Network Analysis

Time Thieves

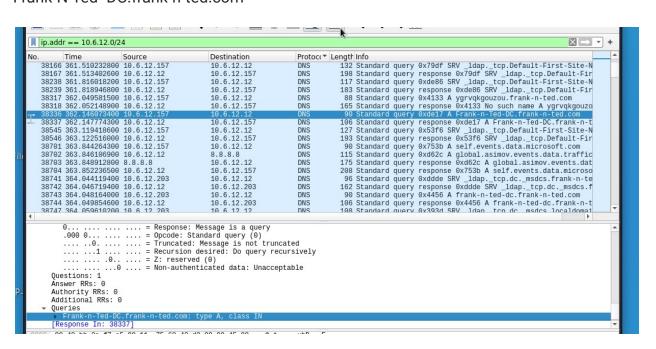
At least two users on the network have been wasting time on YouTube. Usually, IT wouldn't pay much mind to this behavior, but it seems these people have created their own web server on the corporate network. So far, Security knows the following about these time thieves:

- 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

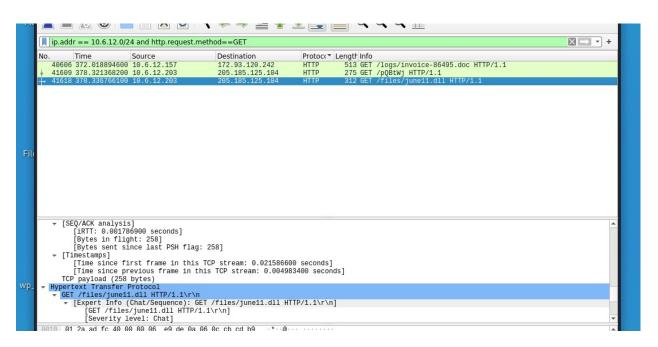


2. What is the IP address of the Domain Controller (DC) of the AD network?

```
38318 362.052148900 10.6.12.12
                                                                                                                                                                                          10.6.12.157
                                                                                                                                                                                                                                                                                       DNS
                                                                                                                                                                                                                                                                                                                                  165 Standard query response 0x4133 No such name A ygrvqkgouzo
90 Standard query 0xde17 A Frank-n-Ied-DC.frank-n-ted.com
106 Standard query 0x5376 SRV ldap.tcp.Default-First-Site-N
193 Standard query 0x5376 SRV ldap.tcp.Default-First-Site-N
193 Standard query 0x7535 A self.events.data.microsoft.com
115 Standard query 0x7535 A self.events.data.microsoft.com
115 Standard query 0x7535 A self.events.data.microsoft.com
115 Standard query 0x602c A global.asimov.events.data.traffic
175 Standard query response 0x662c A global.asimov.events.dat
208 Standard query response 0x753b A self.events.data.microso
96 Standard query 0xddde SRV ldap.tcp.dc.msdcs.frank-n-te
162 Standard query 0x4456 A frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n-ted-dc.frank-n
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  38337 362.147774300 10.6.12.12
38545 363.119418600 10.6.12.157
                                                                                                                                                                                          10.6.12.12
                                                                                                                                                                                                                                                                                        DNS
  38546 363.122516000 10.6.12.12
38701 363.844264300 10.6.12.157
                                                                                                                                                                                         10.6.12.157
10.6.12.12
                                                                                                                                                                                                                                                                                        DNS
  38702 363.846106900 10.6.12.12
                                                                                                                                                                                         8.8.8.8
                                                                                                                                                                                                                                                                                        DNS
 38703 363.848912800 8.8.8.8
38704 363.852236500 10.6.12.12
38741 364.044119400 10.6.12.203
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10.6.12.157
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DNS
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 38742 364.046719400 10.6.12.12
38743 364.048164000 10.6.12.203
38744 364.049854600 10.6.12.12
                                                                                                                                                                                         10.6.12.203
10.6.12.12
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DNS
                                                                                                                                                                                                                                                                                                                                     106 Standard query response 0x4456 A frank-n-ted-dc.frank-n-t
                                                                                                                                                                                         10.6.12.203
 38747 364 059610200 10 6 12 203
             Total Length: 76
          Identification: 0x1856 (6230)
Flags: 0x0000
...0 0000 0000 0000 = Fragment offset: 0
           ...0 0000 0000 0000 = Fragment offset: 0
Tine to live: 128
Protocol: UDP (17)
Header checksum: 0xf596 [validation disabled]
[Header checksum status: Unverified]
Source: 10.6.12.157
User Datagram Protocol,
Source Port: 51327
Destination Port: 53
                                                                                                           Src Port: 51327, Dst Port: 53
                                                                                                                             7E 60 42 42 00 00 4E 00
```

