

CTF论剑场学习——杂项

原创

梳刘海的杰瑞 于 2019-11-09 17:26:35 发布 1729 收藏 2

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12 篇文章 0 订阅

订阅专栏

(<https://new.bugku.com/>)

头像

(<http://123.206.31.85:2018/touxiang.png>)

遇到图片题, 下意识下载后拖到winhex中分析, 搜索文本flag.

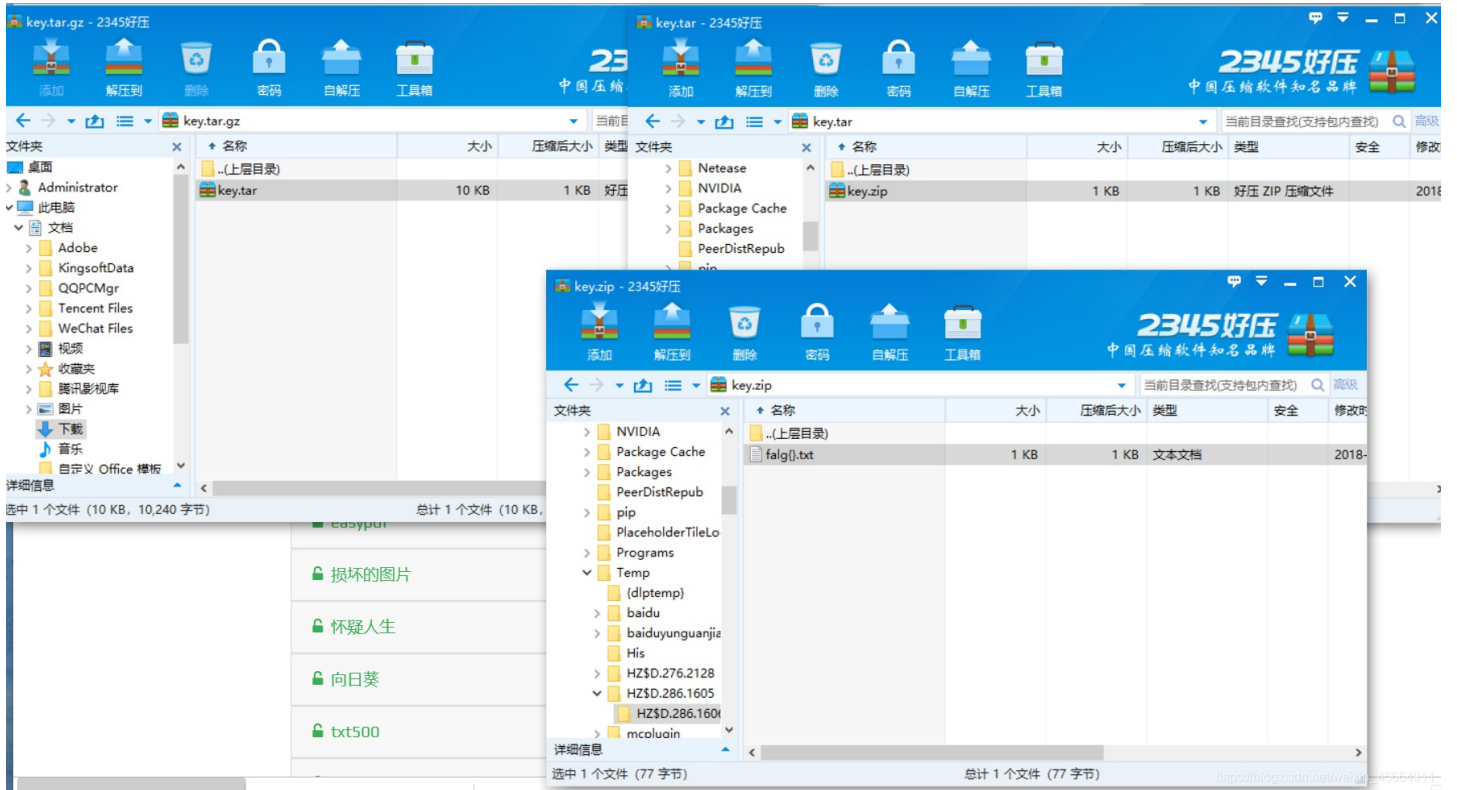
```
---
:20  30 BC D3 E6 74 78 7E 79  22 53 8F 2C AE E2 81 5B  040ætx~y"S ,@â [
:30  53 C4 62 05 D7 8A 9A 15  8C 08 9F 32 C6 79 C9 F9  SÄb x|| | |2ÆyÉù
:40  16 EE 1F 66 6C 61 67 7B  62 47 78 76 64 6D 56 30  i flag{bGxvdmV0
:50  61 47 56 6E 61 58 4A 73  7D 00 0B F9 98 7A 73 0D  aGVnaXJs} ù|zs
:60  B7 A9 5C AE DF 11 E3 8F  A9 45 E5 23 E6 14 63 DC  .@\@B ä @Eâ#æ cÛ
:70  D1 38 5C BA 4A E1 85 4D  79 3F 33 10 85 1A 32 83  Ñ8\ºJá|My?3 | 2|
```

签到

如题目所示, 点开即得flag.

