 [ACK] Seq=14799 Ack=7845 Win=45952 Len=0
13081	196.696293700	185.243.115.84	172.16.4.205	TCP	54	80 → 49249 [ACK] Seq=14799 Ack=9202 Win=48896 Len=0
13082	196.718889200	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=14630 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13083	196.741461100	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=15987 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13084	196.764025400	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=17344 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13085	196.706097000	172.16.4.205	185.243.115.84	TCP	1411	49249 → 80 [ACK] Seq=18701 Ack=14799 Win=65280 Len=1357 [TCP segment of a ...]
13086	196.795147600	172.16.4.205	185.243.115.84	HTTP	534	POST /empty.gif HTTP/1.1 (application/x-www-form-urlencoded)
13090	196.799059800	185.243.115.84	172.16.4.205	TCP	54	80 → 49249 [ACK] Seq=14799 Ack=10559 Win=51840 Len=0
13091	196.799924700	185.243.115.84	172.16.4.205	TCP	54	80 → 49249 [ACK] Seq=14799 Ack=11916 Win=54784 Len=0
13092	196.800789200	185.243.115.84	172.16.4.205	TCP	54	80 → 49249 [ACK] Seq=14799 Ack=13273 Win=57728 Len=0

Hypertext Transfer Protocol

POST /empty.gif HTTP/1.1\r\n

[Expert Info (Chat/Sequence): POST /empty.gif HTTP/1.1\r\n]

[POST /empty.gif HTTP/1.1\r\n]

[Severity level: Chat]

[Group: Sequence]

Request Method: POST

Request URI: /empty.gif

Request Version: HTTP/1.1

Accept: */*\r\n

Accept-Language: en-US\r\n

Age: 911068f789126eb9\r\n

Content-Type: application/x-www-form-urlencoded\r\n

UA-CPU: AMD64\r\n

Accept-Encoding: gzip, deflate\r\n

0000 00 15 c6 e6 c4 77 00 59 07 b0 63 a4 08 00 45 00w.Y...C...E:

0010 02 08 0f ca 40 00 00 06 0b 01 ac 10 04 cd b9 f3@.....

0020 73 54 c0 61 00 50 99 3a 11 e5 72 b4 9d 48 50 18 sT:a:P:..r..HP.

0030 00 ff 84 18 00 00 39 37 38 61 38 61 39 31 65 3097 8a8a91e0

0040 66 30 38 36 38 39 38 30 38 32 38 34 38 36 39 63 f0868980 8284869c

0050 39 61 38 65 39 36 38 30 38 36 39 35 38 65 38 32 9a8e9680 86958e82

0060 65 30 66 30 38 36 66 35 66 35 66 35 66 35 65 30 e0f086f5 f5f5f5e0

0070 66 32 38 36 65 33 66 37 66 37 66 38 38 61 63 f286e3f7 f7f888ac

0080 61 36 62 37 61 61 62 36 61 61 61 33 62 31 65 39 a6b7aab6 aaa3b1e0

0090 66 37 66 35 39 32 61 63 61 62 61 31 61 61 62 32 f7f592ac aba1aab2

00a0 62 36 65 30 66 37 66 35 66 32 65 30 66 37 66 35 b6e0f7f5 f2e0f7f5

00b0 38 30 61 62 62 31 61 30 62 37 62 35 62 37 61 63 80abb1a0 b705b7ac

00c0 62 36 61 30 65 30 66 37 66 35 65 30 66 32 38 36 b6a0e0f7 f5e0f286

00d0 38 36 65 30 66 36 38 34 65 30 66 30 38 36 39 32 86e0f684 e0f08692

00e0 61 63 61 62 61 31 61 61 62 32 62 36 65 30 66 32 acaba1aa b2b6e0f2

Frame (534 bytes) Reassembled TCP (19973 bytes)

