



*root@localhost:~\$ echo "b477l3 0f l337"*

# **BATTLE\_OF\_1337**

## **CTF 2022**

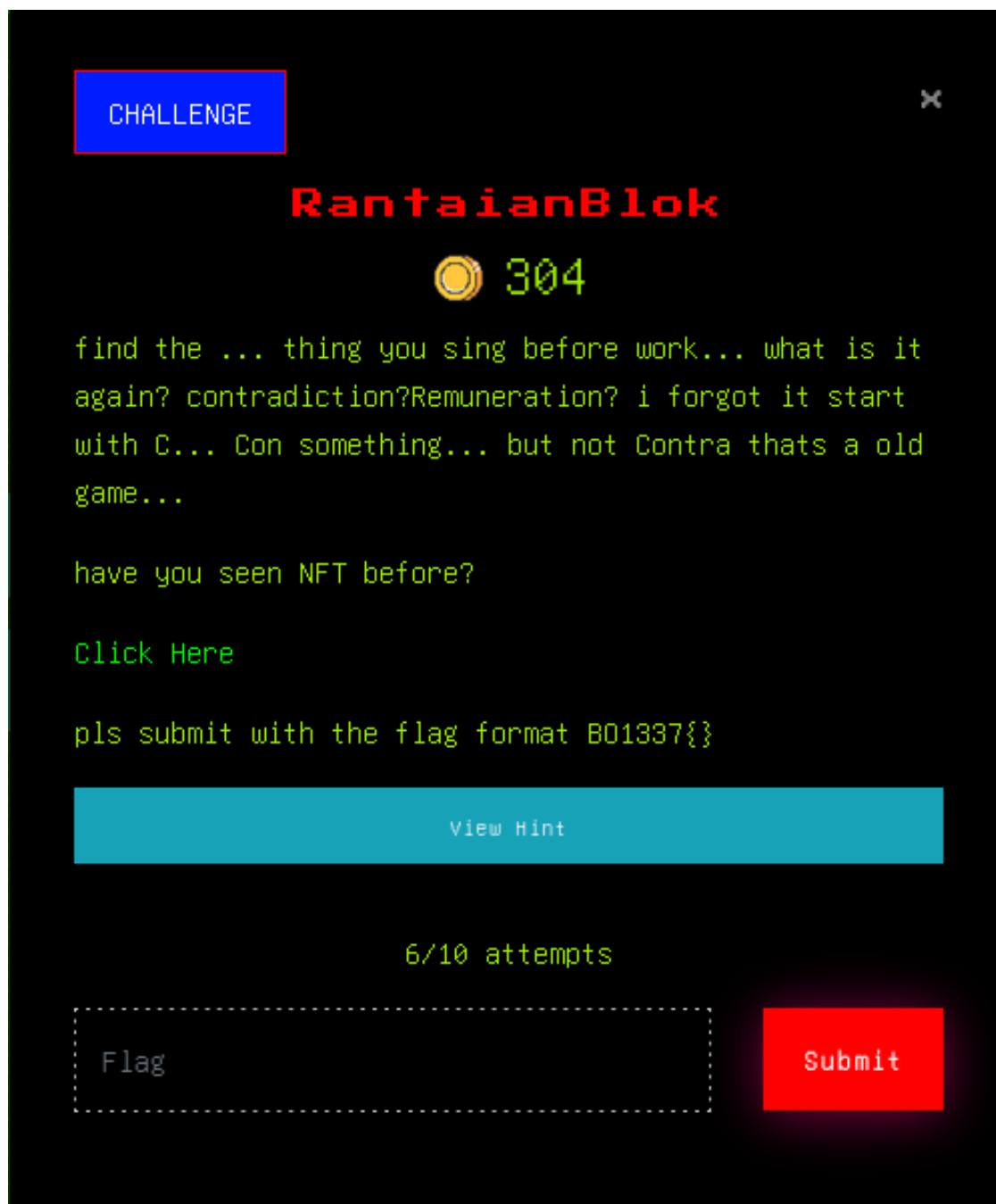
### **BATTLE OF 1337 OFFICIAL WRITEUP**

*Writeup By : thomaswayne*

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## RANTAIANBLOK



### STEPS OF REPLICATION

- install quasar using `NPM I -G @QUASAR/CLI`, we will also need ethers `NPM I ETHERS`
- initiate a new project by running `NPM INIT QUASAR`

```
~/Dev
npm init quasar

.d88888b.
d88P" "Y88b
888      888
888      888 888 888 88888b. .d8888b 8888b. 888d888
888      888 888 888      "88b 88K      "88b 888P"
888 Y8b 888 888 888 .d888888 "Y8888b. .d888888 888
Y88b.Y8b88P Y88b 888 888 888      X88 888 888 888
"Y888888" "Y88888 "Y888888 88888P' "Y888888 888
      Y8b

✓ What would you like to build? > App with Quasar CLI, let's go!
✓ Project folder: ... blokrantaian
✓ Pick Quasar version: > Quasar v2 (Vue 3 | latest and greatest)
✓ Pick script type: > Javascript
✓ Pick Quasar App CLI variant: > Quasar App CLI with Webpack
✓ Package name: ... blokrantaian
✓ Project product name: (must start with letter if building mobile apps) ... Quasar App
✓ Project description: ... A Quasar Project
✓ Author: ... s3ns3 <s3ns3xy@yahoo.com>
✓ Pick your CSS preprocessor: > Sass with SCSS syntax
✓ Check the features needed for your project: > ESLint
> Pick an ESLint preset: > ...
```

- place the ABI file in any folder that you wish, in my case i placed it under the /UTILS folder. i have also format the json using <https://jsonformatter.curiousconcept.com/#>

```
" Press ? for help
.. (up a dir)
/home/vecna/Dev/rantaianblok/
├── [ ] node_modules/
├── [ ] public/
├── [ ] src/
│   ├── [ ] assets/
│   ├── [ ] boot/
│   ├── [ ] components/
│   ├── [ ] css/
│   ├── [ ] layouts/
│   ├── [ ] pages/
│   ├── [ ] router/
│   └── [ ] utils/
└── [ ] rantai.json
    ├── App.vue
    ├── index.template.html
    ├── babel.config.js
    ├── jsconfig.json
    ├── package-lock.json
    ├── package.json
    ├── quasar.config.js
    └── README.md

1  {
2    "abi": [
3      {
4        "inputs": {
5          "stateMutability": "nonpayable",
6          "type": "constructor"
7        },
8      },
9      {
10       "inputs": {
11         "name": "flag",
12         "outputs": {
13           {
14             "internalType": "string",
15             "name": "",
16             "type": "string"
17           }
18         },
19         "stateMutability": "view",
20         "type": "function"
21       }
22     ]
23   }
24 }
```

- below are the source code for `/SRC/PAGES/INDEXPAGE.VUE`. we will need to make asynchronous call to the `FLAG()` function as it will return a promise.

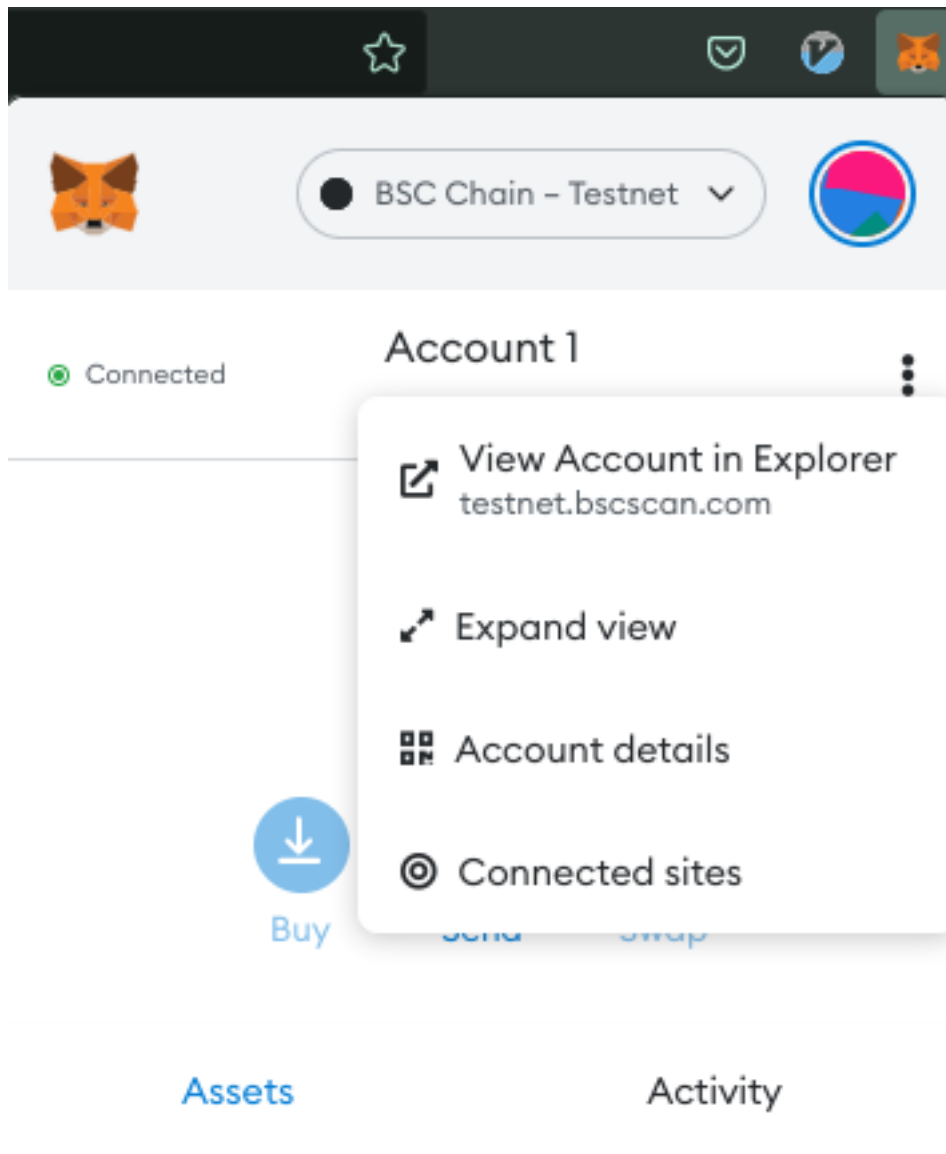
```

" Press ? for help
.. (up a dir)
/home/vecna/Dev/rantaiablok/
[ ] node_modules/
[ ] public/
[ ] src/
  [ ] assets/
  [ ] boot/
  [ ] components/
  [ ] css/
  [ ] layouts/
  [ ] pages/
    [ ] ErrorNotFound.vue
    [ ] IndexPage.vue
  [ ] router/
  [ ] utils/
    [ ] rantai.json
    [ ] App.vue
      [ ] index.template.html
  [ ] babel.config.js
  [ ] jsconfig.json
  [ ] package-lock.json
  [ ] package.json
  [ ] quasar.config.js
  [ ] README.md





32 <template>
31   <q-page class="flex flex-center">
30     <div class="column">
29       <q-btn @click="getFlag" class="col" color="primary" label="Flag pls" />
28       <p class="col">{{ flag }} </p>
27     </div>
26   </q-page>
25 </template>
24
23 <script>
22 import { defineComponent } from 'vue'
21 import { ethers } from 'ethers'
20 import abi from '../utils/rantai.json'
19
18 const contractAddress = '0xC669100117c2e8b0492bD2f03a9a64B459776e62'
17 const contractABI = abi.abi
16
15
14 export default defineComponent({
13   name: 'IndexPage',
12
11   data() {
10     let contract = null;
9     let flag = null;
8     return {
7       contract, flag
6     }
5   },
4
3   created() {
2     this.checkIfWalletIsThere()
1   },
33
1   methods: {
2     checkIfWalletIsThere() {
3       window.addEventListener('load', () => {
4         const { ethereum } = window
5         if (!ethereum) {
6           console.log('No metamask')
7           return
8         }
9         console.log('We have an ethereum object!!', ethereum)
10      })
11    },
12
13    createContract() {
14      const { ethereum } = window
15
16      const provider = new ethers.providers.Web3Provider(ethereum)
17      const signer = provider.getSigner()
18      this.contract = new ethers.Contract(contractAddress, contractABI, signer)
19      return this.contract
20    },
21
22    async getFlag() {
23      let r = this.createContract();
24      this.flag = await r.flag();
25      console.log('flag', this.flag)
26    },
27  },
28 })


