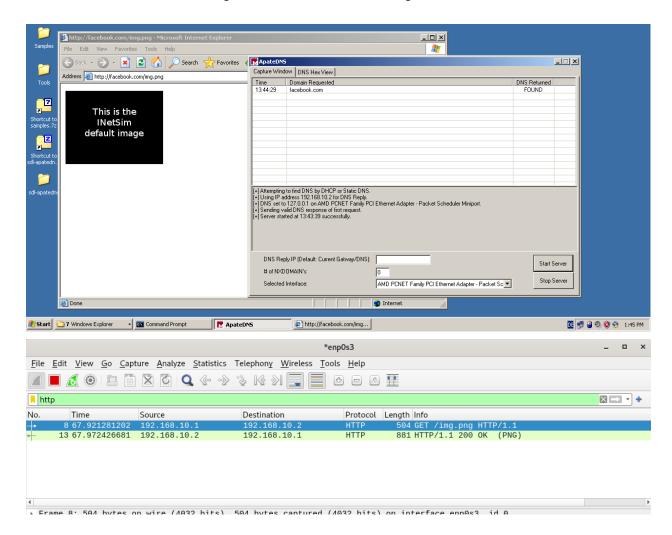
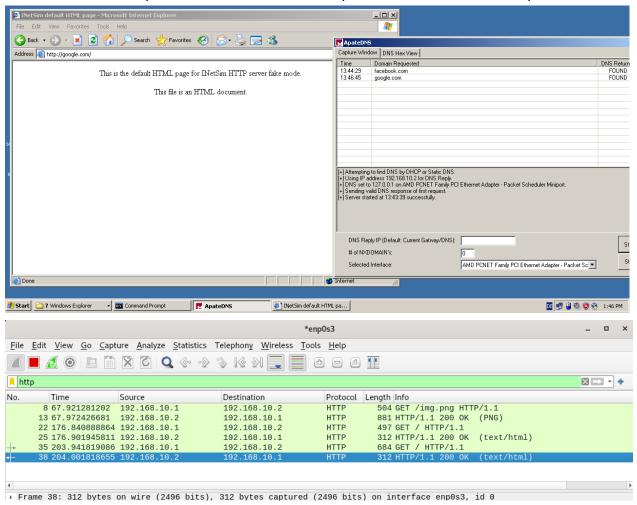
# Part-1: Using ApateDNS

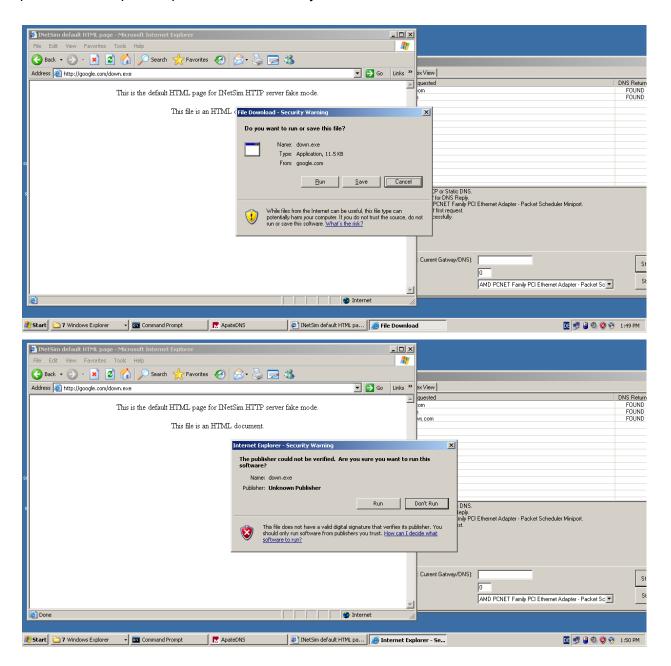
1. Given that a private connection is established, the HTTP request is directed to the Remnux VM and the response is generated from the same server. The requested image is from facebook, but the returned image is the default inetsim image.

