

Blast From the Past

- So here basically, we have a picture, in its metadata, all of it's time fields are set to 2023, we need to set them to 1970 and then test it with the nc command in a server, if it validates all the fields then it gives us the flag...
- We use a command called "perl" to change the strings in the binary files directly:

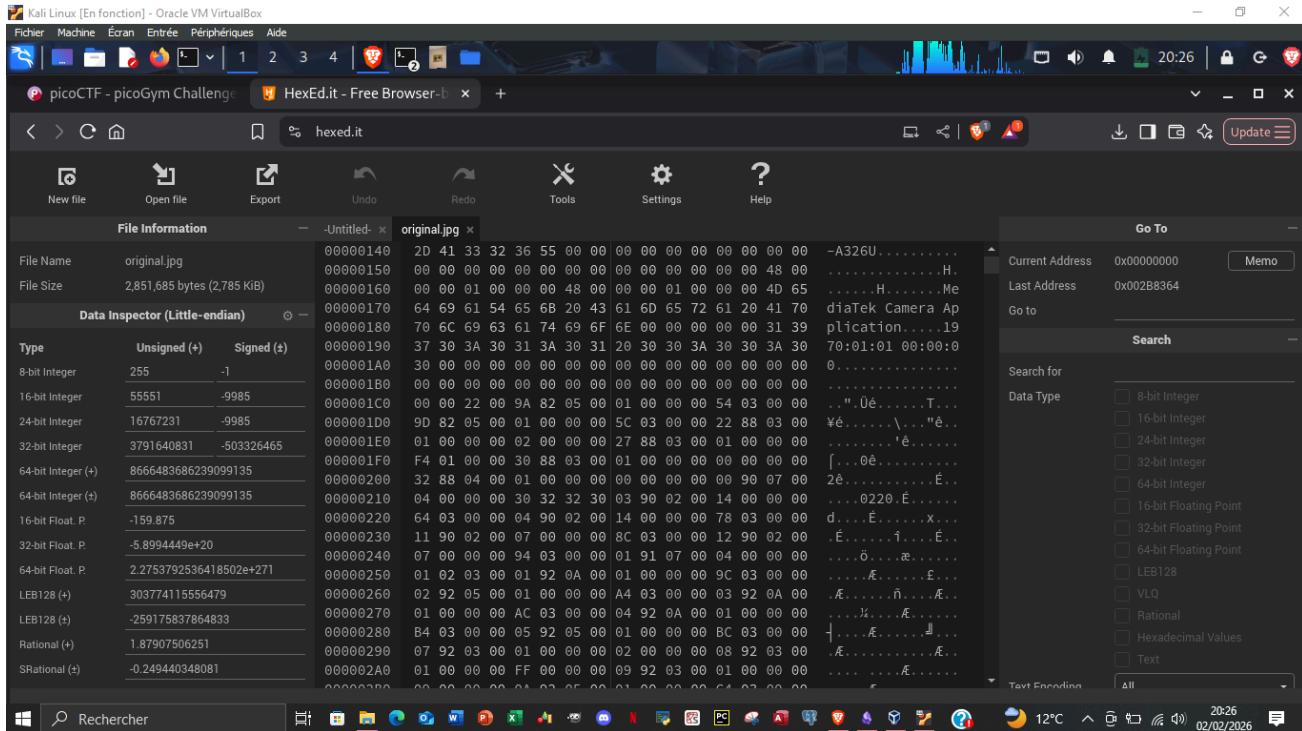
The screenshot shows a terminal window titled "Kali Linux [En fonction] - Oracle VM VirtualBox". The terminal content is as follows:

```
(capscorpion142@asaad)-[~/Autoformation/CTFs/PicoCTF/Blast From The Past]
$ strings original.jpg | grep 2023
2023:11:20 15:46:23
2023:11:20 15:46:23
2023:11:20 15:46:23 CreateDate
2023:11:20 15:46:23 SubsecCreateDate
(capscorpion142@asaad)-[~/Autoformation/CTFs/PicoCTF/Blast From The Past]
$ perl -pi -e '$<2023:11:20 15:46:23>=1970:01:01 00:00:00' original.jpg

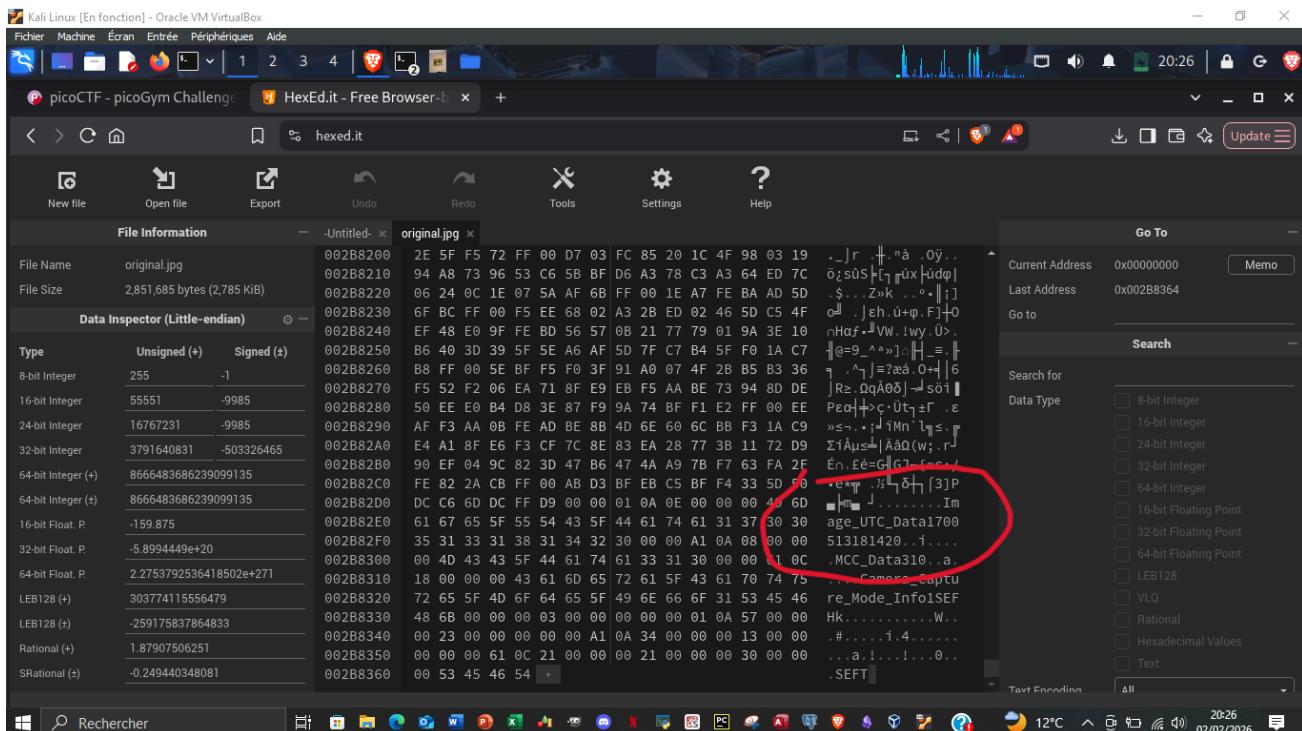
(capscorpion142@asaad)-[~/Autoformation/CTFs/PicoCTF/Blast From The Past]
$ strings original.jpg | grep 1970
1970:01:01 00:00:00
1970:01:01 00:00:00
1970:01:01 00:00:00
(capscorpion142@asaad)-[~/Autoformation/CTFs/PicoCTF/Blast From The Past]
$ Checking tag 0x7
Looking at Composite: SubsecModifyDate
Looking for 1970:01:01 00:00:00.001
Found: 1970:01:01 00:00:00.001
Great job, you got that one!
Checking tag 77
Timezones do not have to match, as long as it's the equivalent time.
Looking at Samsung: Timestamp
Looking for 1970:01:01 00:00:00.001+00:00
Found: 2023:11:20 20146121.420+00:00
Oops! That tag isn't right. Please try again.
(capscorpion142@asaad) [~]
```

