POGTEAM

FEBRUARY 15, 2017 BY RAFAEL_P

AlexCTF 2017 - CR1: Ultracoded

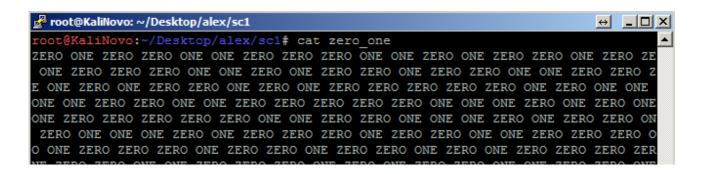
CR1: Ultracoded

Description

Fady didn't understand well the difference between encryption and encoding, so instead of encrypting some secret message to pass to his friend, he encoded it! Hint: Fady's encoding doens't handly any special character

Solution

The challenge give us a file full of the words ZERO and ONE.



Our first instinct was to replace the words for the numbers 0 and 1, respectively. After that, at the first sight, we spotted a base64 string.

Decoding the base64, it showed a nice morse code string, using [this](http://www.unit-conversion.info/texttools/morse-code/) website, we got the following text:

alexctfth15o1so5up3ro5ecr3totxt

After put the flag in the correct format: **ALEXCTF{TH15_1S_5UP3R_5ECR3T_TXT}**

```
1. import binascii
2. import base64
3.
4. with open('zero_one') as f:
5.         r = f.read().split()
6.
7.         print '[+] Bin: ' +
''.join(r).replace('ZERO','0').replace('ONE','1')
8.         print '[+] B64: ' + str(binascii.unhexlify('%x' % (int(''.join(r).replace('ZERO','0').replace('ONE','1'),2))))
9.         print '[+] B64 Decode: ' +
base64.b64decode(binascii.unhexlify('%x' % (int(''.join(r).replace('ZERO','0').replace('ONE','1'),2))))
```



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