Description

Ron just found his own copy of advanced potion making, but its been corrupted by some kind of spell. Help him recover it!

Challenge Endpoints	
Download advanced-potion-making	advanced-potion-making

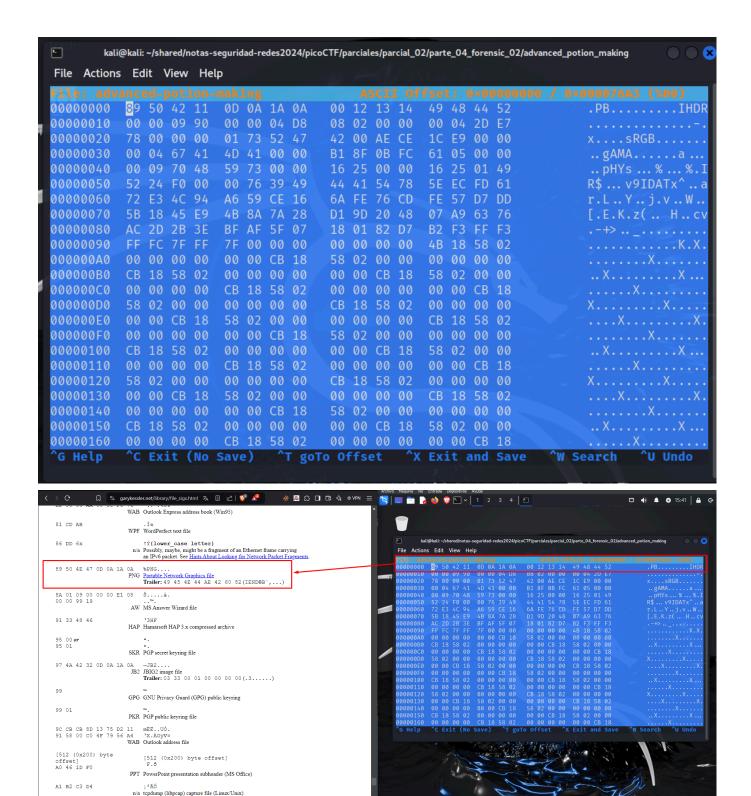
Hints

• (None)

Solución

```
┌──(kali⊕kali)-
[~/.../parciales/parcial_02/parte_04_forensic_02/advanced_potion_making]
L$ ls
advanced-potion-making advanced-potion-making.md
┌──(kali⊕kali)-
[~/.../parciales/parcial_02/parte_04_forensic_02/advanced_potion_making]
└$ file advanced-potion-making
advanced-potion-making: data
┌──(kali⊕kali)-
[~/.../parciales/parcial 02/parte 04 forensic 02/advanced potion making]
└$ hexeditor advanced-potion-making
┌──(kali⊕kali)-
[~/.../parciales/parcial_02/parte_04_forensic_02/advanced_potion_making]

↓ file advanced-potion-making
advanced-potion-making: data
┌──(kali⊕kali)-
[~/.../parciales/parcial 02/parte 04 forensic 02/advanced potion making]
└─$ mv advanced-potion-making advanced-potion-making.png
┌──(kali⊕kali)-
[~/.../parciales/parcial_02/parte_04_forensic_02/advanced_potion_making]
└$ ls
advanced-potion-making.md
                                    'Pasted image 20241107154151.png'
```



Se observa que el header no es el mismo al utilizar la herramienta de exiftools . Por lo que se procede a corregirlas:

A1 B2 CD 34

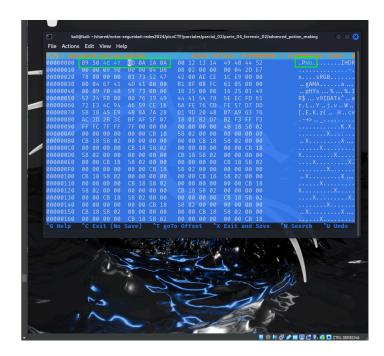
A3 DE B0

£ B °
HED HighEdit document

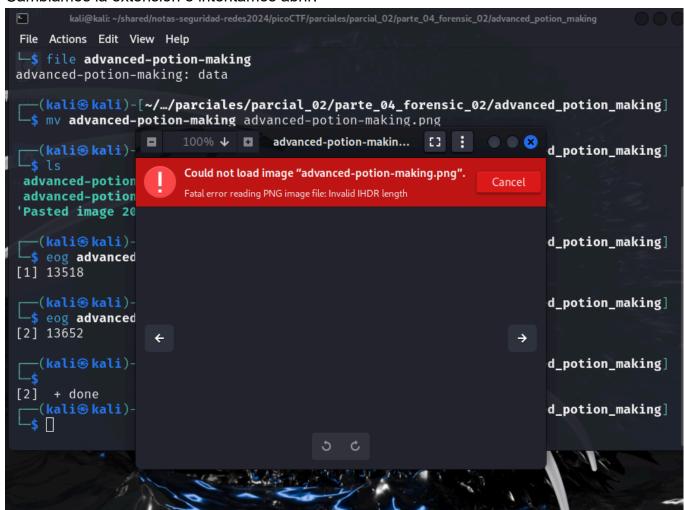
```
WPF WordPerfect text file
                             †Ý{lower_case letter}
n/a Possibly, maybe, might be a fragment of an Ethernet frame carrying
an IPv6 packet. See <u>Hints About Looking for Network Packet Frag</u>n
86 DD 6x
89 50 4E 47 0D 0A 1A 0A | MRNG....

PNG Portable Network Graphics file

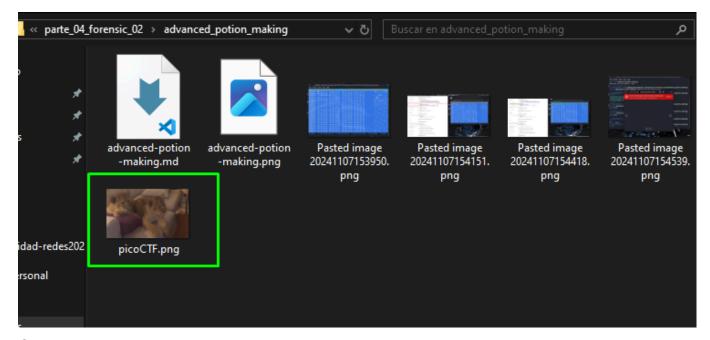
Trailer: 49 45 4E 44 AE 42 60 82 (IEND®B',...)
AW MS Answer Wizard file
91 33 48 46
                           '3HF
HAP Hamarsoft HAP 3.x compressed archive
95 00 or
95 01
GPG GNU Privacy Guard (GPG) public keyring
99 01
                           PKR PGP public keyring file
9C CB CB 8D 13 75 D2 11 00ËË..UÒ.
91 58 00 C0 4F 79 56 A4 "X.ÀOyV¤
WAB Outlook address file
 [512 (0x200) byte
                                [512 (0x200) byte offset]
offset]
A0 46 1D F0
                            PPT PowerPoint presentation subheader (MS Office)
                            ; ° ÃÔ
n/a tepdump (libpcap) capture fîle (Linux/Unix)
A1 B2 CD 34
                            £Þ°
HED HighEdit document
```



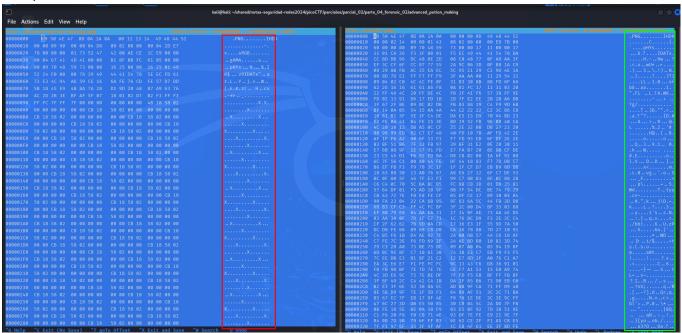
Cambiamos la extensión e intentamos abrir:



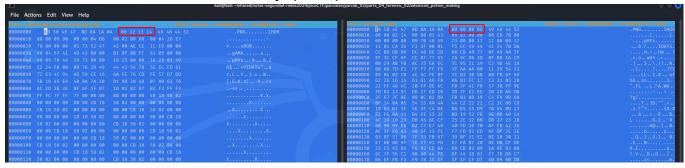
Abrimos otra imagen png que no esté dañada para comparar sus magic bytes

