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.com

```
Create Response File: frank-n-ted.com\Policies\{31B2F3\GetInfo Response GetInfo Response Read Response Create Response File: frank-n-ted.com\Policies\{31B2F3\Geta Response File: frank-n-ted.com\Policies\{31B2F3\Geta Response File: frank-n-ted.com\Policies\\}
```

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



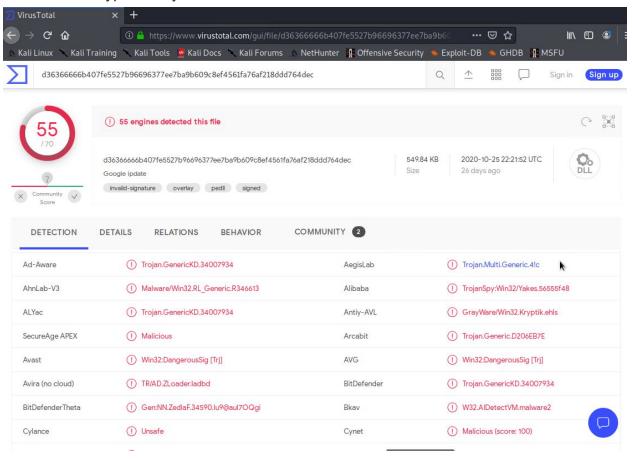
3. What is the name of the malware downloaded to the 10.6.12.203 machine? Once you have found the file, export it to your Kali machine's desktop.

june11.dll

2/912	cardboardspacesniptoys.com	text/ntmi	Z41 Dytes	mvoice-8645
59388	205.185.125.104	application/octet-stream	563 kB	june11.dll
50690	conmokydoflwathaicmh com		305 bytes	post php

4. Upload the file to VirusTotal.com. What kind of malware is this classified as?

Looks to be a type of trojan



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-PCIP address: 172.16.4.205

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

	3270 50.241859400	172.16.4.4	172.16.4.205	KRB5	84 R0TT	ERDAM-PC\$	I
4	0074 FO 040004400	470 40 4 4	470 40 4 000	LDAD	004		L.
F	Frame 3270: 84 byte	s on wire (672 bit	ts), 84 bytes captured	(672 bits)	on interfa	ce eth0, i	d 0
-	Ethernet II, Src: D	ell_19:49:50 (a4:	ba:db:19:49:50), Dst:	LenovoEM_b0:	63:a4 (00:	59:07:b0:63	3:a4
	→ Destination: Lene	ovoEM_b0:63:a4 (00	0:59:07:b0:63:a4)				
	Address: Lenov	voEM_b0:63:a4 (00:	59:07:b0:63:a4)				
		16.Tel : [40] : [10] # 10 : [4.00 (10] # 10] # 10 : [4.00 (10] # 10] #					

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

Matthijs.devries

1 1	3428 50.829698200 3431 50.832324500		172.16.4.205 172.16.4.205	KRB5 TCP	150 matthijs.devries 54
	3432 50.833190100		172.16.4.205	TCP	54
	3434 50.835337300	172.16.4.4	172.16.4.205	TCP	66
1	3438 50.866078800	172.16.4.4	172.16.4.205	TCP	54
1	3439 50.890310500	172.16.4.4	172.16.4.205	TCP	1514
1	3440 50.894686000	172.16.4.4	172.16.4.205	KRB5	273 matthijs.devries

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

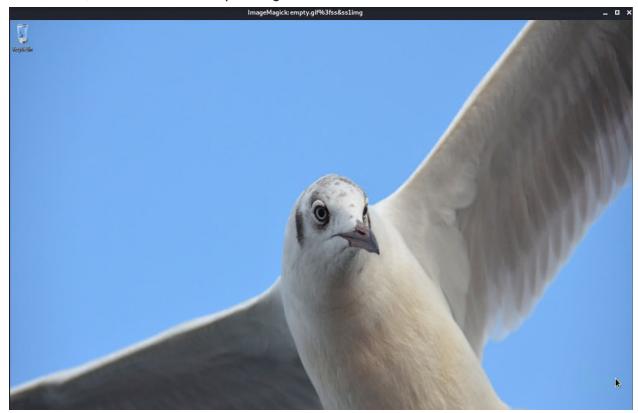
185.243.115.84

172.16.4.205

31.7.62.214

172.16.4.4

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



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.

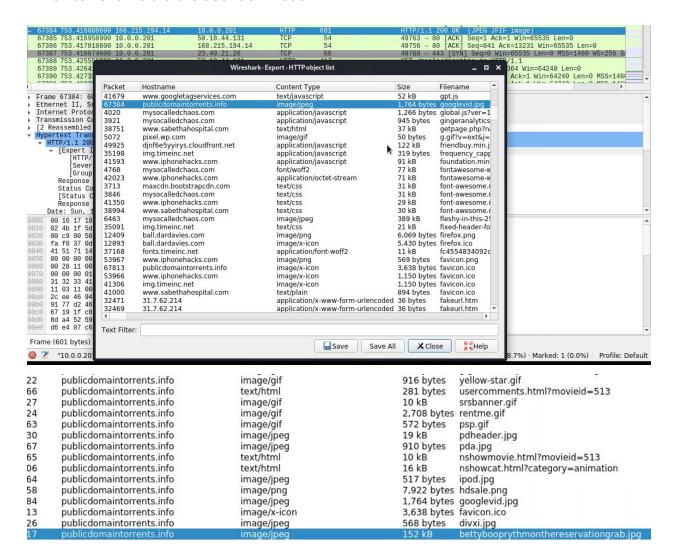
Your task is to isolate torrent traffic and answer the following questions:

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

OS version Windows 10

	05525 /43.822280/00	10.0.0.201	1⊎.⊎.⊍.2	TCP	54
	65526 743.828382900	10.0.0.201	10.0.0.2	KRB5	381 blanco-desktop\$
	65527 743.829437300	10.0.0.201	10.0.0.2	TCP	66
1	65529 743.831356400	10.0.0.201	10.0.0.2	TCP	54
1	65530 743.836192200	10.0.0.201	10.0.0.2	KRB5	301 blanco-desktop\$
	65533 743.865276100	10.0.0.201	10.0.0.2	TCP	54
	65534 743.866140000	10.0.0.201	10.0.0.2	TCP	54
	65538 743.873269900	10.0.0.201	10.0.0.2	TCP	54
	65540 743.875219000	10.0.0.201	10.0.0.2	TCP	66
_	65543 743.877976400	10.0.0.201	10.0.0.2	TCP	54
(CEE 44 740 00440EE00	40 0 0 004	40.0.0	KDDE	000 -1
•	Frame 65526: 381 by	tes on wire	(3048 bits), 381 bytes capt	tured (3048 I	oits) on interface eth@
			(00:16:17:18:66:c8), Dst: [
			00:12:3f:f4:3b:96)		
	- Source: Msi 18:60	5:c8 (00:16:	17:18:66:c8)		

2. Which torrent file did the user download?





btdownload.php%3 ftype=torrent&file =Betty_Boop_Rhyt hm_on_the_Reser vation.avi.torrent