0和1的故事

刚开始打开压缩包时，逐步解压得一个flag.txt文件，打开后发现是flag is not here。思考可能是遗漏了什么，然后发现压缩包大小不对，隐藏了文件？



key.tar.gz	2019/11/6 9:18	好压 GZ 压缩文件	1 KB
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324 字节

后来查阅资料加上大佬指点发现虽然都是压缩文件，但是格式（后缀）不一样。可以用下面一张图解释。

Tar、Zip和Gz格式效率测试

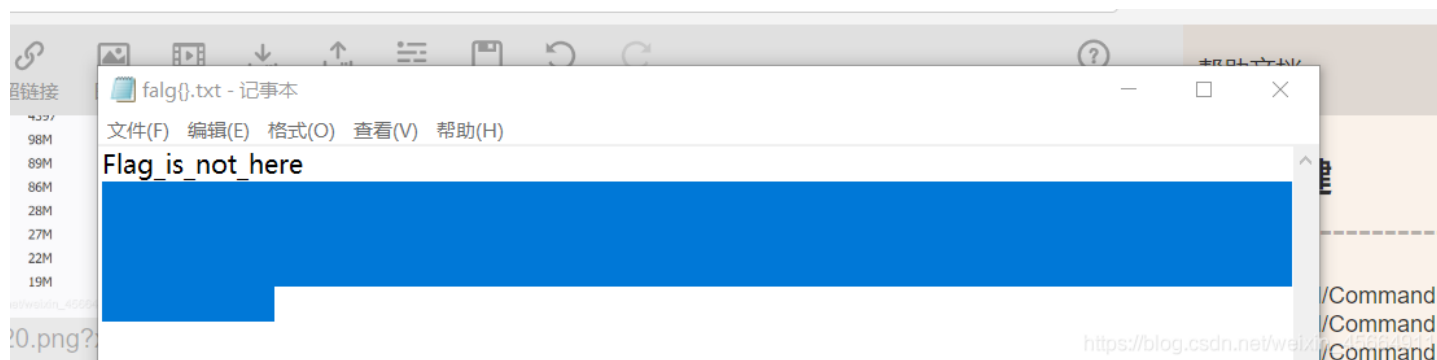
下面我们所讨论的是 Tar、Zip 和 Gz 文件格式压缩、归档后的磁盘空间效率而不是时间效率，如下是对 100MB 流行格式文件的测试对比：

文件类型	.jpg	.mp3	.mp4	.odt	.png	.txt
文件数	2163	45	279	2990	2072	4397
磁盘占用	98M	99M	99M	98M	98M	98M
tar	94M	99M	98M	93M	92M	89M
zip (不压缩)	92M	99M	98M	91M	91M	86M
zip (deflate)	87M	98M	93M	85M	77M	28M
tar + gzip	86M	98M	93M	82M	77M	27M
tar + bz2	87M	98M	93M	42M	71M	22M
tar + xz	70M	98M	22M	348K	51M	19M

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参考文章<https://www.linuxdc.com/Linux/2017-02/140397.htm>（这篇比较通俗易懂，较为全面）

