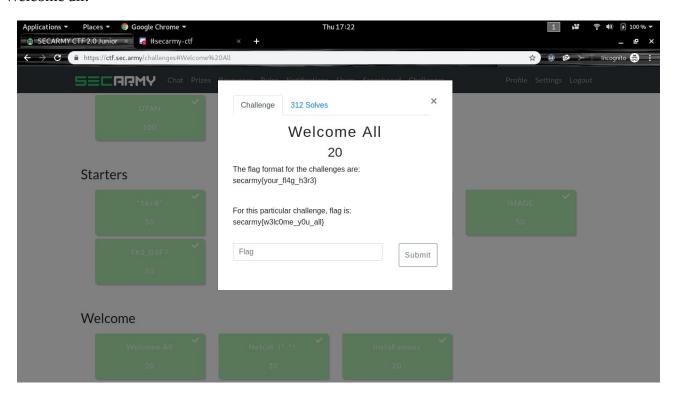
SECARMY CTF 2.0 Junior Writeups

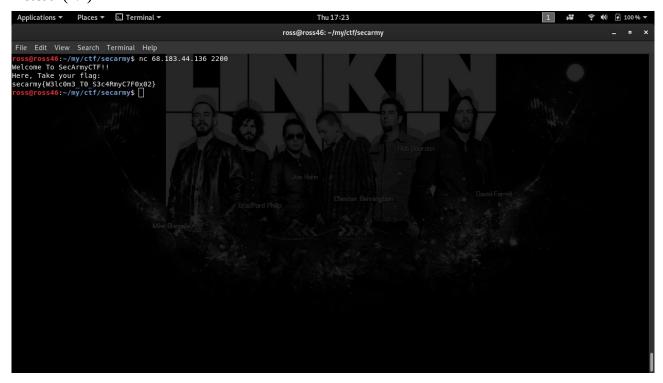
Welcome Challs:

Welcome all:



This was right in front of You

Netcat '(^.^)'



Connect to the IP and Port from Your netcat, you get the flag

Starters:

16+8:

This was eazy, the name had it, hex and octal conversion: there were two zip diles which had two files: file1.txt.txt file2.txt.txt

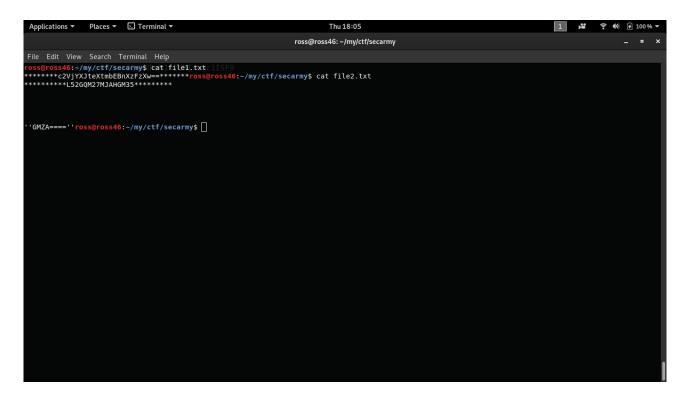
From the name: 1st file had hex values, 2nd file had octal values

converting the hex to text : secarmy{
converting the oct to text : Num3er_sys73m}
so the flag is: secarmy{Num3er_sys73m}

Die Basis:

there was one zip file which had two text files:

file1.txt file2.txt



file1.txt: c2VjYXJteXtmbEBnXzFzXw== , this was of base64 format file2.txt: L52GQM27MJAHGM35GMZA==== , this was of base32 format

joining the text values of both the format we get: secarmy{fl@g_1s_th3_b@s3}32 but the flag is: secarmy{fl@g_1s_th3_b@s3}

Eazy capture:

unzipping the flagmin.zip we get flagmain.txt



 $01110011\ 01100101\ 01100011\ 01100001\ 01110010\ 01101101\ 01111001\ 01111011\ 01111011\ 01111000$ $00110011\ 01110010\ 00110011\ 01111010\ 01110101\ 01110101\ 01110101\ 01110101$ $01110000\ 01110100\ 01110100\ 01110101\ 01111101$

It is in binary format.

