

# [Misc]2022DASCTF Apr X FATE 防疫挑战赛 wp

原创

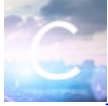
是Mumuzi 于 2022-04-24 13:03:05 发布 2050 收藏 9

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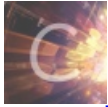
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## Misc

### SimpleFlow

一个签到题, 一个个翻tcp流发现在第50流压缩了一个flag.txt, 在第52发现该flag.zip,原始数据提取出来后发现需要密码, 密码是在压缩时提供的, 该流量为蚁剑流量, 于是在第50流找

到 `g479cf6f058cf8=1DY2QgIi9Vc2Vycy9jaGFuZy9TaXR1cy90ZXN0Ij t6aXAgLVAgUGFTc1ppUFdvckQgZmxhZy56aXAgLi4vZmxhZy50eHQ7ZWNobyBbU107cHdkO2VjaG8gW0Vd`

base64解

码 `Y2QgIi9Vc2Vycy9jaGFuZy9TaXR1cy90ZXN0Ij t6aXAgLVAgUGFTc1ppUFdvckQgZmxhZy56aXAgLi4vZmxhZy50eHQ7ZWNobyBbU107cHdkO2VjaG8gW0Vd`

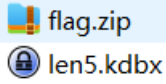
得到密码 `PaSsZiPwOrD`

解开压缩包得到flag

```
DASCTF{f3f32f434eddbc6e6b5043373af95ae8}
```

## 熟悉的猫

首先解压得到两个文件



这个kdbx正好上周做国外取证题的时候用过，因此知道是用什么工具打开

然后发现没有告诉密码，但kdbx的文件名为len5，猜测为爆破，使用passware进行爆破,18秒后得到密码

The screenshot shows the 'Recover File Password' application window. The main title is 'len5.kdbx'. Below the title, there is a summary of the file's properties:

- Folder: C:\Users\mumuzi\Desktop\1\附件
- File Type: KeePass Professional File — Open Password, AES-256, Hardware acceleration possible
- Complexity: Brute-force - Slow
- MD5: 48D09A113595D776F1EAF8FFEAC2643F

The main results section shows the following:

- Password: File-Open: **13152**
- KeePass accounts**
- Accounts' passwords: **jbRw5PB2kFmor6IeYYil**
- Michael321: **12345**
- User Name: **Password**

At the bottom of the window, a summary box displays:

- PASSWORDS FOUND: **4**
- TIME ELAPSED: **18 seconds**
- PASSWORDS ANALYZED: **55,115**

Navigation buttons at the bottom include 'Print', 'Save Job', 'RESUME ATTACKS', 'SAVE REPORT', and a watermark 'CSDN 是 Mumuzi'.

解开的密码为13152

里面的内容是 **jbRw5PB2kFmor6IeYYil**，用该密码解压压缩包。得到一个hint和一张图片

根据图片特征和题目，猜测为猫脸变换，这里只给了一串数字根据积累能联想到可能有两种解密的方式。

均尝试后发现没有反应或者报错，因此我想用脚本解。发现出题人塞了个零宽进去

Original Text:  (length: 1063)

```
k=928982032787029079297059386766720215003947914272057573691234892045653003
24959717082409892641951206664564991991489354661871425872649524078000948199
83265981527590928519882927692901469462811015982493093159516620327144326982
74495057076550858425636820609108139425045079366255557355859132735750501185
52353192682955310220323463465408645422334101446471078933149287336241772448
33842874030283385561642153852076926763611928594867454975660438494699618438
54075054561682401233197858009099332146957118280134839817319337730173369446
5639758387226712676778549745087854794302808950100966582558761224454242018
```

Hidden Text:  (length: 6)

22\*160

Steganography Text:  (length: 1111)

