# **Network Analysis**

### 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.

You must inspect your traffic capture to answer the following questions:

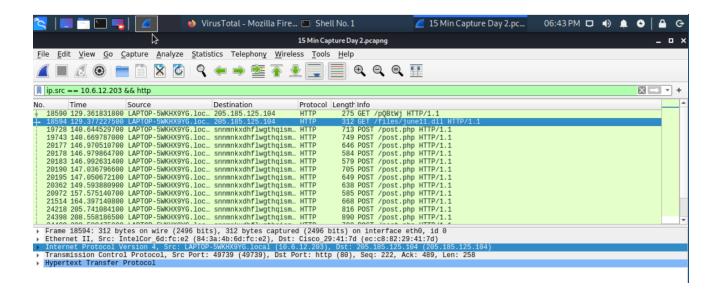
1. What is the domain name of the users' custom site?

Frank-n-Ted-DC.frank-n-ted.com

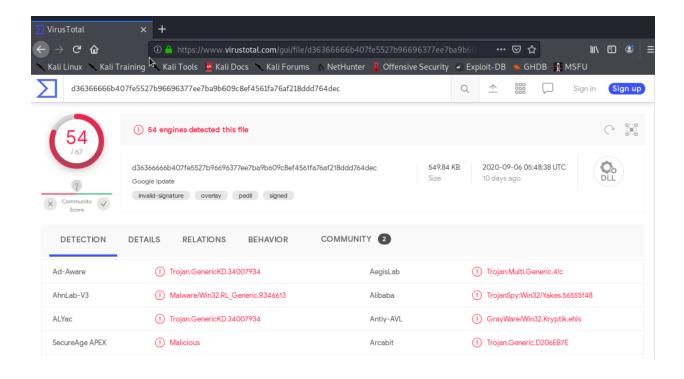
What is the IP address of the Domain Controller (DC) of the AD network?
10.6.12.12

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.

#### june11.dll



4. Upload the file to VirusTotal.com. What kind of malware is this classified as? june11.dll is classified as a malicious trojan horse



### **Vulnerable Windows Machines**

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:

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

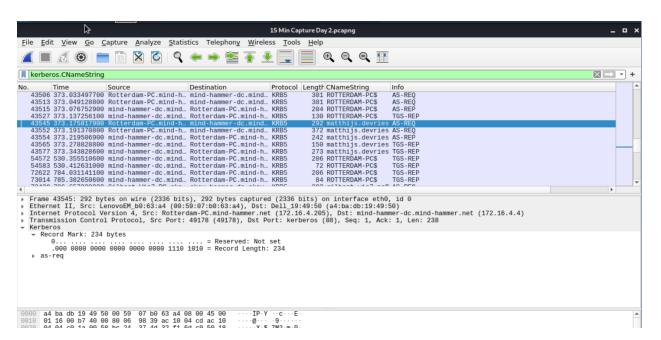
Host name: Rotterdam-PC-mind-hammer.net

o IP address: 172.16.4.205

MAC address: 00:59:07:b0:63:a4

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

The username is matthijs.devries



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

166.62.111.64

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Ethernet · 76	IPv4 · 879 IPv	/6 · 2 TCP ·	1107	UDP · 1814							
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 4
172.16.4.205	185.243.115.84	18,324	16 M	9,753	7,983 k	8,571	8,543 k	518.603450	265.0412	240 k	
166.62.111.64	172.16.4.205	7,864	8,082 k	5,677	7,921 k	2,187	160 k	373.610393	149.9677	422 k	(
10.11.11.200	151.101.50.208	6,540	4,441 k	3,226	224 k	3,314	4,217 k	42.658102	918.5023	1,959	)
192.168.1.90	192.168.1.100	5,860	27 M	3,756	26 M	2,104	568 k	0.653392	967.7679	222 k	(
10.0.0.201	64.187.66.143	4,688	3,493 k	2,148	139 k	2,540	3,354 k	242.400728	129.8125	8,574	
5.101.51.151	10.6.12.203	4,326	4,246 k	3,262	4,177 k	1,064	68 k	140.631323	67.9985	491 k	(
10.0.0.201	23.43.62.169	4,007	4,080 k	1,310	71 k	2,697	4,008 k	304.040368	66.9059	8,605	j
10.11.11.200	104.18.74.113	2,158	1,394 k	1,022	69 k	1,136	1,324 k	86.970854	874.2001	640	)
10.6.12.12	10.6.12.157	1,999	522 k	932	250 k	1,067	271 k	111.797969	855.0862	2,348	}
10.6.12.12	10.6.12.203	1,904	493 k	864	231 k	1,040	262 k	115.086014	854.0142	2,166	i
10.11.11.11	10.11.11.200	1,571	273 k	692	123 k	879	150 k	0.057437	963.3991	1,022	2
10.11.11.217	172.217.6.162	1,394	809 k	682	70 k	712	738 k	1.634808	958.1931	592	2
10.11.11.11	10.11.11.203	1,100	220 k	435	95 k	665	124 k	7.343076	956.1202	802	2
10.0.0.2	10.0.0.201	1,083	266 k	520	133 k	563	132 k	214.259839	89.6854	11 k	(
172.16.4.4	172.16.4.205	947	227 k	457	96 k	490	131 k	372.226267	414.0447	1,862	)

## 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:

- 1. Find the following information about the machine with IP address 10.0.0.201:
  - MAC address: 00:09:b7:27:a1:3e
  - o Windows username: BLANCO-DESKTOP
  - o OS version: Windows NT 10.0
- 2. Which torrent file did the user download?

Betty\_Boop\_Rhythm\_on\_the\_Reservation.avi.torrent

