

# 攻防世界 Misc高手进阶区 6分题 pyHAHA

原创

思源湖的鱼 于 2021-01-13 22:57:54 发布 758 收藏 2

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## CTF

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### 前言

继续ctf的旅程

攻防世界Misc高手进阶区的6分题

本篇是pyHAHA的writeup

发现攻防世界的题目分数是动态的

就仅以做题时的分数为准了

### 解题过程

拿到一个pyc

反编译

结果显示反编译不成功

猜测是pyc隐写

报错

扔进winhex

```
00 00 06 05 4B 50 01 D2 F2 82 14 FB E8 89 01 D2 KP 00, uè% 0
F2 82 14 FB E8 89 01 D2 73 F3 39 D7 1F D6 00 18 0, uè% 0s09× 0
00 01 00 00 00 00 00 20 00 0A 33 70 6D 2E 65 6C 3pm.e1
62 69 73 73 6F 50 20 74 49 20 6D 61 65 72 44 00 bissoP tI maerD
```

发现有压缩文件

且倒序了

```
f = open('PyHaHa2.pyc', 'wb')
with open('PyHaHa.pyc', 'rb') as g:
    f.write(g.read()[::-1])
f.close()
```

正序后

发现少文件头 `03F30D0A`

补上

00000000	03 F3 0D 0A A5 CA 57 59 63 00 00 00 00 00 00 00	ó ŸEWYc
00000016	00 07 00 00 00 40 00 00 00 73 3C 01 00 00 64 00	@ s< d
00000032	00 64 01 00 6C 00 00 6D 01 00 5A 01 00 01 64 02	d l m Z d
00000048	00 84 00 00 5A 02 00 64 03 00 84 00 00 5A 03 00	„ Z d „ Z
00000064	64 04 00 84 00 00 5A 04 00 64 05 00 5A 05 00 64	d „ Z d Z d

在末尾发现

00 01 00 01 00 67 00 00 00 A7 73 7D 00 90 00 66	g \$s} f
6C 61 67 31 3A 20 65 63 38 64 35 37 64 38 32 30	flag1: ec8d57d820ad8c586e4be0122b442c871a3d71cd8036c45083d860caf1793ddc
61 64 38 63 35 38 36 65 34 62 65 30 31 32 32 62	ad8c586e4be0122b442c871a3d71cd8036c45083d860caf1793ddc
34 34 32 63 38 37 31 61 33 64 37 31 63 64 38 30	442c871a3d71cd8036c45083d860caf1793ddc
33 36 63 34 35 30 38 33 64 38 36 30 63 61 66 31	36c45083d860caf1793ddc
37 39 33 64 64 63 0D 0A 66 6C 61 67 32 3A 20 63	793ddc flag2: c
34 30 61 30 62 65 33 33 35 62 61 62 63 66 62 64	40a0be335babcfbd8c47aa771f6a2ceca2c8638caa5924da58286d2a942697e
38 63 34 37 61 61 37 37 31 66 36 61 32 63 65 63	8c47aa771f6a2ceca2c8638caa5924da58286d2a942697e
61 32 63 38 36 33 38 63 61 61 35 39 32 34 64 61	a2c8638caa5924da58286d2a942697e
35 38 32 38 36 64 32 61 39 34 32 36 39 37 65	58286d2a942697e

flag1: ec8d57d820ad8c586e4be0122b442c871a3d71cd8036c45083d860caf1793ddc

flag2: c40a0be335babcfbd8c47aa771f6a2ceca2c8638caa5924da58286d2a942697e

foremost分离

得到一个压缩包

里面有一个mp3

名称	大小	压缩后大小	类型	修改时间	CRC32	
..			文件夹			flag1: ec8d57d820ad8c586e4be0122b442c871a3d71cd8036c45083d860caf1793ddc
Dream It Possible.mp3 *	8,938,447	8,221,556	媒体文件(.mp3)	2017/1/21 22:32	73D2EB55	flag2: c40a0be335babcfbd8c47aa771f6a2ceca2c8638caa5924da58286d2a942697e

解压要密码

看了下

是伪加密

图示部分改为 `0008`

08221600	B7 FF FC DB FF FD 3F 50 4B 01 02 3F 00 14 00 00	·yüÜÿÿ?PK ?
08221616	08 08 00 16 B4 35 4A 55 EB D2 73 74 73 7D 00 CF	5JUeÖsts} Ī
08221632	63 88 00 15 00 24 00 00 00 00 00 00 01 00 00	c^ \$

