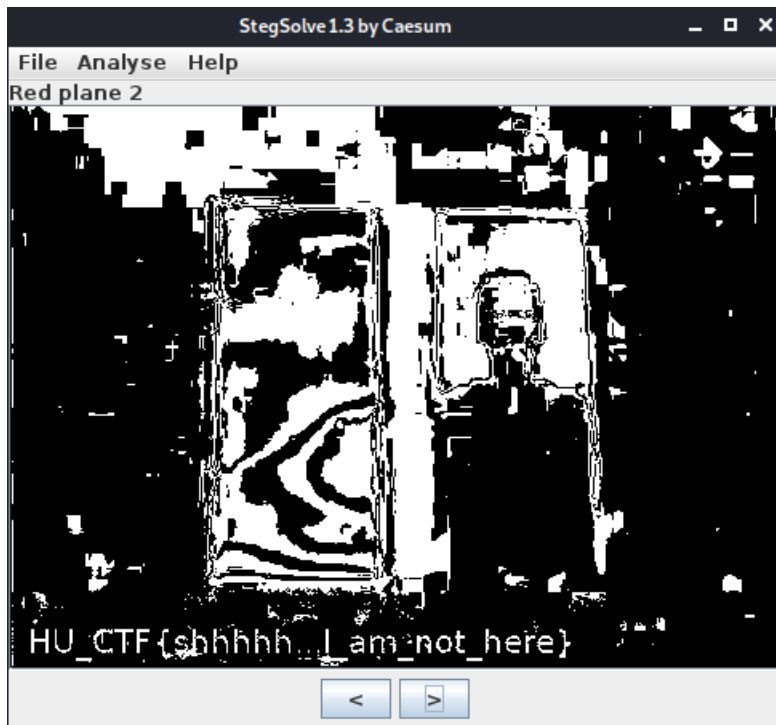


First challenge: Run Lillian run (20 Points)

hide.png

as we could guess from the looking of this image, we can solve it using stegsolve



Easy one right 😊

Second challenge: Hello June Stego (30 Points)

hellofriend.jpg

the image is too big!

So for sure there is something in it let's try to extract it's content

Using binwalk

But this is actually doesn't work it (extract it again to the same image)

Emmm...

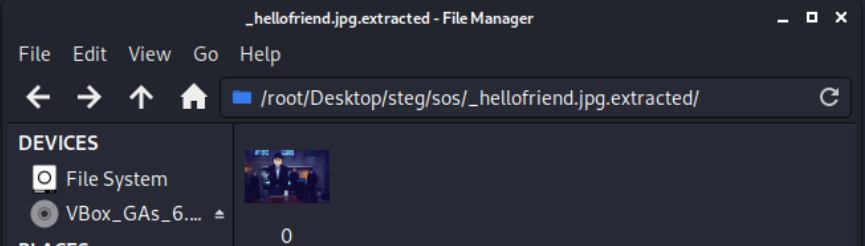
```
root@kali:~/Desktop/steg/sos# binwalk hellofriend.jpg

DECIMAL      HEXADECIMAL  DESCRIPTION
-----
0            0x0          JPEG image data, JFIF standard 1.00

root@kali:~/Desktop/steg/sos# binwalk --dd='.*' hellofriend.jpg

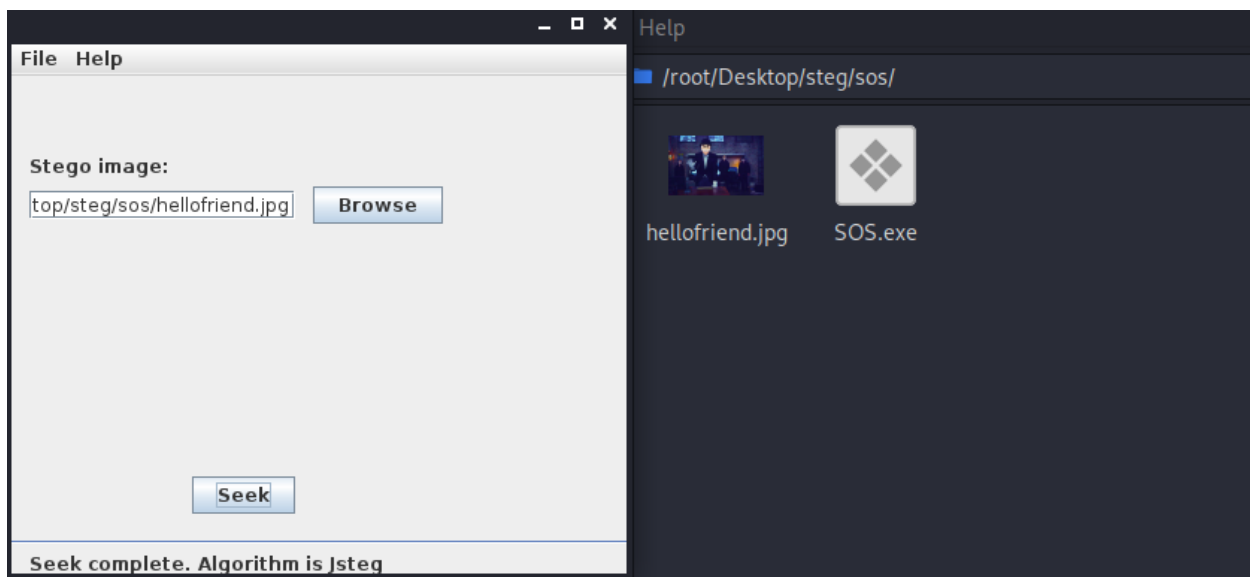
DECIMAL      HEXADECIMAL  DESCRIPTION
-----
0            0x0          JPEG image data, JFIF standard 1.00

root@kali:~/Desktop/steg/sos#
```



