

Final Engagement

Attack, Defense & Analysis of a Vulnerable Network

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Network Topology & Critical Vulnerabilities



Traffic Profile



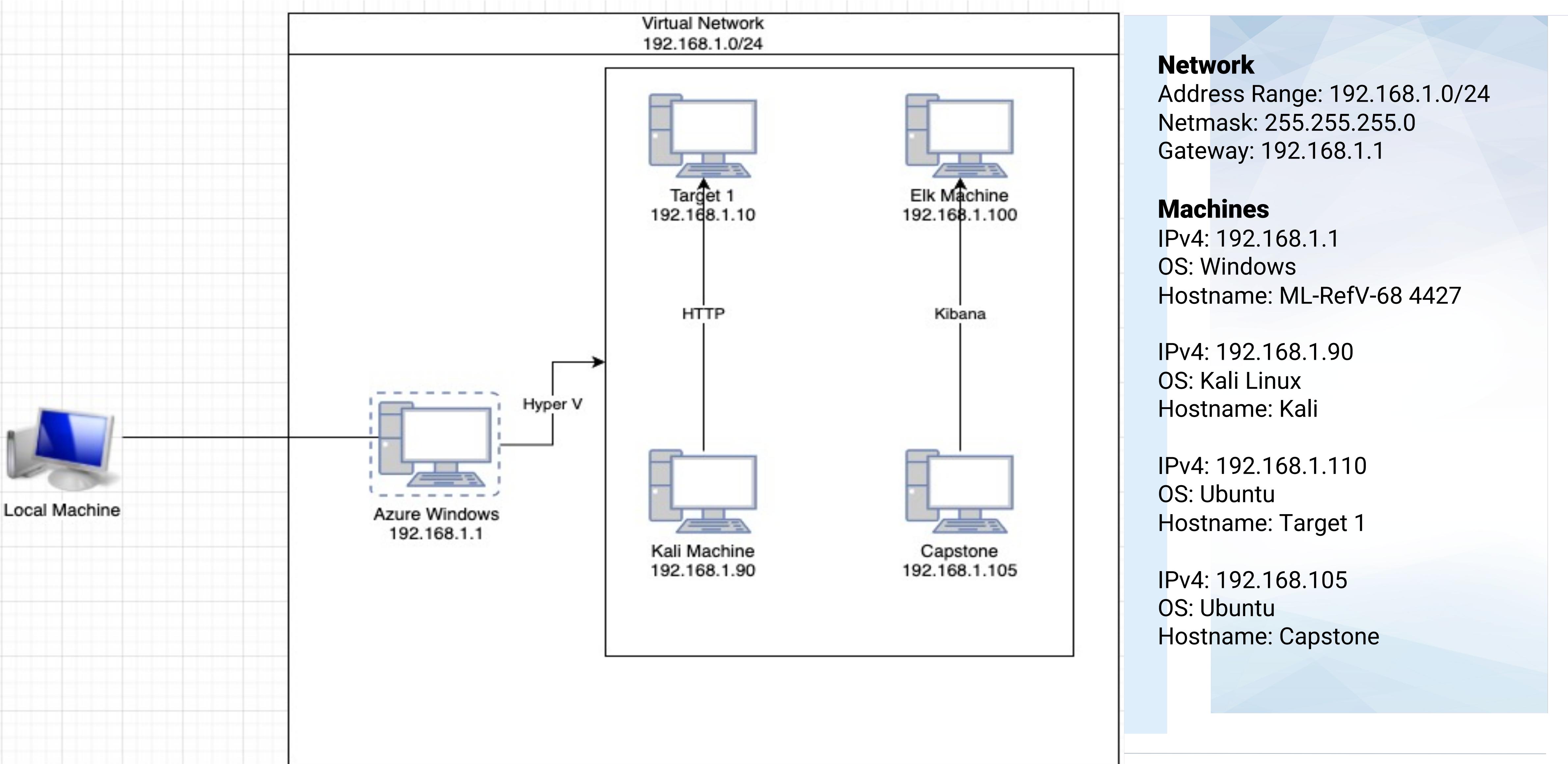
Normal Activity



Malicious Activity

Network Topology & Critical Vulnerabilities

Network Topology



Traffic Profile

Traffic Profile

Our analysis identified the following characteristics of the traffic on the network:

Feature	Value	Description
<i>Top Talkers (IP Addresses)</i>	172.16.4.205	<i>Machines that sent the most traffic.</i>
<i>Most Common Protocols</i>	HTTP, TCP, UDP	<i>Three most common protocols on the network.</i>
<i># of Unique IP Addresses</i>	122,537	<i>Count of observed IP addresses.</i>
<i>Subnets</i>	172.16.4.0/24	<i>Observed subnet ranges.</i>
<i># of Malware Species</i>	Trojan (june11.dll)	<i>Number of malware binaries identified in traffic.</i>

Behavioral Analysis

Purpose of Traffic on the Network

Users were observed engaging in the following kinds of activity.

