

RCTF crypto100(1)

weixin_33814685

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版权

decode the file

100

0 solves

decode the file(this flag is like ROIS{xxx})

http://blog.csdn.net/cip_d0283b2c5b4b87423e350f8640a0001e

Key

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题面是一个文件，里面是用base64加密的字符串，如下所示：

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[illegible]

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CWQgPSBrLmVuY3J5cHQodW5oZXgoIjAwMDEwMjAzMDQwNTA2MDcwOEZGOEZEQ0IwNDA4MDAwMDEwMjAzMDQwNTA2MDcwOEZGOEZEQ0IwNDA
CWlmIGsuZGVjcnlwdChkKSAhPSB1bmhleCgiMDAwMTAyMDMwNDA1MDYwNzA4RkY4RkRDQjA0MDgwMDAwMTAyMDMwNDA1MDYwNzA4RkY4RkR
CQlwcmludCAiVGZzdCA2IEVycm9yOiBVbmVuY3lwdGVkIGRhdGEgYmxvY2sgZG91cyBub3QgbWFOY2ggc3RhcncQgZGF0YSI=
ZGVmIF9fZmlsZXRLc3RfXygpOg==
CWZyb20gdGltZSBpbXBvcnQgdGltZQ==
CWYgPSBvcGVuKCIweURlcy5weSIsICJyYisikQ==
CWQgPSBmLnJlYWQoKQ==
CWYuY2xvc2UoKQ==
CXQgPSB0aw1lKCK=
CWsgPSBkZXMoIk15REVTS2V5Iik=
CWQgPSBrLmVuY3J5cHQoZCwgIiAiKQ==
CWYgPSBvcGVuKCIweURlcy5weS5lbnMiLCAid2IrIik=
CWYud3JpdGUoZCK=
CWYuY2xvc2UoKQ==
CWQgPSBrLmRlY3J5cHQoZCwgIiAiKQ==
CWYgPSBvcGVuKCIweURlcy5weS5kZWMiLCAid2IrIik=
CWYud3JpdGUoZCK=
CWYuY2xvc2UoKQ==
CXByaw50ICJERVmGZmlsZSB0ZXN0IHRpbWU6ICVmIiAlICh0aw1lKCKgLSB0KQ==
ZGVmIF9fcHJvZmlsZV9fKCK6
CWltcG9ydCBwcm9maWxl
CXByb2ZpbGUucnVuKCDfX2Z1bGx0ZXN0X18oKScp
CSNwcm9maWxlLnJ1bignX19maWxlVGZdF9fKCKnKQ==
aWYgX19uYW1lX18gPT0gJ19fbWFOY2ggc3RhcncQgZGF0YSI=
CV9fdGVzdF9fKCK=
CSNfX2Z1bGx0ZXN0X18oKQ==
CSNfX2ZpbGV0ZXN0X18oKQ==
CSNfX3Byb2ZpbGVfXygp
```

于是解密之后发现和python的一个官方文档相同。这个时候思路就开始跑偏了。。。当时自己想的是比较这两个文件，结果就是越来越偏。

看了别人的writeup之后才搞清楚base64原来有这么多的奥秘在里面。。。

事实上，这个题目利用的是base64加密后的字符串来藏字符。如果base64字符串后面有=时，说明前一个字符的后四位是任意的，既可以写入信息的。如果是=结尾的，前一个字符的后两位是任意的，可以写入信息。

然后还有一个地方在于base64的字符集，要对之前和之后的位置进行异或，再将其拼接起来，就是01字符串，转成字符串得flag。。。

代码：


```

import base64

f=open("C:\\Users\\wangchong\\Desktop\\wangchong\\crypto100\\timian.txt")

index='ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/'
line=f.readline()
while line:
    line2=base64.b64encode(base64.b64decode(line))
    line=line[0:len(line)-1]
    if(line[-1]==line[-2]=='='):
        x=line[-3]
        x1=line2[-3]
        res=str(bin((index.find(x))^(index.find(x1)))).replace('0b','00')[-4:]
        if(len(res)==3):
            res='0'+res
        print (str(res)),
    elif(line[-1]=='=' and line[-2]!='='):
        x=line[-2]
        x1=line2[-2]
        print str(bin((index.find(x))^(index.find(x1)))).replace('0b','00')[-2:],
    line=f.readline()

```

结果如下：

