Network Analysis

Time Thieves

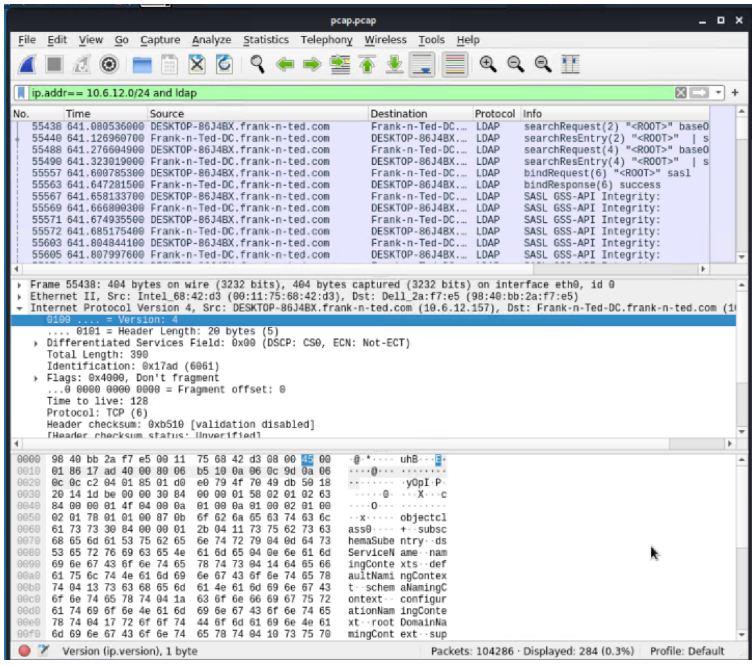
At least two users on the network have been wasting time on YouTube. Usually, IT wouldn't pay much mind to this behavior, but it seems these people have created their own web server on the corporate network. So far, Security knows the following about these time thieves:

- 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

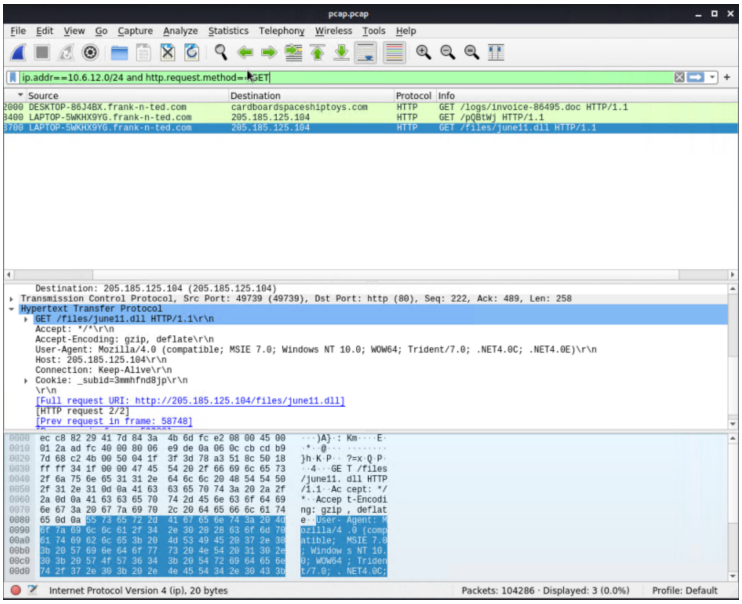


2. What is the IP address of the Domain Controller (DC) of the AD network?

   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. 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:

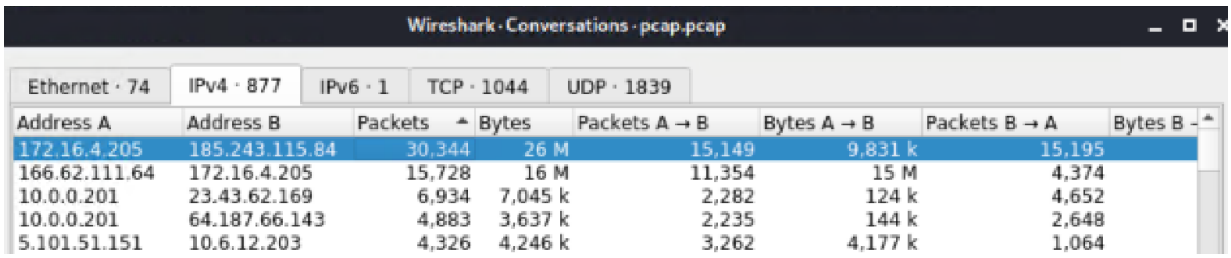
1. Find the following information about the infected Windows machine:
    - **Host name: Rotterdam-PC.mind.hammer.net**
    - **IP address: 172.16.4.205**
    - **MAC address: 00:59:07:b0:63:a4**

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

    matthijs.devries

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

    185.243.115.84, 172.16.4.205



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.