```


- run the application with `QUASAR DEV`
- on the browser, metamask will be needed for us to connect into the BSC test network, upon installed and register account on metamask, click the **CONNECTED SITES** like image below and click connect to `localhost:8080`






- connecting to the test network by adding a new network in metamask setting like so.






BSC Chain - Testnet 



 Networks 


 Search in settings

**Network Name**

BSC Chain - Testnet

**New RPC URL**

https://data-seed-prebsc-1-s1.binance.org:85

**Chain ID **

97

**Currency Symbol**

BNB

- if all works as intended, we should get our flag from the address by calling its public `FLAG()` function.

FLAG PLS  
a82cbce07689283cfc897f4310b634d3e3f8e751

- a good resource to learn more about web3 for free -> [HTTPS://BUILDSPACE.SO](https://BUILDSPACE.SO)

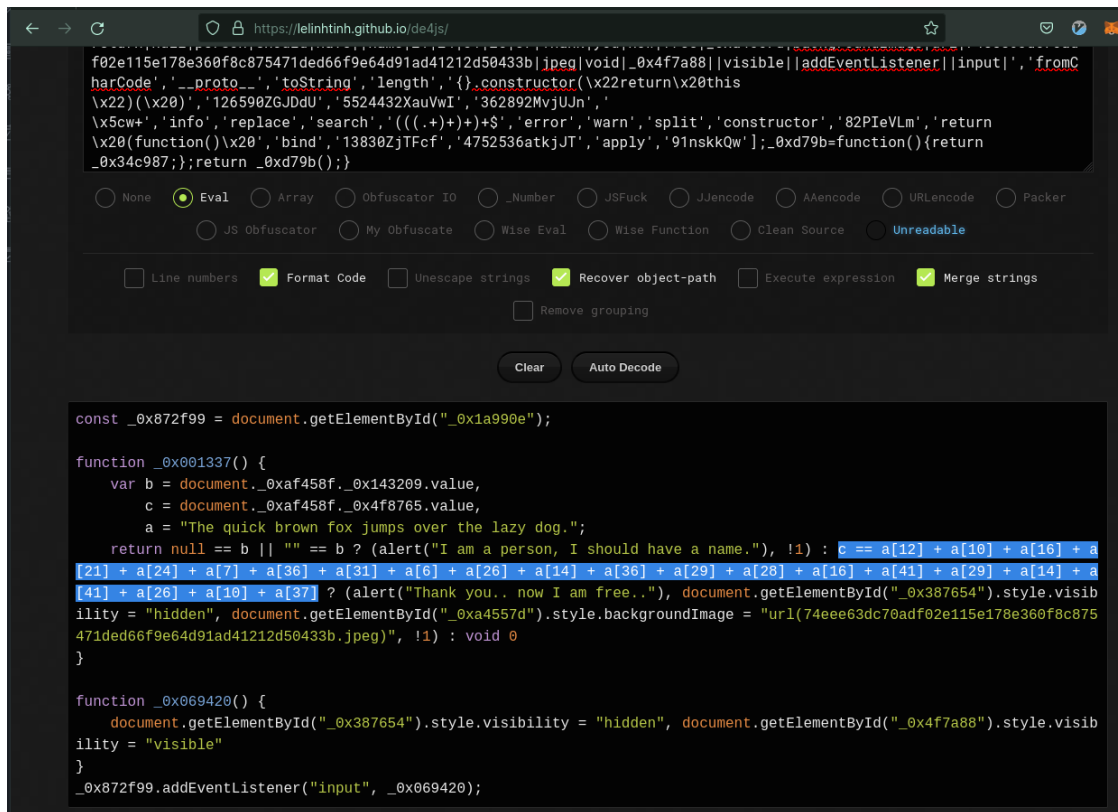


## AND EKCELI

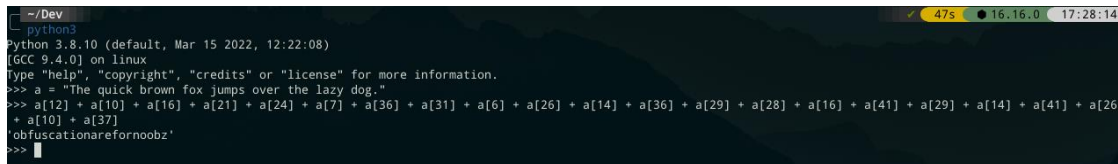


### STEPS OF REPLICATION

- input the password -> **DOWN HERE**
- inspect the element and go into the **DEBUGGER** tab. take note of the troll face as there is only one long function that doesn't have troll face below it.
- copy the function and throw it into de4js [HTTPS://LELINHTINH.GITHUB.IO/DE4JS/](https://LELINHTINH.GITHUB.IO/DE4JS/)



- retrieve the flag like the image below




## ALICEINWONDERLAND

CHALLENGE

×

AliceInWonderLand

 436

Welcome to Rabbit Spice Sir and Madam Please view or pricing and do contact us if you have any inquires

Bunny Ho

View Hint

View Hint

View Hint

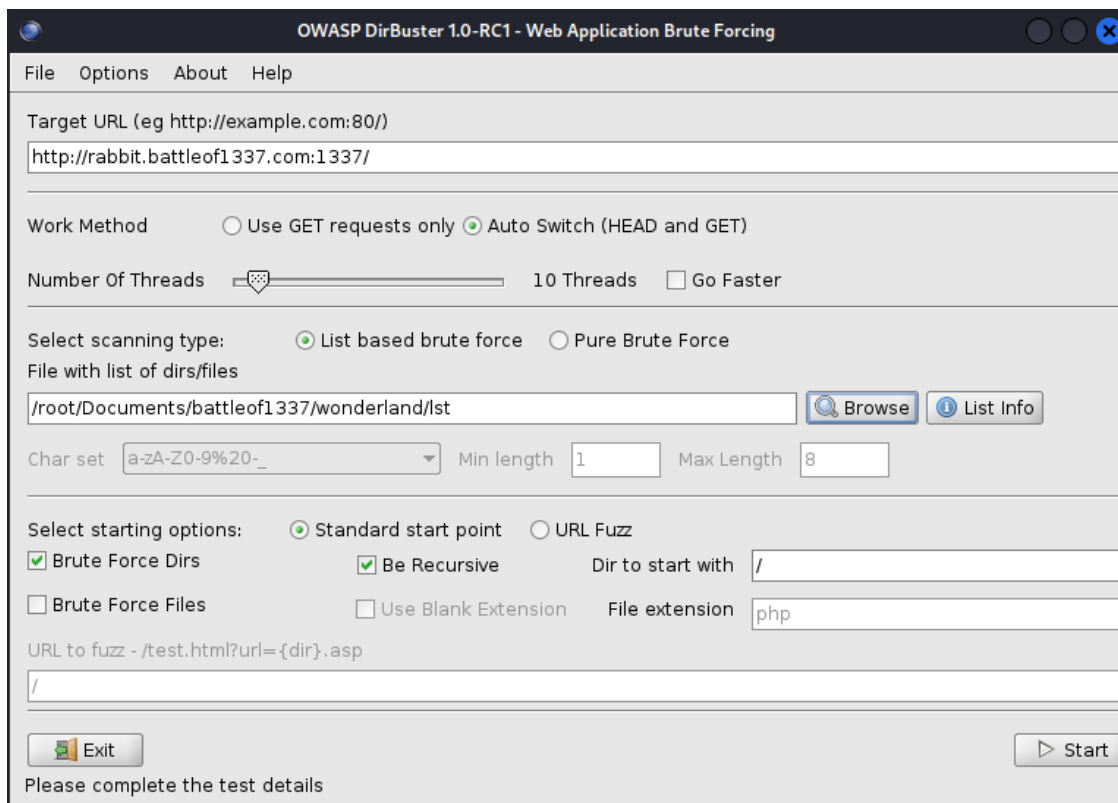
2/10 attempts

Flag

Submit

### STEPS OF REPLICATION

- head over to `/ROBOTS.TXT` and copy all of them and put it in a wordlist
- i use `DIRBUSTER` to bruteforce the directory as `FFUF` and `GOBUSTER` didn't work for me (not sure why)