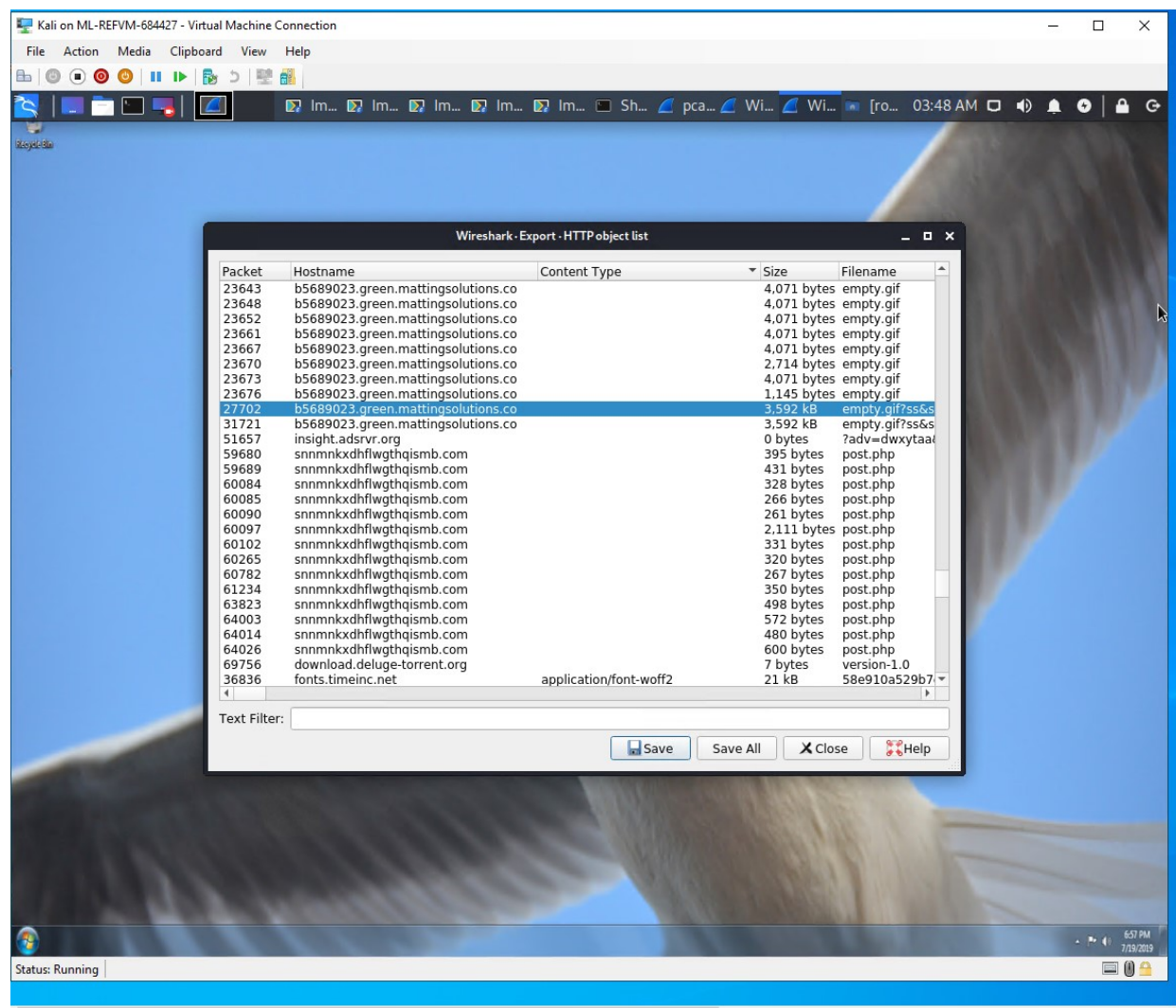
pcap.pcap

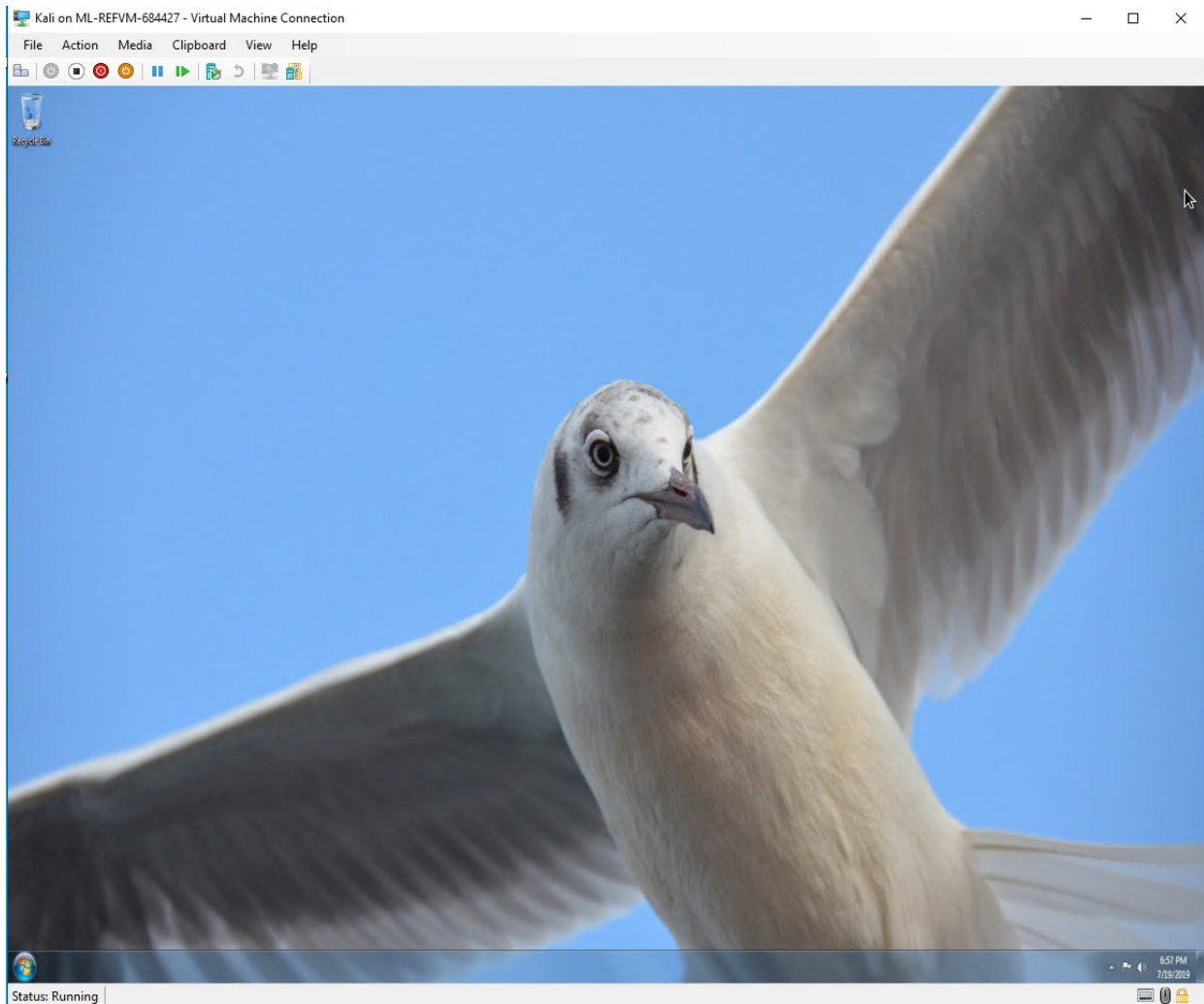
Packets: 104286 · Displayed: 30344 (29.1%) Profile: Default

Status: Running

4. As a bonus, retrieve the desktop background of the Windows host.

Using the Object Export/HTTP, and going through the gif and jpg images, we found the desktop image.





Illegal Downloads

IT was informed that some users are torrenting on the network. The Security team does not forbid the use of torrents for legitimate purposes, such as downloading operating systems. However, they have a strict policy against copyright infringement.

IT shared the following about the torrent activity:

- The machines using torrents live in the range `10.0.0.0/24` and are clients of an AD domain.
- The DC of this domain lives at `10.0.0.2` and is named DogOfTheYear-DC.
- The DC is associated with the domain `dogoftheyear.net`.

