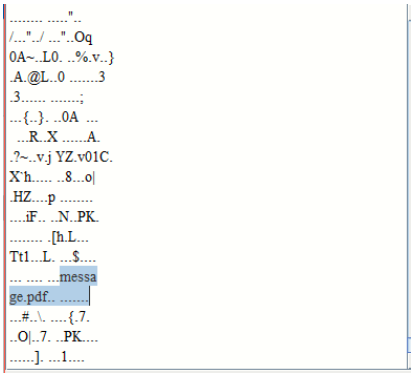
Meepwn CTF Quals 2018

White Snow , Black Shadow

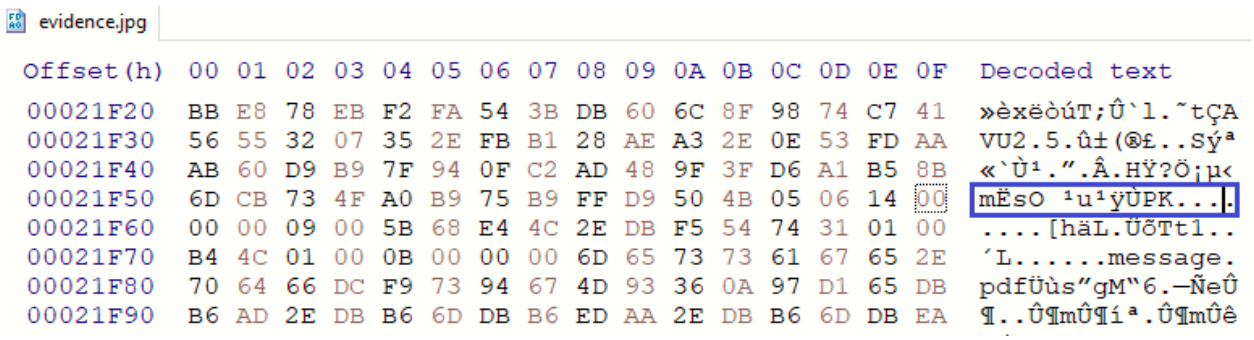
100pts

evidence.jpg - This is the file found in zip download

At the first time, I tried to strings this file. So I put it in hex editor and I noticed something interesting



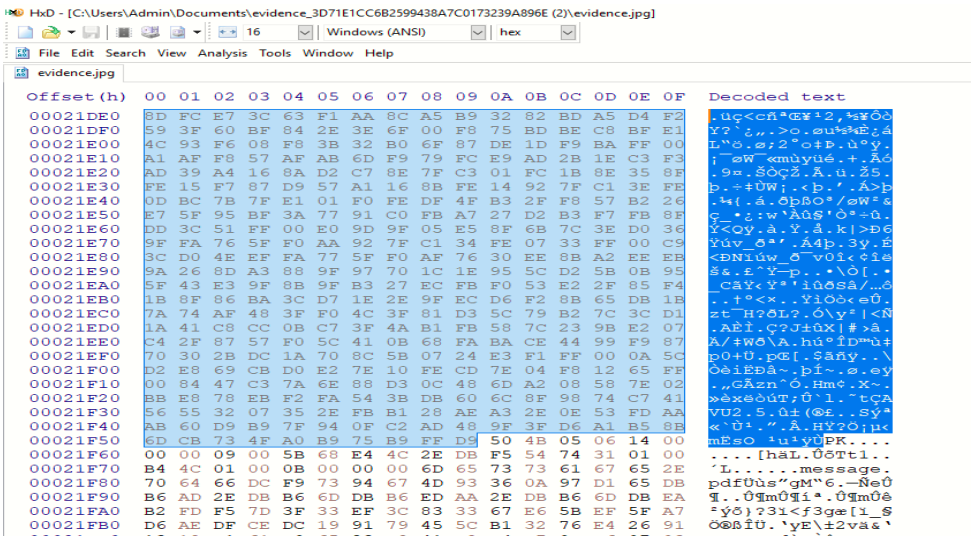
You can see I found PDF File from this image and I have to extract it by anyway. When I checked it again, I found another file after JPEG Image. And as you see there is a interesting thing which is (PK). This's PK Signature!