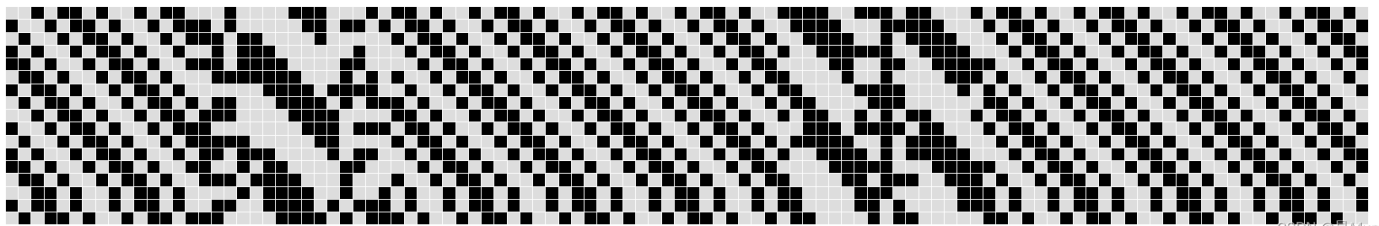
```
k=92898203278702907929705938676672021500394791427205757369123489204565300324
8597170824098926419512066645649919914893546618714258726495240780009481998326
5981527590928519882927692901469462811015982493093159516620327144326982744950
5707655085842563682060910813942504507936625555735585913273575050118552353192
6829553102203234634654086454223341014464710789331492873362417724483384287403
0283385561642153852076926763611928594867454975660438494699618438540750545616
8240123319785800909933214695711828013483981731933773017336944656397583872267
126767785497450878547943028089501009665825587612244542420184675789597666171
760166601016901402799619687403232736934716462374639133575644256695935287670
6364265509834319910419399748338894746638758652286771979896573695823608678008
8148616403085712568807943126520559571504645139503053550554952623758701028985
00643010471425931450046408608415893028902504561380607386895262338925680196
9190204127358098408264204643892520969704221896973544620102494391289663693407
573658064279947688509910028257209987991490259150865283245150325813888942058
```

[Download Stego Text as File](#)

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这里给了一个22\*160，试了下发现不是猫脸的参数，因此尝试去解k，用tupper自指发现貌似有点规律

5150325813888942058



CSDN @是Mumuzi

但是吧，这里和网上其他online decode都用的是标准的 17\*106

这里专门给说22\*160，于是去搜了个脚本改了一下大小



```

import cv2
import numpy as np

def arnold_decode(image, shuffle_times, a, b):
    """ decode for rgb image that encoded by Arnold
    Args:
        image: rgb image encoded by Arnold
        shuffle_times: how many times to shuffle
    Returns:
        decode image
    """
    # 1: 创建新图像
    decode_image = np.zeros(shape=image.shape, dtype=int)

    # 2: 计算N
    h, w = image.shape[0], image.shape[1]
    N = h # 或N=w

    # 3: 遍历像素坐标变换
    for time in range(shuffle_times):
        for ori_x in range(h):
            for ori_y in range(w):
                # 按照公式坐标变换
                new_x = ((a * b + 1) * ori_x + (-b) * ori_y) % N
                new_y = ((-a) * ori_x + ori_y) % N
                decode_image[new_x, new_y, :] = image[ori_x, ori_y, :]
    return decode_image

img = cv2.imread("flag.png") # 变换的图片
a = 121
b = 144
st = 1
pic = arnold_decode(img, st, a, b)
cv2.imwrite('flag2.png', pic) # 保存得到的图片

```


得到flag图片

DASCTF{751476c0-6cff-497f-9541-83ede0ebc5a0}

## 冰墩墩

解压出来是10w个txt文本，其中能找到start.txt

然后随便打开一个文本，内容如下

 00n3w0cmj0.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

111011110000110 =>The txt you should view is oseidrul03.txt

脚本倒是很好写了，看了一下start.txt

```
101000001001011 =>The txt you should view is m9312r95cr.txt 1 m9312r95cr.txt
11000000100 =>The txt you should view is 4oyjbqwl59.txt 2 4oyjbqwl59.txt
1010000000000 =>The txt you should view is 68xaswpxdb.txt 3 68xaswpxdb.txt
0 =>The txt you should view is g2ny4snblo.txt 4 g2ny4snblo.txt
0 =>The txt you should view is vm9c9h6elb.txt 5 vm9c9h6elb.txt
1100000110010010 =>The txt you should view is tv9qllntzj.txt 6 tv9qllntzj.txt
101110001010100 =>The txt you should view is g0lr1v5ypb.txt 7 g0lr1v5ypb.txt
0 =>The txt you should view is 50enwszh2b.txt 8 50enwszh2b.txt
0 =>The txt you should view is v9oia0j69h.txt 9 v9oia0j69h.txt
```

CSDN @是Mumuzi

这里把第一个前面补上0，就是504b，把第二行前面补上0，能凑出0304，发现这里每段都需要zfill(16)，因此写出如下脚本

```
import re
flag = ''
next = 'start.txt'
i = 0

while len(next) != 0:
    try:
        f = open(next).read()
        tmp = re.search('(.*?) =>', f).group(0)
        flag += tmp[:-3].zfill(16)
        tmp = re.search('is (.*?)', f).group(0)
        next = tmp[3:]
        i += 1
        print(f, i, next)
    except:
        f2 = open('../out.txt', 'w')
        f2.write(flag)
        exit(0)
```

得到01串之后用Cyberchef转换一下