- But the problem is that this command only modifies the strings not the hex values...
- So it changed all fields except for a specific one (Samsung)...

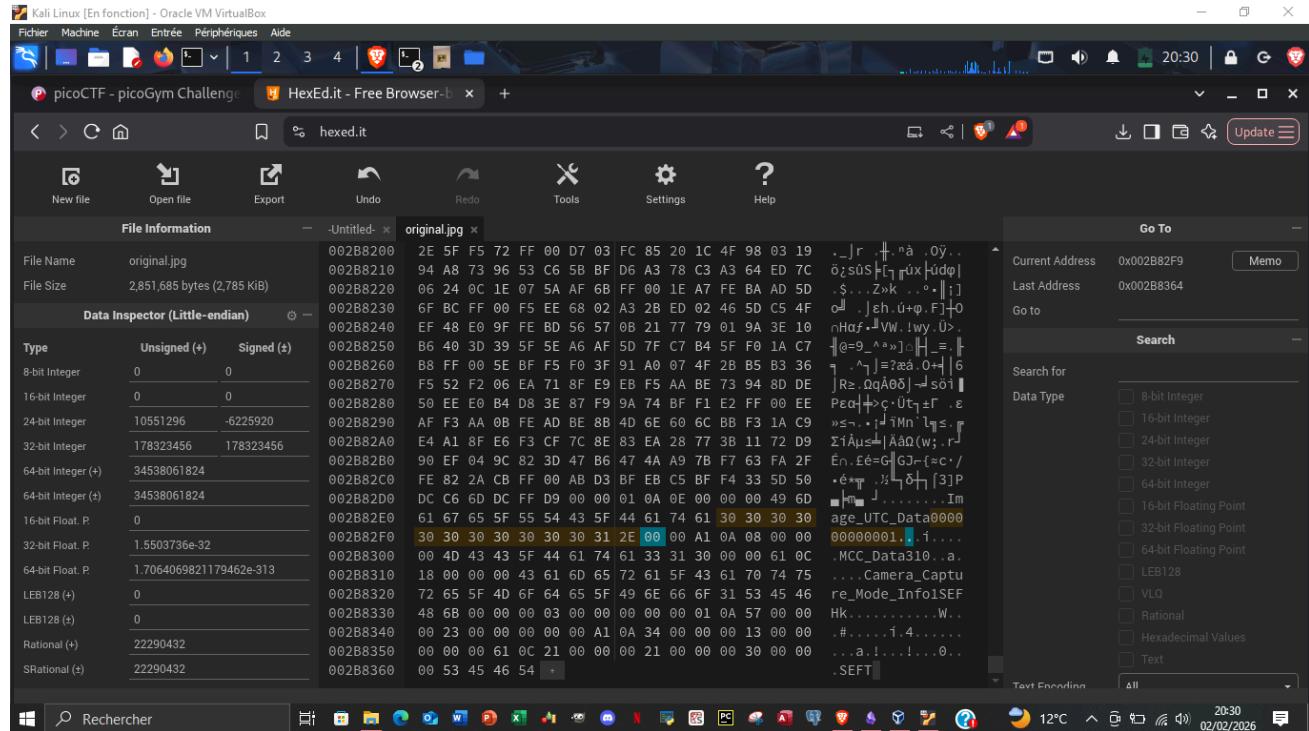
- here, the trick is that we must open the file in a hex editor...



