**NYP MAY CTF 2021**

**Done by: Joel**

**Miscellaneous**

**Caveman Language** - NYP{unga\_bunga}

Use <https://www.dcode.fr/ook-language> to decode the given text

**Pi** - NYP{thisisnotverypi}

compare the given value with the actual value or pi

convert the difference from octal to text

**Weird Letters** - NYP{DNAISFANCY}

use a <https://www.dcode.fr/codons-genetic-code> to decode the given text

**Can you break the zip** - NYP{z1ppy\_zlP}

use fcrackzip to brute force the password (rockyou) and convert from decimal to text

**Scrambled** - NYP{qR\_sCrAmbL3d}

change to file extension to jfif and import them into ppt and scan the QR code

**Jail**

**Prison break 1** - NYP{w3lc0m3\_t0\_pr1s0n\_89edc6e15f8c457541a5848106d2d81d}

Connect to the server and enter ‘print(flag)’

**Prison Break 3** - NYP{pyth0n\_OS\_m4g1c\_ed0eecc9165000964ad27d5aad2510ad}

Connect to the server and send \_\_import\_\_('os').system('cat /root/src/flag.txt')

**Web**

**Login Form** - NYP{cLiEnT\_s!d3\_vErifIcAtI0N???}

decode the hex from script.js

**Cookie Jar** - NYP{ez\_4uth\_byp455\_5beb6bf5c82fe109489e94b232350329}

change the Auth token to Yes

**Ouch** - NYP{0uch\_i\_h4t3\_1nj3ct10ns}

Enter ‘ or 1=1-- in the search bar

**Star wars**

**Musical box** - NYP{J0hn\_Willi@ms}

change to the file extension to txt and ctrl f for the flag

**R2 Message** - NYP{K3N0BI}

change the penup to pendown and pendown to penup

**Rebel alliance poster** - NYP{ANEWHOPE}

use aurebesh alphabet to decode

**Distress Signal** - NYP{W3lc0me-home-pilot}

find the github link in the html, run the function js function, base64 decode the string, go to the discord, find the flag in the channel

**X-Wing pilot** - NYP{T0RP3D0\_ace}

edit the interval timing in the html and let the code run

the second NYP{ is the flag

**Captain Solo’s Reward** - ℕ𝕐ℙ{𝕟𝟘\_𝕣𝕖𝕨𝕒𝕣𝕕\_𝕨𝟘𝕣𝕥𝕙\_+𝕙𝕚𝕤}

In the discord, find the different strings

Convert from hex and Decode text (UTF-16BE)

**Forensics**

**Imposter** - NYP{r3d\_is\_kinda\_sUs}

Use strings

**Spam email** - NYP{N0t\_s0\_spaM-aNym0r3}

Use <https://www.spammimic.com/decode.shtml> to decode

**Will you bin my walk** - NYP{binwalkisthebest}

- use binwalk to extract image

**Broken image** - NYP{Br0k3n\_jPg}

change the first 2 bytes to FF D8

**Reverse Engineering**

**Nobmalwre** - NYP{wh4t\_a\_n00b\_m4lw4r3\_7821540de2f666ce13604b44487a3e0c}

shift = 2

olddata =''

ciphertext = b'P[R}yj6vacap22dao6ny6t5a9:43762fg4h888eg35826d666:9c5g2e'

for i in ciphertext:

olddata+=chr(i-shift)

print(olddata)

**pyRE** - NYP{ez\_4sc11\_4dditi0n\_4d0ade345d9590807d574482875856a9}

def lMaO(string):

output = ""

space = " "

for i in string:

output += chr(ord(i)-ord(space))

space = chr(ord(i)-ord(space))

return output

ct = 'n§©ËàßÙ\x93§Ö\x94b\x90\x93\x98ÈÍÝÝ\x99\x9eÍ\x93\x98\x94\x91ÅÉ\x98gi\x99\x9dnnihhg\x9b\x99lkhljjolmmk\x97\x9a¶'

print(lMaO(ct))

**Cryptography**

**All about that base** - NYP(bas3d\_64}

- base64 decode 3 times

**Assassin creed** - NYP{DRENGILIGR}

- use daggers decoder

**BrainFried** - NYP{Brain\_F\*ck\_Is\_Fun}

- brain fuck decode and base64 decode

**French cipher** - NYP{fr3nch\_c1ph3r}

- use vigenere cipher to decode with Baguette as the key

**Many Square** - NYP{EASYPOLYBIUS}

- use Polybius square cipher

**Nato** - NYP{NATOISCOOL}

Take the first letter of every word

**Random number** - NYP{EASY\_SUBSTITUTION}

-convert number to letter -change to uppercase

**Sword and Shield** - NYP{p0k3m0n\_sw0rd\_sh13ld}

- change to 1 and 0 & convert to text

**Network**

**Baby Shark** - NYP{Wireshark\_Is\_Fun}

- wireshark extract flag.txt and base64 decode the value

**Sanity Check**

**Rulebook** - NYP{RAEDTHERULE}

- in the rules page

**The hardest challenge**

* Do the feedback form