The echo

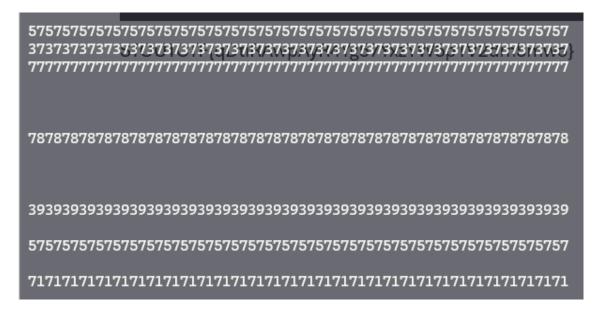
When opening the wireshark file. We can see strings in every packet. We can use tshark to extract data from wireshark via linux terminal. After understanding about the data in wireshark, I know we need to extract the data field. This solve is one liner so I apologise because it's not so beginner friendly. But I'll give the visualisation on why I use this command.

```
tshark -r TheEchos.pcap -Y "icmp.type == 8" -T fields -e data | cut -c 1-2 | tr -d '\n'
```

Baically, -r is we reading the file. We need the data in icmp because theres only icmp packet. If you take a look at one of the packet, there is type 8 mentioned.

```
4 0.002039
                      127.0.0.1
                                            127.0.0.1
                                                            ICMP
                      127.0.0.1
                                            127.0.0.1
      5 0.002539
                                                            ICMP
       6 0.003040
                      127.0.0.1
                                            127.0.0.1
                                                            ICMP
<
  Frame 5: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
  Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
 Internet Control Message Protocol
     Type: 8 (Echo (ping) request)
     Code: 0
     Checksum: 0x535b [correct]
     [Checksum Status: Good]
```

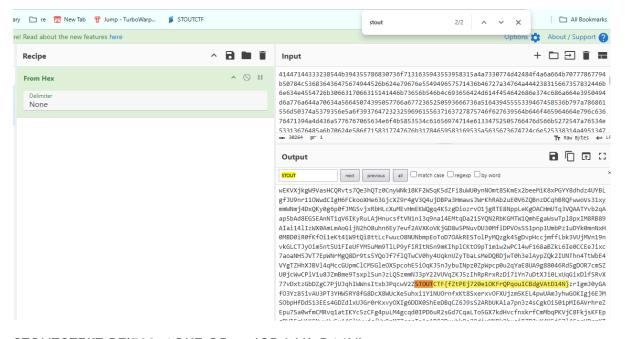
Then -e data is just extracting data. Using | (pipe) command to use multiple command. Using tshark -r TheEchos.pcap -Y "icmp.type == 8" -T fields -e data we get below





Add tr -d '\n' to get concatenate all of them

We know wireshark use hex. So go to cyberchef and find flag



STOUTCTF{fZtPEj720e1OKFrQPqoulCBdgVAtD14N}