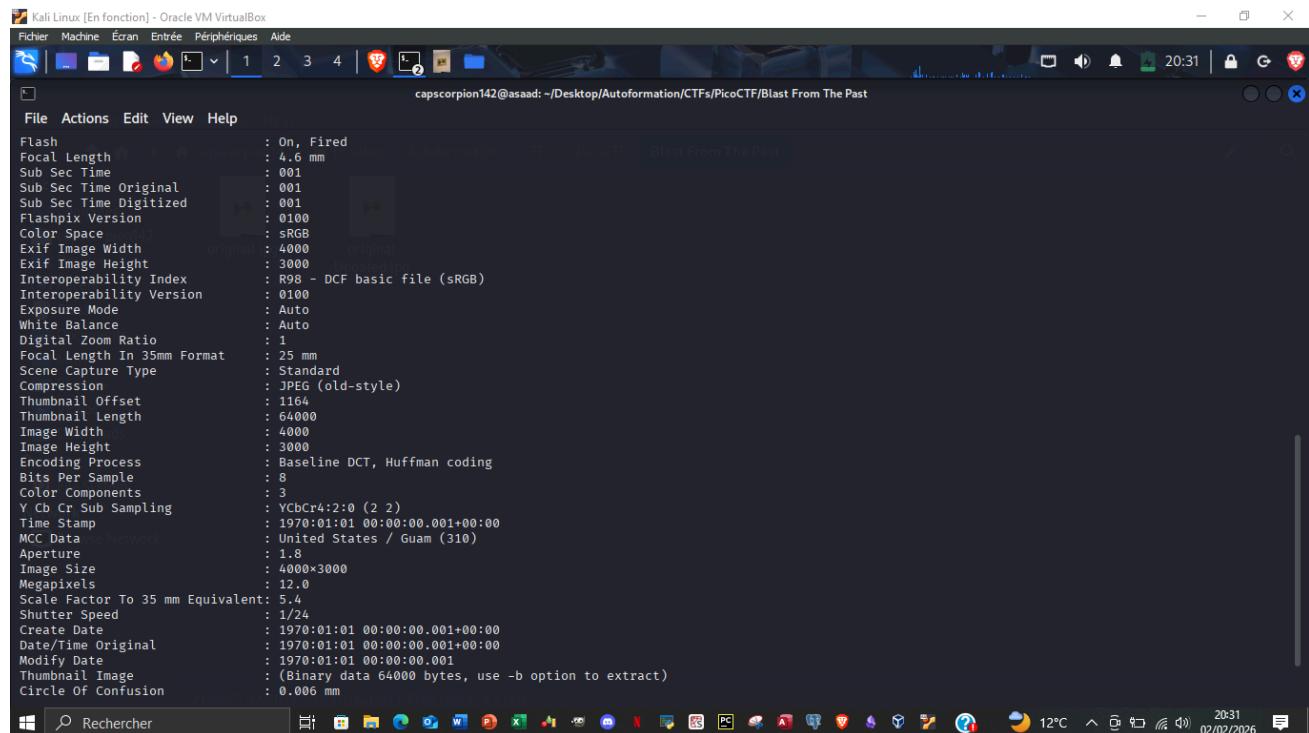
- We go the bottom, we notice an image UTC field



- We write after Data : 0000000000001 (12 zeros) :



- And so everything is set to 1970:



- And so it validates...