Files

main

Go to file t

- 1337UP_2022
- UTCTF_2022
- VishwaCTF_2022
  - Cryptography
  - Forensic
  - Misc
  - OSINT
    - Platypus_Perry
      - files
      - img
        - README.md
      - Rocket_Raccoon
      - The_Library
      - README.md
      - solved.png
- picoCTF_2022
- .gitignore
- README.md

CTFwriteups / VishwaCTF_2022 / OSINT / Platypus_Perry /

Add file

LambdaMamba Update challengenew.png 8b47e9f · 2 years ago History

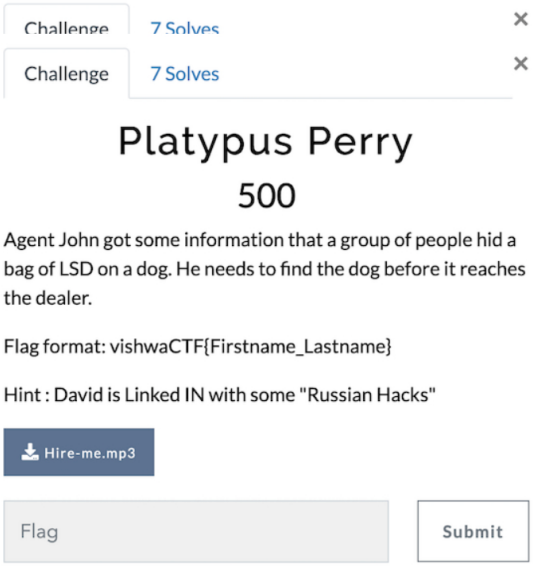
Name	Last commit message	Last commit date
..		
files	Added writeup for VishwaCTF Platypus Perry	2 years ago
img	Update challengenew.png	2 years ago
README.md	Merge branch 'main' of https://github.com/LambdaMamba/CTFwriteups	2 years ago

README.md

Platypus Perry (Category: OSINT)

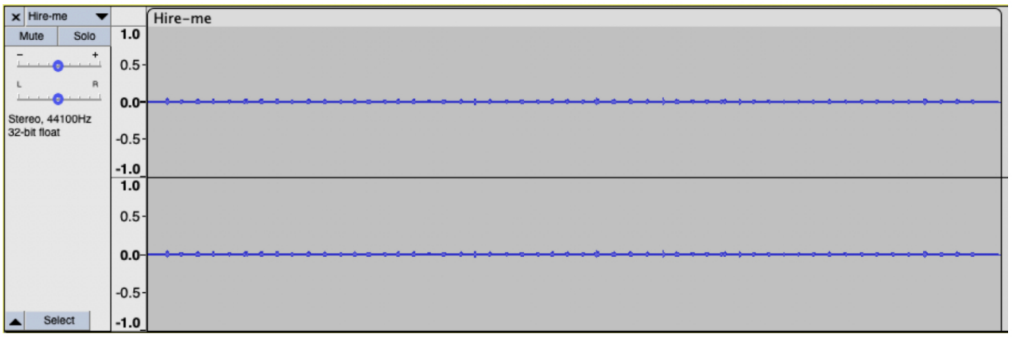
This challenge was an emotional rollercoaster, where I experienced the downs of multiple incorrect submissions and the highs of being the first to solve the challenge.

The challenge is the following,

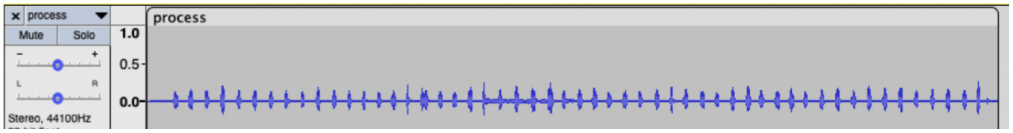


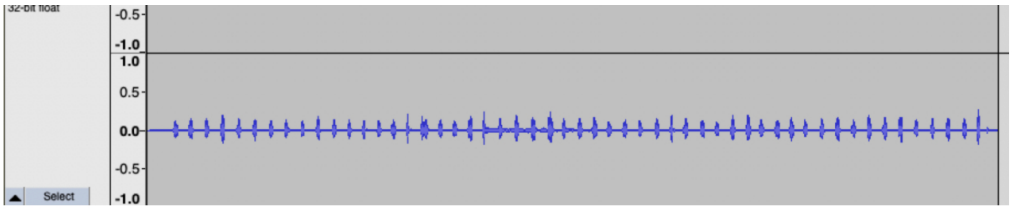
Here, we are given the file Hire-me.mp3. The challenge description says `Agent John got some information that a group of people hid a bag of LSD on a dog. He needs to find the dog before it reaches the dealer.`, which is a pretty ambiguous challenge description but tells us that we should be looking for a `dog`.

When I listened to Hire-me.mp3, I couldn't make out anything meaningful, so I opened it up on Audacity.



It sounded like it was in reverse, so I reversed the audio and amplified it.





This processed audio file can be found in Hire-me-rev.mp3.

