

2025

# CTF INTERNACIONAL METARED ETAPA MEXICO

WRITEUP

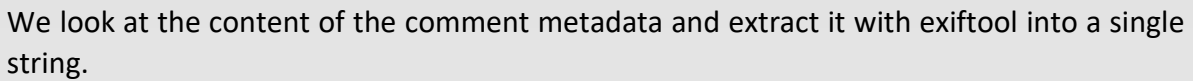
## CHALLENGE

DarkInfo

## Description

<b>Title:</b>	<b>DarkInfo</b>
<b>Description:</b>	The hunt consists of checking details in each object found
<b>Flag:</b>	flagmx{Al_sp33ds_7p_d33pf4k3_cr34t10n}
<b>File:</b>	Video.7z
<b>Dificultad:</b>	Avanzado
<b>Tags</b>	Misc

An mp4 file is provided containing base64 metadata, when decoded it is seen that it is a rara and when decompressed it is obtained the flag



The file `archivo_extraido_limpio.b64` contains a base64 string. If we decode it, we see that it indicates it's a RAR.

```

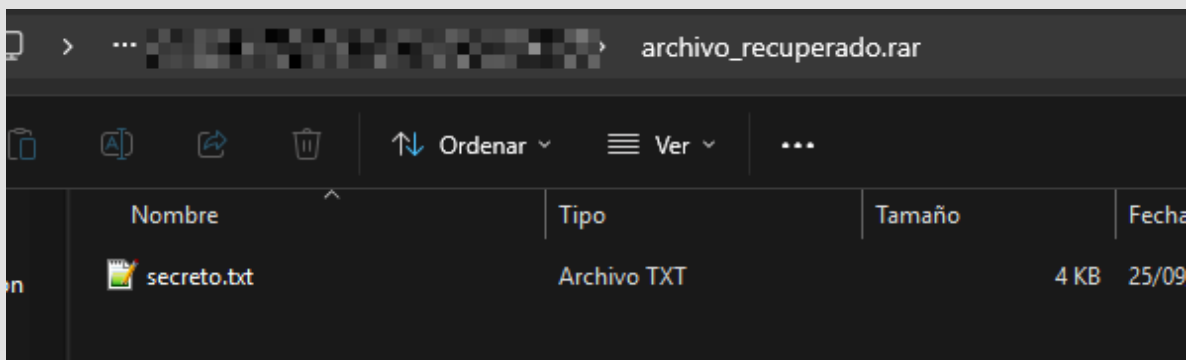
$ base64 -d archivo_extraido_limpio.b64
Rar!
secreto.txt
Ew.
Ee4#T+ETB+t/  ,*#VpNBDéJ[ JU+k)V{
u;5d'naQl8'Ol( P~cOAn" T^U7fûo9s:HLJB

```

we decode it as rar.

```
$ base64 -d archivo_extraido_limpio.b64 > archivo_recuperado.rar
```

We unzip the archivo\_recuperado.rar file and obtain a secret.txt file with the flag.