“Normal” Activity

- *Watching Youtube*
- *Downloading torrents for legit reasons such as operating systems*

Suspicious Activity

- *Created own web server (frank - n ted.com)*
- *Downloading malware (june11.dll)*
- *Downloading torrents*

Normal Activity

[Name of Normal Behavior 1]

Summarize the following:

- *What kind of traffic did you observe? HTTP Traffic*
- *What, specifically, was the user doing? Watching YouTube*

Downloading Torrents for Legitimate Purposes

Summarize the following:

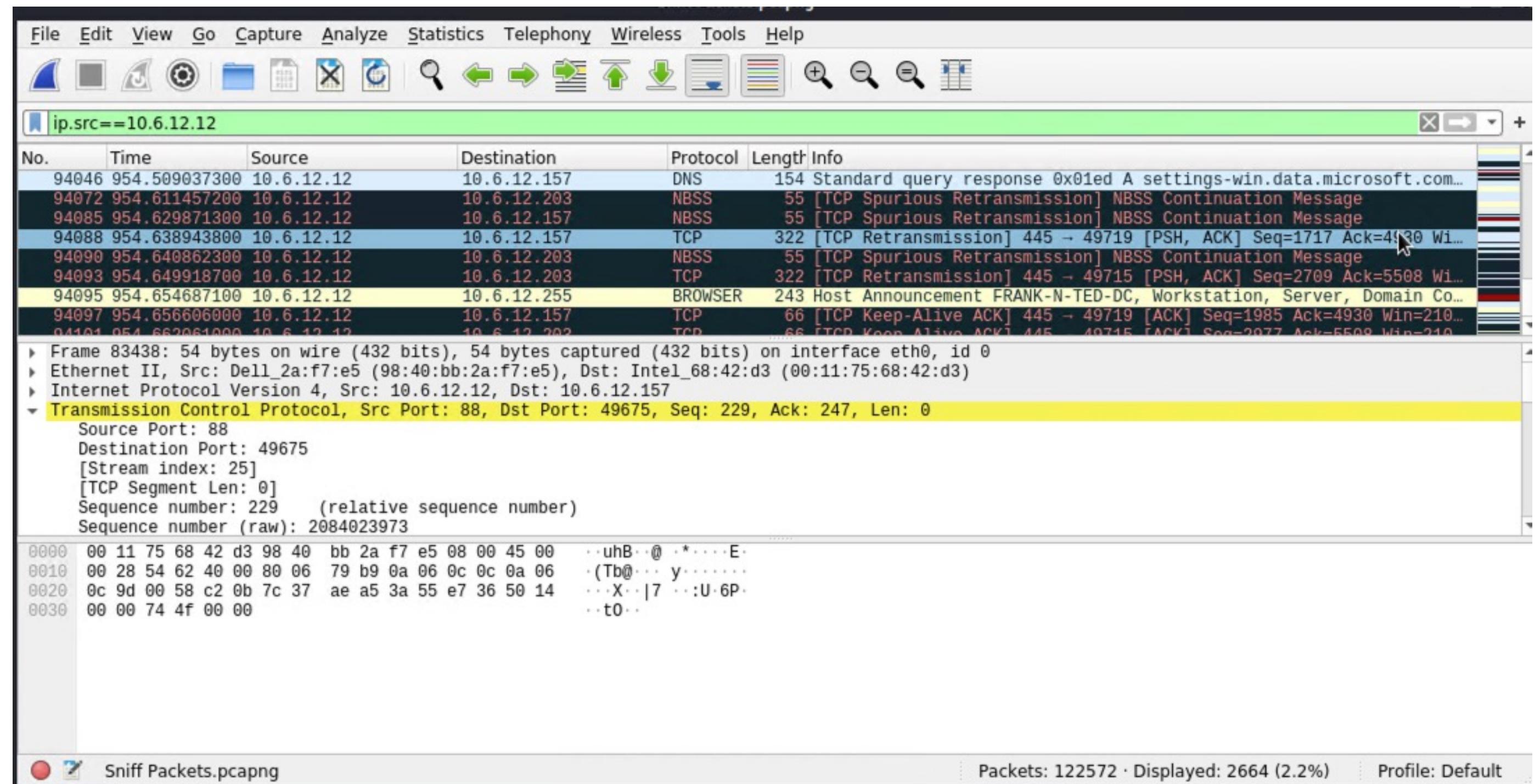
- *What kind of traffic did you observe? HTTP Traffic*
- *What, specifically, was the user doing? Downloading torrents for legit purposes*