所以排除了这个可能性，再去看题目时发现“听说空格和零很配”，考虑是否有空格隐写的可能，再次打开flag{}.txt文件，后面有很多空格。



20是空格表示1，那么09就表示0了，最后转换为16进制字符串就是最后的flag了

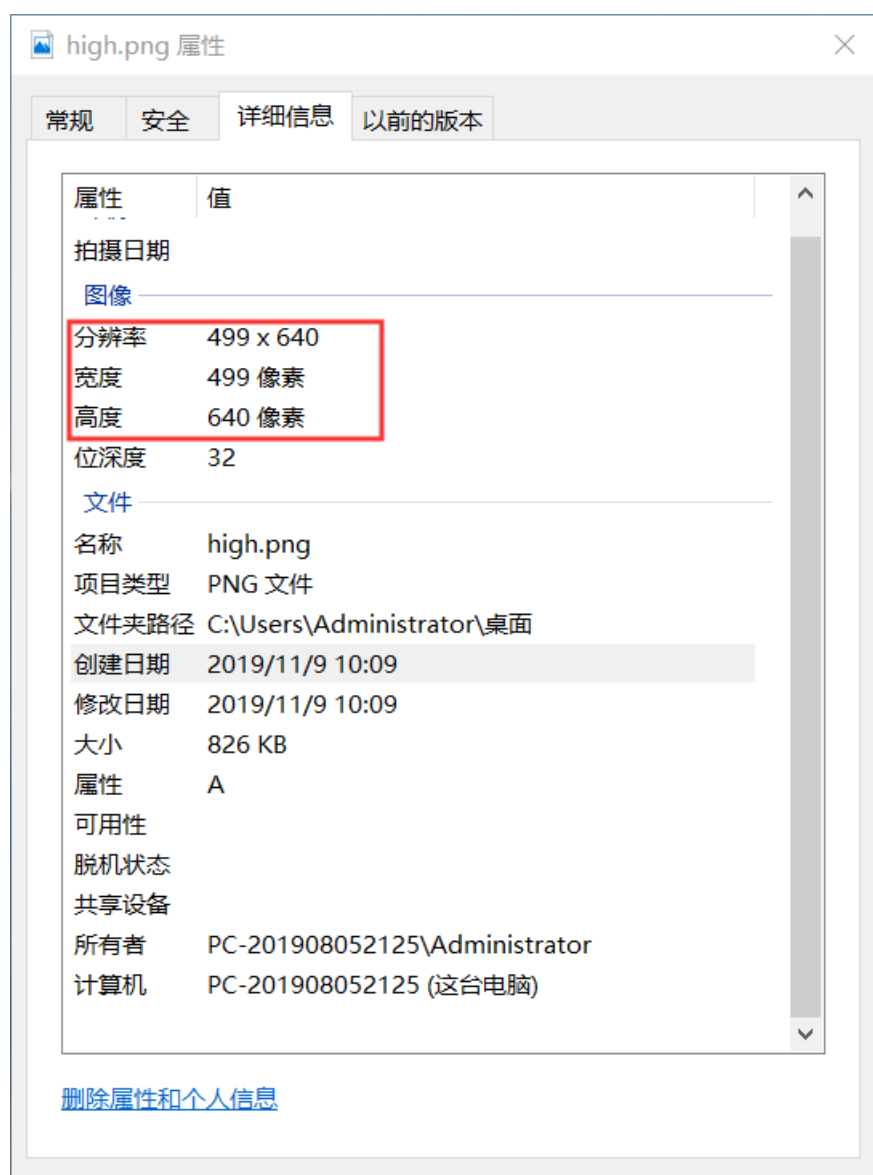
这个人真的很高

将图片下载后打开，并没有发现什么。

根据题目提示“这个人真的很高”，放入winhex中尝试改变图片的长宽，作为一个小白，这时候就要想改哪里，怎么改，改多少？

(白一下参考了以下文章<https://blog.csdn.net/CliffordR/article/details/81123232>)

先查看图片的具体数据



确定

取消

应用(A)

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然后决定把高更改成740，先搜索一个进制在线转换器，输入680，转换成16进制是280，在winhex中搜索0280。

```
set | 0 1 2 3 4 5 6 7 8 9 A B C D E  
J0010 | 00 00 01 F3 00 00 02 80 08 06 00 00 00 99 DA |  
-----|-----
```