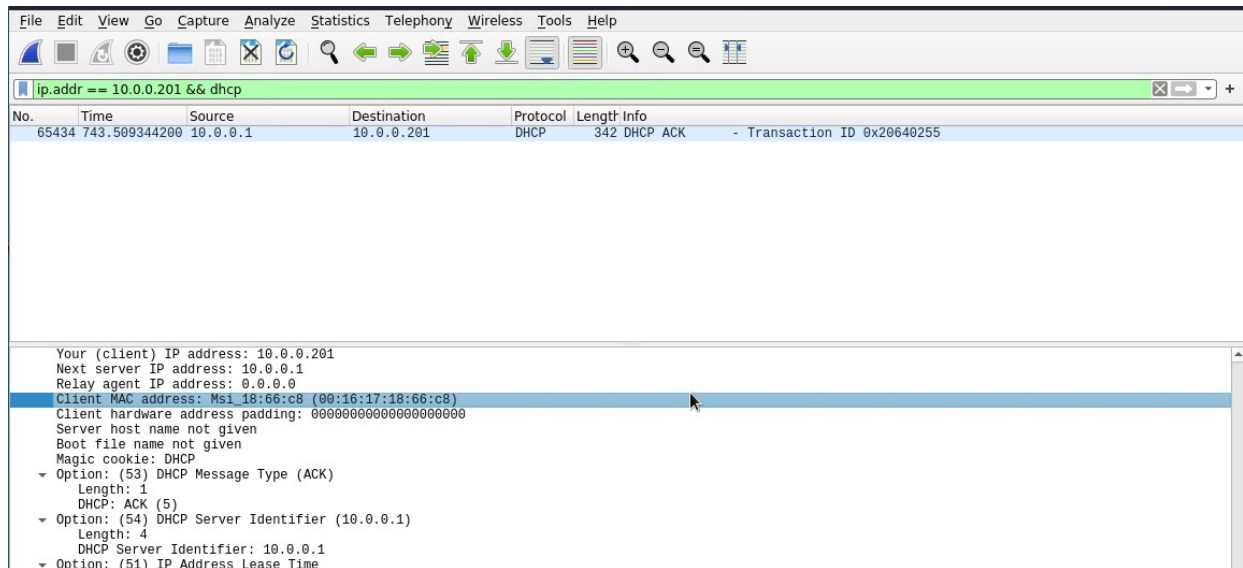
Your task is to isolate torrent traffic and answer the following questions in your Network Report:

1. Find the following information about the machine with IP address `10.0.0.201` :
 - MAC address: `00:16:17:18:66:c8`
 - Windows username: `elmer.blanco`