As the title June Stego

Jstego tool could be used to extract files

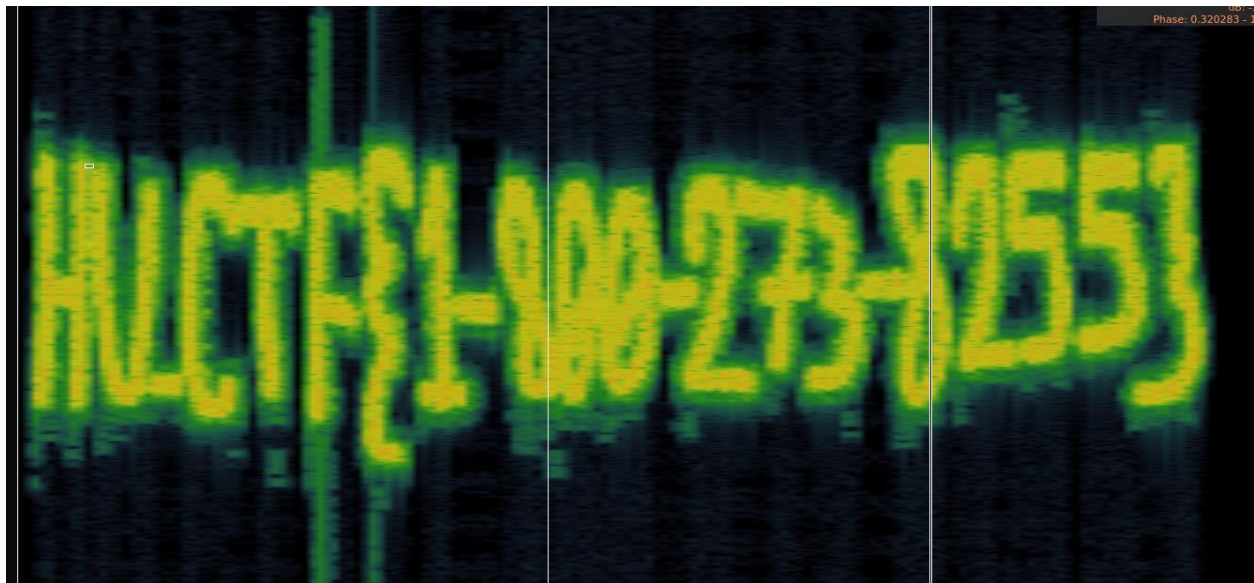


As we see SOS.exe check it

```
SOS.exe: cannot open 'SOS.exe' (No such file or directory)
root@kali:~/Desktop/steg/sos# file SOS.exe
SOS.exe: Audio file with ID3 version 2.4.0, contains:MPEG ADTS, layer III, v2, 56 kbps, 22.05 kHz, Stereo
root@kali:~/Desktop/steg/sos#
```

Then it's audio file

The first thing will come up to your mind that open it with sonic visualizer as we did and add spectrogram to see if this sound is actually text