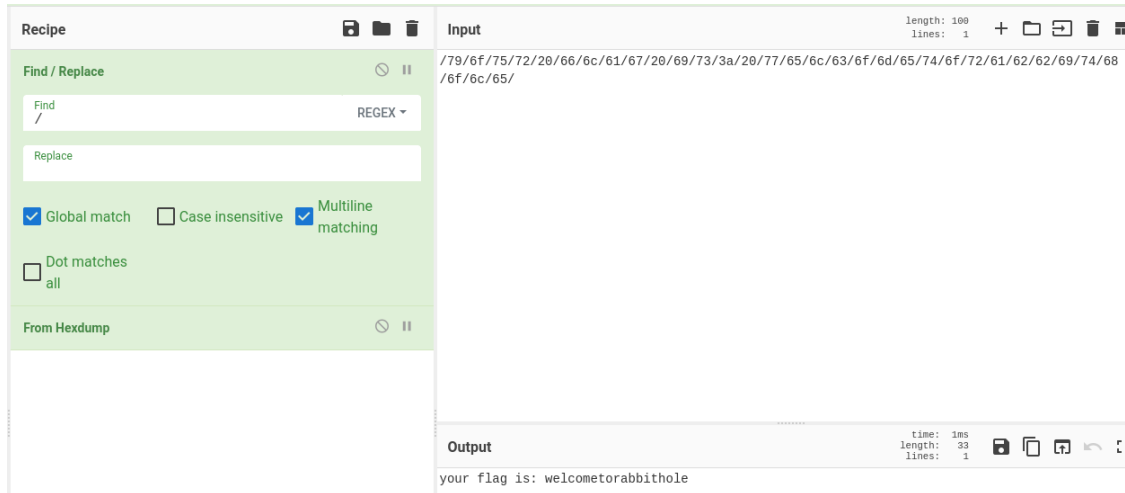
- we will need to follow a **403 FORBIDDEN** response

```

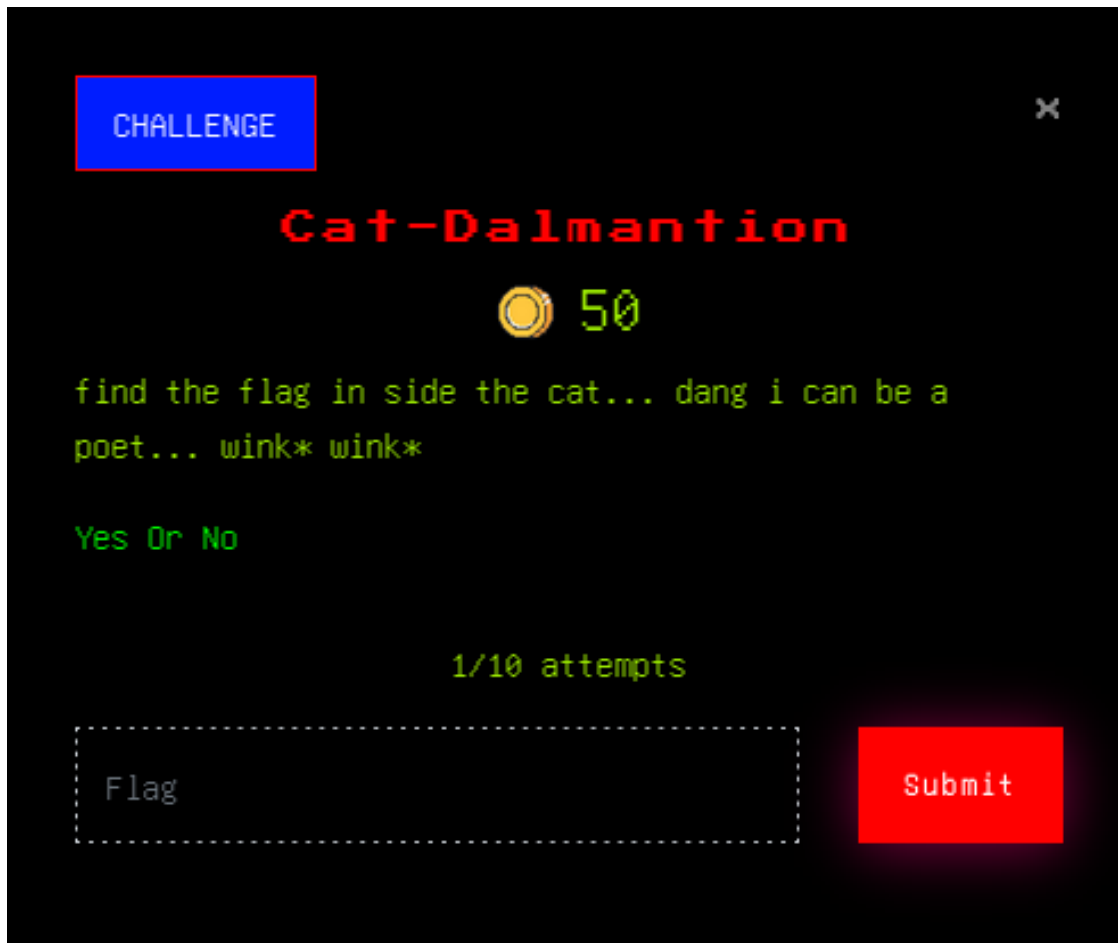
Dir found: /79/6f/ - 403
Dir found: /79/6f/75/ - 403
Dir found: /79/6f/75/72/ - 403
Dir found: /79/6f/75/72/20/ - 403
Dir found: /79/6f/75/72/20/66/ - 403
Dir found: /79/6f/75/72/20/66/6c/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/62/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/62/62/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/62/62/69/74/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/62/62/69/74/68/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/62/62/69/74/68/6f/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/62/62/69/74/68/6f/6c/ - 403
Dir found: /79/6f/75/72/20/66/6c/61/67/20/69/73/3a/20/77/65/6c/63/6f/6d/65/74/6f/72/61/62/62/69/74/68/6f/6c/65/ - 200
DirBuster Stopped

```

- the achieved final url looks like this  
**HTTP://RABBIT.BATTLEOF1337.COM:1337/79/6F/75/72/20/66/6C/61/67/20/69/73/3A/20/77/65/6C/63/6F/6D/65/74/6F/72/61/62/62/69/74/68/6F/6C/65/**
- head over to cyberchef and replace / into nothing then convert it FROM HEXDUMP and we got our flag

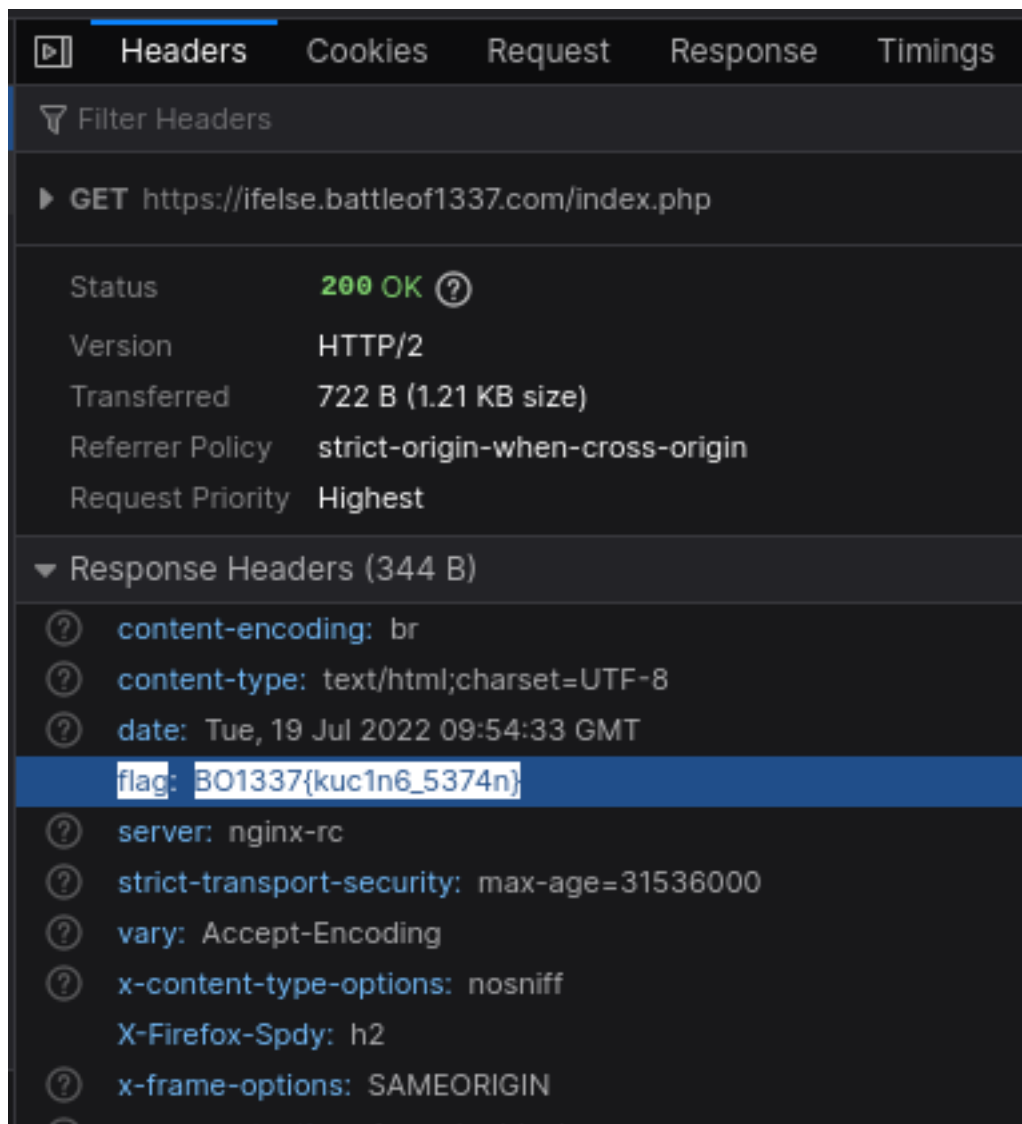


## CAT-DALMANTION



### STEPS OF REPLICATION

- we click click both button while viewing **NETWORK** tab in the inspect element will reveal the flag inside the response headers.