I listened to the audio and wrote down the letters, which gave me,

```
nierbrustiushcihwgnihtemosulletthgimlabmobdivadyugruo
```

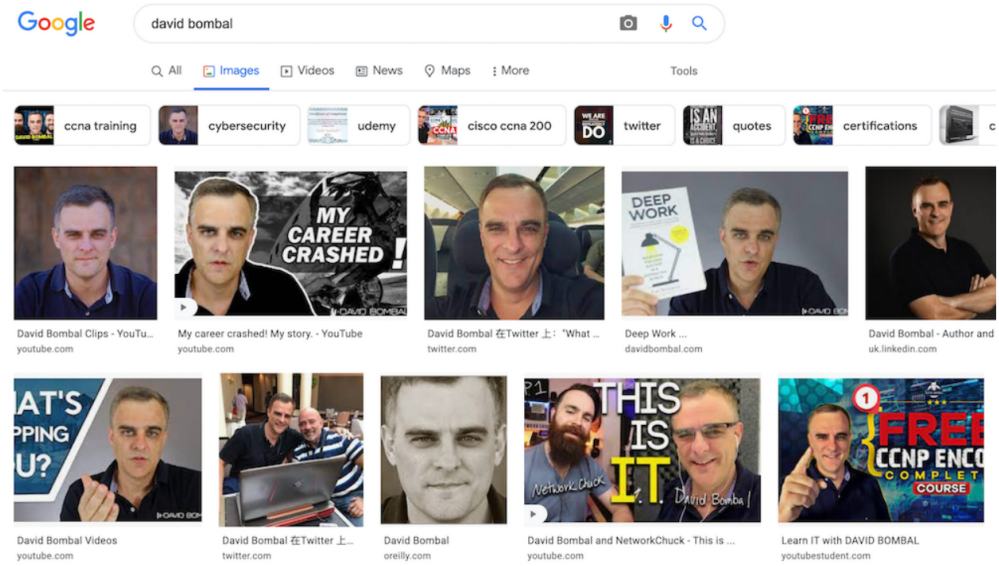
Since the audio was in reverse, I assumed this text might also be in reverse, so I went ahead and reversed the text,

```
ourguydavidbombalmighttellusomethingwhichsuitsurbrein
```

And I added spaces to the text,

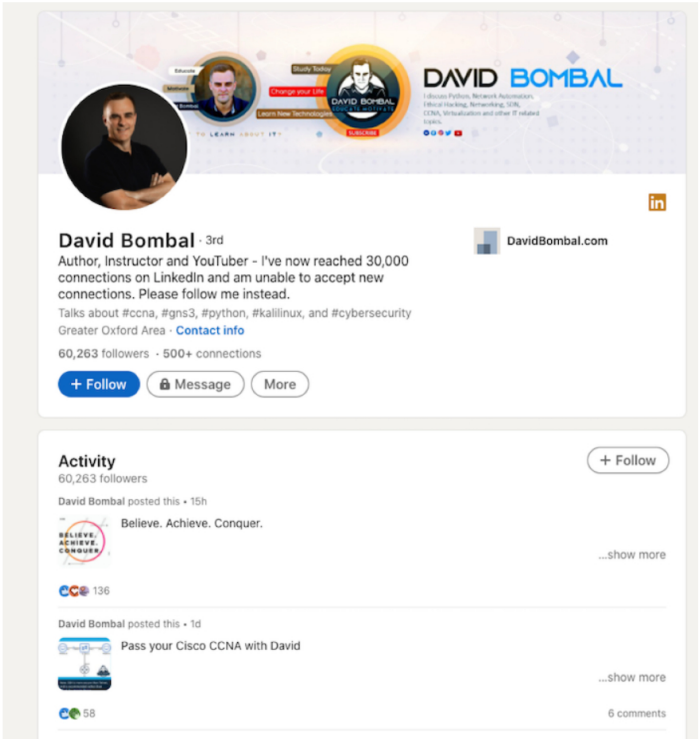
```
our guy david bombal might tell u something which suits ur brein
```

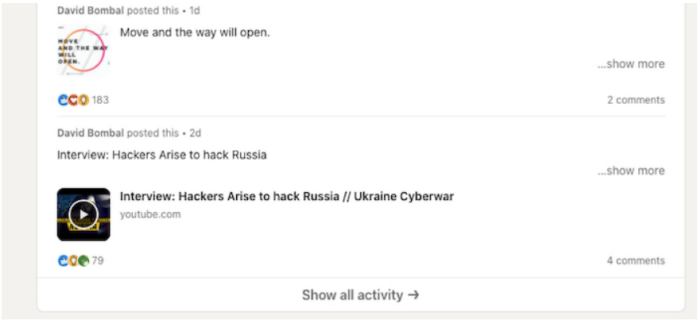
Now we know the next step would involve `David Bombal`, who is a well-known guy in the infosec community and has a lot of websites and accounts associated with him.



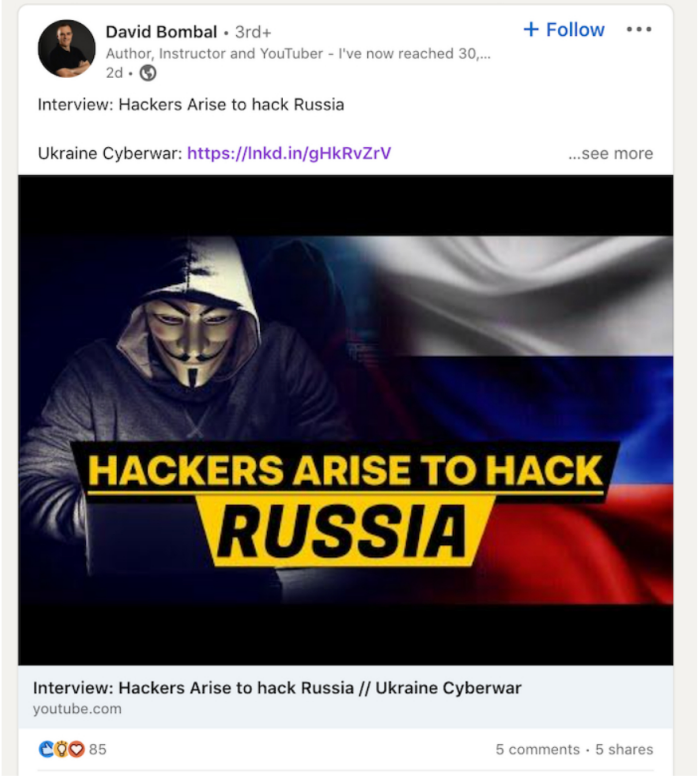
The hint in the challenge says `Hint : David is Linked IN with some "Russian Hacks"`, which hints to looking up his LinkedIn, and find something related to `Russian Hacks`.

His LinkedIn looks like the following,

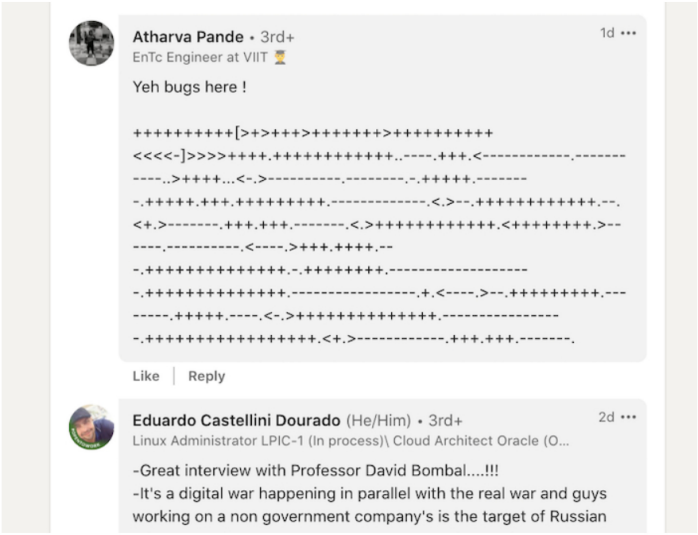




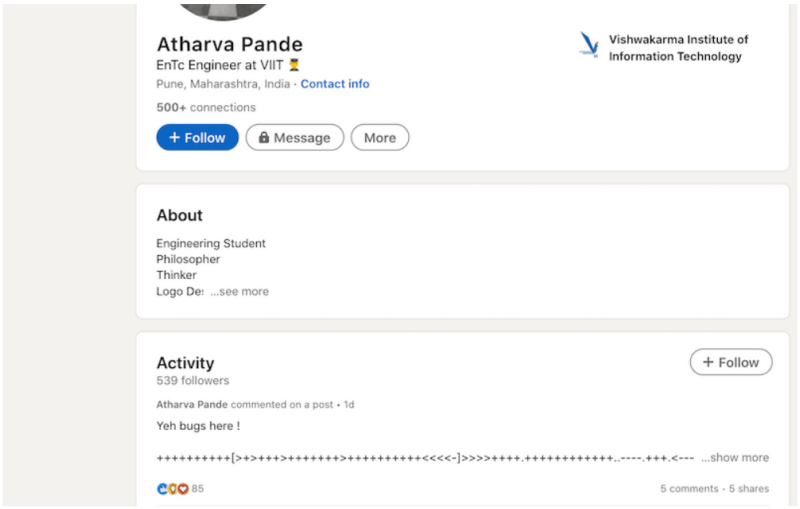
If we look closely, there is indeed a post related to `Russian Hacks`.



And in the comments, I saw the following comment.



I went ahead and checked Atharva Pande's LinkedIn,

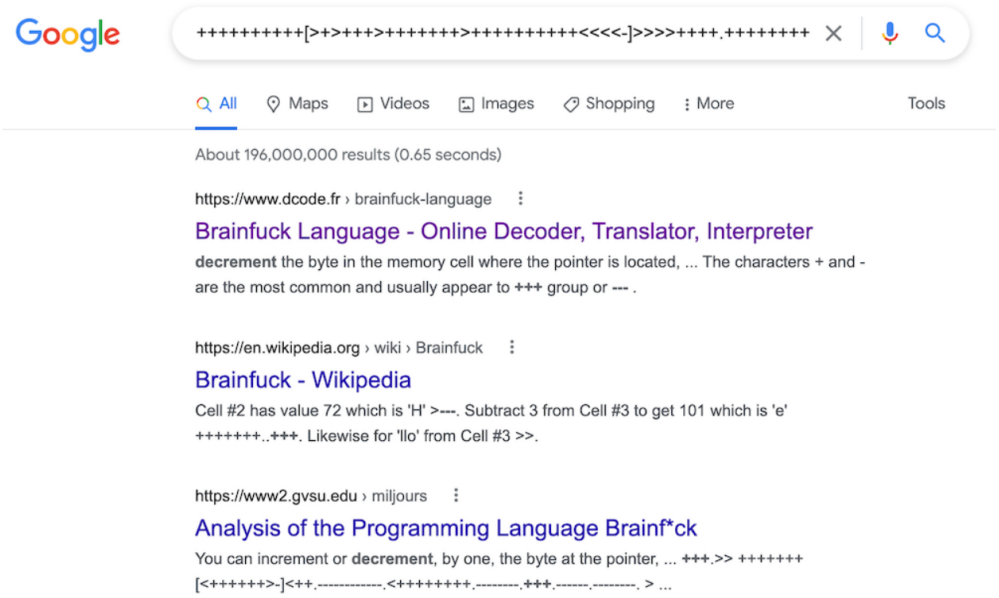


This person was from `Vishwakarma Institute of Information Technology`, which is a gold sponsor for VishwaCTF so I assumed the comment this person made was one of the clues to this challenge.

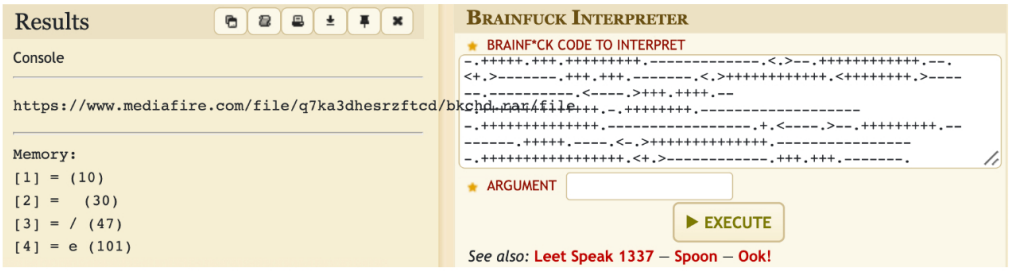
I isolated the cipher-like section of Atharva Pande's comment, and put it into brainfk.txt

```
++++++++++[>+>+++>+++++++>++++++++++<<<<-]>>>>++++.++++++++++..----.+++.<------------.-----------..>++++...<-.>----------.---
```

I wasn't exactly sure what type of cipher it was using, so I copied and pasted it into Google to get some hints.



So apparently, it was using Brain F*ck, so I went ahead to a Brain F*ck Decoder.



Decoding this gave me the following URL,

`https://www.mediafire.com/file/q7ka3dhesrzftcd/bkchd.rar/file`

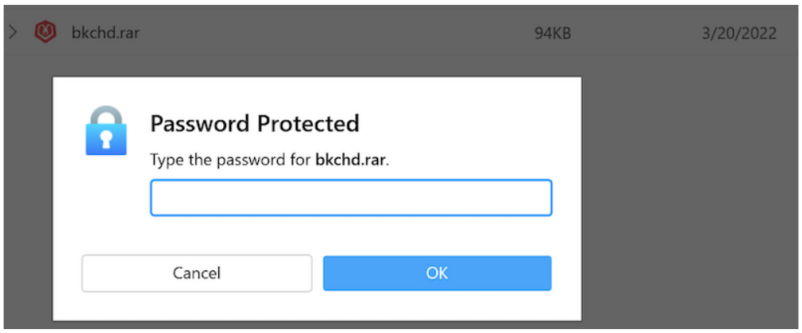
Accessing this Media Fire Link gave me the following,

Uploaded: 2022-03-14 10:01:42

About Compressed Archive Formats

Compressed archives combine multiple files into a single file to make them easier to transport or save on diskspace. Archiving software may also provide options for encryption, file spanning, checksums, self-extraction, and self-installation. Zip is the most-widely used format, used by the Windows operating system and more recently by OSX as well. RAR is also a very popular and flexible format. Unix uses the tar file format, while Linux uses the tar and gz format.

I went ahead and downloaded bkchd.rar, but unfortunately, it was password protected.



I tried to crack this .rar file using John the Ripper. A couple of hours passed, but no password candidate was found.

At this time, a new hint was added,

Challenge hints

> Platypus Perry and Foggy has some password encrypted rar files and the bruteforcing pwd is 5 letter alphabets. Hope this helps
>
> March 20th, 8:16:24 PM

Now I know that the password length is 5 characters, which drastically reduces the brute-forcing time.

So I downloaded rockyou.txt from here, unzipped it, and isolated all the 5 character passwords into rock5.txt with,

```
$ grep -E '^.{5}$' rockyou.txt > rock5.txt
```

So now I just needed to use rock5.txt as the wordlist for John the Ripper.

I went ahead and made the hash using

```
$ sudo rar2john bkchd.rar > rarhash
```

And crack with John using rock5.txt as the wordlist,

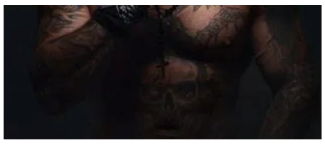
```
$ john --wordlist=rock5.txt rarhash
```

After a few minutes, John has found the password, which is

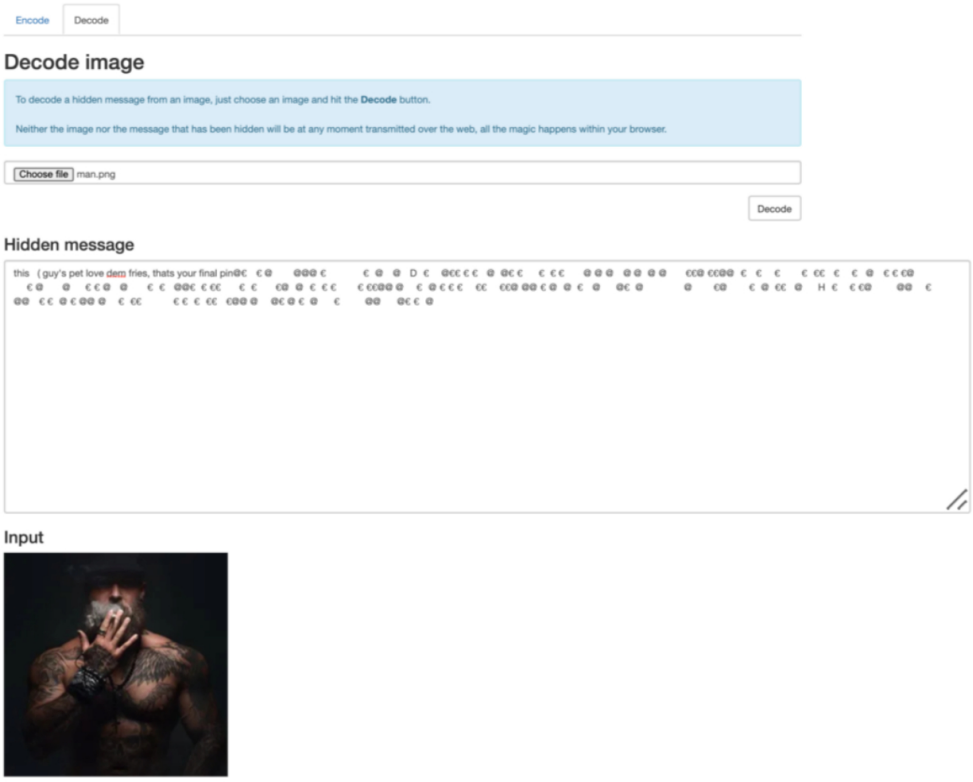
`idgaf`

```
┌──(root💀kali)-[/home/kali/Desktop]
└─# sudo rar2john bkchd.rar > rarhash                                    1 ×
! file name: bkchd.png

┌──(root💀kali)-[/home/kali/Desktop]
└─# john --wordlist=rock5.txt rarhash
Using default input encoding: UTF-8
Loaded 1 password hash (rar, RAR3 [SHA1 256/256 AVX2 8x AES])
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
idgaf            (bkchd.rar)
1g 0:00:07:03 DONE (2022-03-21 10:44) 0.002360g/s 383.0p/s 383.0c/s 383.0C/s
ifems..hydri
Use the "--show" option to display all of the cracked passwords reliably
Session completed.

┌──(root💀kali)-[/home/kali/Desktop]
└─#
```

I went ahead and opened bkchd.rar with the password `idgaf`, and inside was the following picture.



I checked for steganographic messages using Steganography Online ,

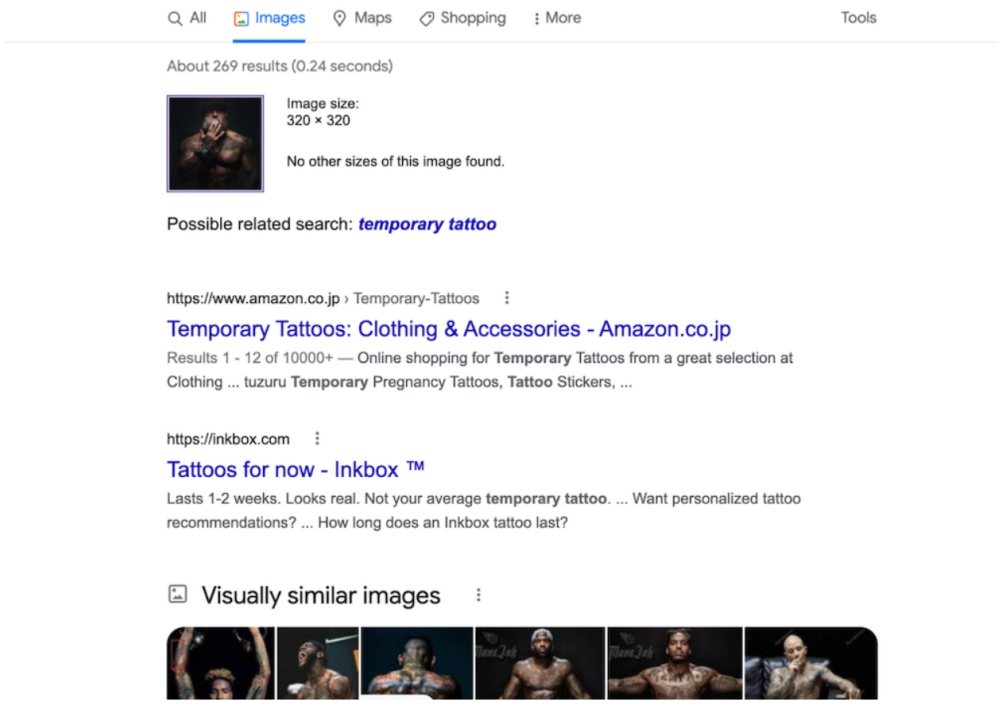


As shown above, some text was contained in this image, which I put into decodedsteg.txt.

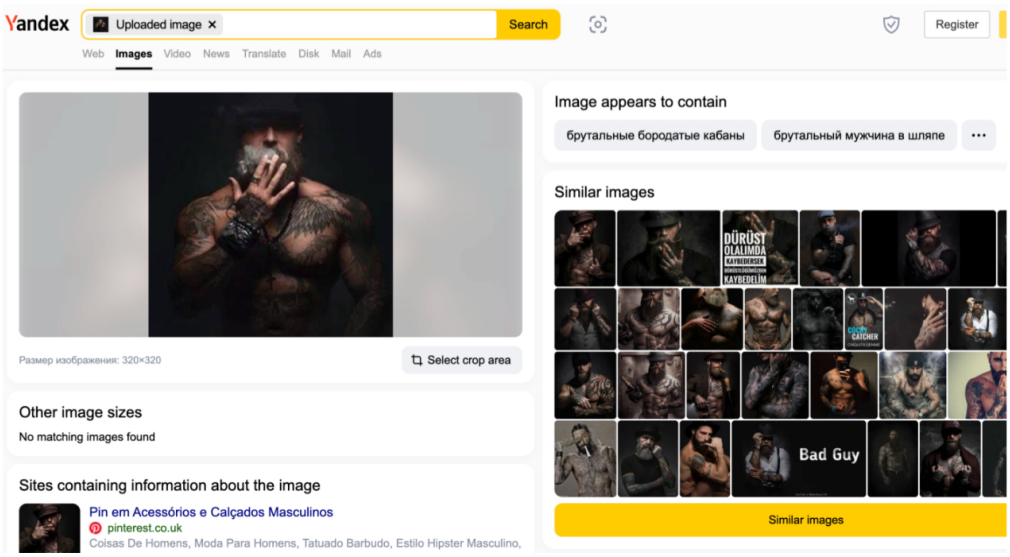
```
this  ( guy's pet love dem fries, thats your final pin@◆◆ @  @@@◆   ◆@@ D◆ @◆◆◆◆ @ @◆◆◆ ◆ ◆@◆◆◆ @ @@ ◆◆@◆◆@@◆◆◆
```

I didn't know what this was supposed to mean and assumed it was saying that this guy's pet, more specifically, the dog is what we're supposed to look for.

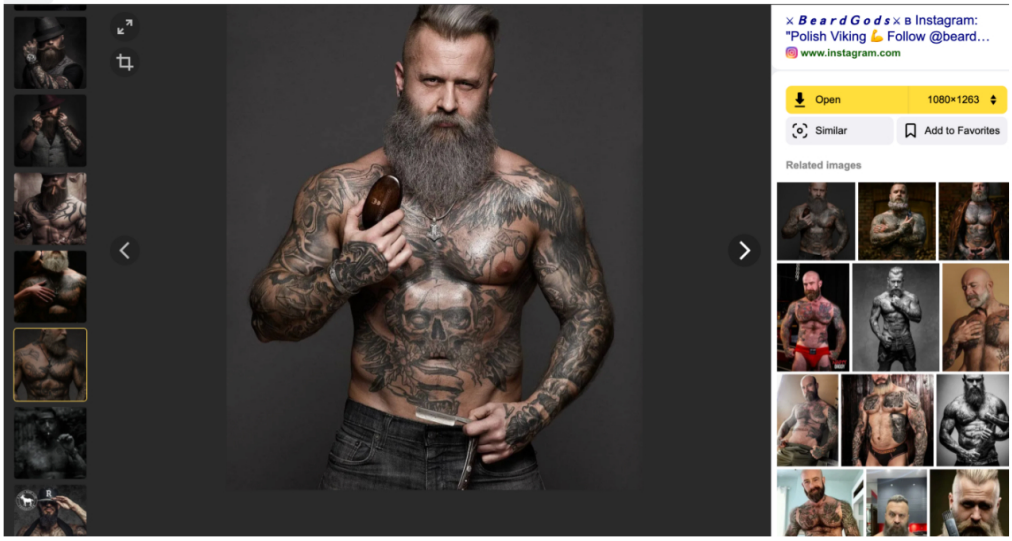
So I did a reverse image on Google using bkchd.png.



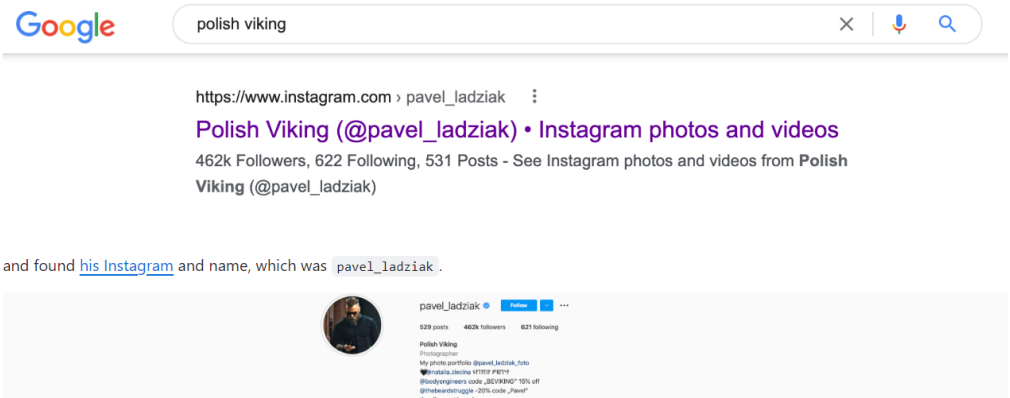
However, nothing much came up except for other men with tattoos. So I went Yandex to do a reverse image search.



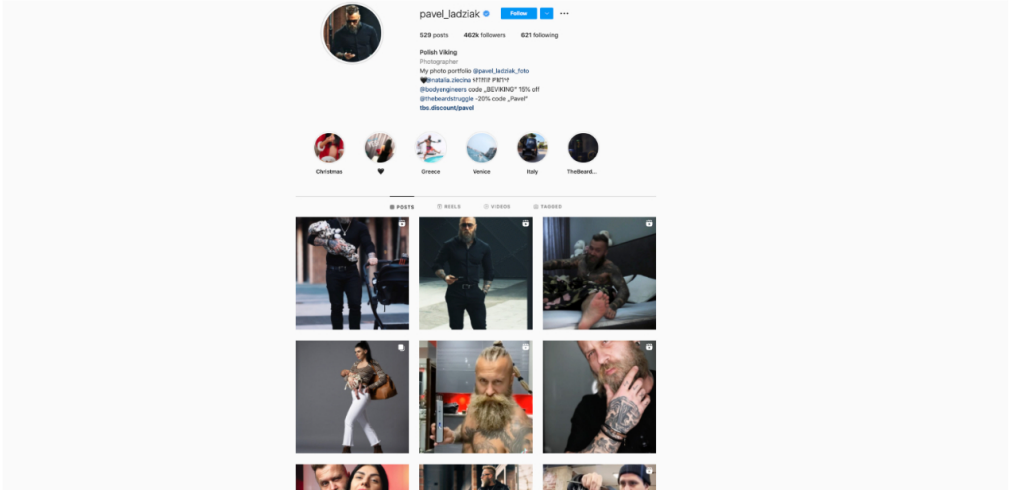
By looking for his distinctive beard and tattoo through the reverse image search results, I noticed that most of them had the name `Polish Viking` on them, so I assumed that was his nickname.

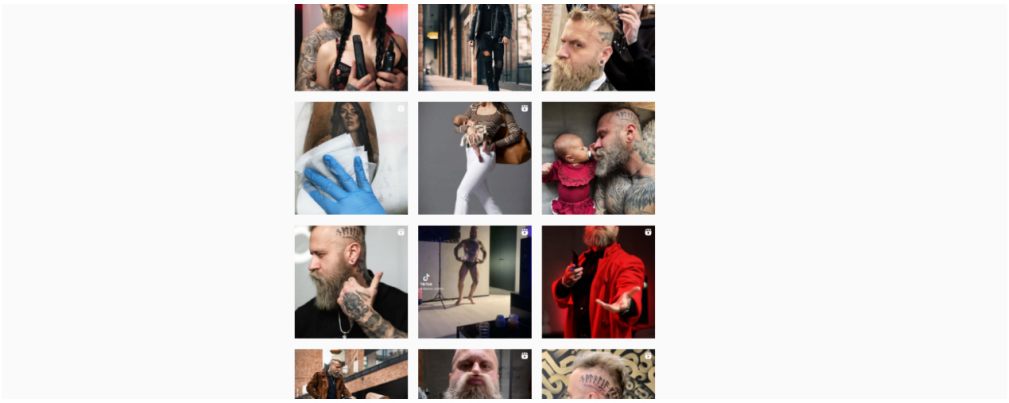


So I looked up `Polish Viking`,

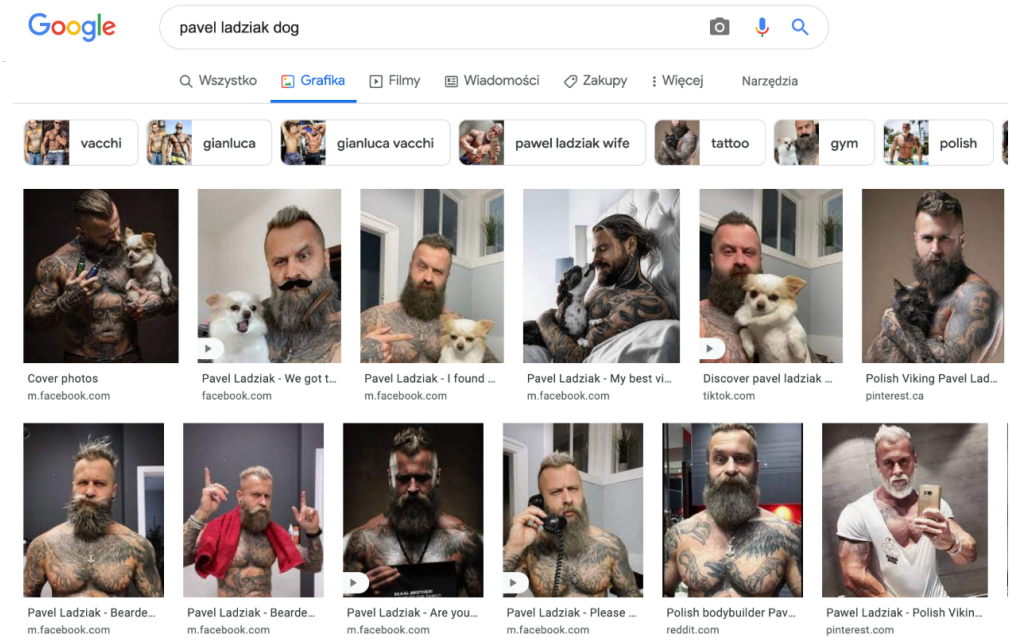


and found his Instagram and name, which was `pavel_ladziak`.



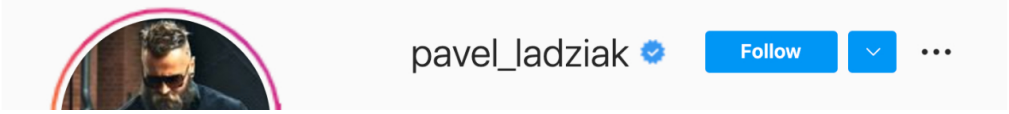


I went to Google and changed the language settings to Polish to get the most out of the results, and looked up `pavel ladziak dog`, which showed me that his dog was a toy dog with white and beige coloration.

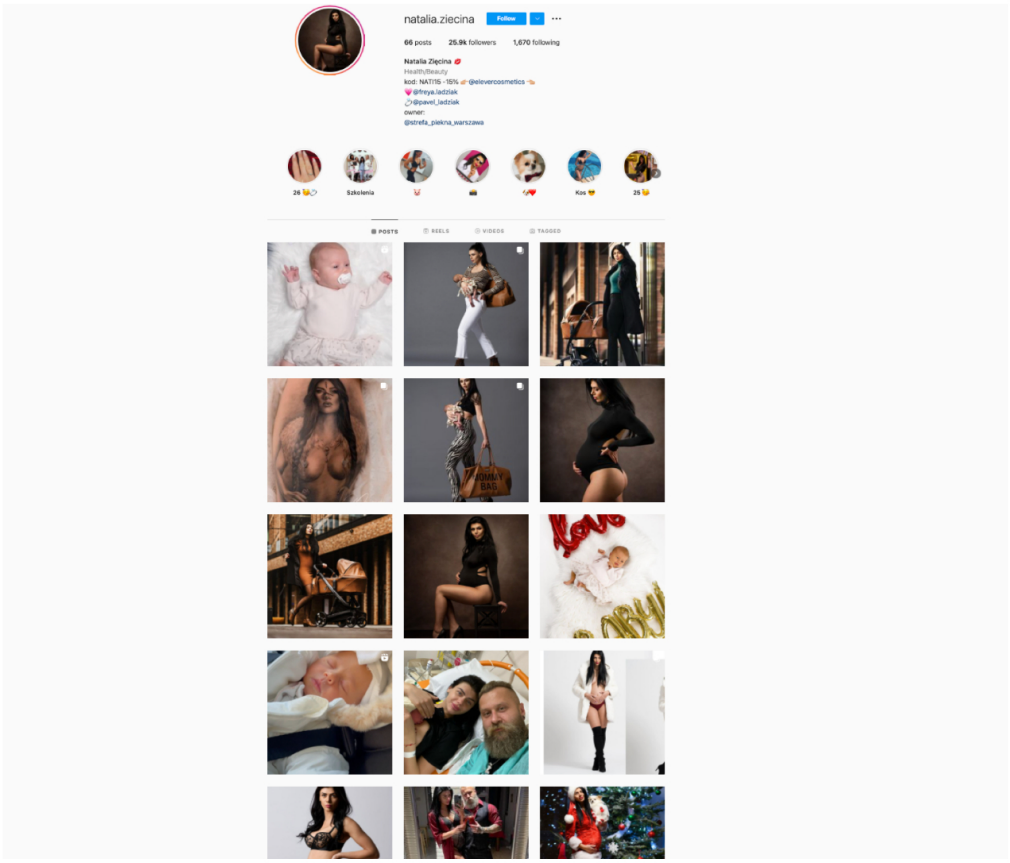


I dug through his Instagram, and found a few pictures with his dog,

However, I could not find the name of his dog. I was thinking to look through his followings list to find his dog, but I assumed that his wife might be more likely to tag their dog in the pictures.



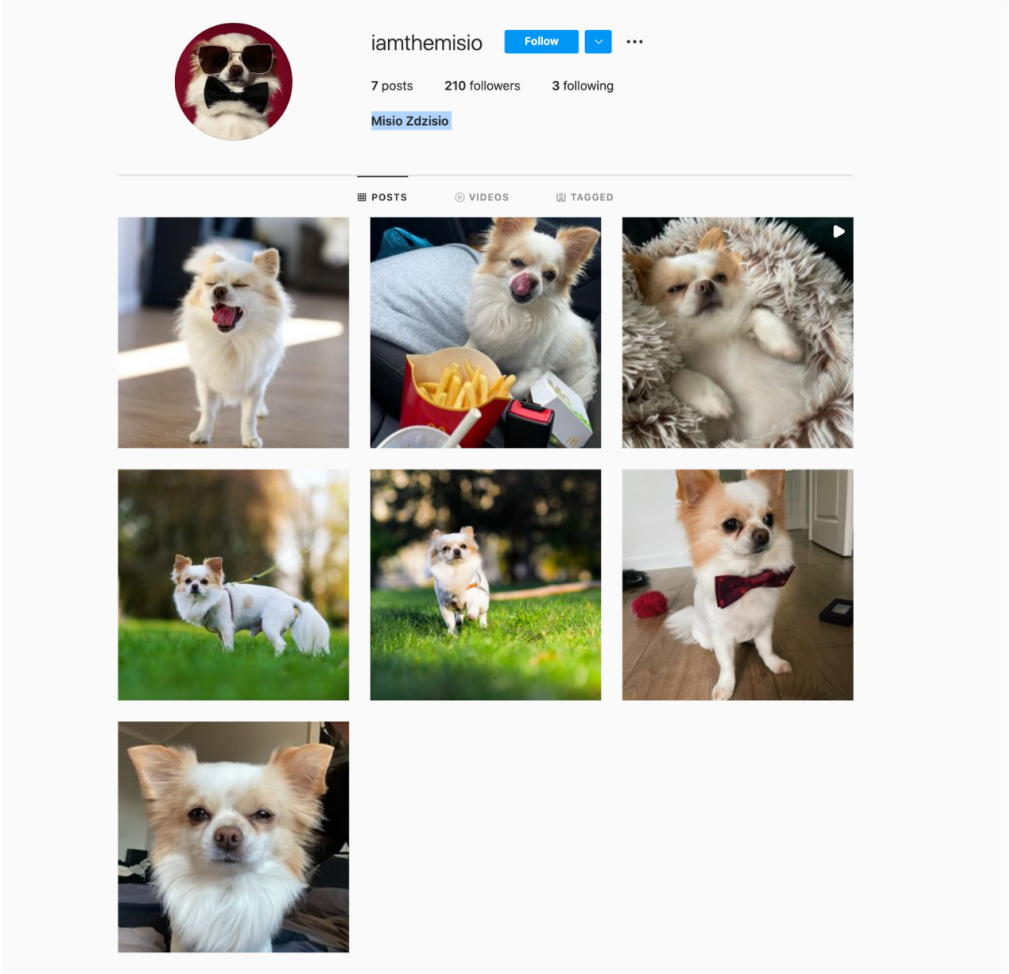
So I went ahead to his wife's account.



So I dug through her pictures with their dog in it, and came across this picture.

I saw that she tagged her dog in that picture, which has the Instagram username iamthemisio

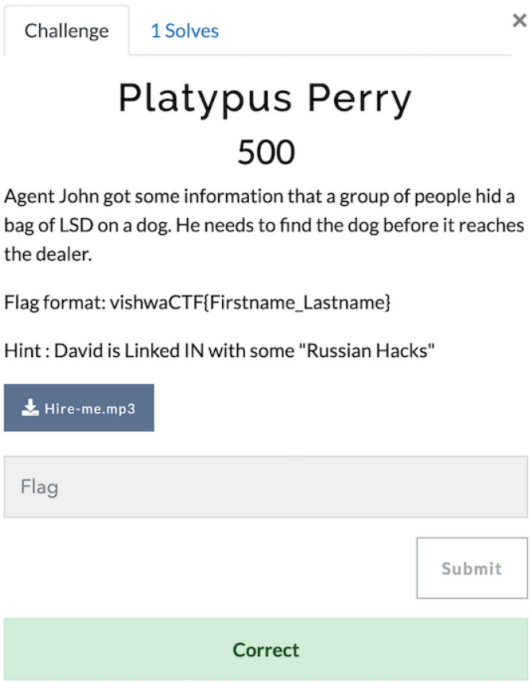
I went to the dog's account and saw the following,



The dog's name is `Misio Zdzisio`, and as the challenge was to find a dog and the flag format was `vishwaCTF{Firstname_Lastname}`, the flag for this challenge would be,

`vishwaCTF{Misio_Zdzisio}`

I cried tears of joy when I inputted this flag and finally got `correct`, because I failed multiple times with flags like `vishwaCTF{David_Bombal}`, `vishwaCTF{Atharva_Pande}` and `vishwaCTF{Pavel_Ladziak}`.



This challenge was an emotional rollercoaster. Every time I thought I got the flag, it turns out it wasn't the flag, but rather only a step in obtaining the flag. Thus, finally getting `correct` was extremely satisfying, especially because I was the first to solve the challenge.

I experienced an important life lesson while doing this challenge, which is to keep trying even if you fail because those failures will lead your way to success.