Malicious Activity

Watching YouTube on their Own Webserver

Summarize the following:

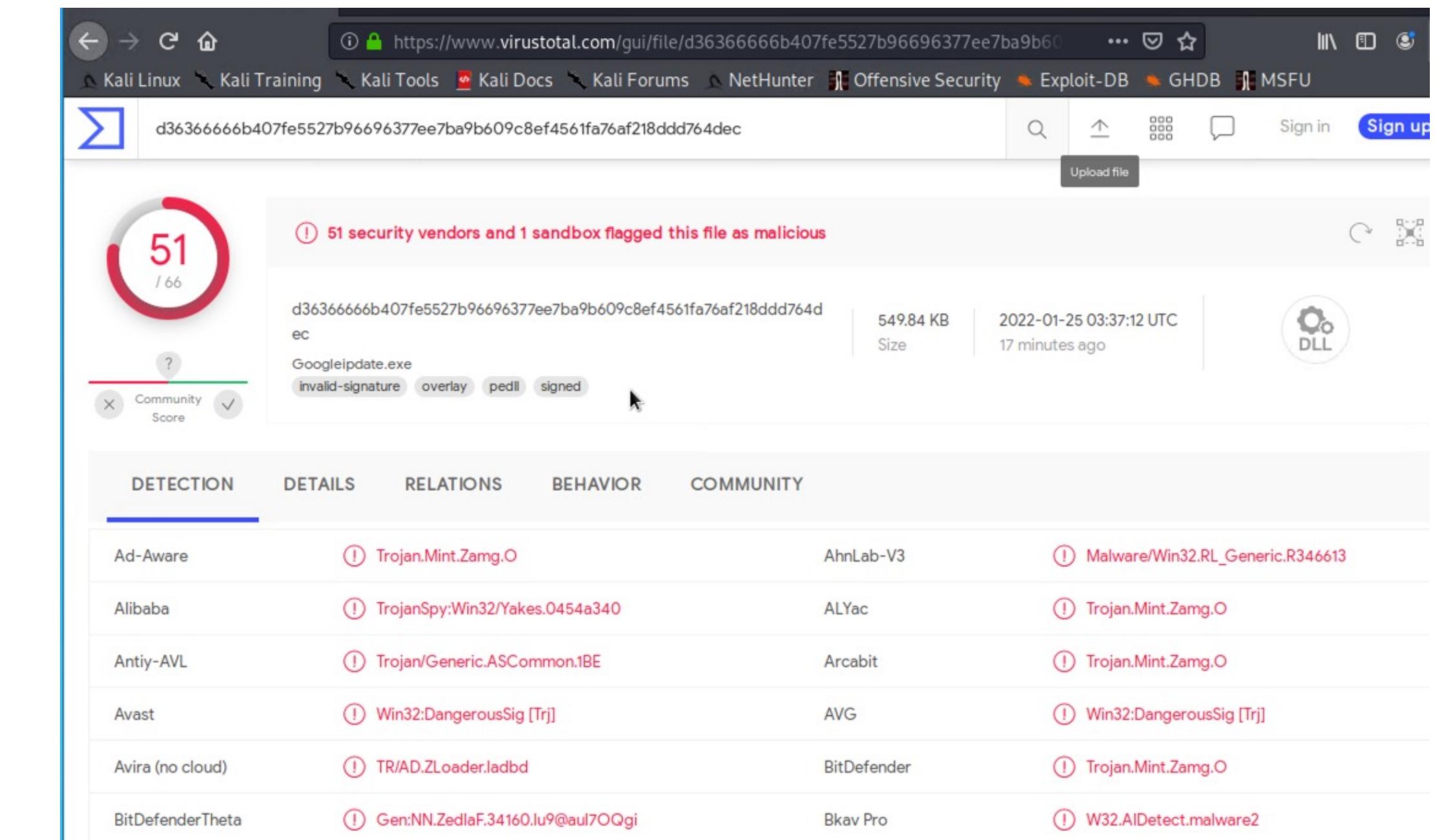
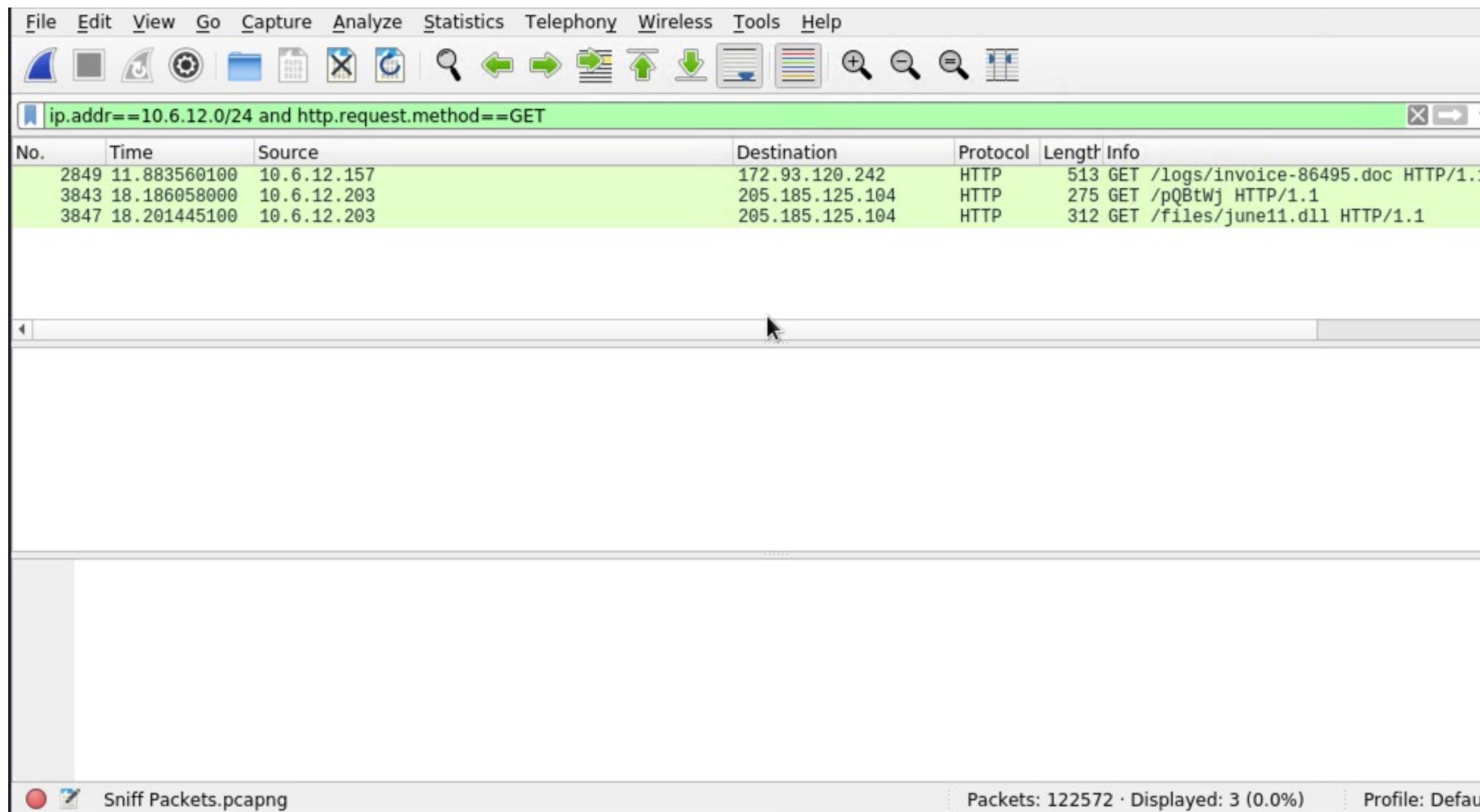
- What kind of traffic did you observe? Which protocol(s)? HTTP
- What, specifically, was the user doing? Created their own webserver on the corporate network