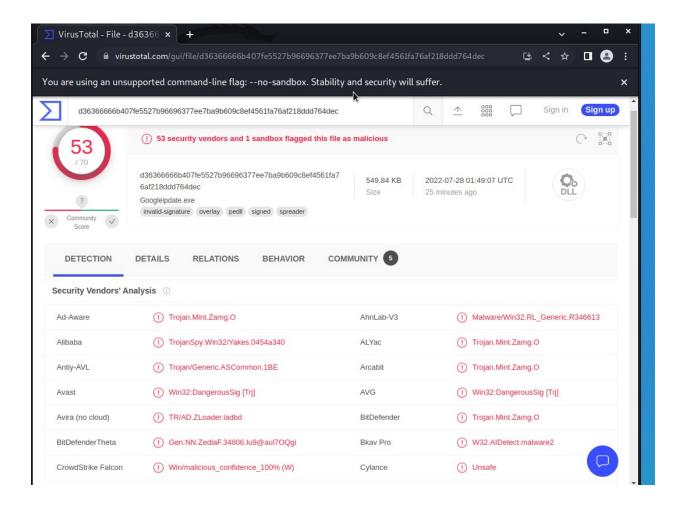
3. What is the name of the malware downloaded to the 10.6.12.203 machine? Once you have found the file, export it to your Kali machine's desktop.

June11.dll is the malware downloaded



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

Trojan.mint.Zamg.O



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:

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

         MUGICOO, 01000_00.07.11 (00.10.00.00.07.11)
         .....0. .... = LG bit: Globally unique address (factory default)
    Source: LenovoEM_b0:63:a4 (00:59:07:b0:63:a4)
         Address: LenovoEM_b0:63:a4 (00:59:07:b0:63:a4)
.....0..... = LG bit: Globally unique address (factory default)
.....0 ..... = IG bit: Individual address (unicast)
       Type: IPv4 (0x0800)

    Internet Protocol Version 4, Src: 172.16.4.205, Dst: 31.7.62.214

       0100 .... = Version: 4
       .... 0101 = Header Length: 20 bytes (5)

    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)

→ Flags: 0x4000, Don't fragment

            0... .... Not set
            .1.. .... = Don't fragment: Set
            ..0. .... = More fragments: Not set
          ...0 0000 0000 0000 = Fragment offset: 0
         Time to live: 128
         Protocol: TCP (6)
         Header checksum: 0x9c24 [validation disabled]
         [Header checksum status: Unverified]
          Source: 172.16.4.205
         Destination: 31.7.62.214
      Transmission Control Protocol, Src Port: 49255, Dst Po
         Source Port: 49255
         Destination Port: 443
         [Stream index: 2]
  125/3 181.5/885/800 1/2.16.4.205
                                            31.7.62.214
                                                                 HIIP
                                                                           282 POST http://
 12575 181.584255800 172.16.4.205
                                           31.7.62.214
                                                                 HTTP
                                                                           282 POST http://

    Hypertext Transfer Protocol

  Figure 1 (Warning/Security): Unencrypted HTTP protocol detected over encrypted por
         Unencrypted HTTP protocol detected over encrypted port, could indicate a dangerous
        [Severity level: Warning]
        [Group: Security]
  POST http://31.7.62.214/fakeurl.htm HTTP/1.1\n
     [Expert Info (Chat/Sequence): POST http://31.7.62.214/fakeurl.htm HTTP/1.1\n]
           [POST http://31.7.62.214/fakeurl.htm HTTP/1.1\n]
           [Severity level: Chat]
           [Group: Sequence]
       Request Method: POST
       Request URI: http://31.7.62.214/fakeurl.htm
       Request Version: HTTP/1.1
     User-Agent: NetSupport Manager/1.3\n
     Content-Type: application/x-www-form-urlencoded\n
   Content-Length:
                        36\n
        [Content length: 36]
     Host: 31.7.62.214\r
     Connection: Keep-Alive\n
```

Host name: Rotterdam-PCIP address: 172.16.4.205

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

Matthijs.devries