Looking at the secreto.txt file, we see that the first character of each line contains the flag; we can see the characters {}. It only remains to observe the details and perform processes to reverse the strings.

```

1 1Xz6RYMJ9nITSZDkSxGj1EgfasA8k0Ra2A1rB89q1r1AcqRQnqDK51VhxbR20hZzGim7bKAfczJv6pvdWkSNJPomGdyNw12vcMB
2 nhrFkSWk7J1FoddgpfVv198w0lmiv5qCj17jQIDeDr5W6CayN5nB5JtVK93h0DNGRSWH8DfBbALuJ0mVS32a0Y41M5V37cuSbPQ8
3 0UaBeLjLHHmZYFHHoNePyiOrtXjU6XKjvLgqRX1XkG114D4mBb3GjA5STo0YOKZVJ1HMBuVelgXs8jxCeHSZrb3HRXLu2GsbZQzO
4 1XhBOK0bRcnheo37vFZPE4AkcsCcFfG0j5vUya8AF2e0GDahFuU1jnQGiUx0agJTB2R4ELiCDCzAa1UCQgrBGfWfNDXLLhNWLbLp
5 tRtMtmLV1KquZgxPmMwQ049ThToSzZnQu0r2zU09p8CeICzn90YH8Q9c4bp9JyKYFzHyeIDeCS9cAW13IGeZy32uyQA3JgJauhZUL
6 4N6dRJR1R13h51paec4PQ1XQLElWj3BWq1Ao6GIs1DJY3osN5bjRnX2nfPR9ZnNXTEJggs0X1XWCughvYVkrYs7b3F0EvGvRPDBP
7 3QMEs8vWtbrPAWY2oQF5wiu8ti77rdcE61kfAlD0oNY0Q3iREzW9JivBGfocyqd7tsRLt8fHgK19GVuaNI6Ts7UpwWCH6BDaV0QD
8 rvHevpdSoJZdIuz3bJcUUSIdOAfAp9oaNU6S4cuS0IePiEhRv7cN7bEWDN4rhucWQA69XR5k6a1UNxx12eYwpIeGqVhH061f9YU
9 c0o3KmdTiyFrXlu0lkFUQCgtsIp1UpjuMP1PzgEnTvHz3qgnGdiqthktosGfTzVzEsqMR6zGKxOTwgyMSov8oVMSVKLvihtfywLX
10 39SgTKR3VHKCZsTWs0aaV1Rdvs1qgWjHe681E3CAqXgpgHBRGmsqiUrwv3H5dyFCWEJ5gKEBKRWL67ZUEH4N2q4JN1b4t1fxqh
11 312XzhhyX2RJsDh16I7MQoceWvy6NGcs4E0KpeIn11BNgv0t52bDVtJsnXbyJXjKkM4G3EfMJNpyk6bfm1ETNnxYrROV1xLFxiJm
12 kh61buLY1efcy1Ca8zFEzgpok0HzR1rygsRqjw0ryS1LnGHMopAPg33c4BsAsQF8zCAUj0rEsXxZq4suyKJnLb06OjWWiCOk6BAG
13 4nM5YbCrL7tgmU50e9CaVmNt4KdpyV35a1OUHAk4m3w7p6uZo5FCat67DCS8J1SMCtXvtCURJ8aQdGbPj1M8JV9w38CqnRb5A
14 fHLEs2qUbHw3PL1TQ4YjymHC8fHQGrudRNQp8zOorgdoHNsQRZ09KDbKGKfYXMQegU92wDjnGBiMrIsCM8bN68qLD9Gs5gKXmx17j
15 p3r6IcbFvd4Qu7OCVKNmiRi32R8CpJSCeaz6w0GEN8Z261EEQX1odO2FWxbWrgxJuhRtgWdBgdCmXob7UIDRjLABAPggBWZsD1J
16 32WJn7MazXkmJkGXDSH11j2SMrBMwg4taBIM5L2Y8yA6FT1ytpNmwf36v2zplvyZqiKq72EHnw7RamdyxP6N9X5yCzvEqh717NDZ
17 32e0whqg9j1MUDz3UEZvPBjYMXurqa8udyR5fdFj1uhgYqpwIfTSLph8Vz1oW4BeH3rz6nKiTi8DN2QH46MhwhHnkZ1P3BbLjhVAR
18 daaez8dfr3G6tfzI4AqUavtV0KYnqGAWU2qahAHhbiFTitQ3061MkVH9AjhWuPf4Vkfjnm379tPzvfrr55wxwSPwFFjR57E1iHD8
19 _Gzwp6vCvsOmOd2R3uuErHLQHqQRfipIpKXCX8QaSBiEEyPW1B2tu3vYqdVeuEahhC7FZTwVKTcUsgszwuPlyYywyg5ptBgDc5X
20 paAotLS5quCzRPiXyU4dnOEmt3h9W9MsUwTk0NFocKVZr4L3vDerruWZeQ1C84DgESGPN23xrQQtLReffBiYGZKGyzzYwnKxxzO
21 7wsS4fEybwmzYjj1TEaetLFxYtVbhekGaCk2TINARLW8Pd1RLs17KfQ8Kb4a8RyGfVKFhOZmovQsRyCu8c2Jdg0Bg1AbPCV3Q10IM
22 _3BggjDMeZemqCcUM7sgISPRIF1L2YFGkbHnQ58N4K1e8zFyrwJxsAsxHs6YGHQytCW7tY0NtQpZ9s69SR9Uprhj4trgGUx0DIO