Downloading Malware

Summarize the following:

- *What kind of traffic did you observe? Which protocol(s)? HTTP Traffic*
- *What, specifically, was the user doing? Which site were they browsing? They were downloading malware specifically a trojan june11.dll. Seems like they were just browsing the internet*
- *Include a description of any interesting files. See june11.dll*



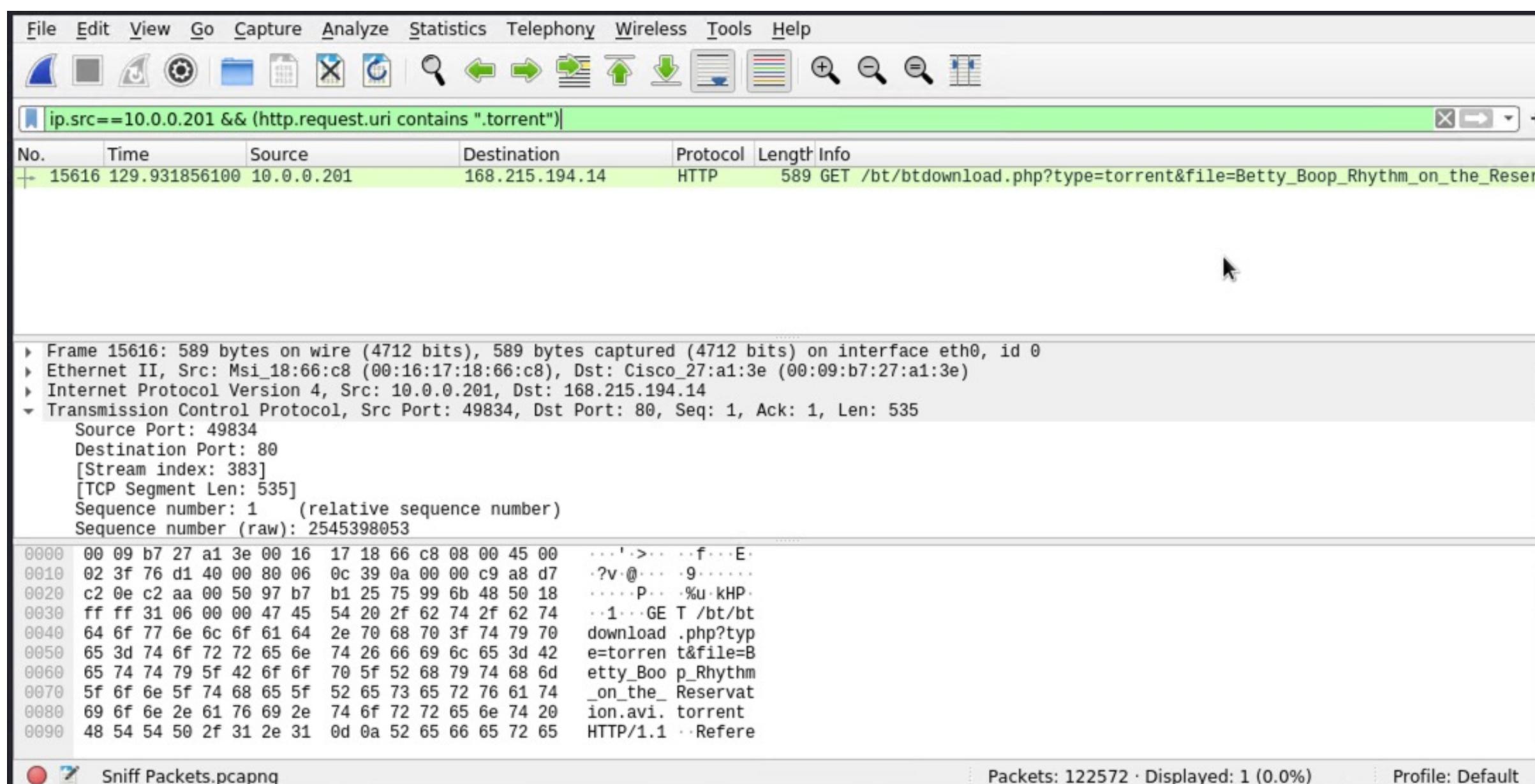