```
66313 621.993034500 172.16.4.205
                                          172.16.4.4
                                                               KRB5
                                                                         301 AS-REQ
66320 622.008666900 172.16.4.205
                                         172.16.4.4
                                                               KRB5
                                                                         381 AS-REQ
66359 622.150912200 172.16.4.205
                                                               KRB5
                                          172.16.4.4
                                                                         372 AS-REQ
      [iRTT: 0.001955800 seconds]
[Bytes in flight: 238]
      [Bytes sent since last PSH flag: 238]
▼ [Timestamps]
      [Time since first frame in this TCP stream: 0.006632400 seconds]
      [Time since previous frame in this TCP stream: 0.004676600 seconds]
  TCP payload (238 bytes)
[PDU Size: 238]
Kerberos

    Record Mark: 234 bytes

                              .... .... = Reserved: Not set
     .000 0000 0000 0000 0000 0000 1110 1010 = Record Length: 234
 pvno: 5
     msg-type: krb-as-req (10)

→ padata: 1 item

      PA-DATA PA-PAC-REQUEST
     req-body
        Padding: 0
      kdc-options: 40810010
      - cname
          name-type: kRB5-NT-PRINCIPAL (1)
         realm: MIND-HAMMER
      nome tunes LIDDE NT COV THET (2)
```

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

172.16.4.205, 185.243.115.84, 64.187.66.143

					Wire	shark · C	onversations · 2022	.pcapng				
Ethernet · 74	IPv4 · 879	IPv6	TCP ·	1039	UDP · 1825							
Address A	Address B	Pack	ets 📤	Bytes	Packets A	→ B	Bytes A → B	Packets B → A	Bytes B → A	Rel Start	Duration	Bits/s A → B
172.16.4.205	185.243.115.84		30,470	27	М	16,968	15 M	13,5	12 N	0.000000	1032.6042	12
166.62.111.64	172.16.4.205		7,864	8,082	2 k	5,677	7,921 k	2,1	17 160 k	622.569935	149.9677	42
192.168.1.90	192.168.1.100		5,577	26	M	3,621	25 M	1,9	6 548 k	7.900524	1082.5406	18
10.0.0.201	64.187.66.143		4,688	3,49	3 k	2,148	139 k	2,5	0 3,354 k	491.360257	129.8125	8,
5.101.51.151	10.6.12.203		4,326	4,246	i k	3,262	4,177 k	1,0	68 k	389.590854	67.9986	49
10.0.0.201	23.43.62.169		4,007	4,080) k	1,310			7 4,008 k	552.999906	66.9059	8,6
10.11.11.200	151.101.50.208		3,270	2,220) k	1,613	112 k	1,6	7 2,108 k	291.617646	66.7937	1
10.11.11.11	10.11.11.200		1,729	384	l k	787	172 k	9	212 k	183.778768	905.0566	1,5
172.16.4.4	172.16.4.205		1,428			694	141 k	7.	14 202 k	55.328747	979.9018	1,1
10.11.11.11	10.11.11.203		1,424			616	153 k	. 8		188.030654		1,3
10.6.12.12	10.6.12.203		1,388			620	161 k	7	i8 188 k	364.044119	99.1499	1
10.6.12.12	10.6.12.157		1,316			608			174 k	360.757496	102.3674	1
10.11.11.179	13.33.255.25		1,228	883	l k	570	60 k	6	821 k	195.119959	896.2663	
10.0.0.2	10.0.0.201		1,083			520	133 k	5	i3 132 k	463.219371	89.6854	1
10.11.11.200	104.18.74.113		1,079			511	34 k			335.930395		1
10.11.11.179	143.204.29.89		886			426			i0 547 k	195.114998	888.8778	1 1
10.11.11.11	10.11.11.179		854		l k	215	32 k			183.547497		1

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 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 blanco-desktop\$
 - OS version Window NT 10.0

