Team Cyber0ids

Amrita Vishwa Vidyapeetham Chennai Campus

Disclaimer:

We couldn't finish the writeups all on time as we honestly weren't sure if we could end up in top 5. The challenges froze after the end, so we couldn't provide full descriptions for the challenges

Writeup for IIT Jodhpur Prometeo CTF 2023

Loki-Dokey

The challenge wasn't well made the flag didn't come up correctly.

Description:

Loki has messed up the time…..

> CipherText :
> 25271l1l1029101s9809912h9l85178620280s9j0n9q85178620282j

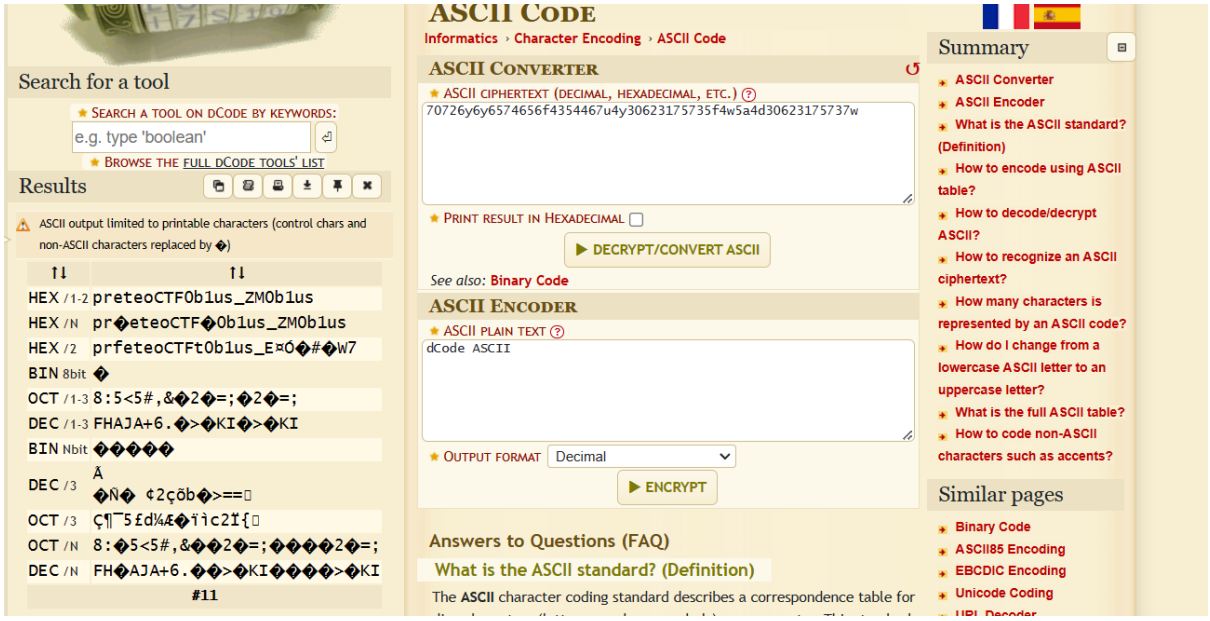
First we were put off by looking up LOKI97 a candidate for AES and LOKI89 for DES. Then as it progressed we viewed the free hint and solved the challenge!