Converting into text we get: secarmy{h3r3_y0u_c@ptur3}

IMAGE:

unzipping file.zip we get Image3.png

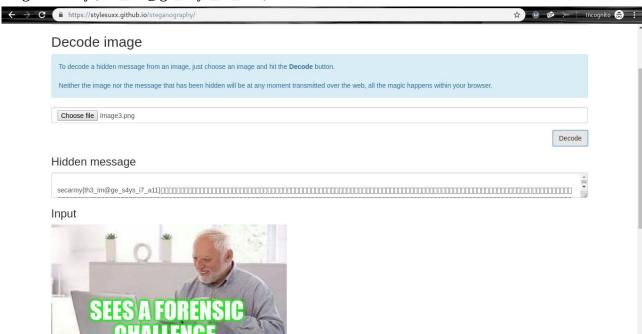


file type is also PNG image.

This link is very handy in many challenges: https://stylesuxx.github.io/steganography/

uploading the image to the url we get:

Flag: secarmy{th3_im@ge_s4ys_i7_a11}

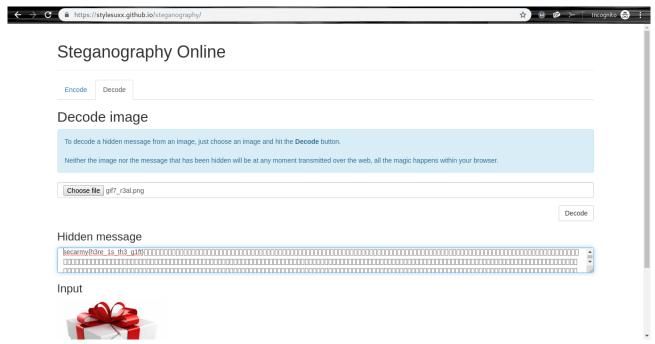


Th3_G1F7:

This is similar to the previous challenge:

same site: https://stylesuxx.github.io/steganography/

Flag: secarmy{h3re_1s_th3_g1ft}



Cryptography

OTAN:

It has a hint guess my name: Reverse the challenge name we get NATO, Extracting the hint.zip file we get two files: hint.txt and and SVG image with number 2. The number two indicates that it is encrypted twice.

Hint.txt has:

==UNIFORM GOLF ECHO CHARLIE TANGO OSCAR ALPHA PAPA CHARLIE VICTOR QUEBEK ROMEO JULIETT QUEBEK PAPA GOLF VICTOR KILO ECHO UNIFORM==

Site: https://cryptii.com

Type: spelling alphabets subtype: NATO/ICAO

Trying to decrypt we get: ==ugectoALPHApcvQUEBEKrjQUEBEKpgvkeu==

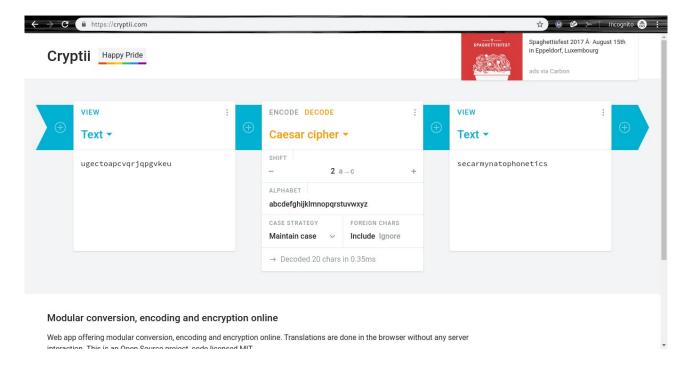
Note that Alpha and QUEBEK remains the same.

Opening https://en.wikipedia.org/wiki/NATO phonetic alphabet we get the entire list of substitution

Correcting the spelling of ALPHA and QUEBEK we get: ==UNIFORM GOLF ECHO CHARLIE TANGO OSCAR ALFA PAPA CHARLIE VICTOR QUEBEC ROMEO JULIETT QUEBEC PAPA GOLF VICTOR KILO ECHO UNIFORM==

The converted form: ==ugectoapcvqrjqpgvkeu==

Now we try substitution Cipher (+2), we get: secarmynatophonetics



Flag: secarmy{natophonetics}

Bruteforce:

We get a zip file MEME.zip:

Extracting it we get MEME.jpg

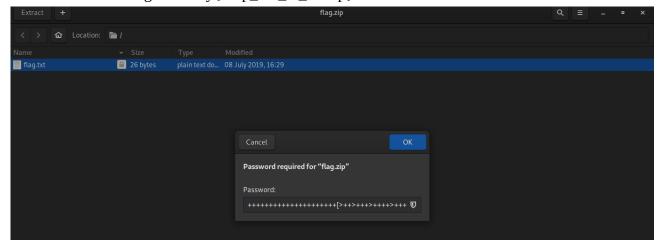
Using stegextract we recover a zip file called MEME_dumps

Unzip it we find a folder pleasehelpme which consists of flag.zip and helpdone.txt

helpdone.txt:

flag.zip is password protected. So using the hint inside helpdone.txt (brainfuck code) we try to extract the flag.zip but unfortunately it does not work out.