```
| Second Second
```

		Time	Source	▼ Destination	Protocor	Length Info
No.	48842	463.408626600	10.0.0.201	10.0.0.2	KRB5	301 AS-REQ
CI		463.528511200		10.0.0.2	KRB5	381 AS-REQ
		463.536300300		10.0.0.2	KRB5	301 AS-REQ
		463.584222300		10.0.0.2	KRB5	382 AS-REQ
		463.939583700		10.0.0.2	KRB5	301 AS-REQ
		463.955804200		10.0.0.2	KRB5	381 AS-REQ
		464.273544500		10.0.0.2	KRB5	301 AS-REQ
V 4		464.301619500		10.0.0.2	KRB5	382 AS-REQ
He		470.707773100 470.724303400		10.0.0.2 10.0.0.2	KRB5 KRB5	302 AS-REQ 382 AS-REQ
		470.890429300		10.0.0.2	KRB5	290 AS-REQ
		470.905960300		10.0.0.2	KRB5	370 AS-REQ
8!	30403	470.905900500	10.0.0.201	10.0.0.2	KKDJ	STO AS-ILLY
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Vi						
na						
8(
Vi						
na						
ni 41		۵	- ranaw: Ealea			11.00 E
na			. = renew: False			
ni 41			. = renew: False 9 = validate: False	,		
ni 41		(▼ cname	9 = validate: False			
ni 41		v cname name-type	0 = validate: False e: kRB5-NT-PRINCIPA			
ni 41		cname name-type rame-sti	0 = validate: False e: kRB5-NT-PRINCIP <i>A</i> ring: 1 item	AL (1)		
ni 41			0 = validate: False e: kRB5-NT-PRINCIPA	AL (1)		
na 44 4			9 = validate: False e: kRB5-NT-PRINCIPA ring: 1 item String: blanco-desk	AL (1)		
na 44 4		cname name-type rcname-st CNames realm: DOGO	9 = validate: False e: kRB5-NT-PRINCIPA ring: 1 item String: blanco-desk	NL (1) top\$		
na 44 4		realm: DOGO sname name-type realm: DOGO sname name-type sname-sti	9 = validate: False e: kRB5-NT-PRINCIPA ring: 1 item String: blanco-desk FTHEYEAR.NET e: kRB5-NT-SRV-INST ring: 2 items	NL (1) top\$		
na 44 4		realm: DOGO sname name-type realm: DOGO sname sname-type sname-str	9 = validate: False e: kRB5-NT-PRINCIPA ring: 1 item String: blanco-desk FTHEYEAR.NET e: kRB5-NT-SRV-INST ring: 2 items String: krbtgt	top\$		
na 44 4		realm: DOGO sname name-type realm: DOGO sname name-type sname-str SNames SNames	9 = validate: False e: kRB5-NT-PRINCIPA ring: 1 item String: blanco-desk FTHEYEAR.NET e: kRB5-NT-SRV-INST ring: 2 items String: krbtgt String: DOGOFTHEYEA	top\$ (2) R.NET		
na 44 4		realm: DOGO realm: DOGO realm: Sname name-type sname sname-type sname-str SNames SNames till: 2037-	0 = validate: False e: kRB5-NT-PRINCIPA ring: 1 item String: blanco-desk FTHEYEAR.NET e: kRB5-NT-SRV-INST ring: 2 items String: krbtgt String: DOGOFTHEYEA 09-13 02:48:05 (UTO	top\$ (2) R.NET		
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02441 484.087/183000 10.0.0.201
52528 484.378530900 10.0.0.201
52690 484.835690300 10.0.0.201
52706 484.963408200 10.0.0.201
52714 484.979801700 10.0.0.201
52714 484.998035200 10.0.0.201
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50.63.243.230

168.215.194.14

168.215.194.14

172.217.9.2

50.18.44.131
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276 GET //MEKWRZBFKEWMQTAJBGUTDGWCGGUABBSZCALfbGt26xPKOKX4ZguOUJMOT...
534 GET //Ishowmovie.html?movield=513 HTTP/1.1
471 GET /yellow-star.gif HTTP/1.1
434 GET /yagead/show_ads.js HTTP/1.1
412 GET /tools/diggthis.js HTTP/1.1
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HTTP
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465 GET /divxi.jpg HTTP/1.1
415 GET /s/ads.js HTTP/1.1
531 GET /usercomments.html?movieid=513 HTTP/1.1
531 GET /usercomments.html?movieid=513 HTTP/1.1
885 GET /e/cm?t=publicdomai0f-20&o=1&p=48&l=op1&pvid=40C236A13FDD0B...
1067 GET /1/associates-ads/1/OP/?cb=1531628232887&p=%78%22program%22...
589 GET /bt/btdownload.php?type=torrent&file=Betty_Boop_Rhythm_on_t...
142 M-SEARCH * HTTP/1.1
142 M-SEARCH * HTTP/1.1
145 GET /version=1 0 HTTP/1.1
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52.94.240.125
168.215.194.14
                                                                                                                                                                                                                                                                                                                                                                                                            HTTP
HTTP
HTTP
          52884 485.5538673400 10.0.0.201
52884 486.557946300 10.0.0.201
52977 487.285427000 10.0.0.201
53089 488.325372700 10.0.0.201
52977 487.285427909 19.0.0.201 168.215.194.14 HTTP 531 GET /usercomments.html?"
53989 488.325372709 19.0.0.201 72.21.202.62 HTTP 885 GET /e/cm?t=publicdomaid.
53192 488.619613909 19.0.0.201 72.21.202.62 HTTP 885 GET /e/cm?t=publicdomaid.
53198 489.260633600 19.0.0.201 52.94.233.131 HTTP 1067 GET /l/associates-ads/1/
53372 499.067092000 19.0.0.201 168.215.194.14 HTTP 589 GET /bt/btdownload.php?t
53396 490.227745100 10.0.0.201 239.255.255.250 SSDP 142 M-SEARCH * HTTP/1.1
53397 490.330015700 10.0.0.201 239.255.255.250 SSDP 142 M-SEARCH * HTTP/1.1
53398 490.332228600 10.0.0.201 239.255.255.250 SSDP 142 M-SEARCH * HTTP/1.1
53398 490.3202298600 10.0.0.201 239.255.255.250 SSDP 142 M-SEARCH * HTTP/1.1
53398 490.783290000 10.0.0.201 239.255.255.250 SSDP 142 M-SEARCH * HTTP/1.1
53398 490.783290000 10.0.0.201 239.255.255.250 SSDP 142 M-SEARCH * HTTP/1.1
FET /grabs/bettyboopythmonthereservationgrab.jpg HTTP/1.1\r\n

[EET /grabs/bettyboopythmonthereservationgrab.jpg HTTP/1.1\r\n]

[Set /grabs/bettyboopythmonthereservationgrab.jpg HTTP/1.1\r\n]

[Get /grabs/bettyboopythmonthereservationgrab.jpg HTTP/1.1\r\n]

[Referer: Hetp://publicdomaintorrents.info/nshowmovie.html?movieid=513\r\n
Accept-language: en-US\r\n
Accept-language: en-US\r\n
Accept-language: en-US\r\n
Accept-lencding: gzip, deflate\r\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chro
                                                                                                                                                                                                                                                                         52.94.240.125
                                                                                                                                                                                                                                                                                                                                                                                                            HTTP
                                                               nublicdomaintorrents info\r\n
                          Connection: Keep-Alive\r\n
```