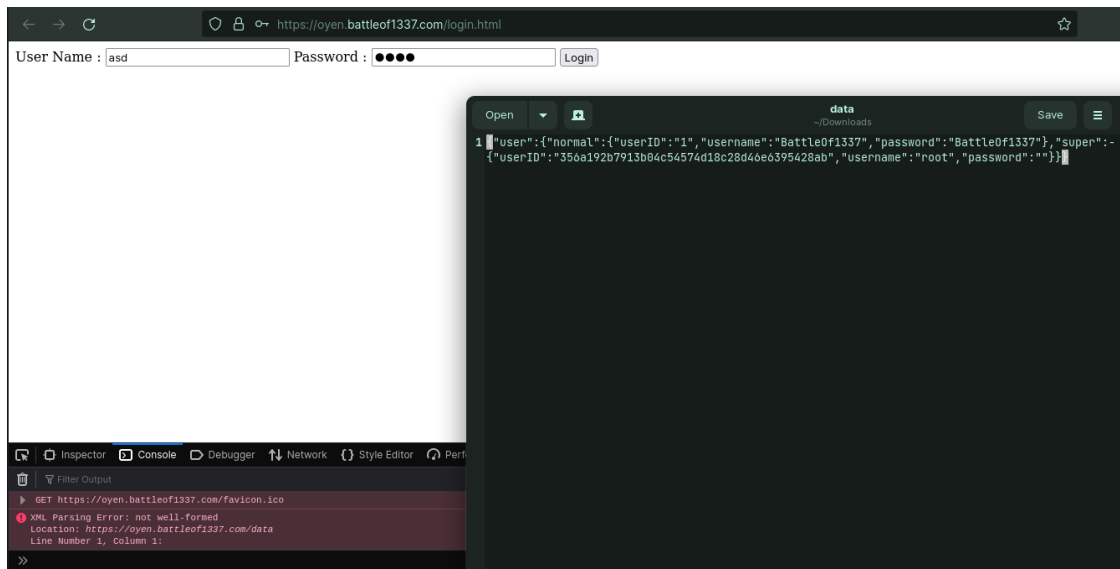
## BREAK THE STORAGE



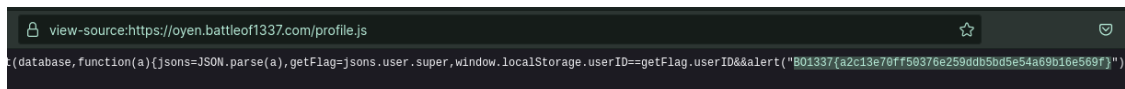
### STEPS OF REPLICATION

- there are a XML parsing error in the `console` tab, visiting the url that will download us a file which turns out to be the credentials for us to login.

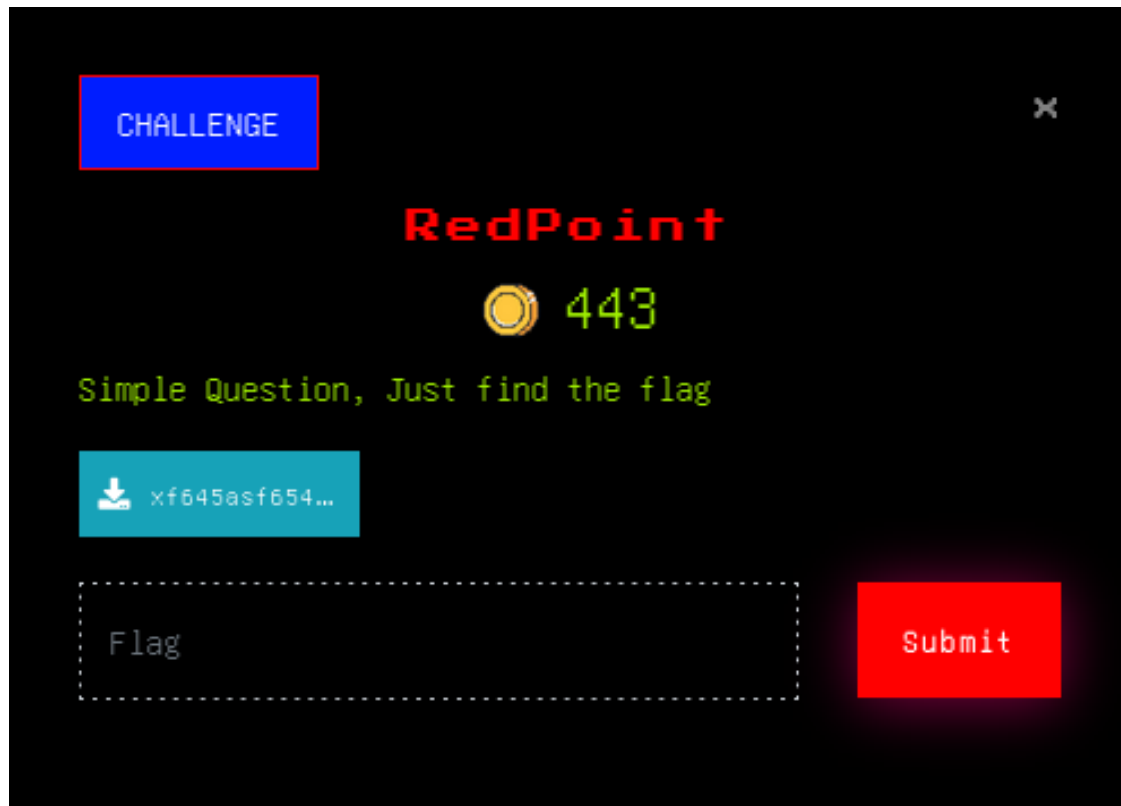




- upon successful login, viewing the source code reveal a js file which contains the flag



