

Reporte de reto Forense - PicoCTF

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1 Introducción

Primeramente vemos que tenemos un reto forense el cual se trata de analizar un documento para ver lo que lleva oculto, llevando mas allá nuestros conocimientos en análisis de archivos.

2 Revisión del documento

- Como primera impresión observamos que hay partes censuradas en el documento.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer posuere erat a a
dapibus posuere velit aliquet. [REDACTED]. Et
tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum mass
risus. Curabitur blandit tempus porttitor. [REDACTED], consecet
[REDACTED]

You thought this was important? Nah, it's just random text. Keep looking. Or n
maybe, you're in the wrong place?

Special Hidden Section:

[REDACTED] ←
Don't bother trying to reveal the hidden text, it's just nonsense anyway. Even if
you manage to do it, all you'll get is:

[REDACTED] ←

- Se puede ver que si seleccionamos la parte censurada y la copiamos a un editor de texto habremos obtenido datos interesantes.

The screenshot shows a PDF document with several redacted sections. Numbered circles 1 through 4 point to specific areas:

- Circle 1 points to a redacted line of text containing the word 'tempus'.
- Circle 2 points to another redacted line of text.
- Circle 3 points to a section titled 'Special Hidden Section:' which contains redacted text.
- Circle 4 points to a redacted line of text at the bottom of the page.

 To the right of the PDF viewer, the extracted text from the redacted areas is shown in a code block:


```

1 Aenean lacinia bibendum nulla sed consectetur
2 Lorem ipsum dolor sit amet
3 The author have done a great and good job
4 No flag here. Nice try though!
    
```

Contenido descubierto de textos censurados

Textos censurados

Descubrimiento de textos censurados

- Viendo que en el anterior paso no encontramos nada relevante tendremos que intentar otros métodos, intentemos ver los datos en bruto (Raw Data) usando la herramienta **strings**, haber que encontramos.

The screenshot shows raw PDF data with several lines of text. Line 9, which contains the word 'Author' followed by a redacted string, is highlighted with a green box. An arrow points from this highlighted area to the text 'Datos en bruto' below it.

Datos en bruto

```

7 2 0 obj
8 /Producer (PyPDF2)
9 /Author (cGljb0NURntwdXp6bDNkX20zdGFkYXRhX2YwdW5kIV8wZTJkZTVhMX0\075)
10 endobj
11 3 0 obj
12 /Type /Catalog
    
```

- Desciframos el cifrado sospechoso

The screenshot shows a terminal window with a command to decode a base64 encoded string:


```

> echo -n 'cGljb0NURntwdXp6bDNkX20zdGFkYXRhX2YwdW5kIV8wZTJkZTVhMX0\075' | base64 -d;echo
picoCTF{puzzl3d_m3tadata_f0und!_0e2de5a1}
    
```

 An arrow points from the terminal output back to the text 'Descifrando' below it.

Descifrando

- Introducimos la flag en el reto de Pico CTF para ver si realmente acabamos el reto.

The screenshot shows a challenge interface with a text input field containing the flag 'picoCTF{puzzl3d_m3tadata_f0und!_0e2de5a1}' and a blue 'Submit Flag' button. Below the input field, the text 'Introduciendo flag' is displayed.

Introduciendo flag

- Y listo, nos salió las felicitaciones, reto resuelto.

Hurray! You have solved this challenge
correctly again.

×

Reto resuelto