```

>>>
01 0100 10 0100 1111 0100 1001 0101 0011 0111 1011 01 1000 1001 1000 01 01 11 00
1101 1001 0101 01 1111 0100 01 1101 0000 0101 0111 1101 10 00 11 0110 00 0101 0
0 11 10 0101 1111 0110 0010 00 11 0011 01 01 1111 0110 0100 0011 0001 0110 0110
0110 01 1001 10 01 01 01 01 00 1000 11 0011 0110 1110 0101 0100 0111 1101 0000 0
0 0000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0 00 00 0000 0000 00 00 00 00 00 0000 0000 0000 00 00 00 0000 0000 00 00 0000
00 0000 00 0000 0000 00 0000 00 00 0000 00 0000 0000 0000 0000 0000 0000 0000
00 00 00 0000 00 00 00 0000 0000 0000 0000 0000 00 00 0000 00 0000 00 00 0000
0000 00 0000 0000 00 0000 0000 00 0000 00 0000 0000 0000 00 0000 0000 00 0000 0
0 0000 0000 0000 00 0000 00 0000 00 0000 00 00 00 0000 00 00 0000 0000 00 00 00
00 00 0000 00 00 0000 0000 00 00 00 00 0000 0000 00 00 00 0000 0000 00 0000 0000
0 0000 00 00 0000 00 0000 00 0000 0000 0000 0000 0000 0000 0000 0000 00 00 0000
0000 0000 00 0000 0000 0000 00 0000 00 00 0000 00 00 00 00 0000 00 0000 00 0000
000 0000 00 0000 00 00 0000 00 0000 0000 0000 00 0000 00 00 0000 00 00 0000 0
0 00 0000 0000 0000 00 00 0000 00 0000 00 0000 00 0000 00 0000 00 00 0000 000
0 0000 0000 0000 0000 00 0000 00 00 0000 0000 00 0000 0000 00 0000 0000 0000 00
0000 0000 00 00 0000 00 00 0000 0000 0000 0000 0000 0000 0000 0000 00 00 0000
0000 0000 00 00 00 00 0000 00 0000 0000 00 00 00 00 00 0000 0000 00 0000 0000
0000 00 00 0000 00 00 0000 00 00 00 0000 0000 00 00 00 00 00 0000 00 00 0000
00 00 0000 00 00 00 0000 00 0000 00 00 00 00 00 00 00 00 0000 00 00 0000 00 000
0 00 0000 00 0000 0000 00 0000 0000 0000 0000 0000 00 00 0000 00 00 0000 0000 00
00 0000 0000 0000 00 00 0000 0000
>>> s="01 0100 10 0100 1111 0100 1001 0101 0011 0111 1011 01 1000 1001 1000 01 0
1 11 00 1101 1001 0101 01 1111 0100 01 1101 0000 0101 0111 1101 10 00 11 0110 00
0101 00 11 10 0101 1111 0110 0010 00 11 0011 01 01 1111 0110 0100 0011 0001 011
0 0110 0110 01 1001 10 01 01 01 01 00 1000 11 0011 0110 1110 0101 0100 0111 1101
"
>>> s=s.replace(' ','')
>>> s
'010100100100111101001001010100110111011011000100110000101110011011001010101111
101000111010000010101111011000110110000101001110010111101100010001100110101111
101100100001100010110011001100110010101010010001100110110110010101000111110
1'

```

将这些字符拼接到一起转字符串，得到：

在线转换二进制到字符串

输入二进制文本:

```
01010010010011110100100101010011011110110110001001100001011100110110010101011111010001110100000101  
01111101100011011000010100111001011111011000100011001101011111011001000011000101100110011001100110  
01010101001000110011011011100101010001111101
```

<http://blog.csdn.net/>

转换后的文本:

```
ROIS{base_GA_caN_b3_d1ffeR3nT}
```

转载于:<https://www.cnblogs.com/lightspeedsmallson/p/5173965.html>