锁定位置后，再搜索740所对应的16进制值，是2e4，将0280改成02E4，另存为XX。再打开更改后的图片

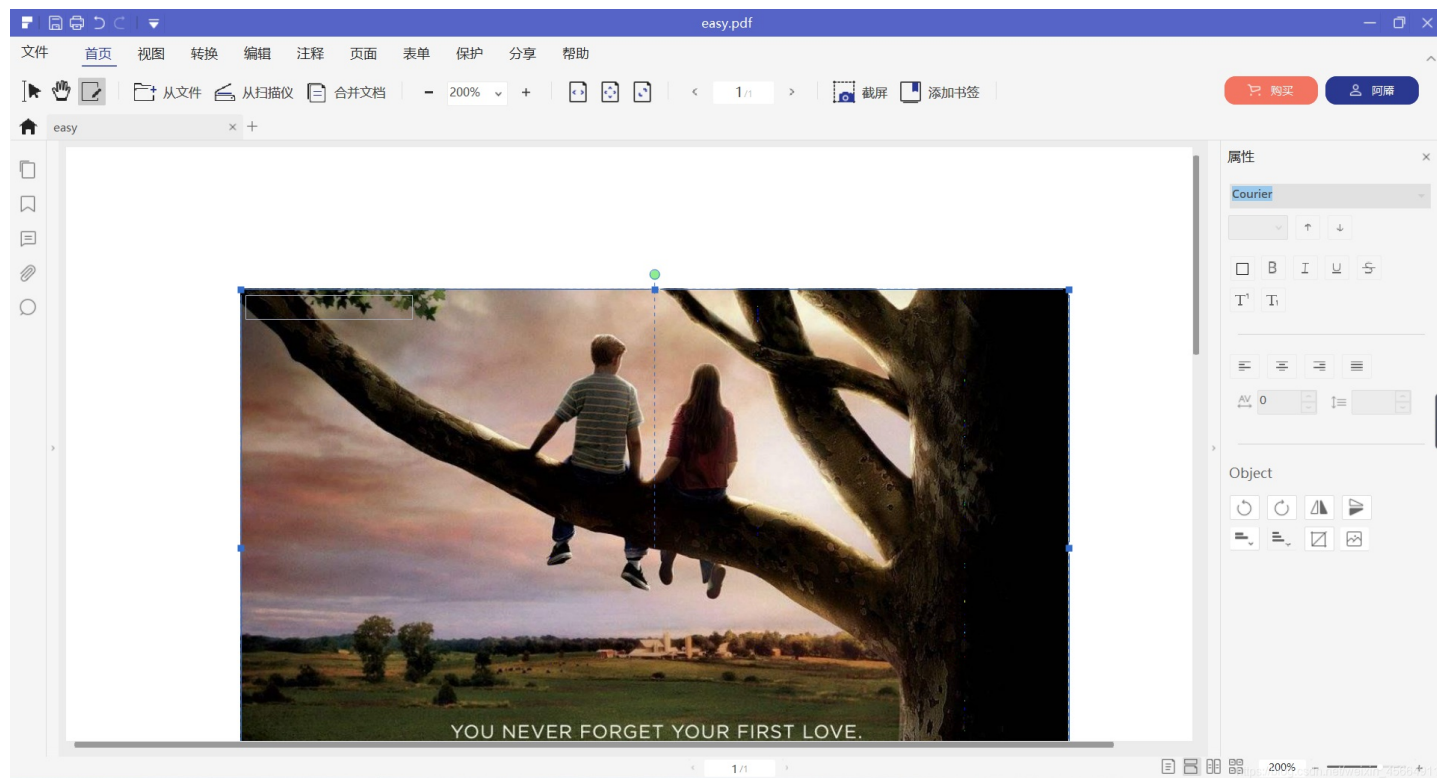


https://blog.csdn.net/weixin_45664911

栅栏密码解密，再根据英文字义调整顺序

easypdf

下载之后解压，如果用网页或者文档等形式查看pdf是不能做任何移动的，下载了一个pdf编辑器，利用编辑器打开pdf之后，发现左上角还有一个框