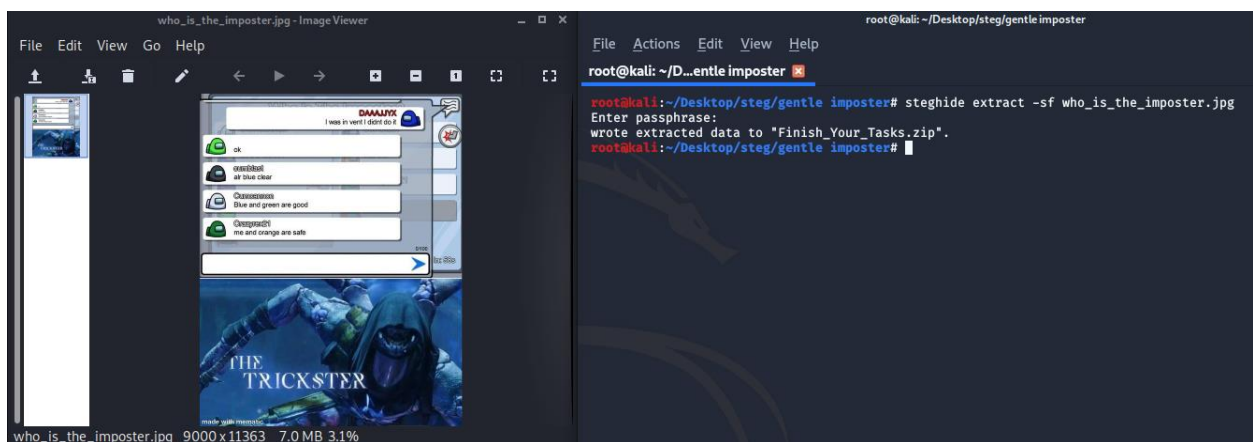


Walla here it is :)

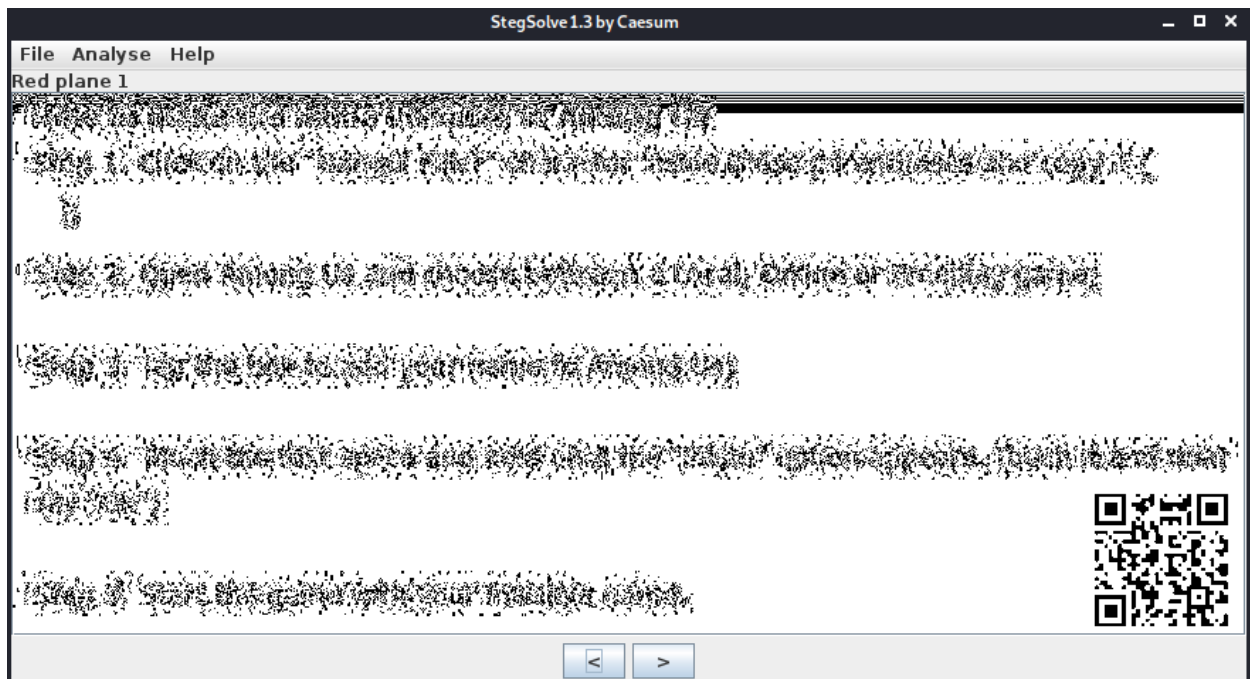
Third challenge: The gentle imposter ^_^ (100 Points)

who_is_the_imposter.jpg

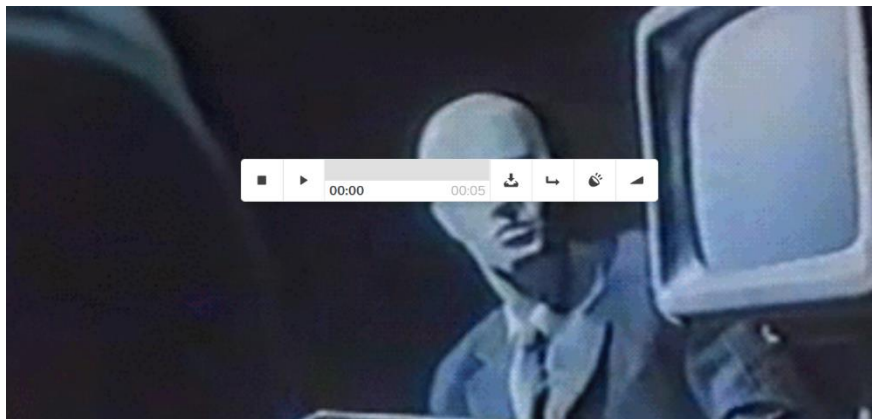
notice that the image is large so there is something in it and we want to extract it
so we can use steghide to extract zip file cause we have a password
that is the imposter name