Writeup

- Use ROT13.5 to get the following cipher

> 70726y6y6574656f4354467u4y30623175735f4w5a4d30623175737w

- Use ascii code shift to get the flag

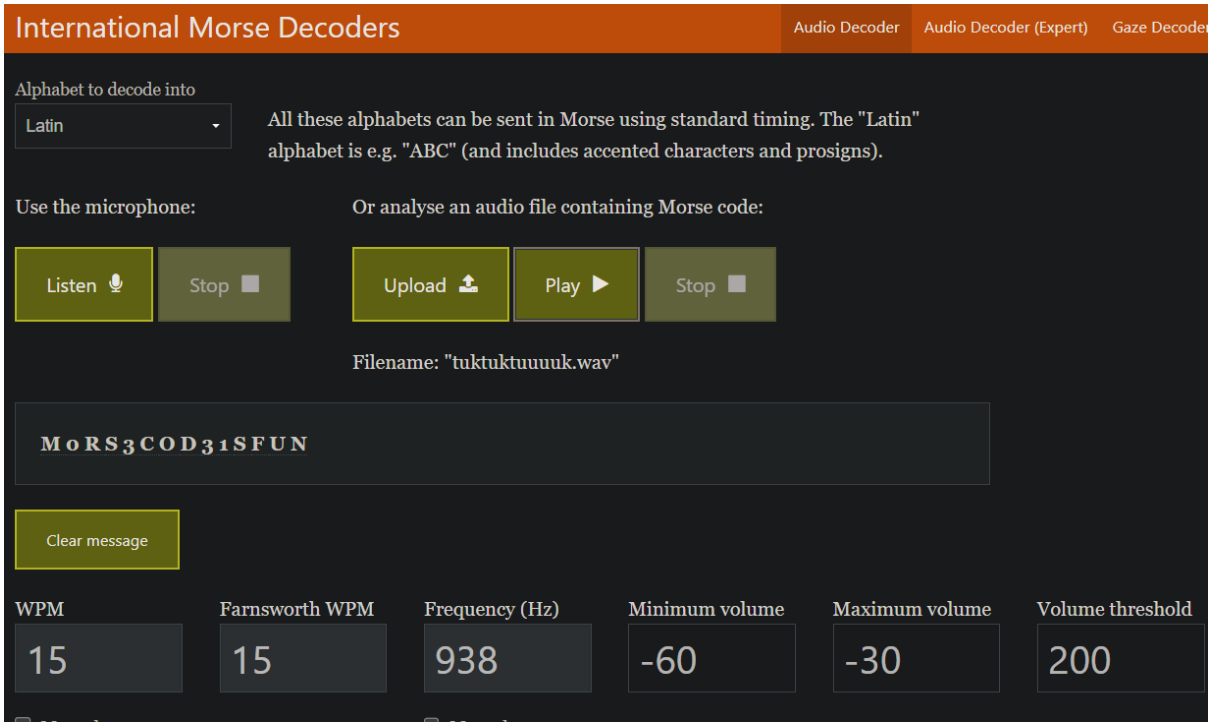


The last part we guessed around the flag to get it and looked up that Morbius M. Morbuis is a character in the Loki universe

> **FLAG :** prometeoCTF{M0bius_M_M0bius}

Morse Code

I downloaded the file given in the challenge. I listened to the audio and figured out it was morse code from past CTF experiences. I used the following tool to decode the morse code from the audio.



Finally, I got the following string. And the challenge description asked us to separate the words with underscores and use lowercase letters.

`M0RS3COD31SFUN` ⇒ `m0rs3_cod3_1s_fun` I wrapped the flag in the flag format `prometeoCTF{m0rs3_cod3_1s_fun}`