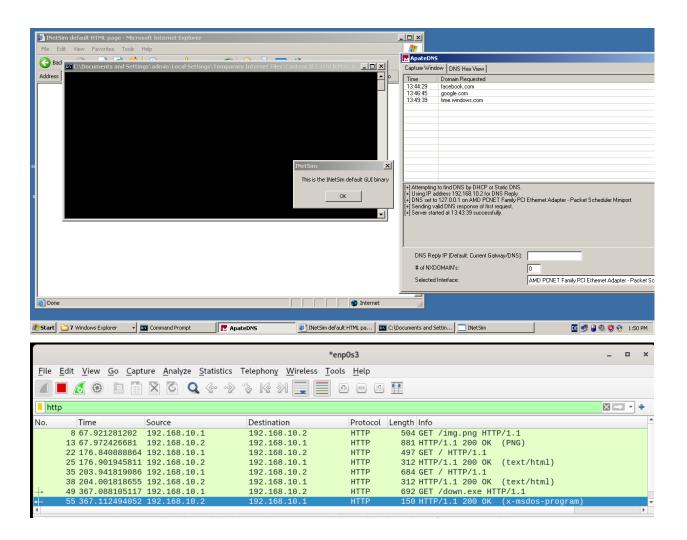


2. When I initiate a HTTP request to a web page, it's captured by the server, which presently is the Remnux VM. The packets that Wireshark has captured can been seen in the pictures below.

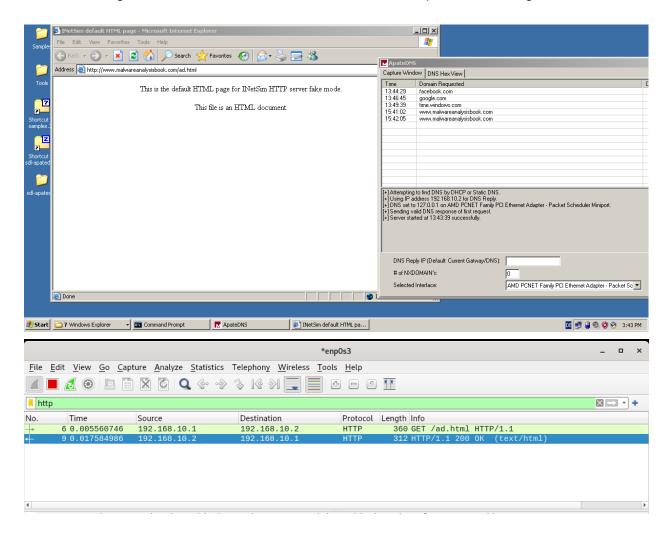


3. When I request for a "down.exe". The default inetsim GUI application is downloaded. And the packets and request captured can be seen by the wireshark in the Remnux VM.



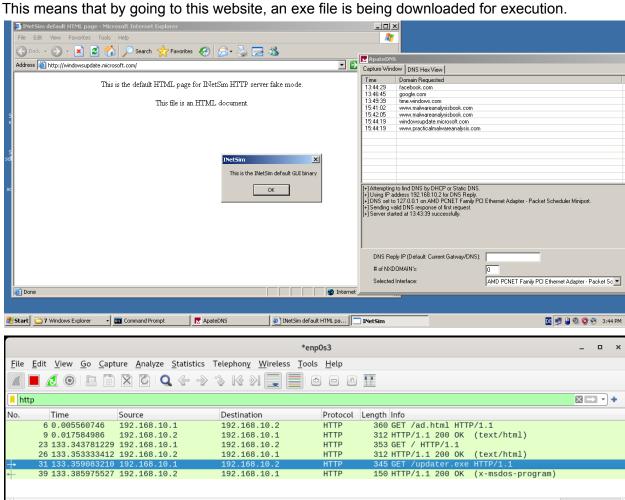


<u>www.malwareanalysisbook.com</u> is the domain sample 1 is trying to connect. Get request for ad.html is being made and then html text for default inetsim http server is being rendered.



windowsupdate.microsoft.com is the domain sample 2 is trying to connect. Get request for updater.exe is being made and then x-msdos-program is being received.