解压得到mp3

在备注里有key

## Dream It Possible 属性

属性	值
说明	
标题	Dream It Possible
副标题	
分级	☆☆☆☆☆
备注	163 key(Don't modify):L64FU3W4YxX3ZFTmbZ+8/ dx5jBNPdsKv9gAgXYyj0/Z0V140RaCLH5D0oN9v9nBBv6zxpBucgNeE2qqke4ugZs7dxriT51fUpulX5PYMzSg2pqL6APTHQjtIHw16ZCRTMBBkInrUGSTk1A2MwPLGkuDTmWfzjHqDWEK5LLRP6oiOXe0JeI9mLHzL2nm6T3/ianaPEzeH7lpE/ciWdyqFUXoTZWeyK0xTjYxB5j9RJFoaoIxmXk6P8MJq+EvcS7ratByRUvWLaUFhcXhJ1iRK58BKcVPS0hxkzA77WB1UnrUfPkS1U/F5uYmYWGZ3Cz2fTvJHcsE228LUnnybaoIoDyY6BvZVUitmA+VhhTHoIKsREyCzC3VXq/HuwuHdCdftzXJpXPoJSNzWAZH0oGnF+WE7m5Fqd36dqp2srL5bgFjFnyZzIkxdaU+ZW+Rm7aIbrb7nK2Pp9iequ0BV6rnKeHZyc3hzG4lVvapoX1/U2cvfVgIqVtnuJE4XM4NuUd
媒体	