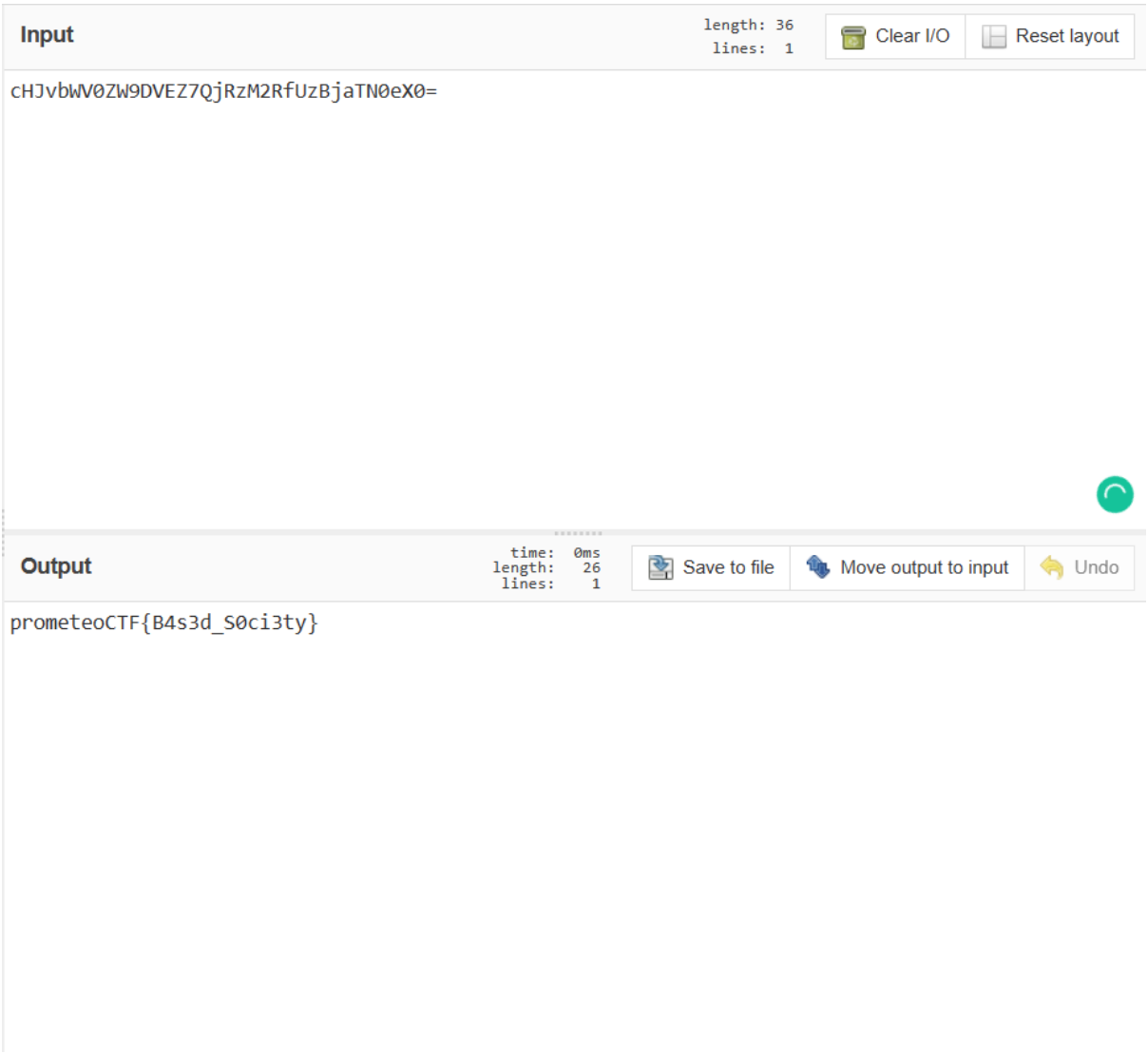
Based

> Ciphertext : cHJvbWV0ZW9DVEZ7QjRzM2RfUzBjaTN0eX0=

- From the given title we can understand that it is encoded in a base.

- I tried base64 at first in cyberchef and we got the flag

> **Flag:** prometeoCTF{B4s3d_S0ci3ty}



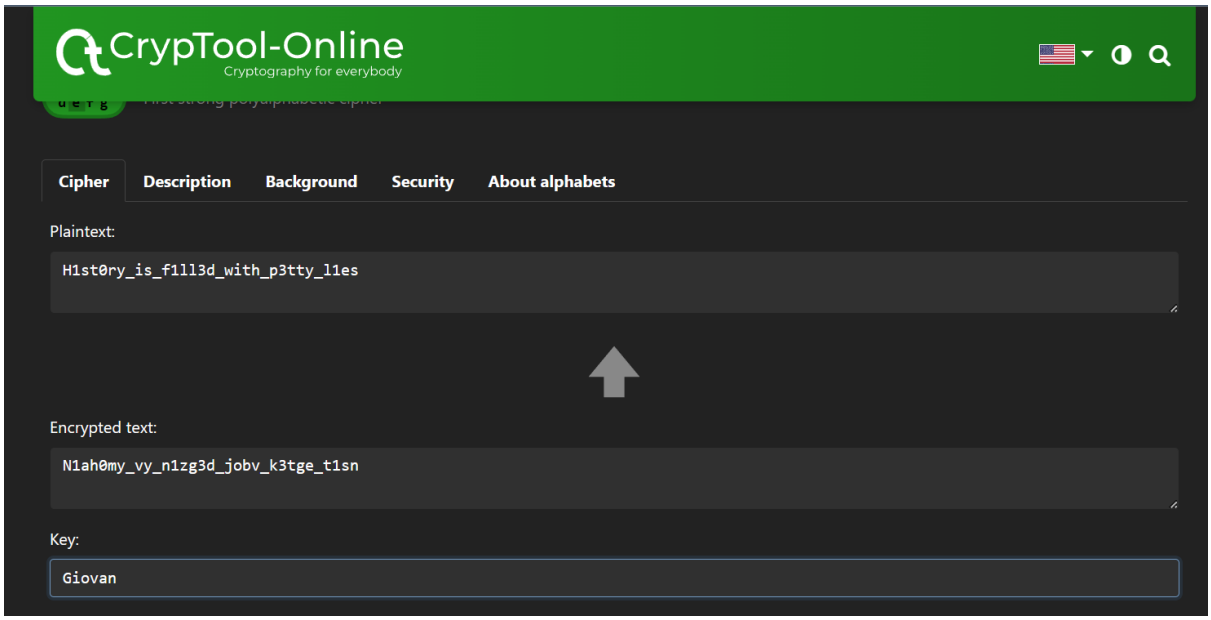
Come around my fellow Kasiskis

Blaise…….

