Network Analysis

Time Thieves

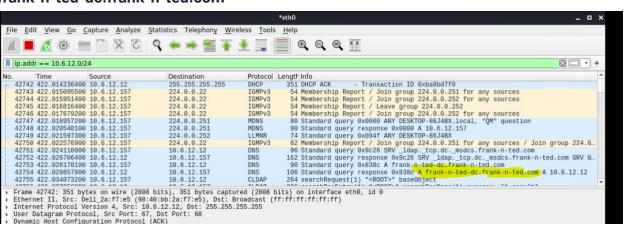
At least two users on the network have been wasting time on YouTube. Usually, IT wouldn't pay much mind to this behavior, but it seems these people have created their own web server on the corporate network. So far, Security knows the following about these time thieves:

- 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:

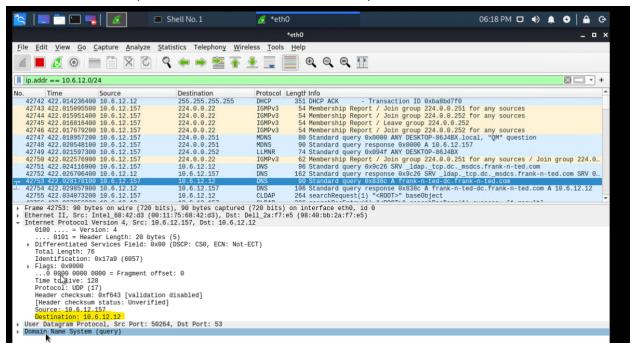
1. What is the domain name of the users' custom site?

frank-n-ted-dc.frank-n-ted.com



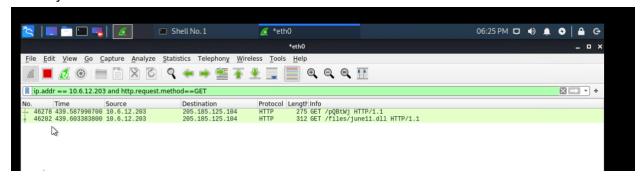
2. What is the IP address of the Domain Controller (DC) of the AD network?

10.6.12.12 (frank-n-ted-dc.frank-n-ted.com)



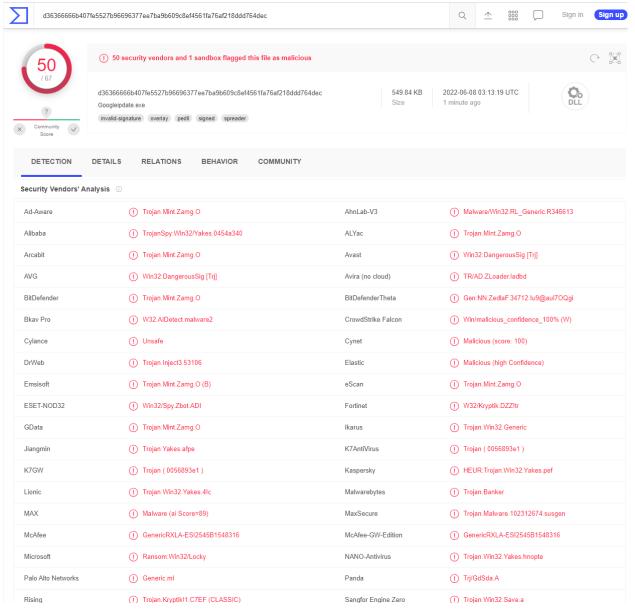
3. What is the name of the malware downloaded to the 10.6.12.203 machine? Once you have found the file, export it to your Kali machine's desktop.

june11.dll



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

June11.dll is a Trojan.



Vulnerable Windows Machines

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

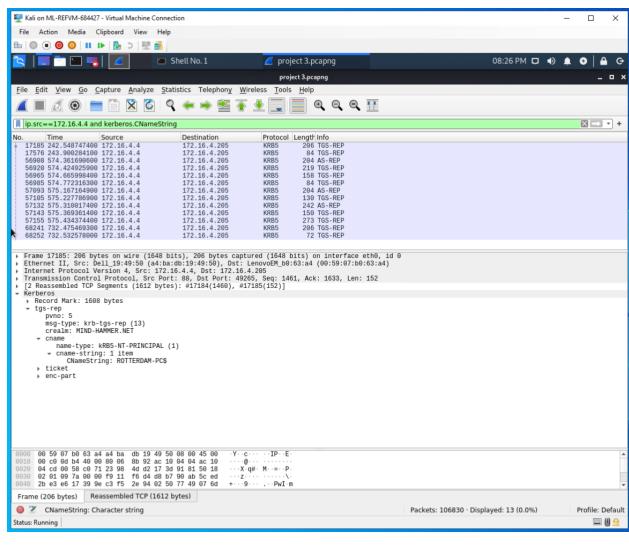
- Machines in the network live in the range 172.16.4.0/24.
- The domain mind-hammer.net is associated with the infected computer.
- The DC for this network lives at 172.16.4.4 and is named Mind-Hammer-DC.
- The network has standard gateway and broadcast addresses.

