## **Collaborative Challenge 1**

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Objective: The security team was alerted to suspicious network activity from a production web server. Can you determine if any data was stolen and what it was?

## Process:

Look at the traffic and see what is suspicious. By observing the tab of statistics and conversations, when organizing by packets length I got this:



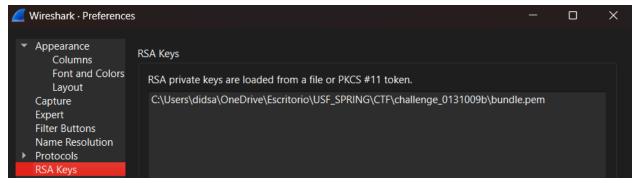
We can observe that the IP 10.10.100.43 is sending a lot of packets.

Now inside Wireshark I use a filter to see the packets that the IP is sending and receiving.

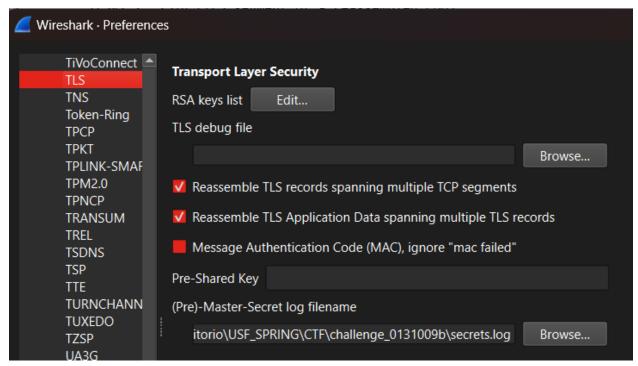
If I looked into an HTTP packet, I see that the port it is using is 443, which normally is used for HTTPS however it is using it for HTTP.

```
Transmission Control Protocol, Src Port: 49175, Dst Port: 443, Seq: 1, Ack: 1, Len: 292
Source Port: 49175
Destination Port: 443
```

Now. If we search TLS in the filter, everything shows as TLS. however, by changing the configuration of wireshark and using the secrets and bundle file we could configure the thing to divide the protocols and know the differences.

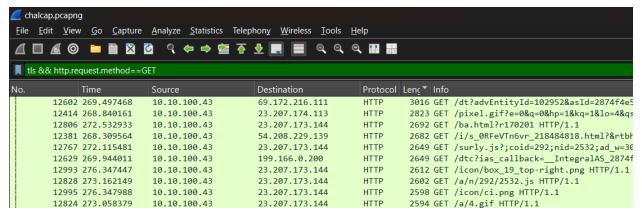


Here I put the keys that were inside the packet of the challenge. So now the specifics of the TLS configuration:



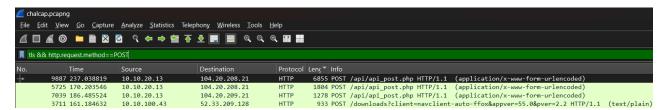
I input the secret file into the configuration of wireshark. With this set, now all the packets with the TLS filter are going to differentiate which is what we are looking for.

Now, we analyze the http method GET having them organized with length:

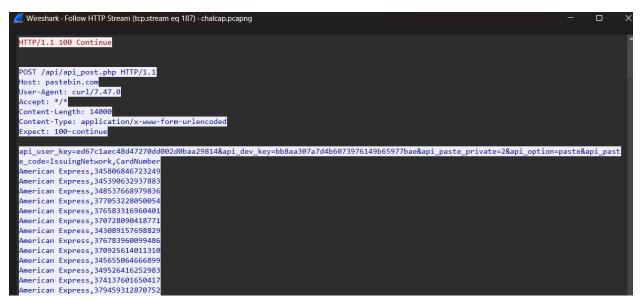


By analyzing different TCP streams of the packets, some of them didn't have anything suspicious, and others were just encrypted. Everything seemed normal.

Now I analyze the POST method



By following the TCP stream of the first packet we see this:



Inside of it we see credit cards information which is very suspicious and by going down we get the flag: HTB{Th15\_15\_4\_F3nD3r\_Rh0d35\_M0m3NT!!