将图片移动开，发现flag。

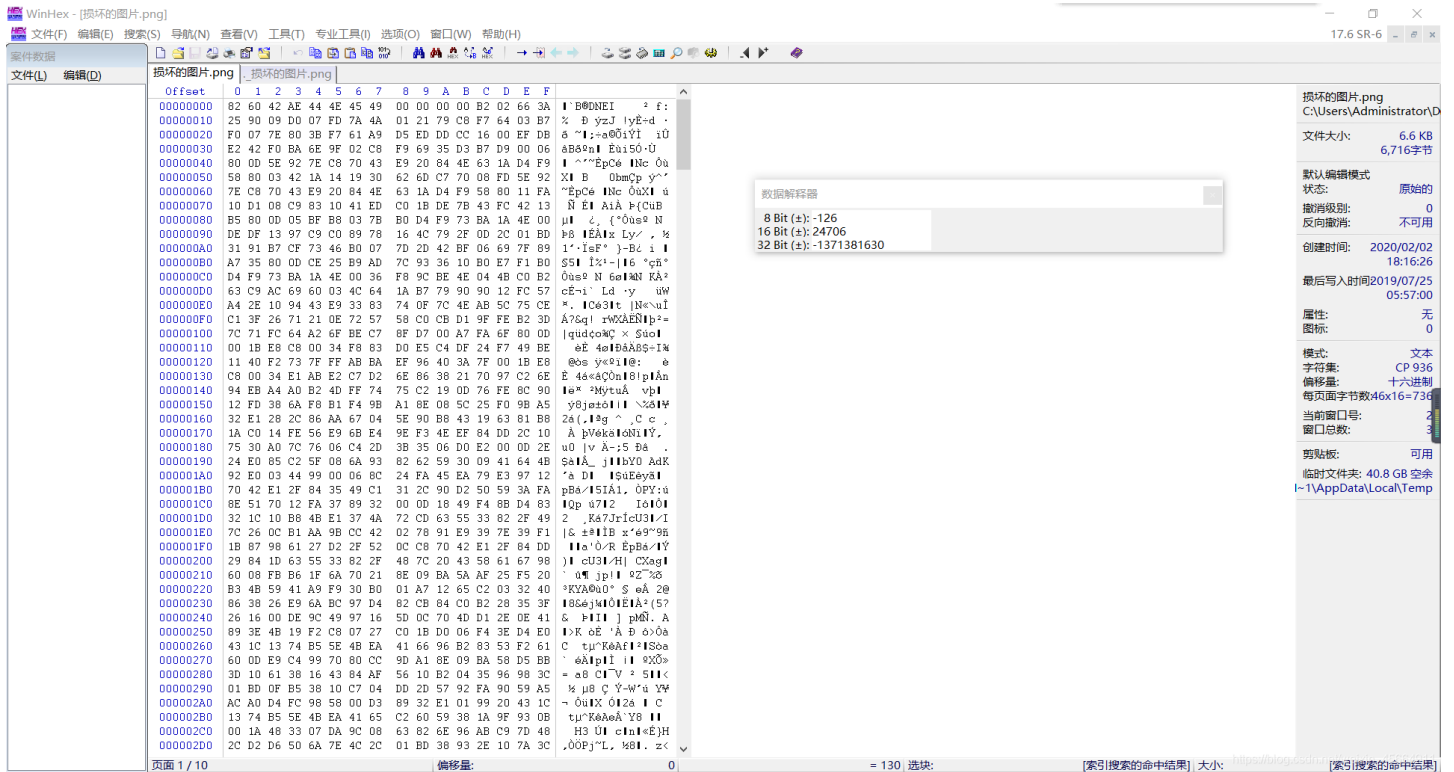
Flag{you_found_it}



根据题目提示改成小写就好了。

损坏的图片

文件解压之后得到两张损坏的图片, 先拖到winhex中分析一下



```
UU UU U1 UU UU 52 44 48 49
OD 47 4E 50 89
```

看到最后一行

当它反过来, 变成**89 50 4E 47**时, 发现是png图片的文件头, 猜测: 是正常格式反过来了。

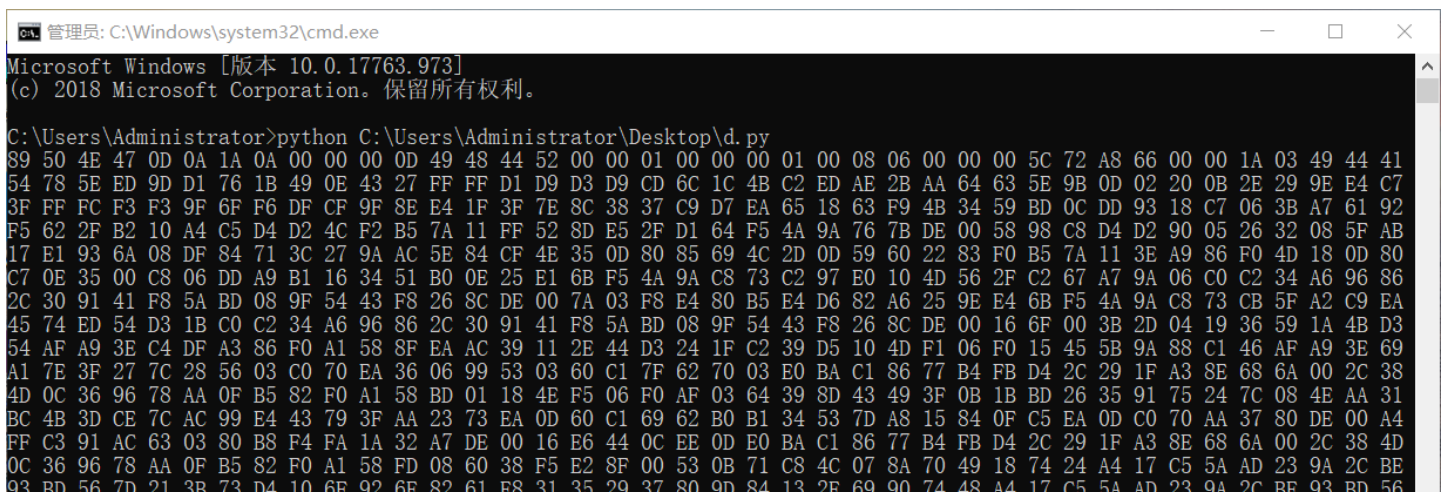
```
import re
str1 = "826042AE444E454900000000B202663A259009D007FD7A4A012179C8F76403B7F0077E803BF761A9D5EDDDCC1600EFD8E242F0BA
6E9F02C8F96935D3B7D90006800D5E927EC87043E920844E631AD4F9588003421A141930626DC77008FD5E927EC87043E920844E631AD4F9
588011FA10D108C9831041EDC01BDE7B43FC4213B5800D05BF8037BB0D4F973BA1A4E00DEDF1397C9C08978164C792FD02C01BD3191B7CF
7346B0077D2D42BF6697F89A735800DC25B9AD7C933610B0E7F1B0D4F973BA1A4E0036F89CBE4E044BC0B263C9AC6960034C641AB77990
9012FC57A42E109443E93383740F7C4EAB5C75CEC13F2671210E725758C0CBDD19FFEB23D7C71FC64A26FBEC78FD700A7FA6F800D001BE8C8
0034F883D0E5C4DF24F749BE1140F2737FFABBAEF96403A7F001BE8C80034E1ABE2C7D26E8638217097C26E94EBA4A0B24DF7475C2190D
76FE8C9012FD386AF8B1F49BA1E085C25F09BA532E1282C86AA67045E90B843196381B81AC014FE56E96BE49EF34EEF84DD2C107530A07C
7606C42D3B3506D0E2000D2E24E085C25F086A93826259300941644B92E003449900068C24FA45EA79E397127042E12F843549C1312C90D2
50593AF8E517012FA378932000D1849F48BD483321C10B84BE1374A72CD635533822F497C260CB1AA9BCC42027891E9397E39F11B879861
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C2033240863826E96ABC97D482CB84C0B228353F261600DE9C4997165D0C704DD12E0E41893E4B19F2C80727C01BD006F43ED4E0431C1374
B55E4BEA416696B28353F261600DE9C4997080C9DA18E09BA58D5BB3D106138164384AF5610B2043596983C01BD0FB53810C704DD2D5792
FA9059A5ACA0D4FC985800D38932E1019920431C1374B55E4BEA4165C26059381A9F930B001A483307DA9C0863826E96ABC97D482CD2D650
6A7E4C2C01BD38932E107A3C734D6863826E963BF57BE8AE3036A4A79A4812DCAF9924006F401BD006F401BD006F534437963821F56BE24D
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9FD06125C21F126A47C921A4911A48973F7006F401BD006F401BD4D10DE58E087D5AF89355AF8418267129A26EA87D4A696384AF49B0C985
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E257AB725918841823E58DEB7A7001A0034F8413B219DC99AB5A1C4001A30934B23B5A421C9F333B800D38939664D664356B438800346127
D236927C21BC479A4F9F4B992F3298047E271265C58F895EAC3039F525C20C11FE49F087044717E8309BE1334938934D1272C8EB5740E984
```


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DE8037A8764023F7EF497C97EA4F8B0D3A1F54D7A9849FAD612430BED964800681DA7001A0034006AF565819365B6E0034557F25BC8037A0
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D0591D6FF97BA000D001ABD5B79907B48E697547F6A8A07CEF9F54D7A958B5B06222D9DC0069BCB5F22BFCDFDFDE92F92FD49F16351C6087
D19871FC8BD4F688C38FEB73E3BC9A9809BF29A49E03E17C006800D001BCFC2F929D20034006800D692780F85F001A0034006F3F0BE4A748
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42E12F842C3A98C5ACF964BA677001BCFCAF8F127D5337927045E90B84BE2D9C18D487047989CF1EE64970800F7E1191A809BF28F84DD11D
52B14BE139F41E24FA317C4384AF485C21A5AC341941939E07A7240069F09BA23AA56297C273E83C49F462F887095E90B8434B5868328327
3C0F4E4800D3E13744754AC52F84E7D07893E8C5F10E12BD21708696B0D065064E781E9C9001A7C26E88EA958A5F09CFA0F127D18BE21C25
7A42E10D2D61A0CA0C9CF03D3920034F84DD11D52B14BE139F41E24FA317C4384AF485C21A5AC341941939E07A7240069F09BA23AA56297C
273E83C49F462F887095E90B8434B58683283273C0F4E4800D3E13744754AC52F84E7D07893E8C5F10E12BD21708696B55F7FF805A8321C0
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EAC7C20C0F7F0CB1ABF8361AFC6125C21F1210E4E41938432046FEDDE002BF3E8C5C21BC31F08FF12E0F27725334B933806E2E580069F464
D10DE18E24F74470392E4A669726700DC5CB000D3E8C5C21BC31F08FF12E0F27725334B933806E2E580069F464D10DE18E24F74470392E4A
669726700DC5CB000D3E8C5C21BC31F08FF12E0F27725334B933806E2E580069F464D10DE18E24F74470392E4A669726700DC5CB000D3E8C
5C21BC31F08FF12E0F27525334B9338C5F272C00346073E8C9A23AA3DB543893DD135993EFA572AC19C99AD5AE887171DF8421916E0F3FCA
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5800DBE49F3D606693858FAB2F54CB927344A83936A6160036F927CF5819A4E163EACBD532E49CD12A0E4DA985800DBE49F3D606693858FA
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EE86E7D06137C21AA4F845EAC9C97A21709BA4EDD6AFA268F932719242085FE1F3F006F401BD006F401BD06E377EE86E7D06137C21AA4F84
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```
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"
```

