HTB x Uni CTF 2020 – Qualifications

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Challenge: Plug

Category: Forensics

Intro:

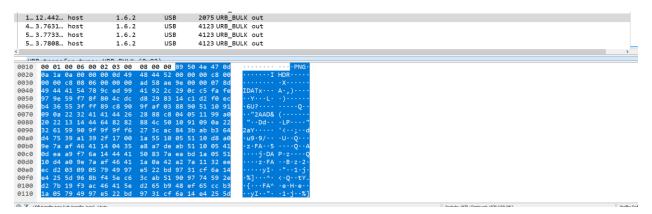
In this challenge we are given a .pcapng file which contains USB traffic

Walkthrough:

I first started analyzing the pcap file just by scrolling through each packet and seeing if I noticed any weird patterns. I noticed that probably 97% of the packets were less than 100 bytes in length and there were a few packets that were way larger, about 4,000 bytes, than the rest. I assumed these large packets was where actual data that we were concerned about was located, so I sorted by length:

```
1... 12.432... host
                                                             539 URB_BULK out
                               1.6.2
                                                USB
1... 12.454... host
1... 12.457... host
                                                             539 URB_BULK out
539 URB_BULK out
                               1.6.2
                                                USB
                                                USB
                               1.6.2
1... 16.018... host
1... 16.025... host
                               1.6.2
                                                USB
                                                             539 URB_BULK out
539 URB_BULK out
                                                USB
                               1.6.2
1... 16.028... host
1... 16.035... host
                                                             539 URB_BULK out
539 URB_BULK out
                               1.6.2
                                                IISB
                               1.6.2
                                                USB
1... 16.038... host
1... 16.046... host
                               1.6.2
                                                USB
                                                             539 URB_BULK out
539 URB_BULK out
                               1.6.2
1... 16.050... host
                               1.6.2
                                                USB
                                                             539 URB_BULK out
1... 16.063... host
                               1.6.2
                                                             539 URB_BULK out
1... 16.067... host
                               1.6.2
                                                USB
                                                             539 URB_BULK out
5... 3.7978... host
                                                            1051 URB_BULK out
1... 7.7249... host
                               1.6.2
                                                USB
                                                            1051 URB BULK out
1... 12.450... host
                               1.6.2
                                                USB
                                                            1051 URB_BULK out
1... 16.060... host
                               1.6.2
                                                USB
                                                            1051 URB BULK out
                                                            2075 URB_BULK out
4123 URB_BULK out
1... 12.442... host
                               1.6.2
                                                USB
4... 3.7631... host
                               1.6.2
                                                USB
5... 3.7733... host
                               1.6.2
                                                USB
                                                            4123 URB_BULK out
                                                            4123 URB_BULK out
5... 3.7808... host
                               1.6.2
                                                USB
5... 3.7884... host
                               1.6.2
                                                            4123 URB_BULK out
```

It didn't take me long till a found a particular packet which looked like a header for a PNG file:



So, I selected the packet and saved the raw packet bytes as a PNG file. Opening up the PNG file showed me a QR code:



So I went to an online QR code reader website and had it read the QR code:

