PICOCTF 2023

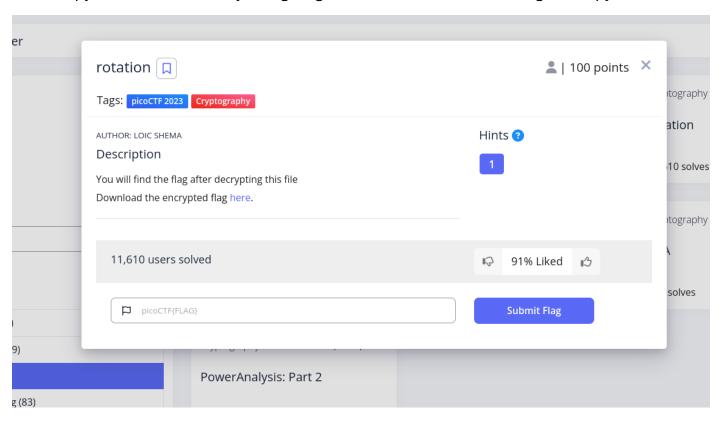
**CATEGORY: Cryptography** 

**CHALLENGE: rotation** 

**POINTS: 100** 

## WRITEUP

First I copy the link of the file by doing a right click on "here" and clicking on "copy link"



Next I download the file with the "wget" command. We have a file name encrypted.txt

```
---(zerodol® kali)-[~/picoctf/2023/crypto/3]
-$ sudo wget https://artifacts.picoctf.net/c/388/encrypted.txt
[sudo] password for zerodol:
 --2024-04-17 14:34:37-- https://artifacts.picoctf.net/c/388/encrypted.txt
Resolving artifacts.picoctf.net (artifacts.picoctf.net)... 108.157.78.8, 108.157.78.40, 108.157.78.6, ...
Connecting to artifacts.picoctf.net (artifacts.picoctf.net)|108.157.78.8|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 37 [application/octet-stream]
Saving to: 'encrypted.txt'
encrypted.txt
                                   100%[
                                                                                             \Rightarrow ]
                                                                                                        37 --.-KB/s
                                                                                                                            in 0s
2024-04-17 14:34:38 (88.0 MB/s) - 'encrypted.txt' saved [37/37]
   -(zerodol@kali)-[~/picoctf/2023/crypto/3]
encrypted.txt
   -(zerodol@kali)-[~/picoctf/2023/crypto/3]
 __$
```

I display the content of the file and we can see that the content is encrypted but we don't know the algorithm. It's time to use "dcode"

```
____(zerodol@ kali)-[~/picoctf/2023/crypto/3]
_$ cat encrypted.txt
xqkwKBN{z0bib1wv_l3kzgxb3l_25l7k61j}

____(zerodol@ kali)-[~/picoctf/2023/crypto/3]
_$ ____
```

We go on "dcode.fr/cipher-identifier" and we paste the content to determine the cipher. It appears to be a "Chiffre ROT (Rotation) cipher". We can click on it and it will lead us to the page where we can decipher it.



We put the encrypted content and we have multiple responses due to multiple attempts. But we can see that there is something that appears to have the pattern of the flags on picoctf



## We have our flag: picoCFT{r0tat1on\_d3cryp3d\_25d7c61b}

