TShark Challenge II: Directory

Answer the questions below

Investigate the DNS queries.

Investigate the domains by using VirusTotal.

According to VirusTotal, there is a domain marked as malicious/suspicious.

What is the name of the malicious/suspicious domain?

Enter your answer in a **defanged** format.

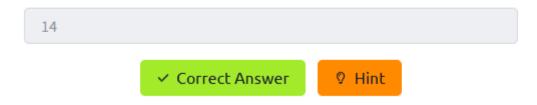
```
jx2-bavuong[.]com

✓ Correct Answer
```

First thing I did is to go to the correct directory. I created a .txt to make the search easy.

I used this command and I find this domain that was suspicious for me.

What is the total number of HTTP requests sent to the malicious domain?



```
ubuntu@ip-10-10-100-150:-/Desktop/exercise-files$ tshark -r directory-curiosity.pcap -T fields -e http.request.full_uri | awk NF | sort -r | grep
"http://jx2-bavuong.com/*"
http://jx2-bavuong.com/vlauto.exe
http://jx2-bavuong.com/vlauto.exe
http://jx2-bavuong.com/newbot/target.port
http://jx2-bavuong.com/newbot/target.ine
http://jx2-bavuong.com/newbot/target
http://jx2-bavuong.com/newbot/target
http://jx2-bavuong.com/newbot/target
http://jx2-bavuong.com/newbot/target
http://jx2-bavuong.com/newbot/barget
http://jx2-bavuong.com/newbot/blog
http://jx2-bavuong.com/newbot/blog
http://jx2-bavuong.com/icons/lank.gif
http://jx2-bavuong.com/icons/lank.gif
http://jx2-bavuong.com/icons/binary.gif
http://jx2-bavuong.com/icons/binary.gif
http://jx2-bavuong.com/icons/binary.gif
http://jx2-bavuong.com/icons/binary.gif
```

To have more details of what I did with this command:

tshark -r directory-curiosity.pcap -T fields -e http.request.full_uri:

- Uses tshark (Wireshark's command-line tool) to read the network capture file (directory-curiosity.pcap).
- It extracts all full HTTP request URIs (http.request.full_uri) from the packets.
- The output is formatted into **fields** (-T fields), meaning each URI gets its own line.

□ | awk NF:

- The pipe | sends the output of tshark as input to awk.
- awk NF filters out any blank lines, ensuring only lines with actual URIs
 are processed further. (NF stands for "Number of Fields"; if a line has
 fields, it's not empty, so awk prints it).

□ | sort -r:

- The pipe | sends the filtered URIs to sort.
- sort -r sorts these URIs in reverse alphabetical order.
- □ | grep "http://jx2-bavuong.com/*":
 - The **pipe** | sends the sorted URIs to grep.
 - **grep "http://jx2-bavuong.com/*"** filters the list to show only those URIs that contain the string "http://jx2-bavuong.com/".

The command reads network traffic, pulls out all the complete website addresses (URIs) from HTTP requests, removes any empty entries, sorts them in reverse order, and then displays only those URIs that belong to the jx2-bavuong.com domain.

What is the IP address associated with the malicious domain?

Enter your answer in a **defanged** format.

```
141[.]164[.]41[.]174

✓ Correct Answer
```

```
untu@ip-10-10-100-150:~/Desktop/exercise-files$ tshark -r directory-curiosity.pcap -Y "dns"
11 1.764583 192.168.100.116 ? 192.168.100.2 DNS 75 Standard query 0x82a6 A jx2-bavuong.com
12 2.098611 192.168.100.2 ? 192.168.100.116 DNS 91 Standard query response 0x82a6 A jx2-bavuong.com A <mark>141.164.41.174</mark>
```

I find the answer also with the first command that I used.

What is the server info of the suspicious domain?

Apache/2.2.11 (Win32) DAV/2 mod_ssl/2.2.11 OpenSSL/0.9.8i PHP/5.2.5

✓ Correct Answer

ubuntu@ip-10-10-193-147:~/Desktop/exercise-files\$ tshark -r directory-curiosity.pcap -T fields -e http.server | awk NF Apache/2.2.11 (Win32) DAV/2 mod_ssl/2.2.11 OpenSSL/0.9.8i PHP/5.2.9 Apache/2.2.11 (Win32) DAV/2 mod_ssl/2.2.11 OpenSSL/0.9.8i PHP/5.2.9

Follow the "first TCP stream" in "ASCII".

Investigate the output carefully.

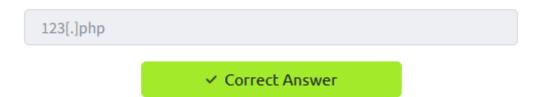
What is the number of listed files?

3 ✓ Correct Answer

I could find 3 files for this question with this command: tshark -r directory-curiosity.pcap -z follow,tcp,ascii,0 -q

What is the filename of the first file?

Enter your answer in a **defanged** format.



Now I export the http and I used this command

ubuntu@ip-10-10-193-147:~/Desktop/exercise-files\$ tshark -r directory-curiosity.pcap --export-objects http,/home/ubuntu/Desktop/exercise-files/export

Export all HTTP traffic objects.

What is the name of the downloaded executable file?

Enter your answer in a **defanged** format.

vlauto[.]exe

✓ Correct Answer

In the new export directory I could find the executable.

To know the sha256 value I just need it to run a simple command.

What is the SHA256 value of the malicious file?

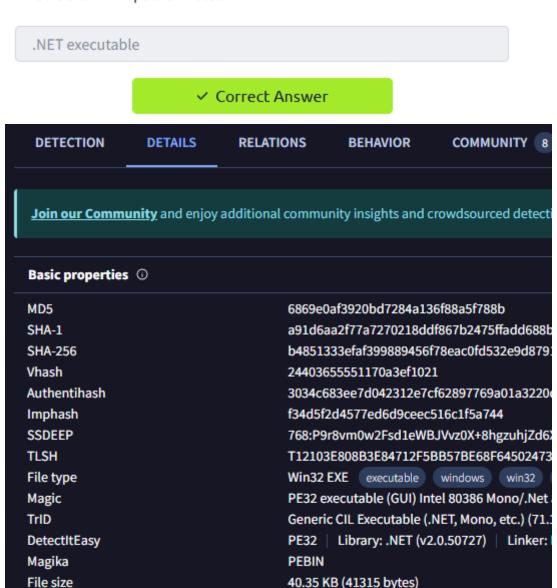
b4851333efaf399889456f78eac0fd532e9d8791b23a86a19402c1164aec

✓ Correct Answer

ubuntu@ip-10-10-193-147:~/Desktop/exercise-files/export\$ sha256sum vlauto.exe b4851333efaf399889456f78eac0fd532e9d8791b23a86a19402c1164aed20de vlauto.exe Search the SHA256 value of the file on VirtusTotal.

What is the "PEiD packer" value?

PEiD packer



.NET executable

Search the SHA256 value of the file on VirtusTotal.

What does the "Lastline Sandbox" flag this as?