Next: GUI mode: Flag: secarmy{h3lp_m3_t0_unz1p}



Directories:

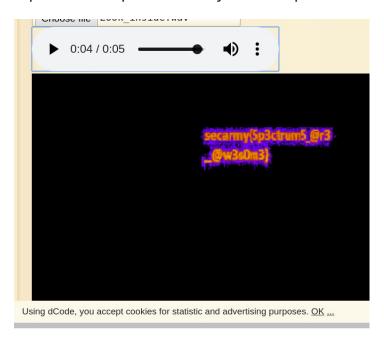
Question: It is a type of illusionary filesystem. It does not exist on a disk. Can U name it?

Flag: secarmy{/proc}

Look inside:

we get a Look_inside.wav file

we perform a spectral analysis in https://dcode.fr (trust me and save that link)



Flag: secarmy{5p3ctrum5_@r3_@w3s0m3}

Prizes:

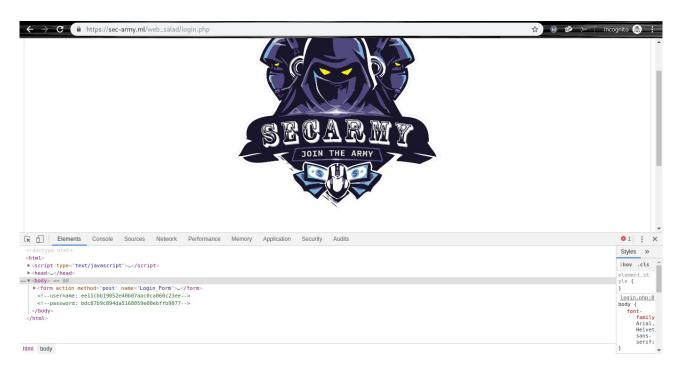
link: view-source:https://ctf.sec.army/prizes

open the source code you get: c2VjYXJteXtzMHVyYzNfaTVfbjNjZXM1YXJ5fQo=

base64 to text: secarmy{s0urc3_i5_n3ces5ary}

web_salad:

open the console you can see two hashes:

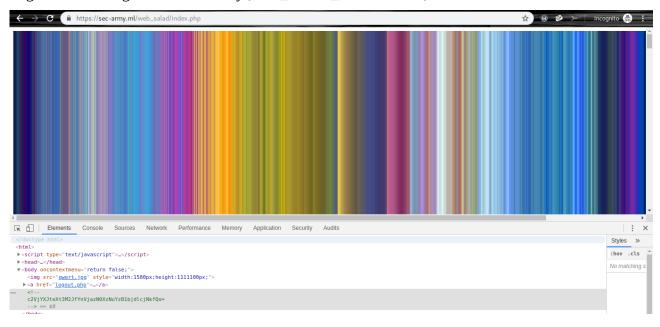


<!--username: ee11cbb19052e40b07aac0ca060c23ee--> <!--password: bdc87b9c894da5168059e00ebffb9077-->

it is md5 hash: decrypt it we get username: user

password: password1234

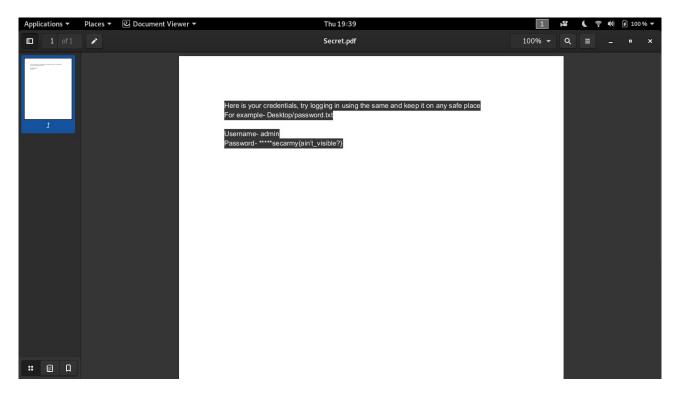
with the console open login: we get c2VjYXJteXt3M2JfYnVjazN0XzNuYzB1bjdlcjNkfQo=Flag after decoding base64 : secarmy{w3b_buck3t_3nc0un7er3d}



