2015-02-08 - TRAFFIC ANALYSIS EXERCISE

SCENARIO

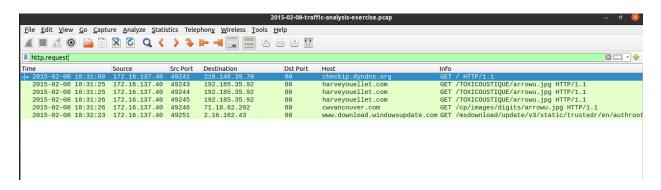
Mike calls the Help Desk and says his desktop computer is "acting weird" but he refuses to provide any details. The Help Desk reports it to your organization's Security Operations Center (SOC). A phone call to Mike doesn't reveal any details. He insists his computer is "acting weird" but will not say what, exactly, is wrong.

One of the SOC analysts searched through network traffic and retrieved a pcap related to this activity. This traffic occurred shortly before Mike called the Help Desk. The analyst cannot figure out what happened, so you've been asked to take a look.

You review the pcap and take notes. First, you document the following:

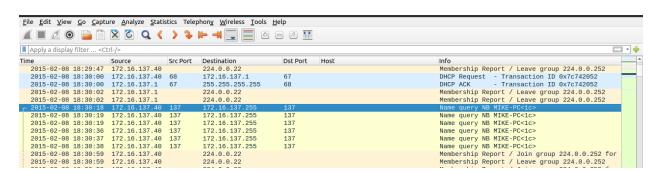
Date and time of the activity

2015-2-08 at 18:31 UTC



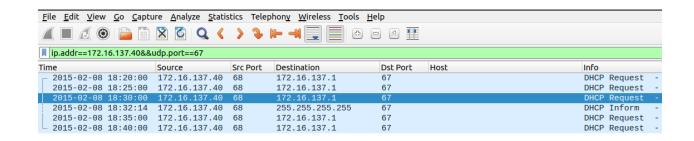
IP address of Mike desktop computer

172.16.137.40



Host name of Mike's desktop computer

Mike-PC



```
Next server IP address: 0.0.0.0
Relay agent IP address: 0.0.0.0
Client MAC address: Dec_ef:ab:7c (08:00:2b:ef:ab:7c)
Server host name not given
Boot file name not given
Magic cookie: DHCP
Option: (53) DHCP Message Type (Request)
Option: (61) Client identifier
Option: (12) Host Name
  Length: 7
  Host Name: Mike-PC
Option: (81) Client Fully Qualified Domain Name
Option: (60) Vendor class identifier
Option: (55) Parameter Request List
Option: (255) End
Padding: 0000
```

MAC address of Mike's desktop computer

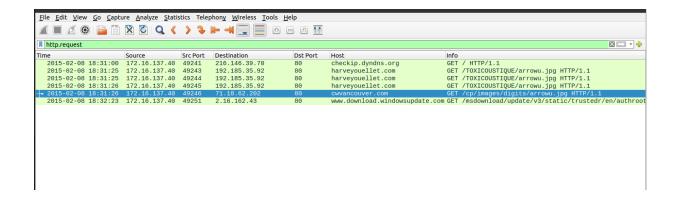
08:00:26:ef:ab:7c

FIRST DECISION POINT

Based on your analysis of the traffic, you call Mike and tell him what you think has happened. Mike confirms your assessment, and he's somewhat embarrassed by his actions. The SOC follows established procedures to handle the incident, and you draft a report. Case closed! You're back on the hunt, reviewing more IDS events for the rest of your 12-hour shift. (Only 11 hours left!)

Looking at the HTTP requests I have got 4 URL's, however, two of them are suspicious

- 1) harveyouellet.com
- 2) cwvancouver.com



A quick google search gave me a trend micro blog with similar domain names. Uploaded the pcap file to packet total to check for any additional IOC's and found the following:



Packet total says a network trojan detected with Dyre SSL cert. A quick search on Dyre SSL cert gave about Dyreza a banking malware which is downloaded to the End point by Upatre downloader trojan.

Summary:

Mike's computer is infected with Dyre or Dyreza Banking malware. This was distributed by Upatre trojan via email with an attachment. Mike opened the attachment and infected his computer.