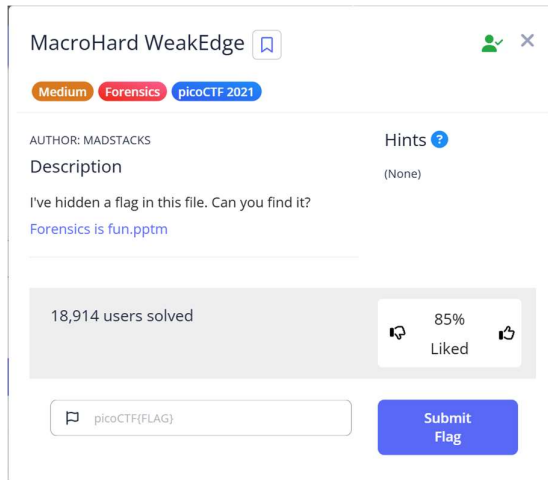


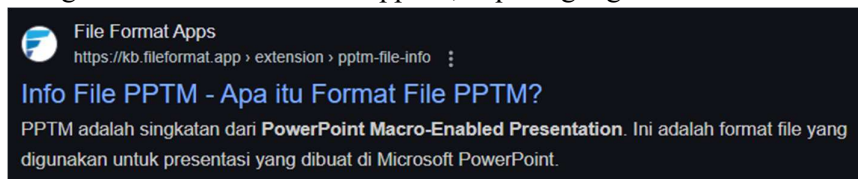
MacroHard WeakEdge

By: Achideon (?!)

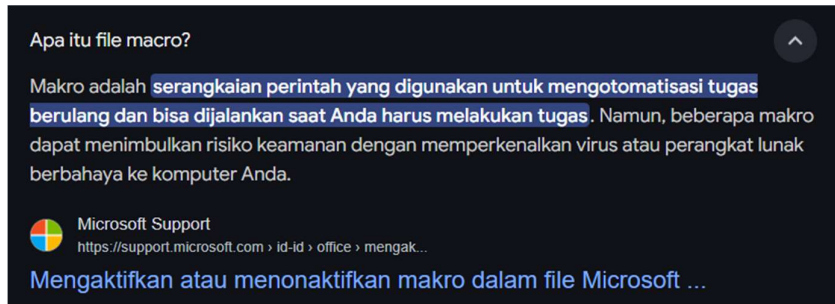


Take a look at this challenge yeah

The given file is in format of '.pptm', a quick google search shows this



Well most likely this challenge is linked with macros, but what is macro?



TL;DR Macro is a line of code that is run when you open a file (which, usually an Office file)

So I tried to check the macro inside this .pptm file using 'olevba' (shoutout to Billy for introducing me to this), however it leads to a dead end

```
(achideon@LAPTOP-NR5N5KT9) - [~/CTF/Pico]
$ olevba 'Forensics is fun.pptm'
olevba 0.60.2 on Python 3.11.9 - http://decalage.info/python/oletools
=====
FILE: Forensics is fun.pptm
Type: OpenXML
WARNING For now, VBA stomping cannot be detected for files in memory
=====
VBA MACRO Module1.bas
in file: ppt/vbaProject.bin - OLE stream: 'VBA/Module1'
-----
Sub not_flag()
  Dim not_flag As String
  not_flag = "sorry_but_this_isn't_it"
End Sub
No suspicious keyword or IOC found.
```

life_is_not_daijobu.jpeg

Well since it's a forensics challenge my first instinct was to check the hex, and turns out the hex has something in it

```
-Untitled- x Forensics is fun.pptm x
00000000 50 4B 03 04 14 00 06 00 08 00 00 00 21 00 97 7E PK.....!.ù~
00000010 51 A0 A2 02 00 00 A4 29 00 00 13 00 08 02 5B 43 Qáo...ñ).....[C
00000020 6F 6E 74 65 6E 74 5F 54 79 70 65 73 5D 2E 78 6D ontent_Types].xm
00000030 6C 20 A2 04 02 28 A0 00 02 00 00 00 00 00 00 00 l ó..(á.....
00000040 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00000050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00000060 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
```

Does it feel familiar? It's because 0x504b0304 is in fact a zip file header, that means this .pptm file can be opened as a zip file
(apparently the .pptm format can be converted into .zip format)

Spesifikasi Format File [↗](#)

File yang dihasilkan dengan format file Office Open XML adalah kumpulan file XML bersama dengan file lain yang menyediakan tautan antara semua file penyusunnya. Koleksi ini sebenarnya adalah arsip terkompresi yang dapat diekstraksi untuk melihat isinya. Untuk melakukannya, cukup ganti nama ekstensi file PPTM dengan zip dan ekstrak untuk mengamati isinya.

Bagian berikut menjelaskan masing-masing bagian ini.

Extracted the zip, and now we have a folder full of the contents inside the .pptm file

```
s > Forensics is fun >
Name                               Date modified      Type                Size
--
_rels                               30/03/2025 0:15    File folder
docProps                            30/03/2025 0:15    File folder
ppt                                  30/03/2025 0:15    File folder
[Content_Types]                     30/03/2025 0:15    XML Document        11 KB
```

(yippee)

I admit, this is where I went wrong, I spent hours looking at the xml files which in fact is just the builder file for .pptm, turns out you have to open the folder inside Linux to view the hidden file

```
ls > Forensics is fun > ppt > slideMasters >
Name                               Date modified
--
_rels                               30/03/2025 0:15
slideMaster1
```

(in Windows)

```
(achideon@LAPTOP-NR5N5KT9)~[~/CTF/Pico/Forensics is fun/ppt/slideMasters]
$ ls
hidden _rels slideMaster1.xml
```

(in Linux)

Well looking inside the 'hidden' file I found a base64 code

```
(achideon@LAPTOP-NR5N5KT9)~[~/CTF/Pico/Forensics is fun/ppt/slideMasters]
$ cat hidden
ZmxhZzZzOGcgG1jb0NURntEMWRfdV9rbjB3X3BwdHNfc196MXA1fQ
```

After decyphering the code we will get the flag needed

Output

```
|flag: picoCTF{D1d_u_kn0w_ppts_r_z1p5}
```

Problem solved

flag: picoCTF{D1d_u_kn0w_ppts_r_z1p5}



(picture unrelated)

(ak mw dapet SSS di USM master T_T)