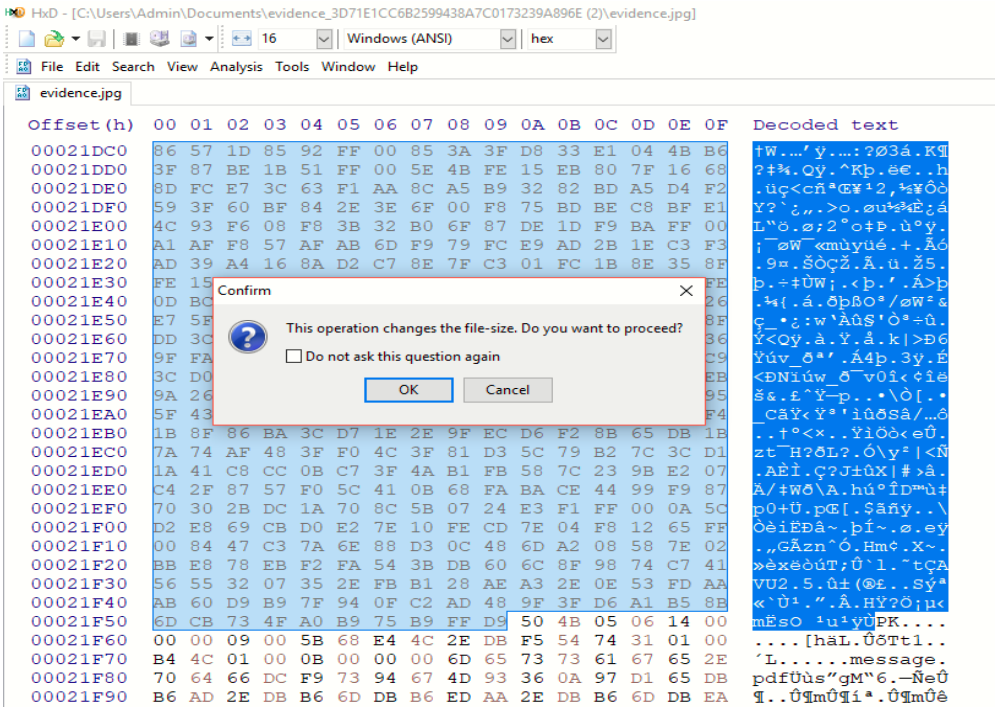
From a List of File Signatures (I searched it in Google), I got that PK Signature can support ZIP Files which is means that signature can be ZIP File Signature which is means that:

Image = Image + ZIP File

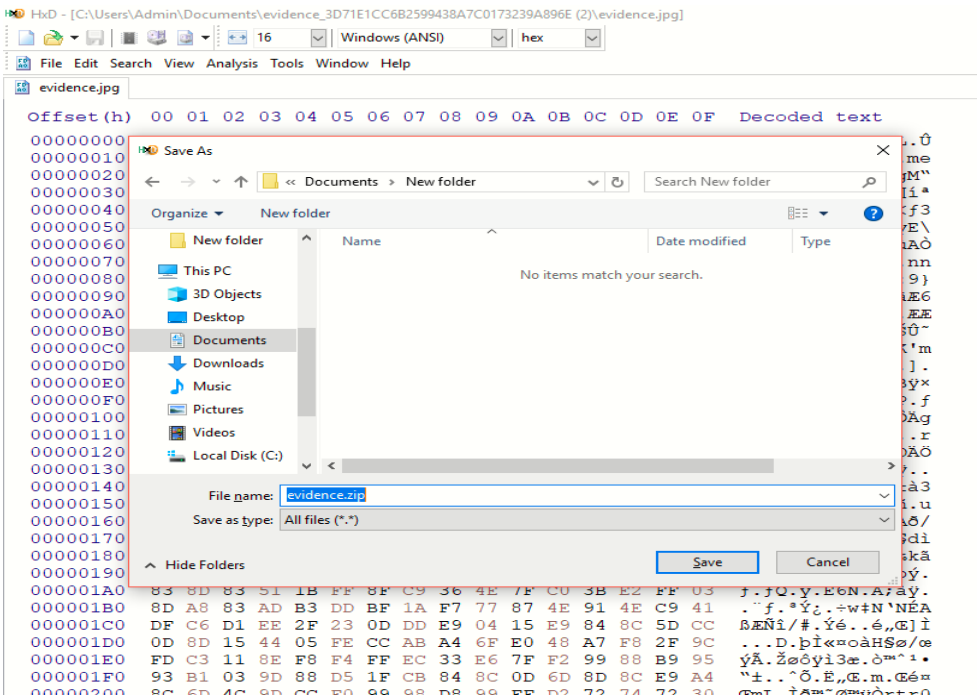
And you know I need check and extract just the ZIP File. So let's start it:



Select the image bytes until End of JPEG Image



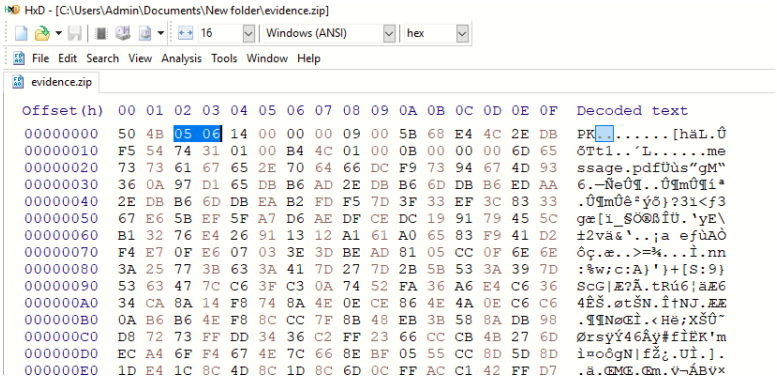
Delete the selected bytes



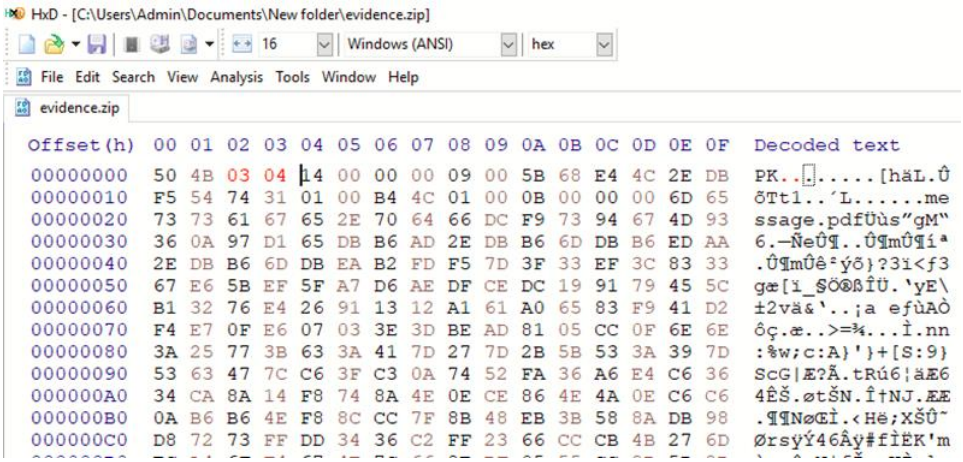
Save a new file

But I can't open this ZIP File, and this is a big problem. I checked it again 'cause I could lost something. Wait, something wrong with the header of this ZIP File and I checked a List of File Signatures one again. And the problem was in two bytes (05 06), so to fix it I have to change it into (03 04).

