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_zIP}
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{m0_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