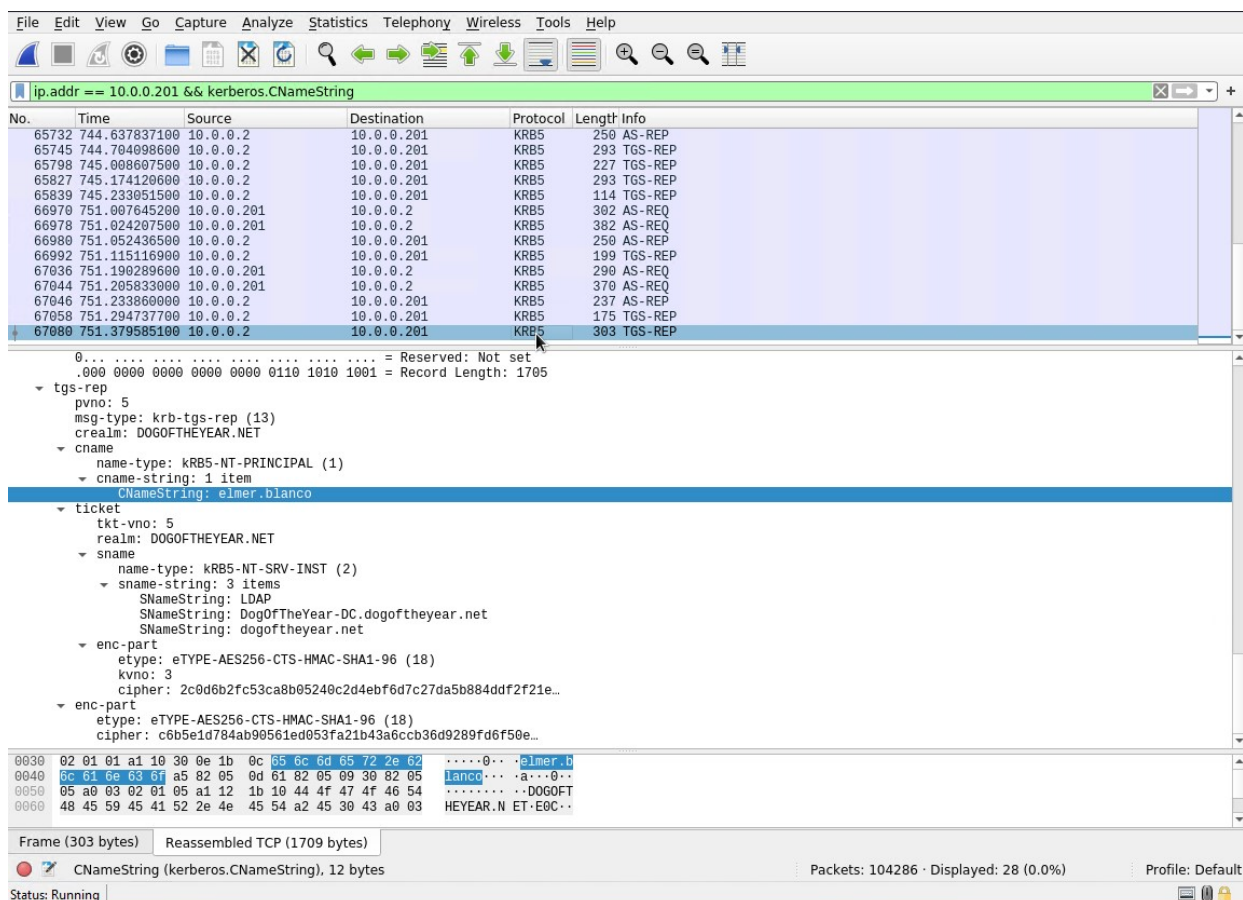
- OS version: Windows NT 10.0

Wireshark Filters

- Wireshark Filter for MAC Address: ip.addr == 10.0.0.201 && dhcp



- WireShark Filter for Username: ip.addr == 10.0.0.201 && kerberos.CNameString



- Wireshark Filter for OS Type and Version: ip.addr == 10.0.0.201 && http.request/method == GET

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 10.0.0.201 && http.request.method == GET

No.	Time	Source	Destination	Protocol	Length	Info
67268	752.331198600	10.0.0.201	168.215.194.14	HTTP	463	GET /nshowcat.html?category=animation HTTP/1.1
67282	752.441022900	10.0.0.201	168.215.194.14	HTTP	474	GET /srsbanner.gif HTTP/1.1
67308	752.676394600	10.0.0.201	168.215.194.14	HTTP	477	GET /grabs/hdsale.png HTTP/1.1
67328	752.881136800	10.0.0.201	168.215.194.14	HTTP	469	GET /ipod.jpg HTTP/1.1
67330	752.889450700	10.0.0.201	168.215.194.14	HTTP	468	GET /pda.jpg HTTP/1.1
67333	752.898843300	10.0.0.201	168.215.194.14	HTTP	479	GET /site2/pdheader.jpg HTTP/1.1
67335	752.907197600	10.0.0.201	168.215.194.14	HTTP	468	GET /psp.gif HTTP/1.1
67337	752.915643000	10.0.0.201	168.215.194.14	HTTP	474	GET /googlevid.jpg HTTP/1.1
67347	752.934398000	10.0.0.201	172.217.9.2	HTTP	445	GET /pagead/js/adsbygoogle.js HTTP/1.1
67361	753.086811900	10.0.0.201	168.215.194.14	HTTP	471	GET /rentme.gif HTTP/1.1
67388	753.425556000	10.0.0.201	50.18.44.131	HTTP	417	GET /tools/diggthis.js HTTP/1.1
67493	754.296424700	10.0.0.201	151.139.242.30	HTTP	427	GET /eminimalis/mm.js HTTP/1.1
67507	754.389413800	10.0.0.201	172.217.9.2	HTTP	467	GET /pagead/js/r20180709/r20180604/show_ads_impl.js HTTP/1.1
67807	756.854476400	10.0.0.201	168.215.194.14	HTTP	336	GET /favicon.ico HTTP/1.1

