

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

45912	440.088062200	10.6.12.203	10.6.12.12	BROWSER	216 Get Backup List Request
45913	440.091516800	10.6.12.203	10.6.12.255	BROWSER	216 Get Backup List Request
45914	440.094970600	10.6.12.203	10.6.12.12	BROWSER	216 Get Backup List Request
45956	440.253881500	10.6.12.203	10.6.12.255	BROWSER	243 Host Announcement LAPTOP-5WKHX9YG, Workstation, Server, NT Wor...
46257	441.705692700	10.6.12.12	10.6.12.255	BROWSER	243 Host Announcement FRANK-N-TED-DC, Workstation, Server, Domain ...
46428	441.974103800	10.6.12.157	10.6.12.12	SMB	127 Negotiate Protocol Request
46573	442.481242200	10.6.12.203	10.6.12.12	SMB	127 Negotiate Protocol Request
47016	444.258042100	10.6.12.157	10.6.12.255	BROWSER	243 Host Announcement DESKTOP-86J4BX, Workstation, Server, NT Work...
47027	444.282125500	10.6.12.203	10.6.12.255	BROWSER	243 Host Announcement LAPTOP-5WKHX9YG, Workstation, Server, NT Wor...

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

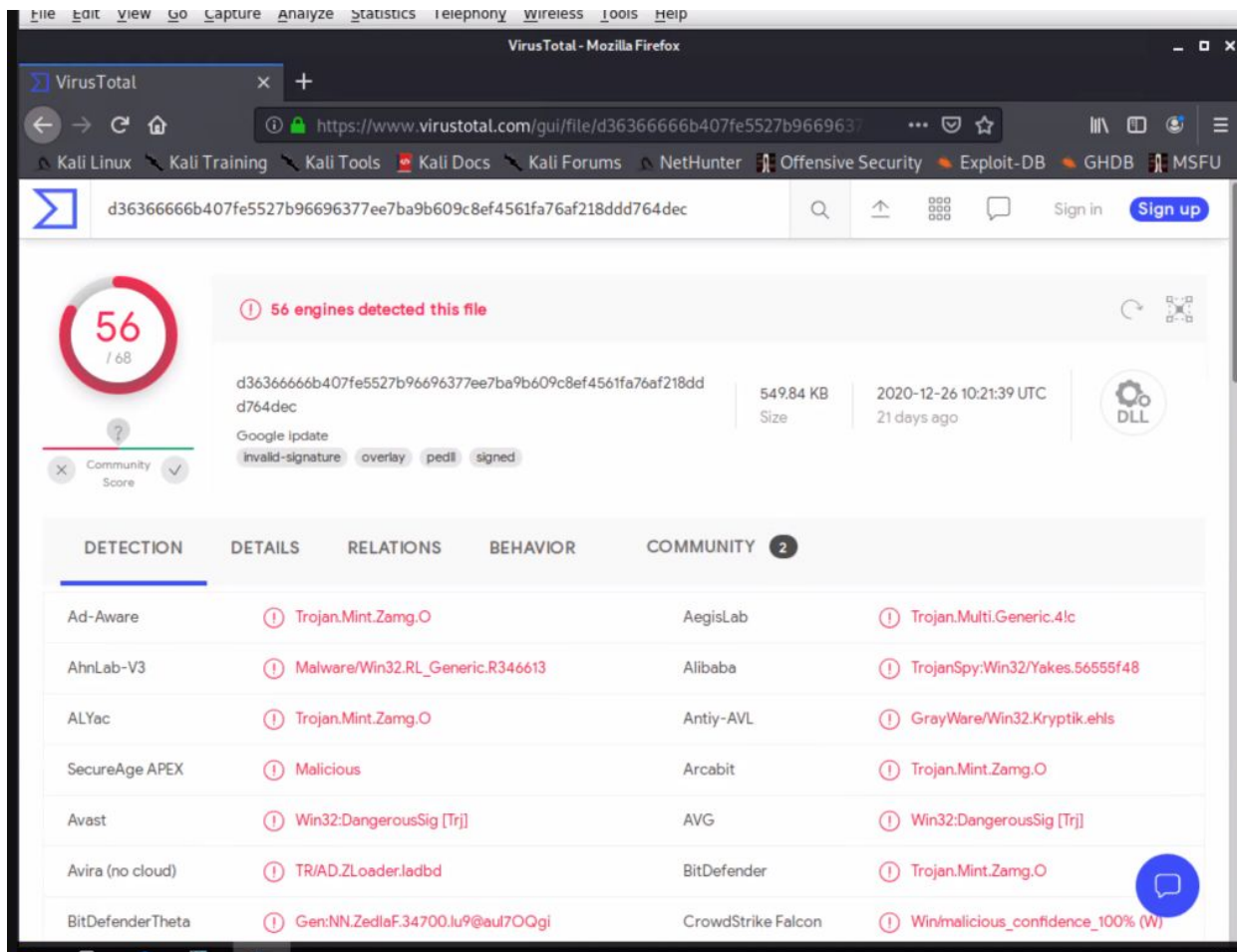
10.6.12.12

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

4. Upload the file to [VirusTotal.com](https://www.virustotal.com). What kind of malware is this classified as?

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-PC**
- IP address: **172.16.4.205**
- MAC address: **00:59:07:b0:63:a4**

```
Relay agent IP address: 0.0.0.0
Client MAC address: LenovoEM_b0:63:a4 (00:59:07:b0:63:a4)
Client hardware address padding: 00000000000000000000
Server host name not given
Boot file name not given
Magic cookie: DHCP
▶ Option: (53) DHCP Message Type (Inform)
▶ Option: (61) Client identifier
▼ Option: (12) Host Name
  Length: 12
  Host Name: Rotterdam-PC
▶ Option: (60) Vendor class identifier
▶ Option: (55) Parameter Request List
▶ Option: (255) End
Padding: 00000000000000000000
```

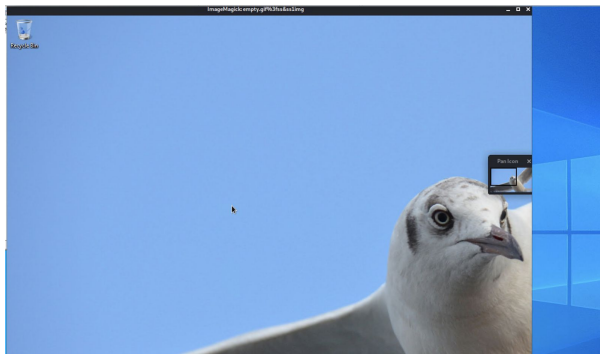
2. What is the username of the Windows user whose computer is infected?

mattijs.dervies

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

185.243.115.84

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: elmer.blanco
 - OS version: BLANCO-DESKTOP
2. Which torrent file did the user download?

Betty_Boop_Rhythm_on_the_Reservation.avi.torrent