2. Which torrent file did the user download?

Betty boop rhythm on the reservation.avi

```
52977 487.285427000 10.0.0.201
53089 488.325372700 10.0.0.201
53125 488.619613900 10.0.0.201
                                                       168.215.194.14
52.94.240.125
72.21.202.62
                                                                                                 531 GET /usercomments.html?movieid=513 HTTP/1.1
427 GET /s/ads-common.js HTTP/1.1
885 GET /e/cm?t=publicdomai0f-20&o=1&p=48&l=op1&pvid=40C236A13FDD0B.
                                                                                   HTTP
53198 489,260633600 10,0,0,201
                                                       52.94.233.131
                                                                                   HTTP
                                                                                                1067 GET /1/associates-ads/1/OP/?cb=1531628232887&p=%7B%22program%22.
                                                                                                142 M-SEARCH * HTTP/1.1
142 M-SEARCH * HTTP/1.1
142 M-SEARCH * HTTP/1.1
142 M-SEARCH * HTTP/1.1
53397 490.230015700 10.0.0.201
                                                       239.255.255.250
                                                                                   SSDP
53398 490.232298600 10.0.0.201
53416 490 263390000 10.0.201
                                                       239.255.255.250
                                                                                   SSDP
   Upgrade-Insecure-Requests: 1\r\n
   Accept-Encoding: gzip, deflate\r\n
Host: www.publicdomaintorrents.com\r\n
Connection: Keep-Alive\r\n
    [Full request URI: http://www.publicdomaintorrents.com/bt/btdownload.php?type=torrent&file=Betty_Boop_Rhythm_on_the_Reservation.avi.torrent]
[HTTP request 1/1]
[Response in frame: 53385]
```