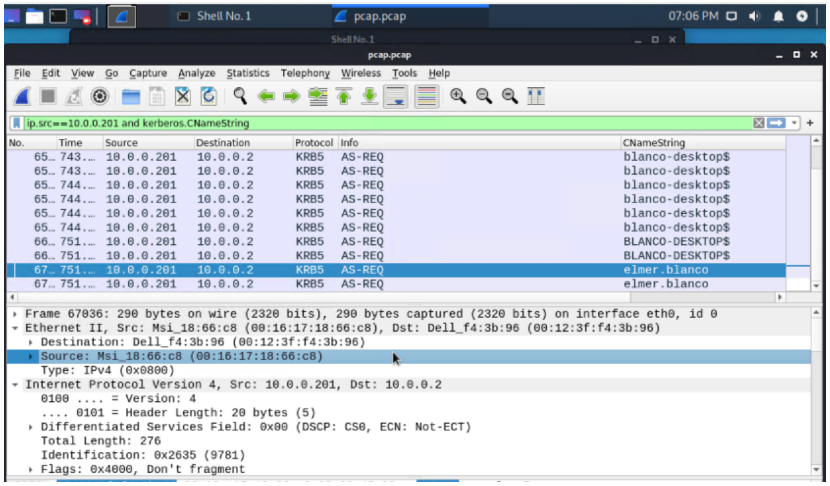
IT shared the following about the torrent activity:

- 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:

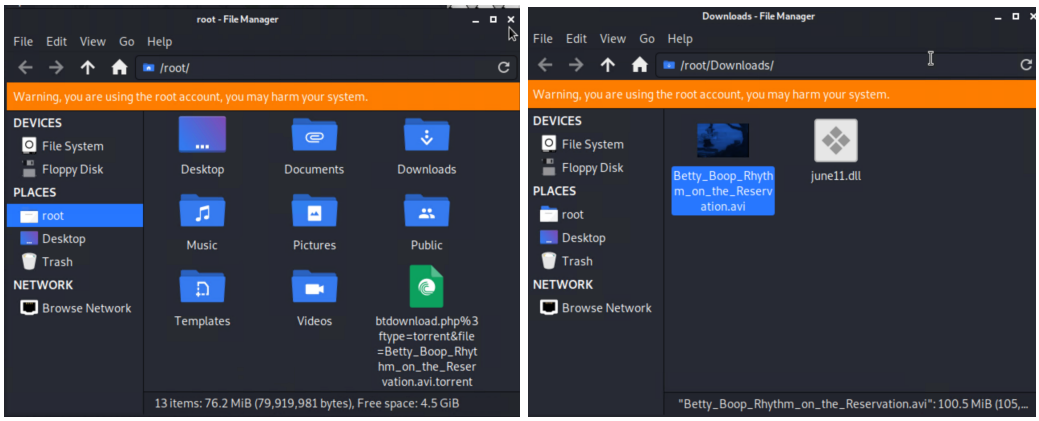
1. Find the following information about the machine with IP address 10.0.0.201:

    - MAC address: **00:16:17:18:66:c8**
    - Windows username: **elmer.blanco**
    - OS version: **Windows NT 10.0; Win64**

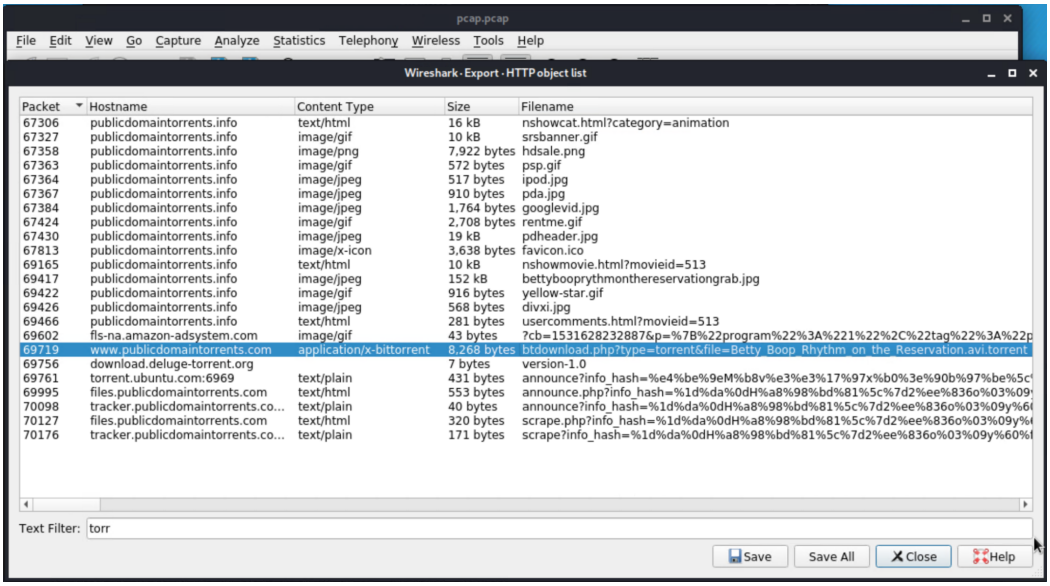


2. Which torrent file did the user download?

    Betty_Boop_Rhythm_on_the_Reservation.avi.torrent




File Actions Edit View Help
Shell No. 1
Shell No. 2
File Edit View Tools Help
Open URL
Filter torrent names...
Lock
Betty_Boop_Rhythm_on_the_Reservation.avi
Media Playback Audio Video Tools Help
Rhythm on the Reservation
00:22
06:02
Speed
(100.5 MiB)
0 B/s (0 B)


pcap.pcap
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
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Packet Hostname Content Type Size Filename
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67424 publicdomaintorrents.info image/gif 2,708 bytes rentme.gif
67430 publicdomaintorrents.info image/jpeg 19 kB pdheader.jpg
67813 publicdomaintorrents.info image/x-icon 3,638 bytes favicon.ico
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69422 publicdomaintorrents.info image/gif 916 bytes yellow-star.gif
69426 publicdomaintorrents.info image/jpeg 568 bytes divxi.jpg
69466 publicdomaintorrents.info text/html 281 bytes usercomments.html?movieid=513
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Text Filter: torr
Save
Save All
Close
Help