Challenge: Dangerous Flag (Cryptography)

HINTS.txt
Description:
So this flag holds a dangerous message........try at your own risk
it is encoded in a cipher that requires a key
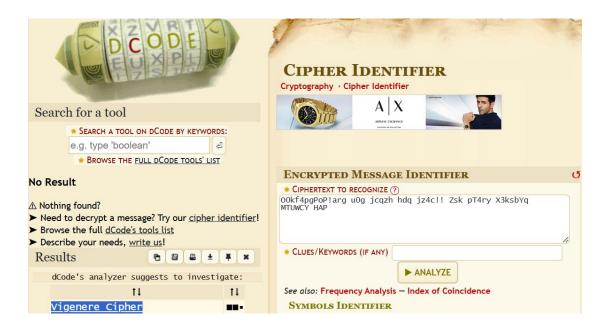start looking for the right key
G0oD LuCk :)

Th3 Clue.txt
clue:
NvldNvld

Try N Hunt the Cipher
O0kf4pgPoP!arg u0g jcqzh hdq jz4c!! Zsk pT4ry X3ksbYq MTUWCY HAP

Step 1: Identifying the cipher used to encrypt the flag
From the description we know that a cipher is being used to encrypt the flag therefore we need to identify the cipher first
Using a cipher identifier it is found that the flag has a high chance of being encrypted in **Vigenere Cipher.**
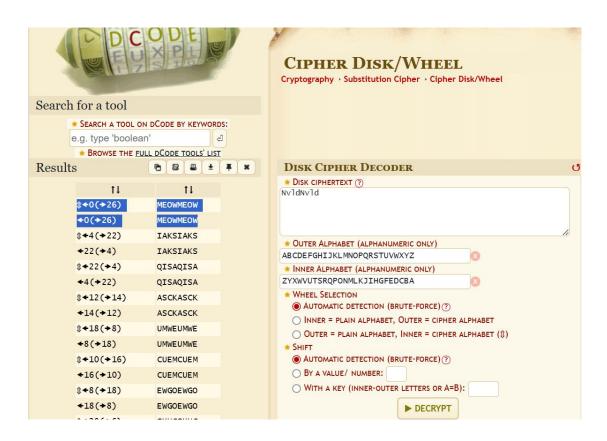
Step 2: Looking for the key

Vigenere Cipher needs a key to be decrypted therefore we look for a valid key. From the file Th3 Clue.txt, we find a group of letters that itself seem to encrypted "NvldNvld". We notice that the word is repeating twice and is most probably case sensitive.

Initially we try simpler ciphers and substitution

(Using Cipher Disk to rotate and substitute the letters of inner ring to align with the letters of outer ring such that they generate a meaningful key)
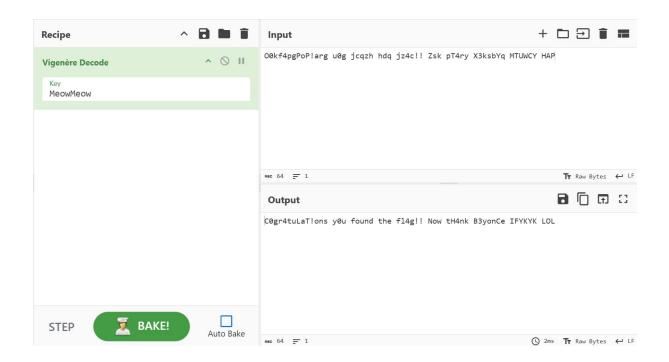

We found the "**MeowMeow**" which most likely seems to be the key.

Step 3: Decrypting Vigenere

Using tools like cyberchef, decode.fr, etc we find the final flag after decrypting the vigenere cipher text

"O0kf4pgPoP!arg u0g jcqzh hdq jz4c!! Zsk pT4ry X3ksbYq MTUWCY HAP"

The final flag is :
C0gr4tuLaT!ons y0u found the fl4g!! Now tH4nk B3yonCe IFYKYK LOL

(If you have seen this flag , Thank Beyonce LOL ;D)