So unzip the zip file, you will have two images one is useless the second put it into stegsolve

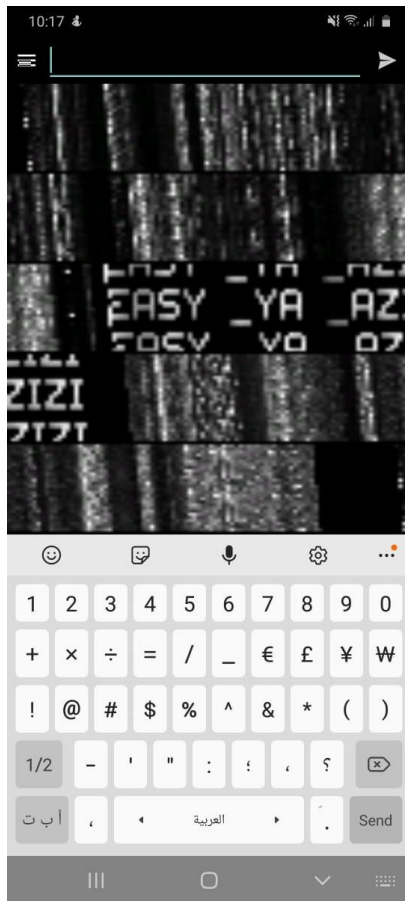


Here we will find QR if you scan it it will direct you to web page



Analyze the sound if you didn't recognize it look at the source code you will find a hint

Download any Hellschreiber tool on your phone or laptop

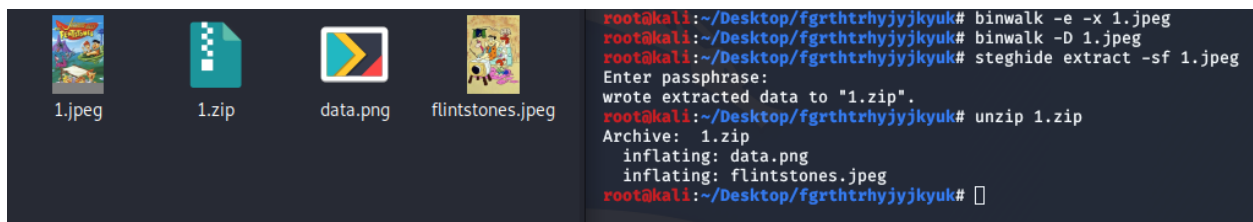


HU_CTF{EASY_YA_AZIZI}

Fourth challenge: cartoon cartoon (75 Points)

1.jpeg

Using steghide to extract the zip file but this time without passwords



Now we have to xor (two opposite series the_jetsons & flintstones)the two images together you could write script to do that

*I will put the script with this document

That's gonna give us another image actually it's the _jetsons.jpeg

Put it into stegsolve



Rot 47! Put it in your mind

What is the the cipher?

We could use exif tool to check

```
root@kali:~/Desktop/steg4# exif the_jetsons.jpeg
EXIF tags in 'the_jetsons.jpeg' ('Intel' byte order):
-----+-----
Tag                |Value
-----+-----
X-Resolution        |300
Y-Resolution        |300
Resolution Unit     |Inch
Software            |GIMP 2.10.12
Date and Time       |2020:11:01 15:45:57
Copyright           |w60r%uL4@@{0A_5rcD%N (Photographer) - [None] (Editor)
Image Width         |256
Image Length        |170
Bits per Sample     |8, 8, 8
Compression         |JPEG compression
Photometric Interpre|YCbCr
Samples per Pixel   |3
X-Resolution        |72
Y-Resolution        |72
Resolution Unit     |Inch
User Comment        |
Exif Version        |Exif Version 2.1
FlashPixVersion      |FlashPix Version 1.0
Color Space          |Internal error (unknown value 65535)
-----+-----
EXIF data contains a thumbnail (13623 bytes).
root@kali:~/Desktop/steg4#
```

You could notice the copyright something weird” w&0r%uL4@@{0A_5rcD%N” so why we don’t try to decrypted using rot 47

HU_CTF{cool_p0dC4sT}

Yah this is the title for cool podcast for cartoon if you’re interested you could check their series by visiting this website 😊

<https://www.mstdfr.com/shows/kartoon/>