```
str1 = re.sub(r"(?<=\\w)(?=(?:\\w\\w)+$)", " ", str1)
list1 = str1.split()
list1 = list(reversed(list1))
str1 = " ".join(list1)
print(str1)
```

我是直接用记事本编写后再改后缀，打开命令提示符后输入python再将文件直接拖入即可



```
管理员: C:\Windows\system32\cmd.exe
Microsoft Windows [版本 10.0.17763.973]
(c) 2018 Microsoft Corporation。保留所有权利。

C:\Users\Administrator>python C:\Users\Administrator\Desktop\d.py
89 50 4E 47 0D 0A 1A 0A 00 00 00 0D 49 48 44 52 00 00 01 00 00 00 01 00 08 06 00 00 00 5C 72 A8 66 00 00 1A 03 49 44 41
54 78 5E ED 9D D1 76 1B 49 0E 43 27 FF FF D1 D9 D3 D9 CD 6C 1C 4B C2 ED AE 2B AA 64 63 5E 9B 0D 02 20 0B 2E 29 9E E4 C7
3F FF FC F3 F3 9F 6F F6 DF CF 9F 8E E4 1F 3F 7E 8C 38 37 C9 D7 EA 65 18 63 F9 4B 34 59 BD 0C DD 93 18 C7 06 3B A7 61 92
F5 62 2F B2 10 A4 C5 D4 D2 4C F2 B5 7A 11 FF 52 8D E5 2F D1 64 F5 4A 9A 76 7B DE 00 58 98 C8 D4 D2 90 05 26 32 08 5F AB
17 E1 93 6A 08 DF 84 71 3C 27 9A AC 5E 84 CF 4E 35 0D 80 85 69 4C 2D 0D 59 60 22 83 F0 B5 7A 11 3E A9 86 F0 4D 18 0D 80
C7 0E 35 00 C8 06 DD A9 B1 16 34 51 B0 0E 25 E1 6B F5 4A 9A C8 73 C2 97 E0 10 4D 56 2F C2 67 A7 9A 06 C0 C2 34 A6 96 86
2C 30 91 41 F8 5A BD 08 9F 54 43 F8 26 8C DE 00 7A 03 F8 E4 80 B5 E4 D6 82 A6 25 9E E4 6B F5 4A 9A C8 73 CB 5F A2 C9 EA
45 74 ED 54 D3 1B C0 C2 34 A6 96 86 2C 30 91 41 F8 5A BD 08 9F 54 43 F8 26 8C DE 00 16 6F 00 3B 2D 04 19 36 59 1A 4B D3
54 AF A9 3E C4 DF A3 86 F0 A1 58 8F EA AC 39 11 2E 44 D3 24 1F C2 39 D5 10 4D F1 06 F0 15 45 5B 9A 88 C1 46 AF A9 3E 69
A1 7E 3F 27 7C 28 56 03 C0 70 EA 36 06 99 53 03 60 C1 7F 62 70 03 E0 BA C1 86 77 B4 FB D4 2C 29 1F A3 8E 68 6A 00 2C 38
4D 0C 36 96 78 AA 0F B5 82 F0 A1 58 BD 01 18 4E F5 06 F0 AF 03 64 39 8D 43 49 3F 0B 1B BD 26 35 91 75 24 7C 08 4E AA 31
BC 4B 3D CE 7C AC 99 E4 43 79 3F AA 23 73 EA 0D 60 C1 69 62 B0 B1 34 53 7D A8 15 84 0F C5 EA 0D C0 70 AA 37 80 DE 00 A4
FF C3 91 AC 63 03 80 B8 F4 FA 1A 32 A7 DE 00 16 E6 44 0C EE 0D E0 BA C1 86 77 B4 FB D4 2C 29 1F A3 8E 68 6A 00 2C 38 4D
0C 36 96 78 AA 0F B5 82 F0 A1 58 FD 08 60 38 F5 E2 8F 00 53 0B 71 C8 4C 07 8A 70 49 18 74 24 A4 17 C5 5A AD 23 9A 2C BE
93 BD 56 7D 21 3B 73 D4 10 6E 92 6E 82 61 E8 31 35 29 37 80 9D 84 13 2E 69 90 74 48 A4 17 C5 5A AD 23 9A 2C BE 93 BD 56
```