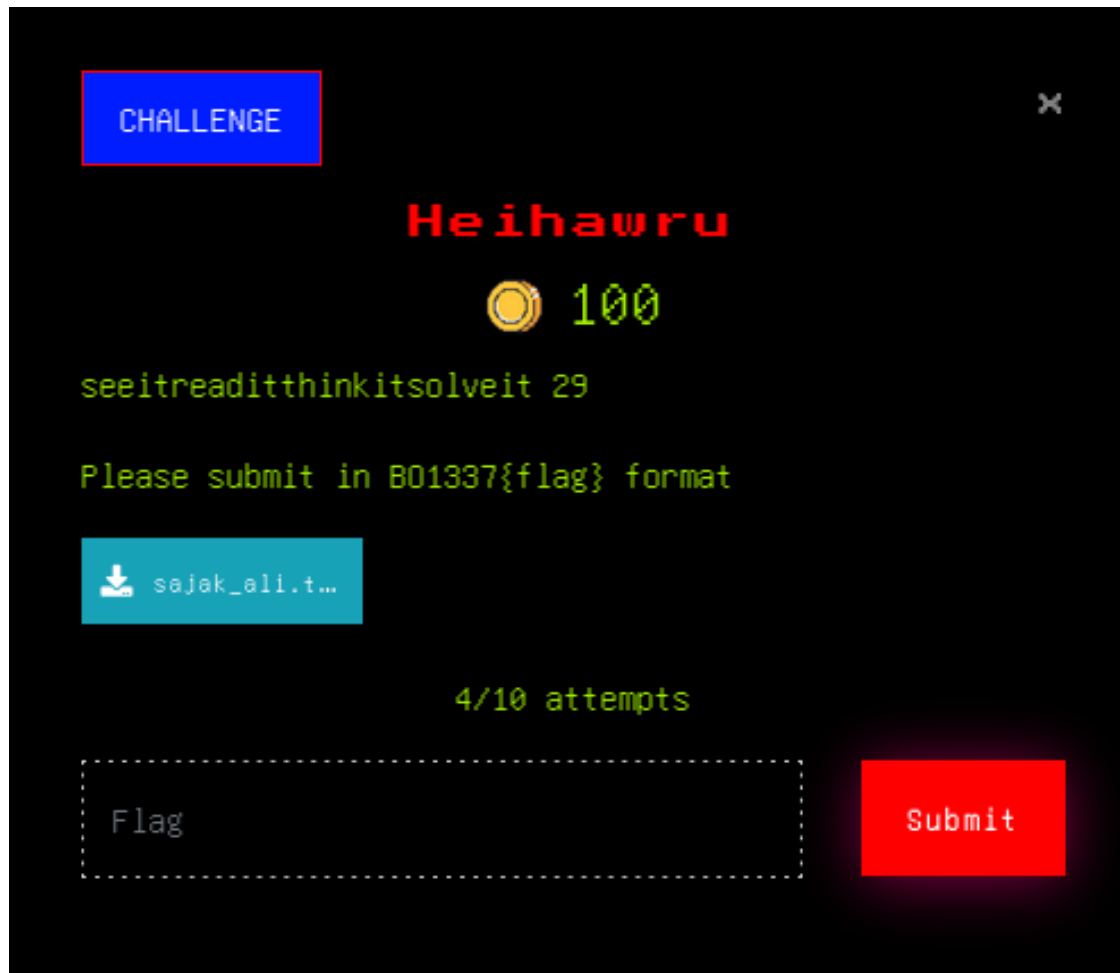
## REDPOINT



### STEPS OF REPLICATION

- this challenge shows us the flag which is the SCREWDRIVER

## HEIHAWRU



### STEPS OF REPLICATION

- the encoded text from downloaded file is **ROT13** crypto with 6 rotation, hence by using cyberchef we will retrieved the decoded text like below image

```

1 Assalamualaikum, dari jeneral
2 RAP, rythm and poetry
3 Terjemahannya ritma atas puisi
4 Jurucakap institusi puisi
5 Berjasa pada semua macam pensil 2B
6 Otak kanan tekan tubi pena jadi deltoid
7 Lagu minum protein rap suntik steroid
8 Dua kati creatine aku android
9 Datang sesekali impak asteroid (boom)
10 Aku kejam kuhilang kau rindu
11 Lepas tampar mau cium satu minggu
12 Jangan begitu jangan mengada
13 Macam mana boleh rindu Mawi kan ada kan?
14 (Assalamualaikum)
15 Realitinya ini 083
16 Bintang realiti kujadikan sarapan
17 Makan lima mangkuk tanya, mana sarapanku?
18 Makan lima mangkuk lagi, mana sarapanku?
19 Aku lapar, ya mana musuh terkini?
20 Aku bakar terbalikkan di pasar macam mussolini
21 Mana kundalini? tak kunjung tiba
22 Sakti jadi hiba tapi fokus
23 Chakra berputar-putar kejar titik lokus
24 Tafakur, asmara, semua posisi lotus
25 Yup, best of both worlds I'm the dopest
26 Look into the mirror, yup yup you the closest
27 I flip language like sandwich
28 Either side same phat shit like goddamn it
29 And if you got a problem with me being malay dude
30 Lets take it back to 1511
31 Ya, ya 1511
32 Jom bertikam lidah dengan hamba dalam aku
33 Aku pantang kalah, bangun bila jatuh
34 Kalau patah sayap bertongkatkan paruh (shhh)
35 Ku punya teman yang punya teman
36 Yang boleh buat engkau hilang teman
37 Jadi dari buat lawan, baik buat kawan
38 Dari bagi jari, baik angkat tangan
39 Sepuluh jari ke atas macam kena tangkap
40 Kalau ingkar kupotong tujuh jadi pengakap
41 Ikan duri, gelama, senohong, siakap
42 Rapper penipu pembohong semua ku pap pap
43 Bukan terhandal, bukan 7erkuat
44 Cuma terhandal dalam apa yang ku buat
45 Jadi bila general berucap, sampai darah gusi
46 Tolong ceraikan buntut dari kerusi
47 Bangun
48 Assalamualaikum, dari jeneral
49 RAP, rythm and poetry
50 Terjemahannya ritma atas puisi
51 Jurucakap institusi puisi
52 Berjasa pada semua macam pensil 2B
53 Otak kanan tekan tubi pena jadi deltoid
54 Lagu minum protein rap suntik steroid
55 Dua kati creatine aku android
56 Datang sesekali impak asteroid (boom)
57 Aku kejam kuhilang kau rindu
58 Lepas tampar mau cium satu minggu
59 Jangan begitu jangan mengada
60 Macam mana boleh rindu Mawi kan ada kan?
61 (Assalamualaikum)

```

- in the downloaded file, there are some code for us whereas the code is used to find the location of characters of the flag

5:6:2 6:1:1 31:3:1 15:3:3 15:3:3 43:4:1 27:2:1 32:3:1 33:1:1 41:3:1 38:3:4 24:2:2 10:5:4 41:5:3 45:6:3 35:1:1 15:3:3 1:3:3 36:2:2 34:1:1 45:2:3 21:2:2 17:1:2 11:4:2

COPY

- decoding it manually revealed the flag - > **BO1337FLAGISDARK3NOKLUAI**

## SHENG XIAO



### STEPS OF REPLICATION

- using an online tool to decode the code [HTTP://ZODIACKILLERCIPHERS.COM/TYPEWRITER/](http://zodiackillerciphers.com/typewriter/)



# ZODIAC TYPEWRITER

Make your own cipher text using Zodiac's symbols:

B01337(f4ec90216d2d7d5edb7c201919fce008e8)|

Your cipher:

B0000Aϕ70E3Δ@000000Δ0D0D0E0E08D0E0C0BΔC0000Δ00Δ7C0E00ΔE0Δ00000

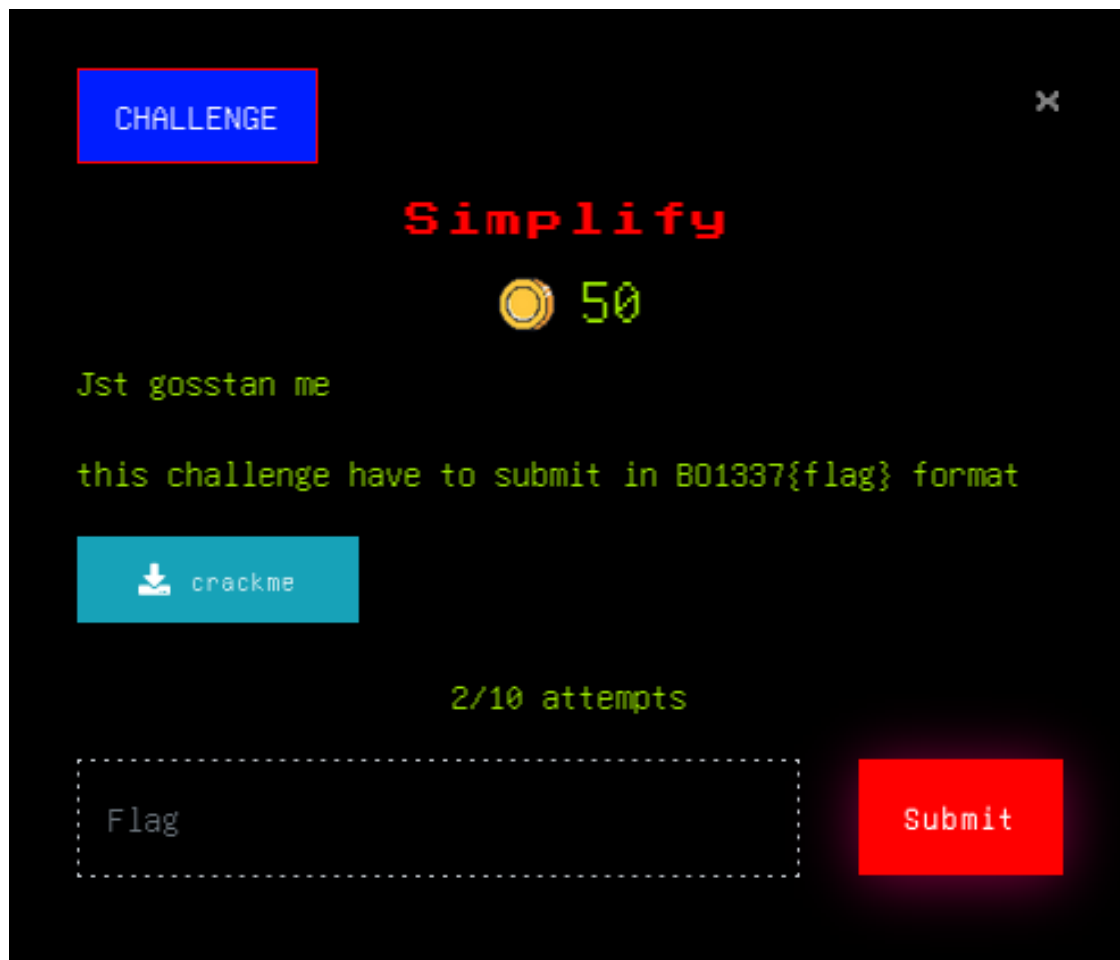
Available symbols:

hide

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | 8 | C | 3 | D | 0 | E | 3 | F | 7 | G | H | I | E | E | J | T | K | X | * |   |
| A | B | b | C | c | D | d | E | e | F | f | G | H | I | ! | : | ; | J | j | K | k | = |
| L | J | M | N | O | P | 9 | P | 0 | 0 | R | R | S | T | J | U | V | w | X | Y | Z |   |
| L | l | M | N | O | P | p | & | Q | q | R | r | S | T | t | U | V | W | X | Y | z |   |
| + | φ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| z | ( | ) | 1 | 2 | 3 | 4 | 5 | 6 | - | # | % | * | @ |   |   |   |   |   |   |   |   |
| + | - | . | / | < | > | \ | ^ |   | 0 | j | Ω |   |   |   |   |   |   |   |   |   |   |
| + | - | . | / | < | > | \ | ^ |   | 0 | j | Ω |   |   |   |   |   |   |   |   |   |   |

Click one of the symbols above to place it in your cipher.

## SIMPLIFY



### STEPS OF REPLICATION

- upload the executable on [HTTPS://DOGBOLT.ORG](https://DOGBOLT.ORG)
- using hexrays reveal an interesting function

### Hex-Rays C

7.7.0.220218

```
150 unsigned int v4; // [rsp+18h] [rbp-18h] BYREF
151 unsigned int v5; // [rsp+1Ch] [rbp-14h] BYREF
152 unsigned int v6; // [rsp+20h] [rbp-10h] BYREF
153 unsigned int v7; // [rsp+24h] [rbp-Ch] BYREF
154 unsigned __int64 v8; // [rsp+28h] [rbp-8h]
155
156 v8 = __readfsqword(0x28u);
157 printf("Enter code: ");
158 __isoc99_scanf("%i-%i-%i", &v4, &v5, &v6, &v7);
159 if ( 3 * v7 + v4 == 18044 && 3 * v6 * v5 == 5174190 && v4 == 1010 && v7 + 49363 * v6 == 63683948 )
160     printf("Correct code! The flag is %i-%i-%i-%i\n", v4, v5, v6, v7);
161 else
162     puts("Wrong code..");
163 return 0;
164 }
165 // 10B0: using guessed type __int64 __isoc99_scanf(const char *, ...);
166
167 //----- (00000000000012A0) -----
```