Illegal Downloads on Windows Machine

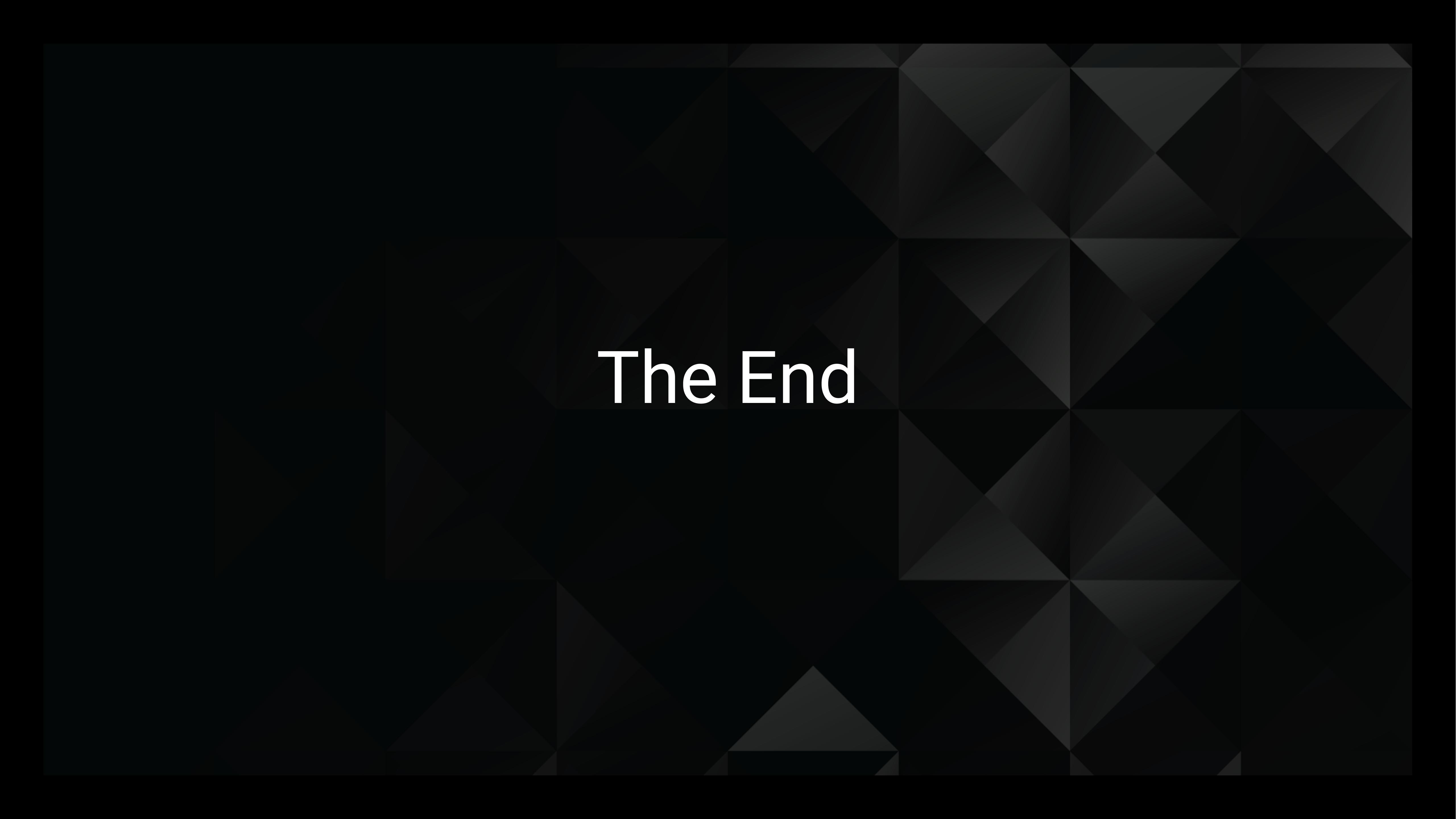
Summarize the following:

- What kind of traffic did you observe? Which protocol(s)? HTTP

What, specifically, was the user doing?

- Created their own AD domain that is named DogOfTheYear-DC
- Were downloading torrents for copyright infringement.
- Downloaded torrent file Betty_Boop_Rhythm_on_the_Reservation.avi.torrent





The End