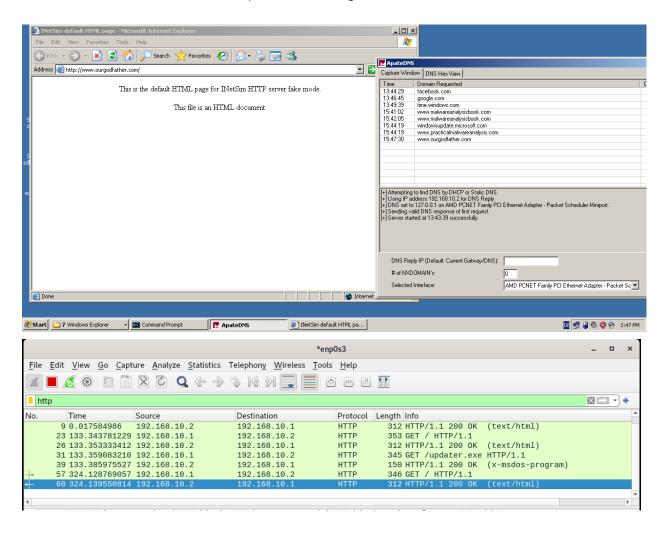
www.practicalmalwareanalysis.com is also a domain which is requested.



Frame 21: 345 bytes on wire (2760 bits) 345 bytes centured (2760 bits) on interface enness id 0

# Messenger

www.ourgodfather.com is the domain it is trying to connect to. Get request is being made and then html text for default inetsim http server is being rendered.



## === Report for session '1728' ===

Real start date : 2023-11-03 08:42:58 Simulated start date : 2023-11-03 08:42:58

Time difference on startup: none

2023-11-03 08:44:29 First simulated date in log file

2023-11-03 08:44:29 HTTP connection, method: GET, URL: http://facebook.com/img.png, file

name: /var/lib/inetsim/http/fakefiles/sample.png

2023-11-03 08:46:17 HTTP connection, method: GET, URL: http://facebook.com/, file name:

/var/lib/inetsim/http/fakefiles/sample.html

2023-11-03 08:46:45 HTTP connection, method: GET, URL: http://google.com/, file name:

/var/lib/inetsim/http/fakefiles/sample.html

2023-11-03 08:49:28 HTTP connection, method: GET, URL: http://google.com/down.exe, file

name: /var/lib/inetsim/http/fakefiles/sample\_gui.exe

2023-11-03 08:49:28 Last simulated date in log file

=== Report for session '1912' ===

Real start date : 2023-11-03 10:41:57 Simulated start date : 2023-11-03 10:41:57

Time difference on startup: none

2023-11-03 10:42:05 First simulated date in log file

2023-11-03 10:42:05 HTTP connection, method: GET, URL:

http://www.malwareanalysisbook.com/ad.html, file name:

/var/lib/inetsim/http/fakefiles/sample.html

2023-11-03 10:44:19 HTTP connection, method: GET, URL:

http://windowsupdate.microsoft.com/, file name: /var/lib/inetsim/http/fakefiles/sample.html

2023-11-03 10:44:19 HTTP connection, method: GET, URL:

http://www.practicalmalwareanalysis.com/updater.exe, file name:

/var/lib/inetsim/http/fakefiles/sample gui.exe

2023-11-03 10:47:30 HTTP connection, method: GET, URL: http://www.ourgodfather.com/, file

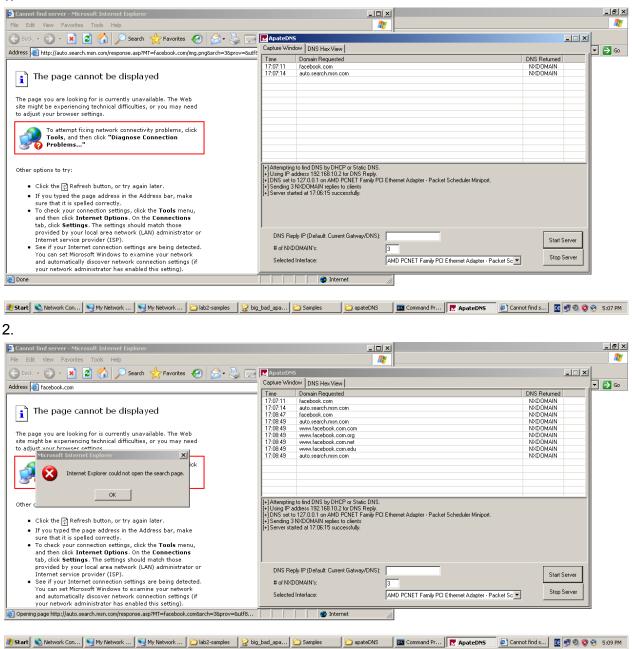
name: /var/lib/inetsim/http/fakefiles/sample.html