```
7D 31 0F 4B D2 6D F9 4B 34 27 2E 34 D4 1A 00 C4 ED 3B 35 93 03 4F 34 AD 85 48 7D CC 03 45 7A 19 35 96 37 09 67 72 1F 12
97 06 C0 83 CD 21 E6 91 C5 9B 1C 78 E2 43 34 59 7C 27 7B 25 DD E4 B9 C5 37 E1 58 FE 4E 6A EA 0D 80 B8 DD 1B C0 07 07 D2
41 A0 3F 7D 16 AC 3F F5 AA C5 37 E1 34 00 4E 8D E5 5A B1 31 84 84 41 99 4D 0E 3C 71 22 9A 2C BE 93 BD 92 6E F2 DC E2 9B
70 2C 7F 27 35 F5 06 40 DC EE 0D A0 37 00 E9 4F A0 16 D6 ED 29 33 68 00 2C 4C 64 32 F1 13 CD F4 D3 C9 BC 96 4F F6 4A BA
C9 73 8B 6F C2 99 DC 87 C4 85 CE BB 01 40 36 A8 37 80 A7 FC F4 59 B0 FE D4 AB D6 61 49 38 0D 80 53 63 B9 56 6C 0C 21 61
50 66 64 E0 46 2F D2 87 70 36 B8 D0 9F 2C A9 57 35 91 89 DD AF 49 FE D2 39 F5 06 B0 30 07 B2 C4 64 50 89 02 E9 93 30 8E
E7 06 17 BA 58 A9 57 35 91 89 35 00 3E 39 60 2C 56 C2 A0 A3 21 4B 6C F4 22 7D 08 67 83 4B 03 E0 BE D3 D6 9C AC 59 12 3E
BD 01 10 B7 17 BE 03 30 0E 1D 19 24 91 61 70 69 00 34 00 3E 39 60 2D A8 B1 C4 84 CB 4E 07 81 68 26 9A 08 CE 4E BA AB 89
4C AC 1F 01 FA 11 00 FE 9F 6A 64 9D 1A 00 6B 3F BD 93 7F 56 A8 59 B3 24 7C FA 11 80 B8 DD 8F 00 1F 1C 20 8B 35 75 58 52
1F 3A DE 9D 34 11 CE 44 37 D1 D4 00 20 6E 37 00 1A 00 E0 4F 51 C8 81 5B 58 B7 0F AF 36 00 5E 7C 28 AD 2F C3 C8 42 58 8B
45 96 C6 E2 93 7A 55 13 71 BA DF 01 BC FD 77 00 64 CC C6 61 49 18 84 C7 64 0D 09 80 49 4D 06 1F 82 61 79 4C BC 21 7C FA
```

看到损坏图片的大小是6.6KB,新建了一个文件,把跑出来的数据粘贴到文件里去
编辑-剪贴板数据-粘贴-ASCII Hex (别选错),将图片另存,打开,得到一个二维码。



感觉有点奇怪,第二张图还没用就得到了flag.

怀疑人生

哈哈，ctf真的搞得我天天怀疑人生，下载文件，解压。



ctf1.zip



ctf2.jpg



ctf3.jpg

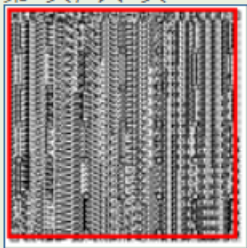
第一个是加密的压缩包，第三个是高糊的二维码，第二个暗藏玄机。。。。
第三个二维码利用网站扫<https://online-barcode-reader.inliteresearch.com/>

待您的消息均可通过电子邮件发送到sales@inliteresearch.com

文件: **ctf3.jpg** 新文件
页数: **1个** 条 ¹
码: [↑]

条码: 1之1 类型: **二维码** 第1页, 共1页
长度: 6 回转: 没有
模组: 4.0像素 长方形: {X = 17, Y = 17, Width = 703, Height = 703}

12580}



https://blog.csdn.net/weixin_45664911

第一个压缩包，看大佬的writeup说跑一遍字典，得出密码是password。。。不是很懂，用foremost也出现了问题，