> Ciphertext : N1ah0my_vy_n1zg3d_jobv_k3tge_t1sn

- From the given description we came to know as the Vignere Cipher

- The kasiskis is a test for finding the key length but that ended up in keys size of 5 or 6
- Upon trying the key as ***Giovan (as he was the original one to formualte the cipher)*** we got the below flag



> **FLAG:** prometeoCTF{H1st0ry_is_f1ll3d_with_p3tty_l1es}

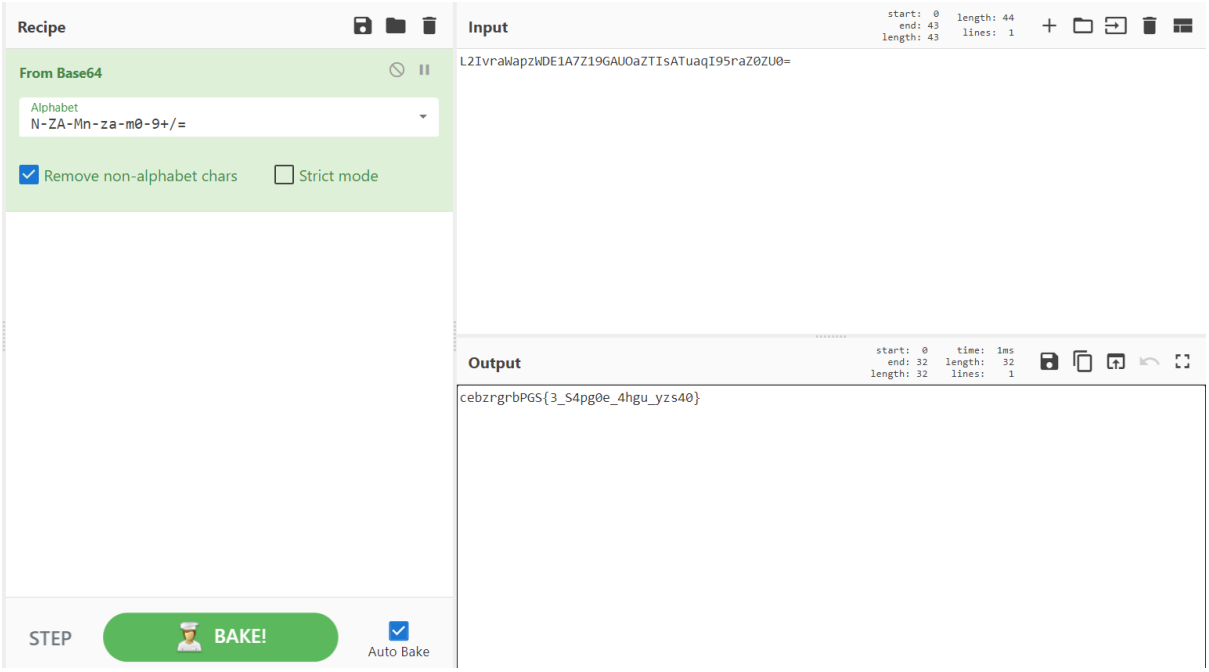
Base Coded

> Please note that we are not sure about the title of this challenge but it is a base encoding related challenge

> **Ciphertext:**
> L2IvraWapzWDE1A7Z19GAUOaZTIsATuaqI95raZ0ZU0=

- By seeing the given ciphertext, I understood that it is encoded in base64.
- Using Cyberchef I decoded it. But the text from that is still meaningless.

> **Ciphertext 2:** cebzrgrbPGS{3_S4pg0e_4hgu_yzs40}



- Using the cipher identifier of dcode.fr we found that it is encrypted using rot13 (i.e., rotated by 13 characters)
- By Using the rot13 decoder we were able to find the final flag

> **Flag:** prometeoCTF{3_F4ct0r_4uth_lmf40}