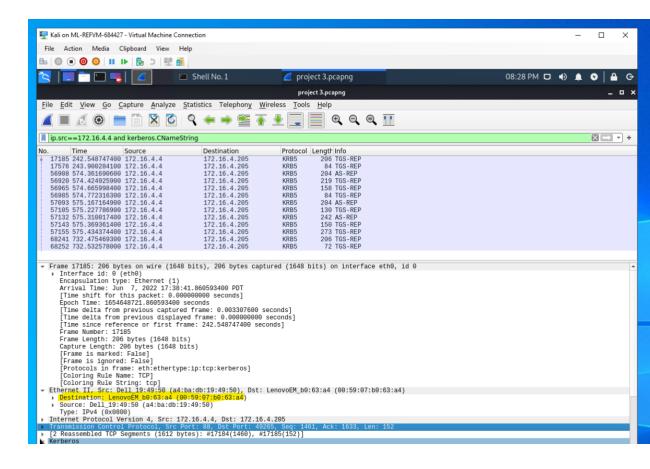
Inspect your traffic to answer the following questions:

- 1. Find the following information about the infected Windows machine:
 - o Host name: ROTTERDAM-PC

o IP address: 172.16.4.4

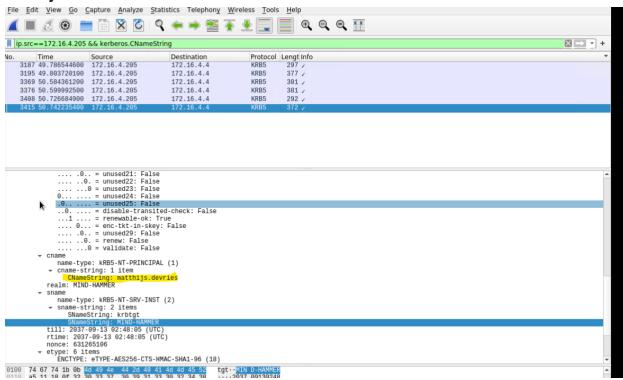
MAC address: 00:59:07:b0:63:a4





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

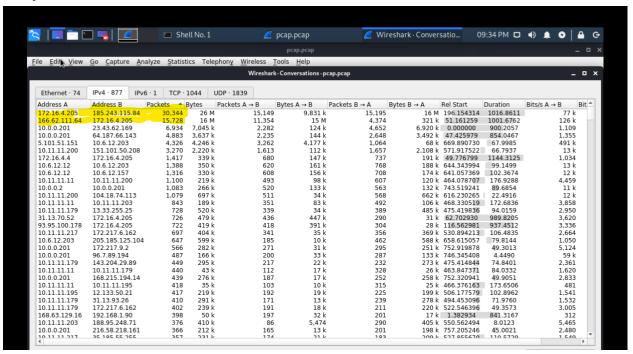
Matthijs.devries



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

The conversation chart show that the IPs: 172.16.4.205, 185.243.115.84, 166.62.111.64 are the infected traffic due to the abnormal high number of packets in

comparison to the rest.



Illegal Downloads

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

a. MAC address: 00:16:17:18:66:c8

b. Windows username: elmer.blanco

c. OS version: BLANCO-DESKTOP

```
Shell No. 1
                                                                                                                                                                           09:54 PM □ •) • • | • •
                                                                                          pcap.pcap
 File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
  🚄 🔳 🖄 🎯 🚞 🖺 🔯 🧭 🭳 👄 🛸 鳘 🛜 👤 📜 🔍 🔍 🔍 🔍
 ip.addr==10.0.0.201 && kerberos.CNameString
                                                                                                                                                                                                           × +
                                                            Destination
10.0.0.201
                                                                                         Protocol Lengt Info
KRB5 250 /
    Time Source
65732 744.637837100 10.0.0.2
    65745 744.704098600 10.0.0.2
65798 745.008607500 10.0.0.2
65827 745.174120600 10.0.0.2
                                                            10.0.0.201
10.0.0.201
                                                                                         KRB5
                                                                                                      293 /
                                                             10.0.0.201
                                                                                         KRB5
                                                                                                      293 /
    65839 745.233051500 10.0.0.2
66970 751.007645200 10.0.0.201
66978 751.024207500 10.0.0.201
                                                             10.0.0.201
                                                                                         KRB5
                                                                                                      114
                                                                                                      302 /
                                                             10.0.0.2
                                                                                         KRB5
    66980 751.052436500 10.0.0.2
66992 751.115116900 10.0.0.2
67036 751.190289600 10.0.0.201
                                                            10.0.0.201
                                                                                                      250 /
199 /
                                                                                         KRB5
  10.0.0.2
                                                                                         KRB5
                                                                                                      290 /
        realm: DOGGFTHEYEAR

* sname

name-type: kR85.NT-SRV-INST (2)

* sname-string: 2 items

SNameString: krbtgt

SNameString: DOGGFTHEYEAR

00 12 2f f4 3b 96 00 16 17 18 66 c8 00 04 5 00

01 64 26 39 40 00 80 06 be 90 0a 00 00 c9 0a 00

00 02 25 10 00 58 73 af 91 c5 c3 46 94 74 50 18

11 60 aR 50 00 00 00 01 38 6a 82 01 34 08 82
                                                                              ...Q.Xs. ...F.}P.
```

2. Which torrent file did the user download?

a. Betty_Boop_Rythm_on_the_Reservation.avi.torrent

