

2025

CTF INTERNACIONAL METARED ETAPA MEXICO

WRITEUP

CHALLENGE

Details

Description

Title:	Details
Description:	Details hidden from the naked eye can provide information
Flag:	flagmx{Al_g3n3r4t3d_c4t}
File:	bin.bin
Dificultad:	Intermedio
Tags	Crypto

Solution:

A binary file that must be converted to PDF and obtain the flag of the text that is contained in the PDF itself.

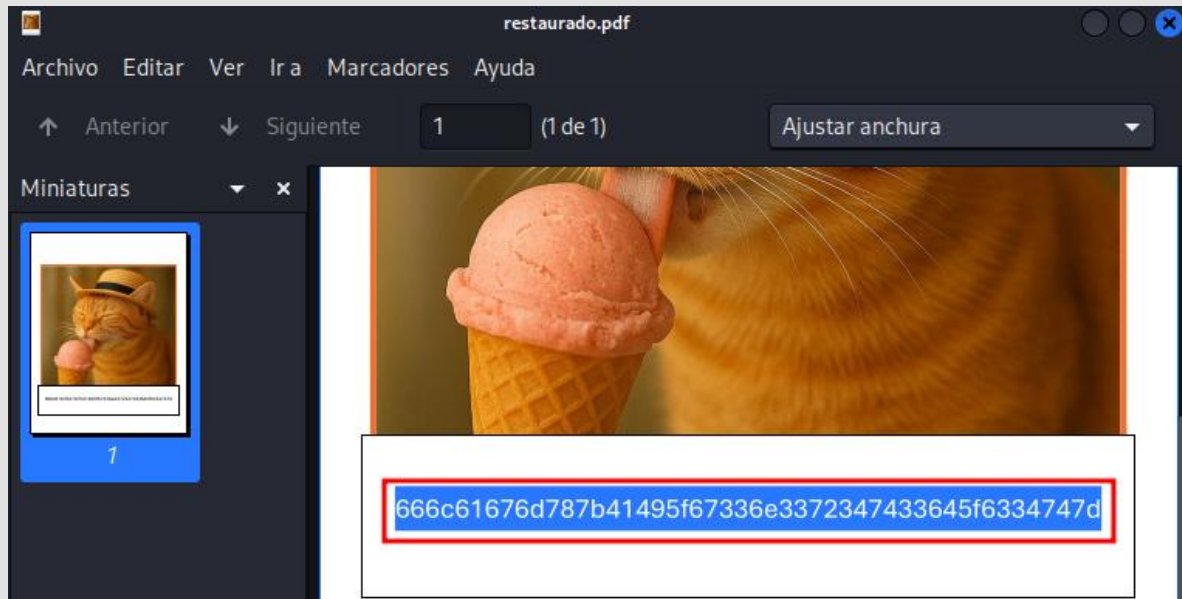
The contents of the bin.bin file are displayed with the cat command. We notice that it indicates it's a PDF.

```
$ cat bin.bin
00000000: 00100101 01010000 01000100 01000110 00101101 00110001 %PDF-1
00000006: 00101110 00110111 00001101 00001010 00100101 10110101 .7 ..%.
0000000c: 10110101 10110101 10110101 00001101 00001010 00110001 .....1
00000012: 00100000 00110000 00100000 01101111 01100010 01101010 0 obj
00000018: 00001101 00001010 00111100 00111100 00101111 01010100 .. <</T
0000001e: 01111001 01110000 01100101 00101111 01000011 01100001 ype/Ca
00000024: 01110100 01100001 01101100 01101111 01100111 00101111 talog/
0000002a: 01010000 01100001 01100111 01100101 01110011 00100000 Pages
00000030: 00110010 00100000 00110000 00100000 01010010 00101111 2 0 R/
00000036: 01001100 01100001 01101110 01100111 00101000 01100101 Lang(e
0000003c: 01110011 00101001 00100000 00101111 01010011 01110100 s) /St
00000042: 01110010 01110101 01100011 01110100 01010100 01110010 ructTr
```

It's already been detected as a PDF. We convert the binary to PDF with the following command:

```
xxd -r -b bin.bin > restaurado.pdf
```

We open the PDF and see its contents. The only text that appears is:
666c61676d787b41495f673336e3372347433645f6334747d



Analysis of the string indicates that it is hexadecimal. We convert it to text as follows:

```
echo "666c61676d787b41495f67336e3372347433645f6334747d" | xxd -r -p
```

We get the flag

```
$ echo "666c61676d787b41495f67336e3372347433645f6334747d" | xxd -r -p
flagmx{AI_g3n3r4t3d_c4t}
```

The flag is:

flagmx{AI_g3n3r4t3d_c4t}