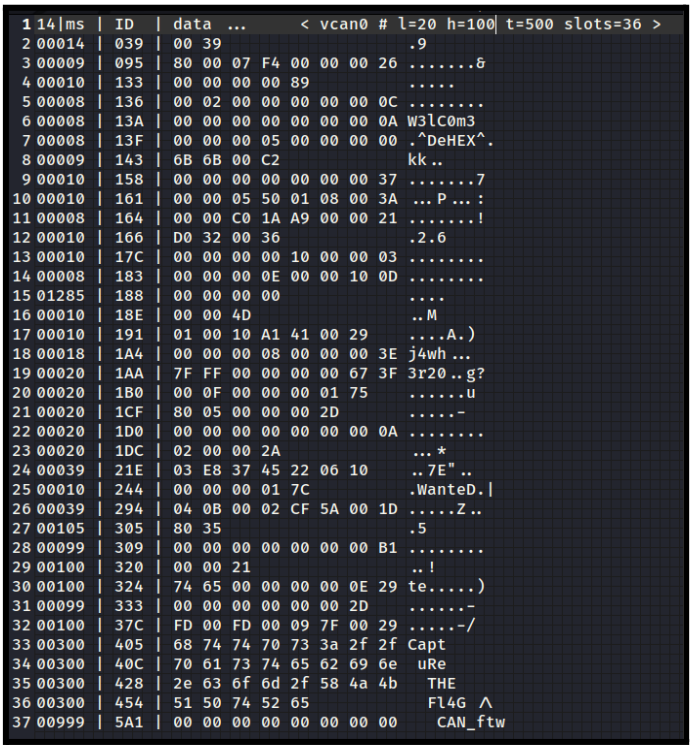
Auto1 Writeup

In this task you were provided with a file containing a dump for a traffic sent to a car using cansiffer tool.

$ cansniffer -c vcan0

This task is meant to be easy , so there are no reversing skills that need to be used.

This is the content of the file:



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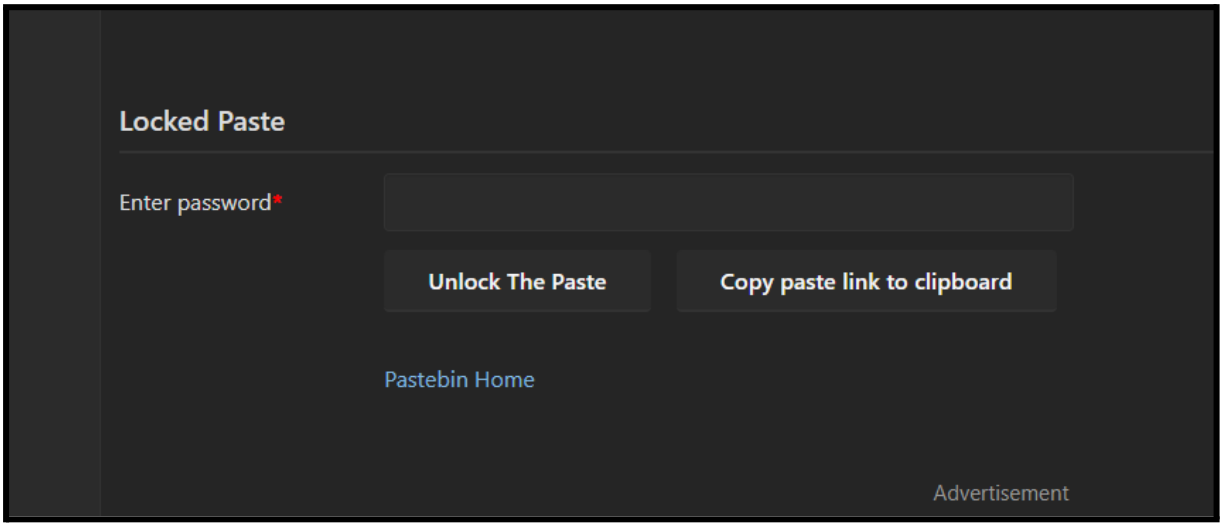
 1 14|ms | ID   | data ...      < vcan0 # l=20 h=100 t=500 slots=36 >
 2 00014 | 039 | 00 39                    .9
 3 00009 | 095 | 80 00 07 F4 00 00 00 26 .......&
 4 00010 | 133 | 00 00 00 00 89          .....
 5 00008 | 136 | 00 02 00 00 00 00 00 0C ........
 6 00008 | 13A | 00 00 00 00 00 00 00 0A W3lC0m3
 7 00008 | 13F | 00 00 00 05 00 00 00 00 .^DeHEX^.
 8 00009 | 143 | 6B 6B 00 C2              kk..
 9 00010 | 158 | 00 00 00 00 00 00 00 37 .......7
10 00010 | 161 | 00 00 05 50 01 08 00 3A ...P...:
11 00008 | 164 | 00 00 C0 1A A9 00 00 21 .......!
12 00010 | 166 | D0 32 00 36              .2.6
13 00010 | 17C | 00 00 00 00 10 00 00 03 ........
14 00008 | 183 | 00 00 00 0E 00 00 10 0D ........
15 01285 | 188 | 00 00 00 00              ....
16 00010 | 18E | 00 00 4D                 ..M
17 00010 | 191 | 01 00 10 A1 41 00 29     ....A.)
18 00018 | 1A4 | 00 00 00 08 00 00 00 3E j4wh...
19 00020 | 1AA | 7F FF 00 00 00 00 67 3F 3r20..g?
20 00020 | 1B0 | 00 0F 00 00 00 01 75     ......u
21 00020 | 1CF | 80 05 00 00 00 2D        .....-
22 00020 | 1D0 | 00 00 00 00 00 00 00 0A ........
23 00020 | 1DC | 02 00 00 2A              ...*
24 00039 | 21E | 03 E8 37 45 22 06 10     ..7E"..
25 00010 | 244 | 00 00 00 01 7C           .WanteD.|
26 00039 | 294 | 04 0B 00 02 CF 5A 00 1D .....Z..
27 00105 | 305 | 80 35                    .5
28 00099 | 309 | 00 00 00 00 00 00 00 B1 ........
29 00100 | 320 | 00 00 21                 ..!
30 00100 | 324 | 74 65 00 00 00 00 0E 29 te.....)
31 00099 | 333 | 00 00 00 00 00 00 2D     ......-
32 00100 | 37C | FD 00 FD 00 09 7F 00 29 .....-/
33 00300 | 405 | 68 74 74 70 73 3a 2f 2f Capt
34 00300 | 40C | 70 61 73 74 65 62 69 6e  uRe
35 00300 | 428 | 2e 63 6f 6d 2f 58 4a 4b   THE
36 00300 | 454 | 51 50 74 52 65            Fl4G ^
37 00999 | 5A1 | 00 00 00 00 00 00 00 00    CAN_ftw
```

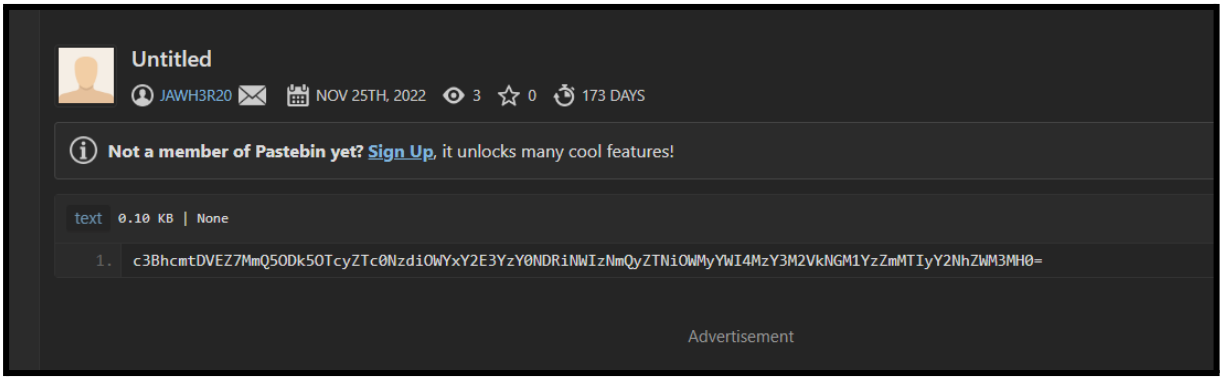
in the ascii representation of some traffic , you will find some junk data and hints(even for Auto2 task ‘WanteD’..).

So in order to solve this task we need to convert some HEX strings to text. Notice the last 5 lines which contains “Capt uRe THE Fl4g ^” which are the strings that we need to convert there corresponded hex values and “CAN_ftw” string that we will use it next..

Now we have a pastebin link .



This paste is password protected , so what can it be ?
You can try the strings found on the dump .. the password is ‘CAN_ftw’ which is the last string with null hex value.



now we have a base64 encoded string, just convert it and you’ll see the flag .

sparkCTF{2d9899972e7477b9f1ca7c6444b5b36d2e3b9c2ab83673ed4c5c6f122ccaec70}