[Bytes in flight: 425]
[Bytes sent since last PSH flag: 425]

[Timestamps]
[Time since first frame in this TCP stream: 0.452573200 seconds]
[Time since previous frame in this TCP stream: 0.211728900 seconds]

TCP payload (425 bytes)

Hypertext Transfer Protocol

GET /site2/pdheader.jpg HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /site2/pdheader.jpg HTTP/1.1\r\n]
[GET /site2/pdheader.jpg HTTP/1.1\r\n]
[Severity level: Chat]
[Group: Sequence]
Request Method: GET
Request URI: /site2/pdheader.jpg
Request Version: HTTP/1.1
Referer: http://publicdomaintorrents.info/nshowcat.html?category=animation\r\n
Accept: image/png,image/svg+xml,image/*;q=0.8,*/*;q=0.5\r\n
Accept-Language: en-US\r\n
Accept-Encoding: gzip, deflate\r\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.140 Safari/537.36 Edge/17.17134\r\n
Host: publicdomaintorrents.info\r\n
Connection: Keep-Alive\r\n
[Full request URI: http://publicdomaintorrents.info/site2/pdheader.jpg]
[HTTP request 1/1]
[Response in frame: 67430]

0110 61 74 65 0d 0a 55 73 65 72 2d 41 67 65 68 74 3a ate..Use r-Agent:
0120 20 4d 67 73 69 6c 6c 61 2f 35 2e 30 20 28 2f 68 Mozilla/5.0 (Wi
0130 6e 64 6f 77 73 20 4e 54 20 31 30 2e 30 3b 20 57 ndows NT 10.0; W
0140 69 6e 36 34 3b 20 78 36 34 20 20 41 70 70 6c 65 in64; x64) Apple
0150 57 65 62 4b 69 74 2f 35 33 37 2e 33 36 20 28 4b WebKit/5 37.36 (K
0160 48 54 4d 4c 2c 20 6c 69 6b 65 20 47 65 63 6b 6f HTML, li ke Gecko

HTTP User-Agent header (http.user_agent), 143 bytes

Packets: 104286 · Displayed: 46 (0.0%)

Profile: Default

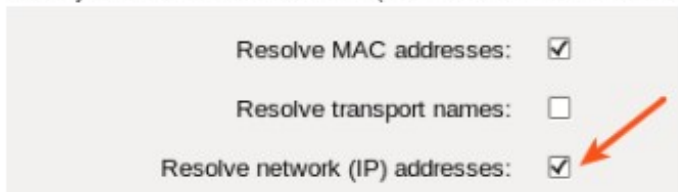
Status: Running

2. Which torrent file did the user download?

- Wireshark Filter for finding Torrent File: ip.addr == 10.0.0.201 && http.request/method == GET

First, set up WireShark to resolve the IP Addresses:

When you enable name resolution (Edit - Preferences - Name Resolution)



Once the files.publicdomaintorrents.com Destination is found, look for the btdownload information, which shows that the file downloaded is

Betty_Boop_Rhythm_on_the_Reservation.avi.torrent

Kali on ML-REFVM-684427 - Virtual Machine Connection

File Action Media Clipboard View Help

Shell No. 1 pcap.pcap Wireshark - Conv... [root - File Manag... 04:21 AM]

pcap.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 10.0.0.201 && http.request.method == GET