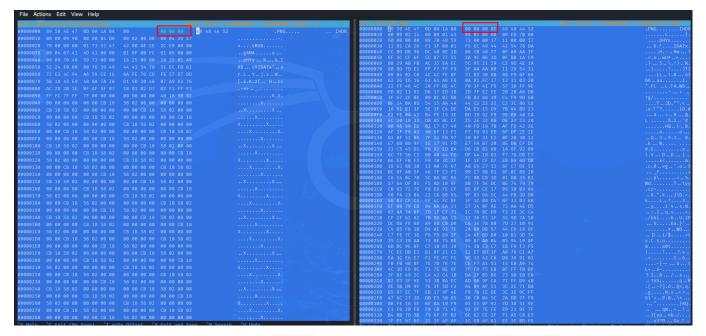


Observamos a la izquierda la imagen corrupta aún y a la derecha la que abrimos para comparar.

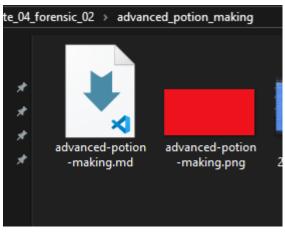


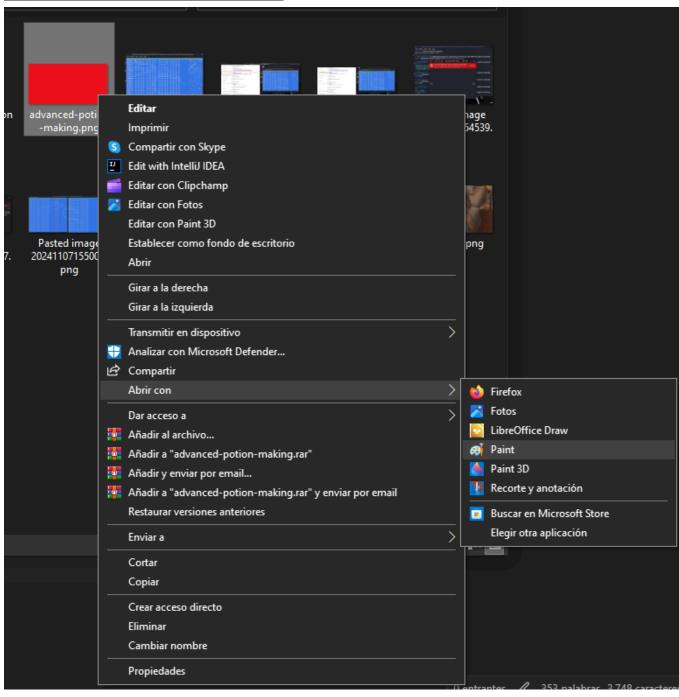
Cambiaremos los seleccionados en rojo para que coincidan con el de la derecha



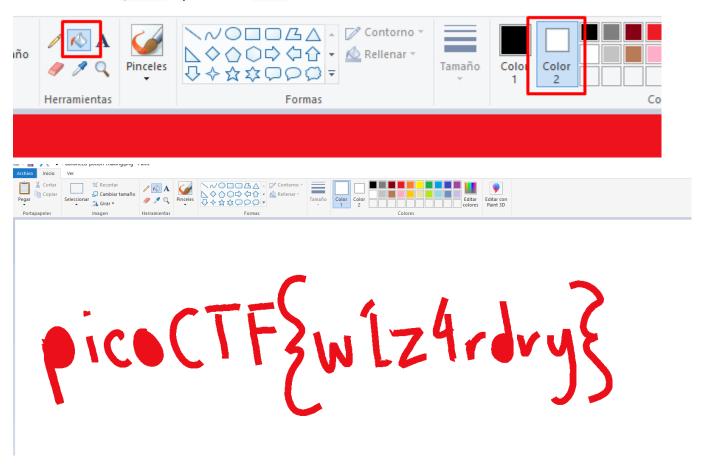


Procederemos a abrir la imagen en paint para aplicar la función floodfill y ver si encotramos algo que nos pueda interesar.





Ya estando en paint aplicamos fill con un color contrastante:



Finalmente encontramos así la bandera

Bandera

flag: picoCTF{w1z4rdry}

Notas Adicionales

Referencias

<u>file-signatures</u>