23 sXRCx4A7EtWjZxKzm60EphvvSgkYK4D9mB0n5FVPRgVldRYM8UDoGfLPd60Qwhid98INpNTaDvVQNYNTA0U6YmKo0K08ipHyiTDWz
24 d2MeFvYjNh6EzKdyH8VpcEs4ptoLGU73fAO5H1JZKmWzyCiqLG3zmmvHYc9PmK4nC2J4ySmGU177G2NxpM9E19ogNek5NyvfXsv
25 3QZM8djQbXCdaC0gVe4c1dJX8XFxxhW08JBEjPI7WxVZVjSLMwKKUF6QdKJ611Y5h44MnCNidYdx0MBUtw54kZun8TjZ30SMzzcJ
26 3QGTf1lPp1dQ1drREq76GueqRjjPLxbYCIeWKFtdovtPPzV00EvbXpMHN7K8RyOYxrFrA82351PAPgyYTO9sQxe3dKQprK5zo5SX
27 p1BLDmWdDfnC5VKzfrBA2LprpxFBde9pbmj5zqR230uXf5wPrqIBGno0Z8ODG5x51UDU2h7PiKoDOZajmkJmTqExqJ7W6kJDO7Zz
28 s8BY0ZYGHWF5vuwEtSFiH7W2BYA7JcXf5209B68gNtITap9aOF7IrtYrYrJrVtY6D2qnnosmsgzvAUjXoGX0lweEARE6qxtV2D
29 UP7NK8uSL1HrIVLaTaboVPTPe8RYkgaT2a26V76aiTEhUuriZd9hZEVBxFan8dY6ucNuRsaQd3S9tWunxtCaLroIhuAfCDfWt2f
30 I8m9UjtaFtFzO2DAuhTGP0W5B7UYpdzbzAJto8smjB20JeKxo9szHm4rAHpbZMVtCUfR56TeCjx8boAzBCEnJwkPv5Or6iQ96YQ
31 A39kp0lTzCVV5vtzRPC7OYKvWYk90mE271cCKZtPxt3tqWIR5SsSrTFK1K2YGobALssg9C06VfYDvKhBana8hSnpT3qqmivAoG
32 (VZxUINSPPP88w8oPgvdh9ghQW1iCV2n13XspZrzXK05sWZ2k3YqIubthOm3csqGEQfpyLLpGNmndLQGTz7hdzLGw9EfKh0dRGxU
33 x7YvZUyIhqMxczqjQndom6yz6Whc7GsOGgPq8unqDjDgqOdMaeOE1PT26he4vM39McFu6Czd6V6jT2bd7jnds35QbXeZTa9WbLDE
34 mQKxkyEDnQ1k1JB2119EbZB0dRVY7ySTH3ba7gEbLZU1i08NE1XS7BLTtCYOUdK08E7pT20MwXbMLTLatXnKSSzoH21dJQtDO
35 gS8L8914aBQRV60o02uKVWstQvCmWnUUXdlp9eE44JjyBFQULAB21kgacZbvi431118AXtRRKzjM05D4xo8GDW0xvI3B1u3XQ
36 ac4v5fTZDFbwp03CywybNqr0Yul6eIuoVTSoc6s4YyvTnerRsiZaGc4kvCX9gDRmxtUP3W3jd7kY6eUakEVMJFP7DiEtMzLCbZPTy
37 lTCtST9cNxxzfkRdztcyhcFpPmpg5SsrBhot4iXuCl8D700dZzufqnsMcZsiC3N674SskKE0w8q1SV2Y9qXhb0W6EDhQcKEMLGmm
38 fHE2vOYQIJ5fJXsr3hPwW0DWDnsgXsNcbX07h2zFjCYq0GZAgk9jNL8UcFGy9Li8jFQaCTkgP016pccQp3h1mi6fm4BoGLjTuQf8
39

```

You can run or create a script in Bash or PowerShell to automatically perform the steps. An example would be the following.

```

$rutaArchivo = "secreto.txt"
$lineas = Get-Content $rutaArchivo

$cadenaUnida = ($lineas | ForEach-Object {
    if ($_-ne "") { $_[0] } else { "" }
}) -join ""

$arrayCaracteres = $cadenaUnida.ToCharArray()
[array]::Reverse($arrayCaracteres)
$cadenaInvertida = -join $arrayCaracteres
Write-Host "Cadena invertida:"
Write-Host $cadenaInvertida
Write-Host ""

```

Running this script allows us to obtain the flag. The first characters of each line are the flag characters; they must be scrolled horizontally and then reversed.

```
PS C:\Users\user> .\decodificar.ps1
Cadena invertida:
flagmx{AI_sp33ds_7p_d33pf4k3_cr34t10n}
```

The flag is:

**flagmx{AI\_sp33ds\_7p\_d33pf4k3\_cr34t10n}**