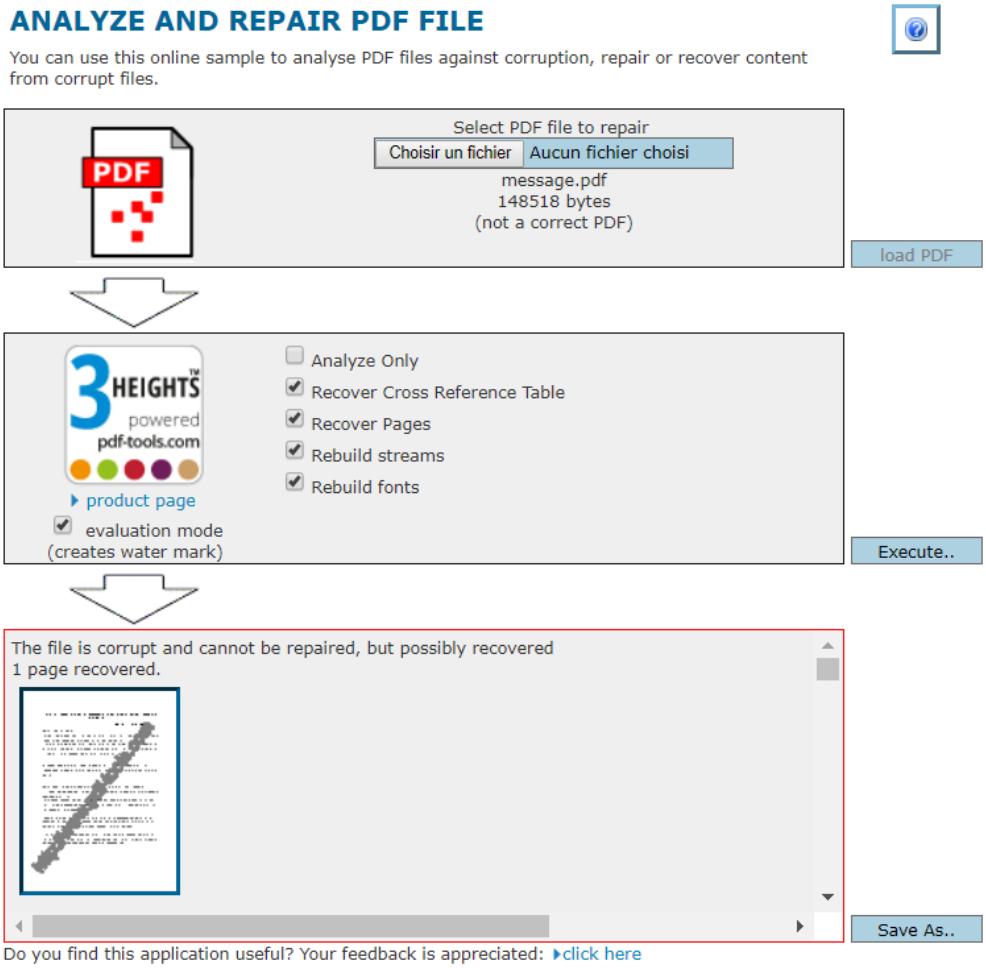
Before



After



Then saved it as message.zip, extracted it with 7-Zip instead of Winrar and i found (message.pdf). But it's corrupted file and I used [Online Repair PDF File Tool](#) to repair before I open it. Then you can saved it as (nameulike.pdf).



So sad 'cause I couldn't see the flag after I read it many times. And I tried to Google to find the original text and compared it with my text. Differents between the original text and the text which i found in PDF File (message.pdf), that's maybe a flag. Collect, read the text then sort all off-topic words or characters and finally i collected the Flag .

FLAG is: ***MeePwnCTF{T3xt_Und3r_t3Xt!!!!}***