- all we have to do left is to solve the mathematics equation

v4 = 1010

v5 = 1337

v6 = 1290

v7 = 5678

COPY

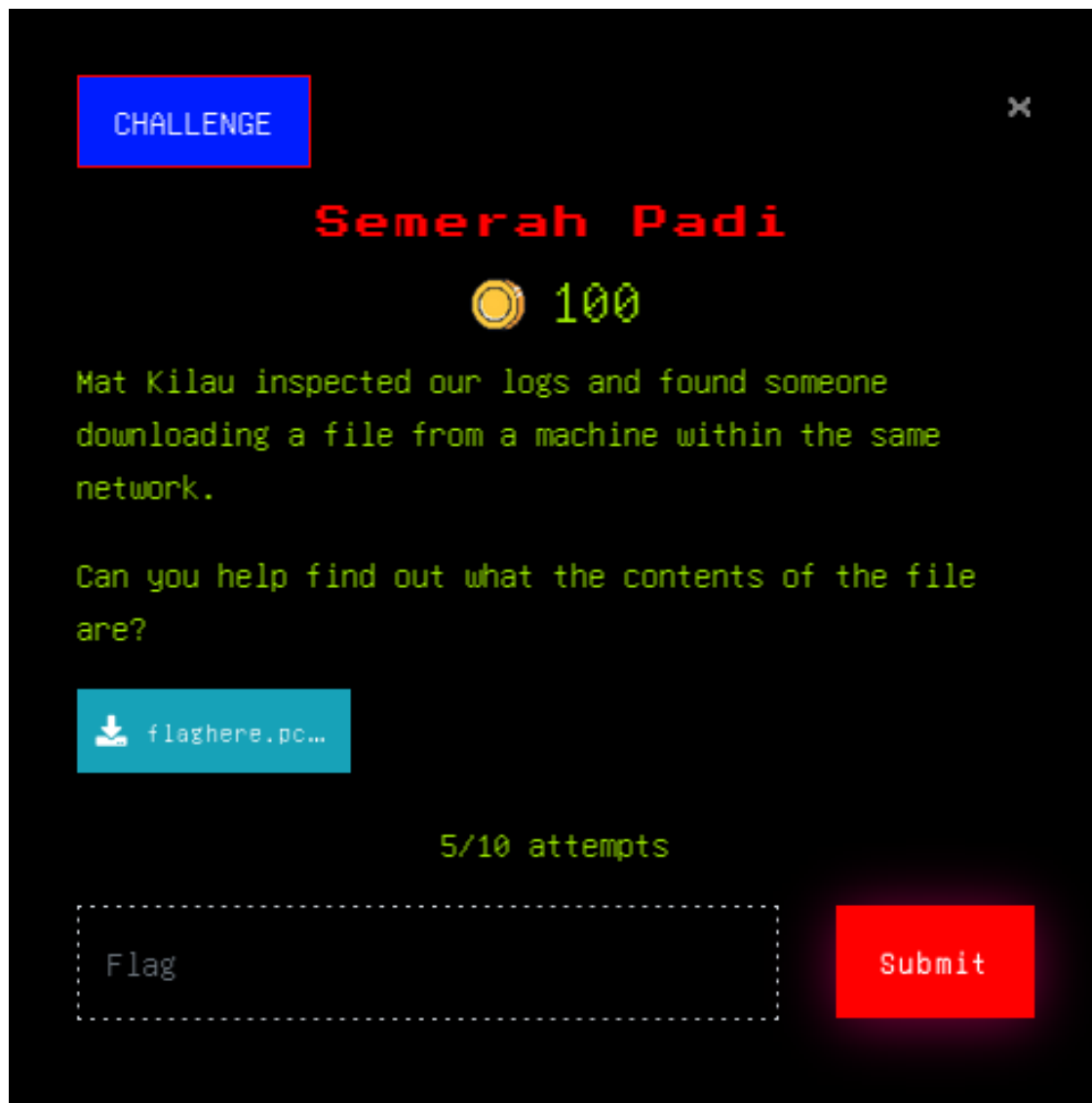
- input the code into the executable and we get our flag



```
~/Downloads  
./crackme  
Enter code: 1010-1337-1290-5678  
Correct code! The flag is 1010-1337-1290-5678  
~/Downloads  
0 vecna 0 > fish
```



## SEMERAH PADI



### STEPS OF REPLICATION

- upon opening the .PCAP file, we see a request to /FLAG

|    |           |              |              |      |      |       |       |          |            |         |           |           |          |                  |           |
|----|-----------|--------------|--------------|------|------|-------|-------|----------|------------|---------|-----------|-----------|----------|------------------|-----------|
| 7  | 36.617216 | 192.168.0.36 | 192.168.0.37 | TCP  | 74   | 54578 | →     | 31337    | [SYN]      | Seq=0   | Win=64240 | Len=0     | MSS=1460 | SACK_PERM=1      | TSval=... |
| 8  | 36.617605 | 192.168.0.37 | 192.168.0.36 | TCP  | 74   | 31337 | →     | 54578    | [SYN, ACK] | Seq=0   | Ack=1     | Win=65160 | Len=0    | MSS=1460         | SACK_P... |
| 9  | 36.617622 | 192.168.0.36 | 192.168.0.37 | TCP  | 66   | 54578 | →     | 31337    | [ACK]      | Seq=1   | Ack=1     | Win=64256 | Len=0    | TSval=4070910277 | TSe...    |
| 18 | 36.617691 | 192.168.0.36 | 192.168.0.37 | HTTP | 201  | GET   | /Flag | HTTP/1.1 |            |         |           |           |          |                  |           |
| 11 | 36.617995 | 192.168.0.37 | 192.168.0.36 | TCP  | 66   | 31337 | →     | 54578    | [ACK]      | Seq=1   | Ack=136   | Win=65152 | Len=0    | TSval=893119764  | TS...     |
| 12 | 36.618621 | 192.168.0.37 | 192.168.0.36 | TCP  | 269  | 31337 | →     | 54578    | [PSH, ACK] | Seq=1   | Ack=136   | Win=65152 | Len=203  | TSval=89311...   |           |
| 13 | 36.618622 | 192.168.0.37 | 192.168.0.36 | TCP  | 7306 | 31337 | →     | 54578    | [PSH, ACK] | Seq=204 | Ack=136   | Win=65152 | Len=7240 | TSval=89...      |           |

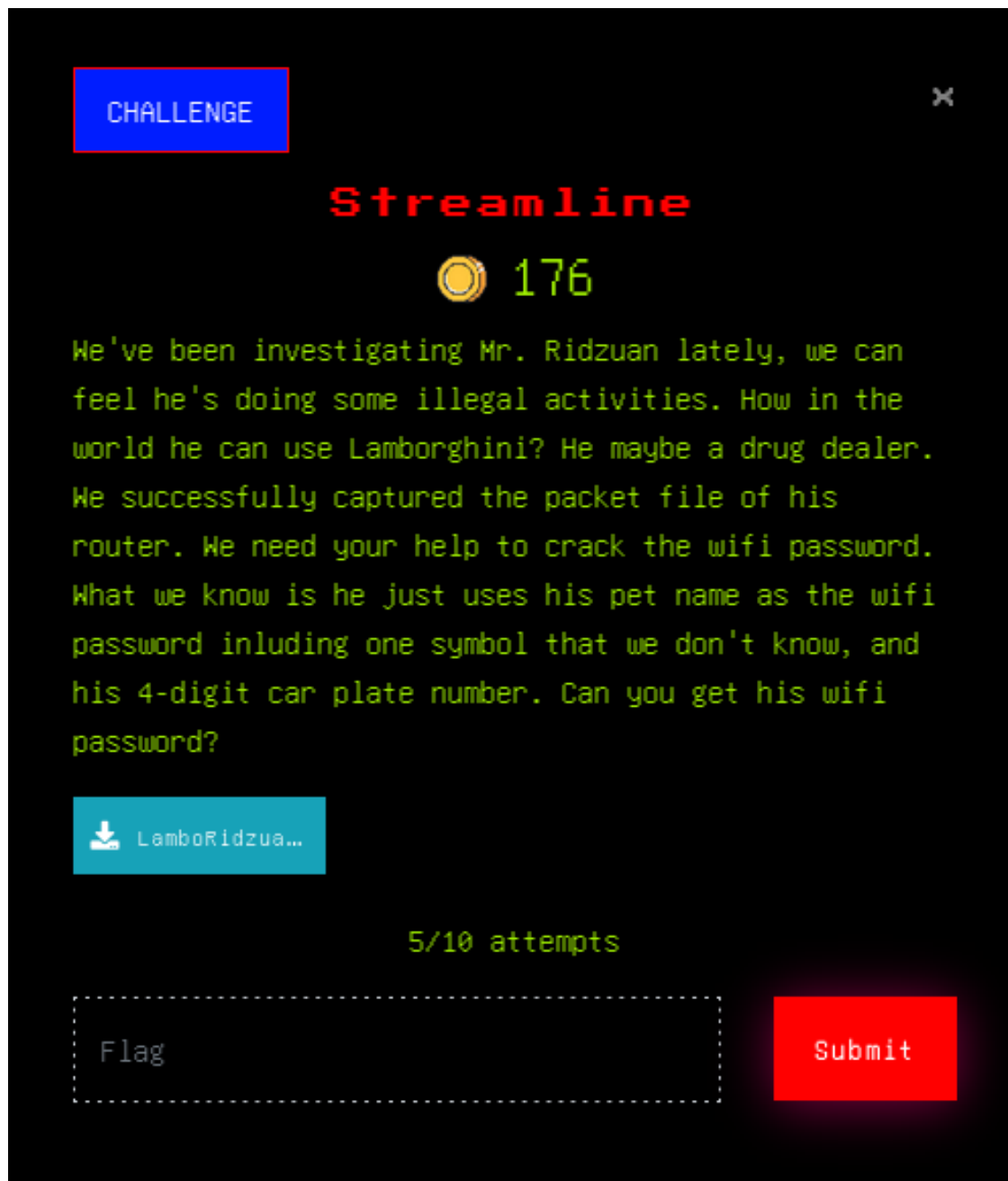
- follow the packets using **HTTP STREAM**, and we got a long ascii text, if we take a really really close look we can find somewhat peculiar string inside it.

```
Diam donec adipiscing tristique risus nec feugiat in fermentum. Scelerisque eu ultrices vitae auctor eu augue ut.
Duis at tellus at urna condimentum mattis. Malesuada pellentesque elit eget gravida cum. Gravida dictum fusce ut
placerat orci nulla. Lorem mollis aliquam ut porttitor https://pse1.o/wzUetp/atbncm5NAv Lectus sit amet est placerat.
Nec nam aliquam sem et tortor. Gravida in fermentum et sollicitudin ac orci. Dis parturient montes nascetur
ridiculus mus mauris vitae ultricies leo. Nisi lacus sed viverra tellus in hac. Dui nunc mattis enim ut tellus
elementum sagittis vitae et. Vivamus at augue eget arcu dictum varius duis at. Nec dui nunc mattis enim ut tellus.
Orci a scelerisque purus semper eget. Aliquet enim tortor at auctor urna.
Nibh praesent tristique magna sit amet purus gravida. Justo laoreet sit amet cursus sit amet dictum. Quis enim
```

- i figured this is an url by the way it was scrambled and its characters. the way we can decode this is by reading the characters from front then back. we will get a pastebin link [HTTPS://PASTEBIN.COM/5WNzAUVE](https://PASTEBIN.COM/5WNzAUVE) which gives us two audio file
- i use several tools online to view its spectrogram, but the one that working is [HTTPS://WWW.SONICVISUALISER.ORG/](https://WWW.SONICVISUALISER.ORG/) and we got the flag.