Forensics

secret:

open the pdf and press ctrl+a u have the flag: secarmy{ain't_visible?}



The_B1N:

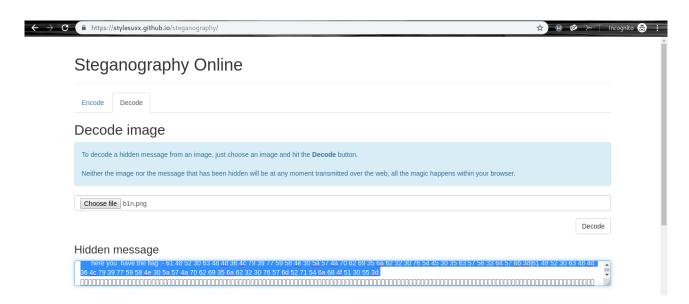
We get a zip file with b1n.png and bin1.jpg

open: https://stylesuxx.github.io/steganography/

upload b1n.png

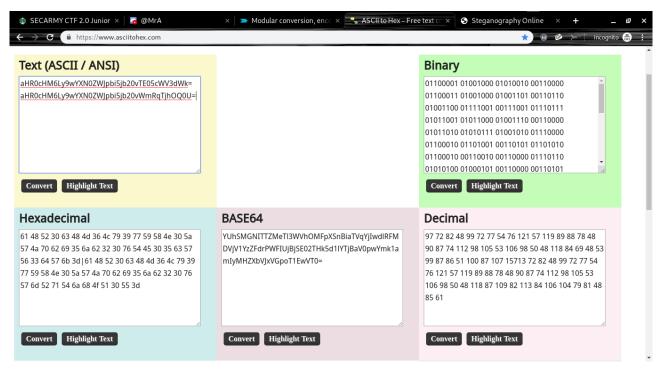
we get:

here you have the flag :- 61 48 52 30 63 48 4d 36 4c 79 39 77 59 58 4e 30 5a 57 4a 70 62 69 35 6a 62 32 30 76 54 45 30 35 63 57 56 33 64 57 6b 3d|61 48 52 30 63 48 4d 36 4c 79 39 77 59 58 4e 30 5a 57 4a 70 62 69 35 6a 62 32 30 76 57 6d 52 71 54 6a 68 4f 51 30 55 3d



It is in hex format, decoding it gives us two base64 text:

aHR0cHM6Ly9wYXN0ZWJpbi5jb20vTE05cWV3dWk= aHR0cHM6Ly9wYXN0ZWJpbi5jb20vWmRqTjhOQ0U=



converting the first string: https://pastebin.com/LM9qewui

follow it: secarmy{c0ngrats_y0u_h@v3_th3_fl@g} (wrong flag)

converting the second string: https://pastebin.com/ZdjN8NCE

follow it: secarmy PAST3 B1N H@S S0LUT10N

Flag: secarmy{PAST3 B1N H@S S0LUT10N}

Binary/Reverse

Stringy:

This challenge gives the hint of what to use: strings

strings stringy gives all the readable text in it

what catches our attention is these strings: c2VjYXJtH

eXtsMDBrH

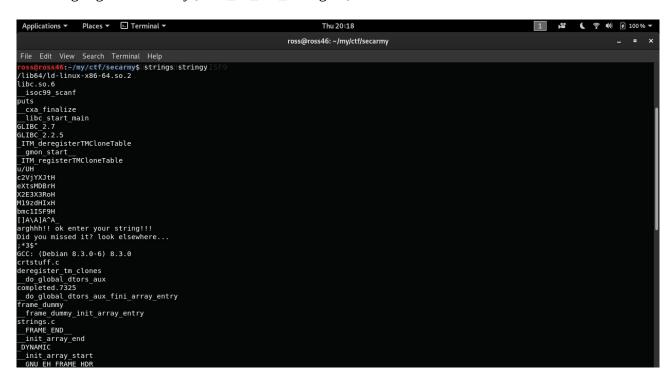
X2E3X3RoH

M19zdHIxH

bmc1ISF9H

Remove the trailing H and join them, you get a base64 encoded string: c2VjYXJteXtsMDBrX2E3X3RoM19zdHIxbmc1ISF9

Decoding it gives: secarmy{l00k_a7_th3_str1ng5!!}



Flag: secarmy{l00k_a7_th3_str1ng5!!}

F-L-A-S-H:

This is by far the eaziest one which we all overlooked,

ltrace ./F-L-A-S-H and you have the flag.

Flag: secarmy{7h1s_w45_345y_p34zy}