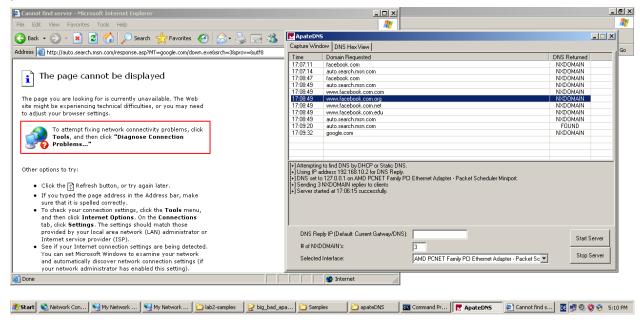
2023-11-03 10:47:30 Last simulated date in log file

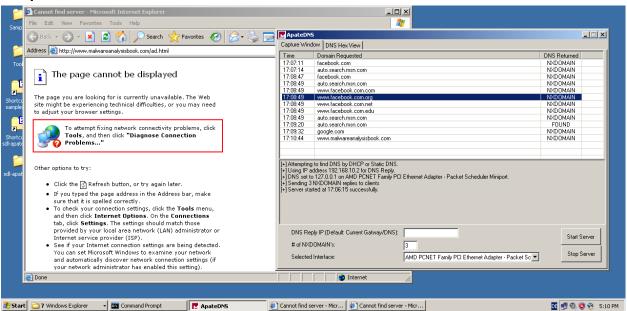
### # of NXDOMAINS =3

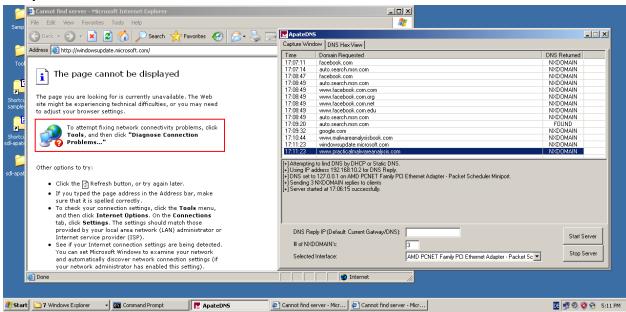
Throughout this, the domains are not being found and multiple domains are requested if the domain searched is not found

1.