## STREAMLINE



### STEPS OF REPLICATION

- using STEGHIDE to reveal its hidden file inside the image

```

(root@kali)-[~/Downloads]
# steghide extract -sf LamboRidzuan.jpg
Enter passphrase:
wrote extracted data to "handshake.cap".

(root@kali)-[~/Downloads]
# █

```

- based on the challenge description, we will need to crack the the handshake captured using the info given. seeing an orange cat and there's one challenge called oyen, we can safely assume that the name of the cat is oyen. hence we can generate a wordlist like image below using CRUNCH

```

(root@kali)-[~/Downloads]
# crunch 9 9 -t oyen^%%> pls.txt
Crunch will now generate the following amount of data: 3300000 bytes
3 MB
0 GB
0 TB
0 PB
Crunch will now generate the following number of lines: 330000

(root@kali)-[~/Downloads]
# █

```

- we can next crack the .CAP file using AIRCRACK-NG

```
Aircrack-ng 1.6

[00:00:03] 20520/330000 keys tested (6152.09 k/s)

Time left: 50 seconds                                6.22%

KEY FOUND! [ oyen@9367 ]

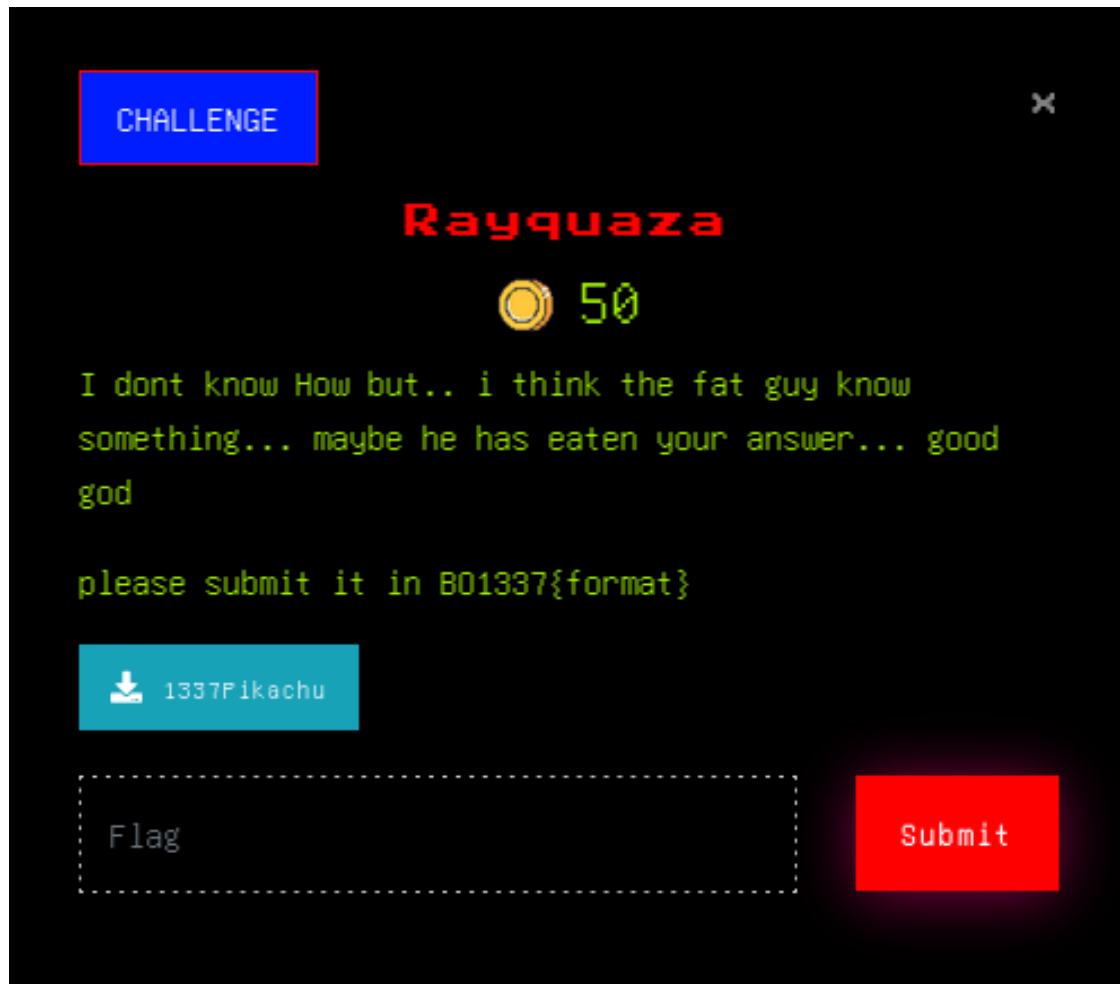
Master Key      : E7 F0 93 EC 46 85 39 40 10 90 31 B3 62 CE E0 13
                  77 9E A4 F8 A5 07 00 F8 33 4B 1F 7A 22 BA D5 57

Transient Key   : 0B 56 BD 4D AF AD 2B 8D 4E A8 CF EC 26 3E C3 5D
                  AC CC 49 8D D3 AD CC AB 73 B9 15 02 3B 90 1F 10
                  6A 1D BB 51 41 84 B3 5D EA D0 94 C4 B3 77 4B 62
                  71 E1 D6 5F 88 B8 D6 F8 57 D4 4F DF D4 A9 BF 98

EAPOL HMAC     : 8B D0 54 60 09 84 7E 11 0A 17 83 CA 4A 7D 1B 11

(root@kali)-[~/Downloads]
# aircrack-ng handshake.cap -w pls.txt
```