No.	Time	Source	Destination	Protocol	Length	Info
69434	768.625230500	BLANCO-DESKTOP.dogoftheyear.net	www.assoc-amazon.com	HTTP	427	GET /s/ads-common.js HTTP/1.1
69470	768.919511100	BLANCO-DESKTOP.dogoftheyear.net	cm-na.assoc-amazon.com	HTTP	885	GET /e/cm?t=publicdomainof-20&o=1&p=4&l=
69542	769.560506300	BLANCO-DESKTOP.dogoftheyear.net	fls-na.amazon-adsystem.com	HTTP	1067	GET /1/associates-ads/1/OP/?cb=153162823
69706	770.368956400	BLANCO-DESKTOP.dogoftheyear.net	files.publicdomaintorrents.com	HTTP	580	GET /bt/btdownload.php?type=torrent&file=
69750	770.563257500	BLANCO-DESKTOP.dogoftheyear.net	ftp.osuosl.org	HTTP	195	GET /version-1.0 HTTP/1.1
69754	770.572697300	BLANCO-DESKTOP.dogoftheyear.net	torrent.ubuntu.com	HTTP	423	GET /announce?info_hash=%e4%be%9eM%b8v%e
69980	771.231145500	BLANCO-DESKTOP.dogoftheyear.net	files.publicdomaintorrents.com	HTTP	434	GET /bt/announce.php?info_hash=%1d%da%0d%a8%0d
70010	771.307842200	BLANCO-DESKTOP.dogoftheyear.net	moonstar.publicdomaintorrents.com	HTTP	434	GET /announce?info_hash=%1d%da%0d%a8%0d
70122	771.590958400	BLANCO-DESKTOP.dogoftheyear.net	files.publicdomaintorrents.com	HTTP	253	GET /bt/scrape.php?info_hash=%1d%da%0d%a8%0d
70144	771.637310900	BLANCO-DESKTOP.dogoftheyear.net	moonstar.publicdomaintorrents.com	HTTP	253	GET /scrape?info_hash=%1d%da%0d%a8%0d
77816	833.561991600	BLANCO-DESKTOP.dogoftheyear.net	cs9.wac.phicdn.net	HTTP	288	GET /MFEwTzBNMEswSTAJBgUrDgMCGGUABBSAUQY
77820	833.569289700	BLANCO-DESKTOP.dogoftheyear.net	cs9.wac.phicdn.net	HTTP	290	GET /MFEwTzBNMEswSTAJBgUrDgMCGGUABBTBL0V
77843	833.798402300	BLANCO-DESKTOP.dogoftheyear.net	cs9.wac.phicdn.net	HTTP	292	GET /MFEwTzBNMEswSTAJBgUrDgMCGGUABBTnvAI

Urgent pointer: 0

- [SEQ/ACK analysis]
 - [RTT: 0.002839700 seconds]
 - [Bytes in flight: 535]
 - [Bytes sent since last PSF flag: 535]
- [Timestamps]
 - [Time since first frame in this TCP stream: 0.012269100 seconds]
 - [Time since previous frame in this TCP stream: 0.009429400 seconds]
- TCP payload (535 bytes)
- Hypertext Transfer Protocol
 - GET /bt/btdownload.php?type=torrent&file=Betty_Boop_Rhythm_on_the_Reservation.avi.torrent HTTP/1.1\r\n
 - [Expert Info (Chat/Sequence): GET /bt/btdownload.php?type=torrent&file=Betty_Boop_Rhythm_on_the_Reservation.avi.torrent HTTP/1.1\r\n]
 - [GET /bt/btdownload.php?type=torrent&file=Betty_Boop_Rhythm_on_the_Reservation.avi.torrent HTTP/1.1\r\n]
 - [Severity level: Chat]
 - [Group: Sequence]
 - Request Method: GET
 - Request URI: /bt/btdownload.php?type=torrent&file=Betty_Boop_Rhythm_on_the_Reservation.avi.torrent
 - Request URI Path: /bt/btdownload.php
 - Request URI Query: type=torrent&file=Betty_Boop_Rhythm_on_the_Reservation.avi.torrent
 - Request URI Query Parameter: type=torrent
 - Request URI Query Parameter: file=Betty_Boop_Rhythm_on_the_Reservation.avi.torrent
 - Request Version: HTTP/1.1
 - Referer: http://publicdomaintorrents.info/nshowmovie.html?movieid=513\r\n
 - User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.140 Safari/537.36 Edge/17.17134\r\n
 - Accept-Language: en-US\r\n
 - Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n

The file can be further researched, and a summary can be found here:

<http://www.publicdomaintorrents.info/grabs/bettybooprythmonthereservationgrab.jp>

g

File Name: Betty_Boop_Rhythm_on_the_Reservation.avi

File Size: 100.50 MB

Resolution: 720x480

Duration: 00:06:02