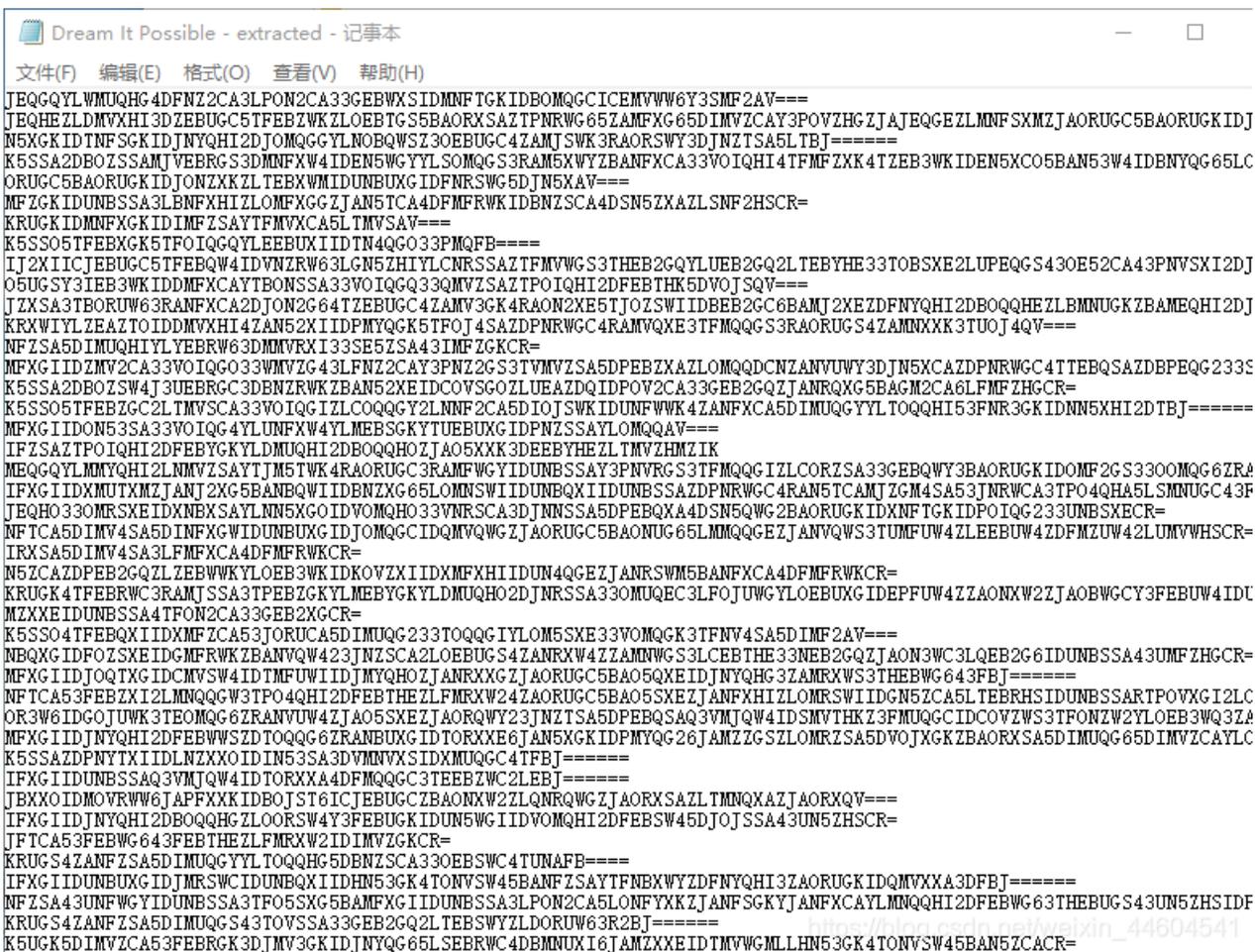
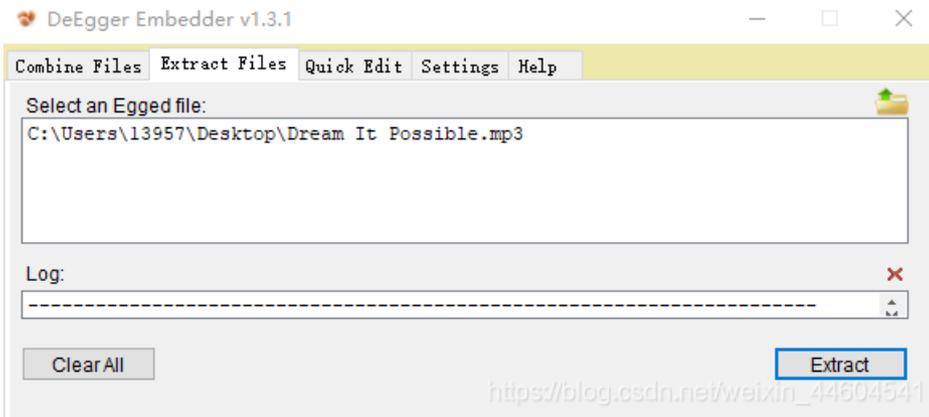
163 key(Don't modify):L64FU3W4YxX3ZFTmbZ+8/ dx5jBNPdsKv9gAgXYyj0/Z0V140RaCLH5D0oN9v9nBBv6zxpBucgNeE2qqke4ugZs7dxriT51fUpulX5PYMzSg2pqL6APTHQjtIHw16ZCRTMBBkInrUGSTk1A2MwPLGkuDTmWfzjHqDWEK5LLRP6oiOXe0JeI9mLHzL2nm6T3/ianaPEzeH7lpE/ciWdyqFUXoTZWeyK0xTjYxB5j9RJFoaoIxmXk6P8MJq+EvcS7ratByRUvWLaUFhcXhJ1iRK58BKcVPS0hxkzA77WB1UnrUfPkS1U/F5uYmYWGZ3Cz2fTvJHcsE228LUnnybaoIoDyY6BvZVUitmA+VhhTHoIKsREyCzC3VXq/HuwuHdCdftzXJpXPoJSNzWAZH0oGnF+WE7m5Fqd36dqp2srL5bgFjFnyZzIkxdaU+ZW+Rm7aIbrb7nK2Pp9iequ0BV6rnKeHZyc3hzG4lVvapoX1/U2cvfVgIqVtnuJE4XM4NuUd

扔进audacity

无果

查了下

有个工具[DeEgger Embedder](#)



得到一堆base32

回头看看那个处理好的pyc

反编译得到







```
from PIL import Image

str=open("data.txt","r").read()
length=240
width=30
pic=Image.new("RGB",(length,width))
i=0
for x in range(length):
    for y in range(width):
        if str[i] == '0':
            pic.putpixel([x,y],(0,0,0))
        else:
            pic.putpixel([x,y],(255,255,255))
        i += 1
pic.show()
pic.save("Fl4g.png")
```

```
flag{H4pPy_pY_C0d1ng}
```

得到flag

## 结语

蛮有意思的一题  
最后还是查了wp

知识点

- [pyc隐写](#)
- [pyc反编译](#)
- [zip伪加密](#)
- [DeEgger Embedder](#)
- [base32隐写](#)
- [OTP加密](#)
- [二值图像](#)