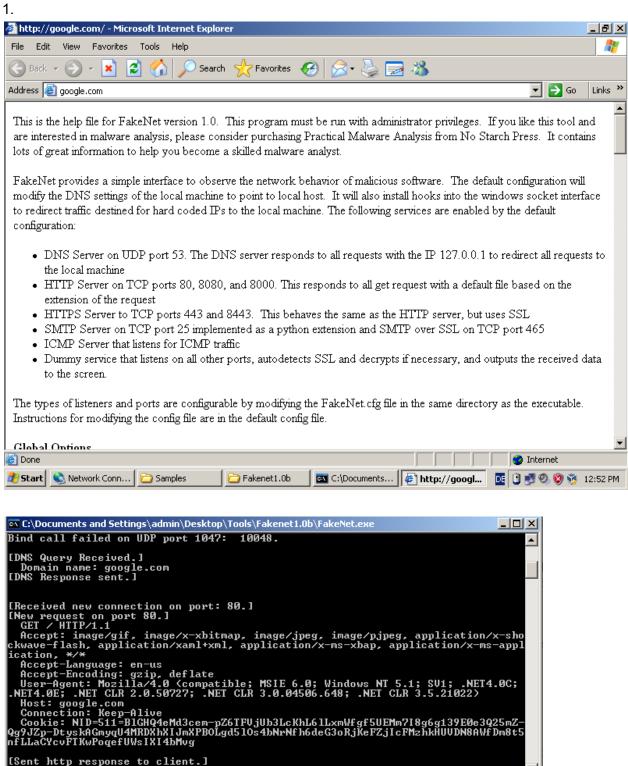


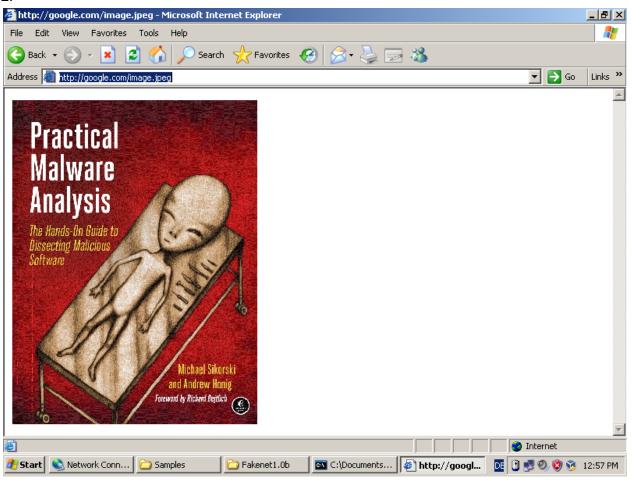


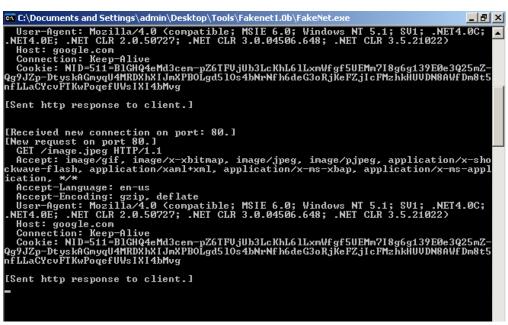




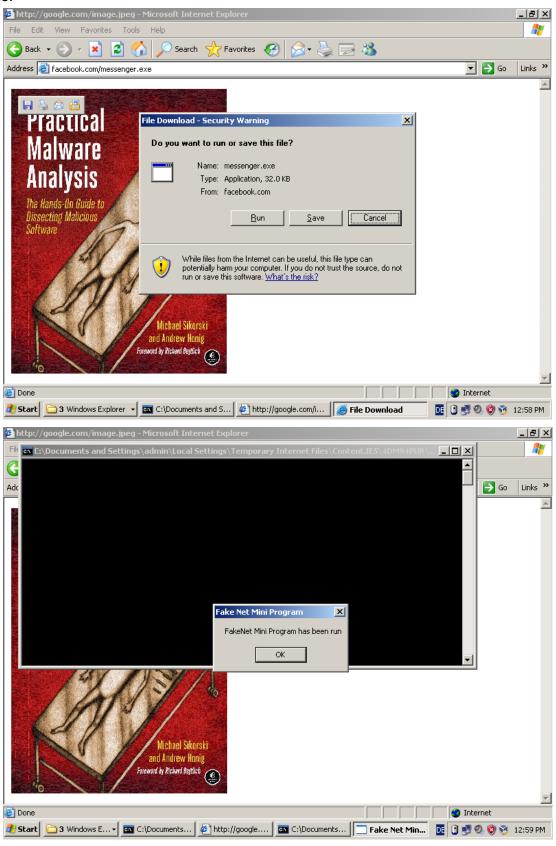
## Part-2: Using FakeNet

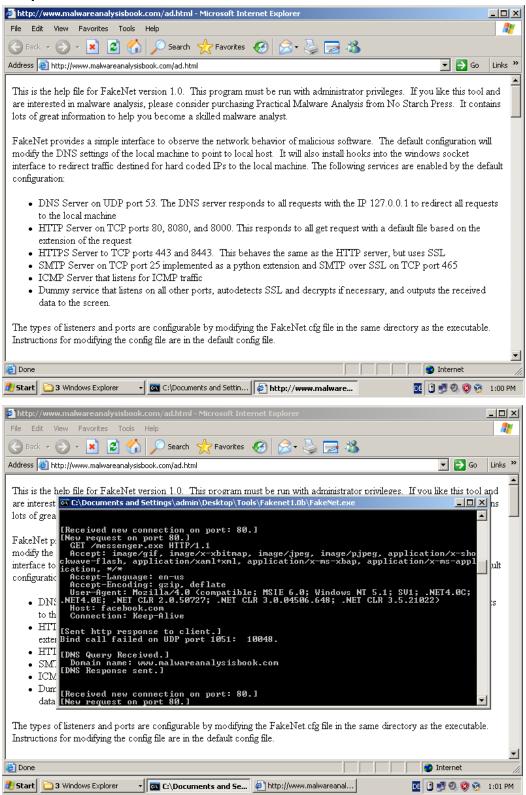


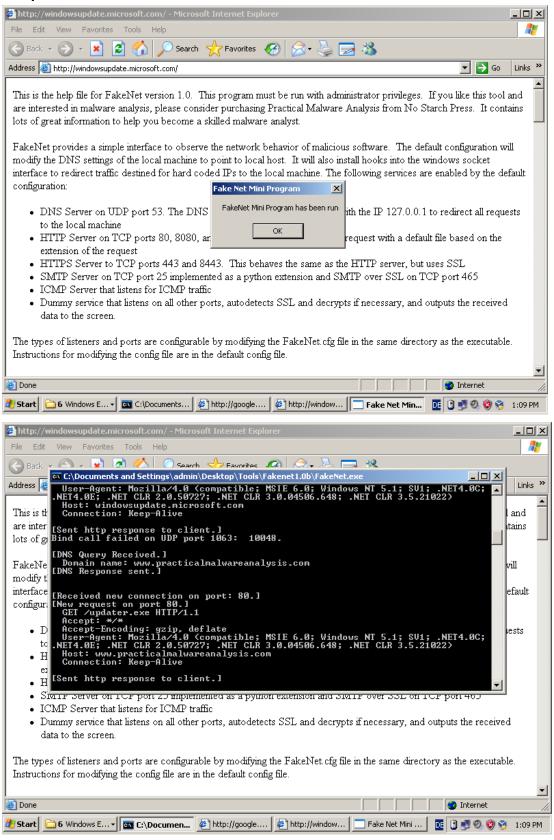




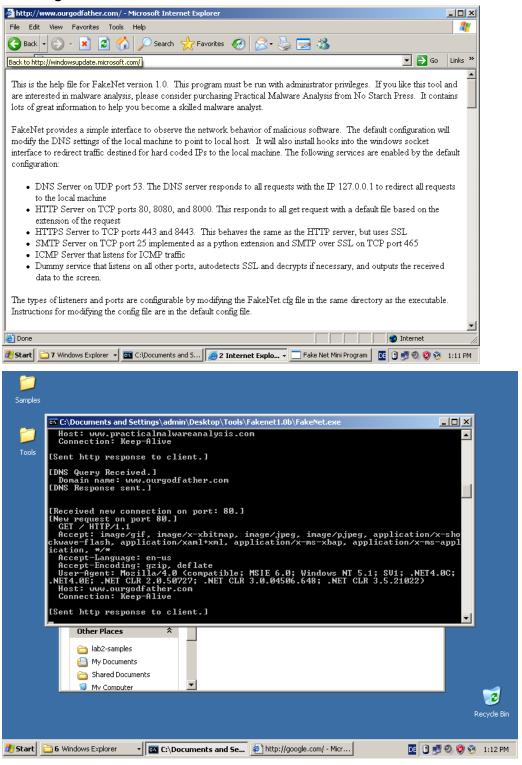
3.



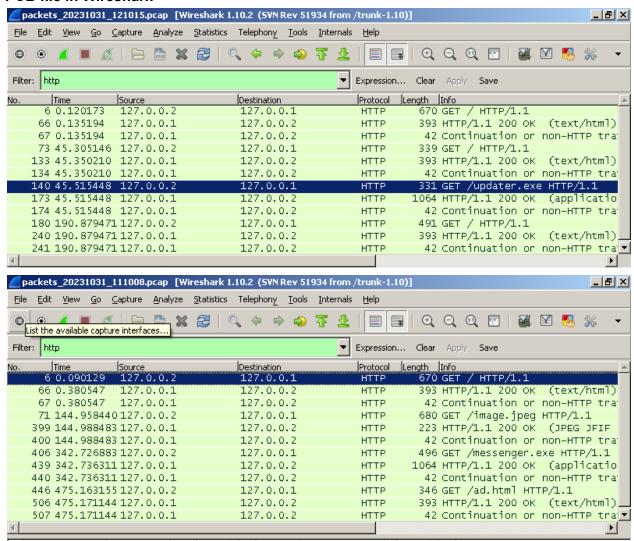




## Messenger



#### PCB file in Wireshark



# Conclusion:

Yes, the overall network behavior of the malware aligns with both FakeNet and INetSim. However, a key difference lies in the source of the default HTML pages, images, and .exe files. Instead of sourcing these from INetSim, they are now being retrieved from FakeNet. Aside from this distinction, the behavior of the malware remains consistent, particularly in terms of the domains requested and actions executed.