## RAYQUAZA



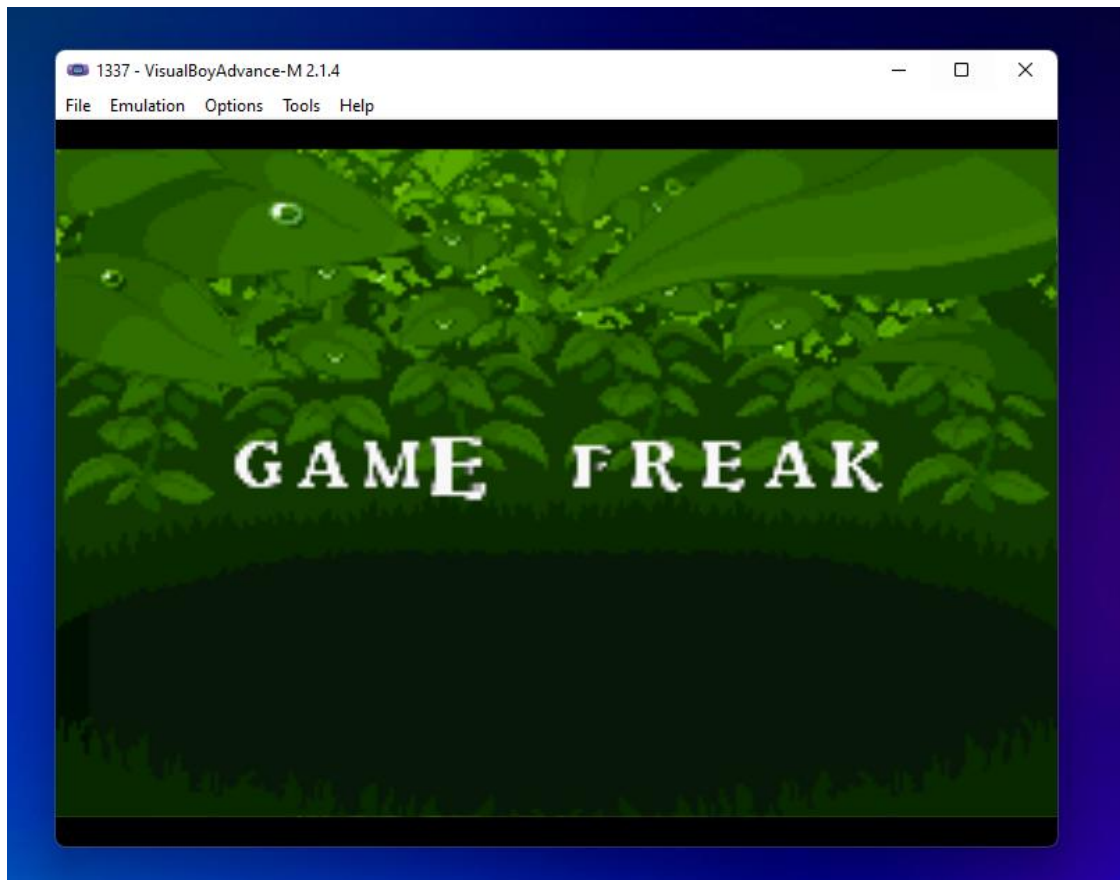
### STEPS OF REPLICATION

- we can run `FILE` to the executable and take note of what its filetype is

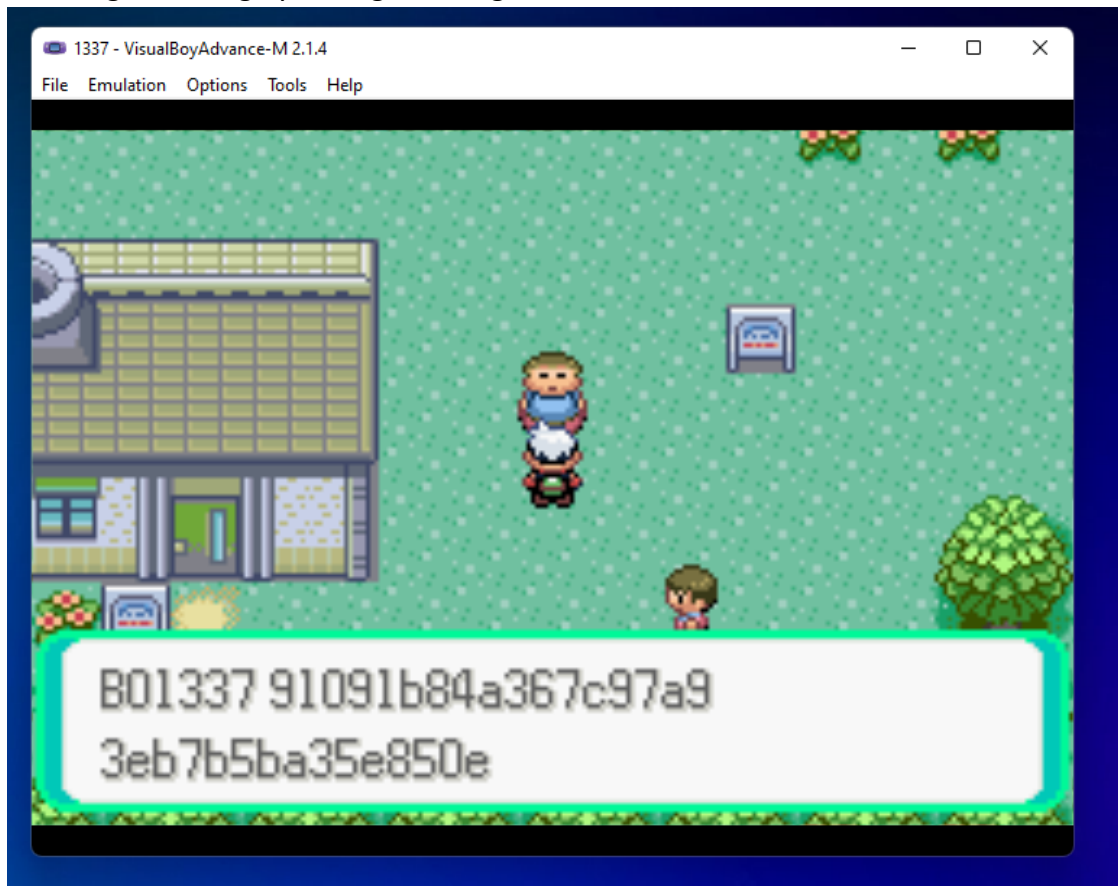
```
(root@kali)-[~/Downloads]
# file 1337Pikachu
1337Pikachu: Game Boy Advance ROM image: "POKEMON EMER" (BP0001, Rev.00)

(root@kali)-[~/Downloads]
#
```

- googling Game Boy Advance's extension gives us .GBA which we can rename the file to.
- i use an emulator from github that has a release for windows, so i then next transferred the .GBA file into my windows vm. <https://github.com/visualboyadvance>



- we can get the flag by talking to a neighbour





## BACK TO THE FUTURE

CHALLENGE

✕

Back To The Future

 50

- Delorean if only we can see back our pass is it great?

view Hint

7/10 attempts

Flag

Submit

### STEPS OF REPLICATION

- by using the wayback machine, we can find the flag

[HTTPS://WEB.ARCHIVE.ORG/WEB/20220704083124/HTTPS://B2F.BATTLEOF1337.COM/](https://web.archive.org/web/20220704083124/https://b2f.battleof1337.com/)



Jason Bourne

Artartic last seen

omgjasonbourne@gmail.com


BO1337{aHR0cHM6Ly9veW0uY2F0bWUuY2Y=}

## 1GRAM



### STEPS OF REPLICATION

- by clicking any one of the card, we get a hint to visit someone's Instagram



**Mira Hazura**  
mikrahazura@gmail.com

**FOLLOW**

1503 Friends    2905 Followers    1200 Following

### Contact Details

**Email address**  
mikrahazura@gmail.com

**Phone Number**  
+60189\*906\*6


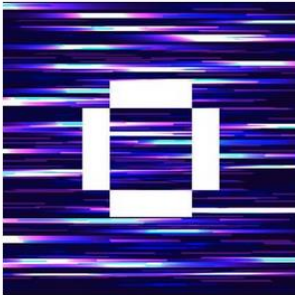
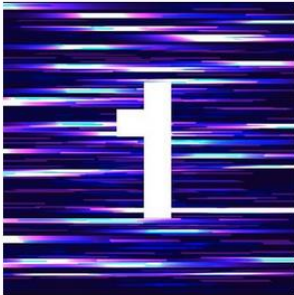
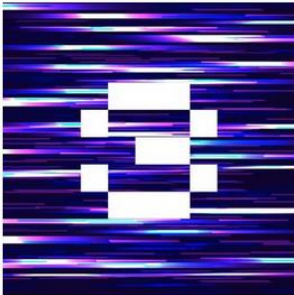
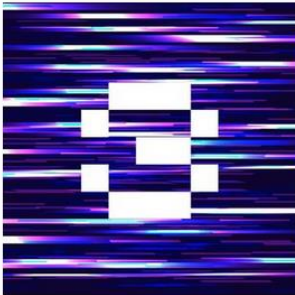
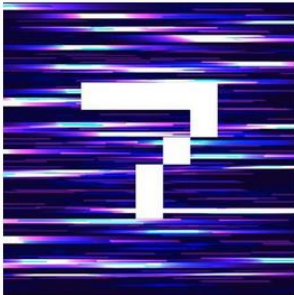

**Birthday**  
Nov 15, 1990


**Event**  
Im the clue you looking for please follow me at  
instagram @mikrahazura

- in the user profile, we can see few images that reveals part of the flag.

POSTS

TAGGED

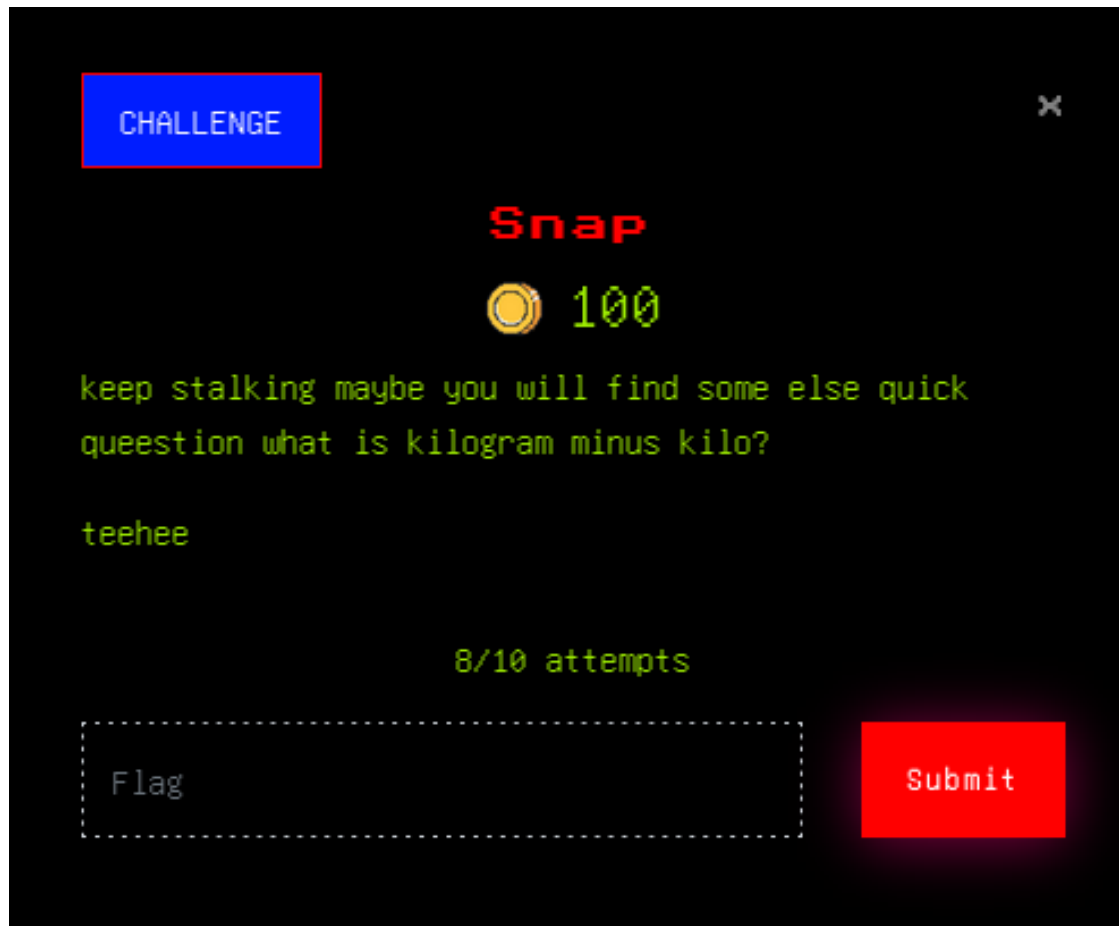


**Log into Instagram**  
Log in to see photos and videos from friends and discover other accounts you'll love.

**Log in**  
[Sign Up](#)

- in one of those images, there are few people tagged, hence by viewing each one of them, we can retrieve the full flag -> **BO1337{S74LK\_4P4\_7U?}**

## SNAP



### STEPS OF REPLICATION

- on each of profiles that we retrieved the flag from previous challenge, notice that the user profile picture is somewhat related to each other. by inspecting the element and get the url path of the image, we can arrange the full image.

```
100px; width: 101px; height: 101px; canvas:
▼ <span class="_aa8h" role="link" style="width: 150px; height: 150px;" tabindex="-1">
   [event]
  ::after
```

- all that's left is to arrange the image, so we can get the idea where it is the location. i use canva to arrange the images.



- the image that we are looking at is the station of Imbi hence the flag is -> **BO1337{IMBI}**