[CTF] 攻防世界MISC高手区部分题目WriteUp



攻防世界MISC高手区部分题目WriteUp(2)

双色块

下载附件解压出来是个gif文件,仔细观察一下,发现两种色块应该分别代表01。写段Python脚本把数据提取出来

```
from PIL import Image
image = Image.open('C:\\Users\\28919\\Desktop\\out.gif')
split = 'C:\\Users\\28919\\Desktop\\gif\\'
while True:
 current = image.tell()
 image.save(split + str(current) + '.png')
 image.seek(current + 1)
string =
i = 0
for y in range(24):
for x in range(24):
 pix = Image.open(split+str(i)+'.png').convert('RGBA').load()
 r, g, b, p = pix[x*10, y*10]
 if g == 255:
  string += chr(line)
print(string)
```

运行后得到:

去掉后面那串无意义的hhhh就应该是个base64加密,但是直接解码出来还是乱码,应该在哪里还有别的东西。把图片丢到Kali里用binwalk命令跑一下:

root@kali:~/桌面# binwalk out.gif								
DECIMAL	HEXADECIMAL	DESCRIPTION						
0 735555 735596	0×0 0×B3943 0×B396C	GIF image data, version "89a", 240 x 240 PNG image, 240 x 320, 8-bit/color RGBA, non-interlaced Zlib compressed data, best compression						

果然还有东西,用foremost命令提取出来:

root@kali:~/桌面# foremost out.gif Processing: out.gif |*| root@kali:~/桌面#|

得到一张图片:



得到一个密码ctfer2333,用DES解密出来就得到flag了,解密网站:http://tool.chacuo.net/cryptdes

flag{2ce3b416457d4380dc9a6149858f71db}

flag_universe

下载附件解压出来是个流量包,用wireshark打开,追踪TCP流,在第二个流里发现存在一个flag.txt文件

4	🧲 Wireshark · 追	倧 TCP 流 (tcp.	stream eq 2)	flag_universe.pcapng
		4 Cha	Cha	261.0 10.07-50
	arwxrwxrwx	1 ftp	ττp	264 Sep 19 07:52 .
	drwxrwxrwx	1 ftp	+tp	264 Sep 19 07:52
	-rwxrwxrwx	1 ftp	ftp	41 Sep 19 07:52 flag.txt
	-rwxrwxrwx	1 ftp	ftp	1133535 Sep 19 07:51 universe.png

og. 打印.net/gq_SaveCas+--0

继续往后翻,在第三个流里面发现一个png文件,在下面选择原始数据,保存。

Q .М. .L. .].	ASCII C Arrays EBCDIC Hex 转储 息始数据 UTF-8 YAML Big5	^	.S.um.I.\$m.8F . .`B.`,m.0.sUU.m.y^U%z .<&S.,G.(38~,.z.y
as	Big5-HKSCS ASCII	×	

····· · · ······

继续翻,在第七个流里面发现一段base64文本,解码后是一个假flag

🧲 Wireshark · 追踪 TCP 流 (tcp.stream eq 7) · flag_universe.pcapng

ZmxhZ3tUaGlzIGlzIGZha2UgZmxhZyBoYWhhaGF9

滤掉此流

flag{This is fake flag hahaha}

全都保存出来后得到了这么几个文件:



逐个检查这几张图片,发现在最后一张里存在LSB隐写,用Stegsolve打开文件,一番操作之后flag就出来了

<u>چ</u>	- 🗆 X
Extract Pre	view
6666c61677b506c61 74655f6572725f6b flag{Pli 6c6175735f4d6169 6c5f4c6966657d0a laus_Max db71b91c4954aa56 a49131b6e38e3724 .q.IT.V 49256a56ab562e49 1b71b71c71c71b91 I%jV.V.X b6e38dc6e48e36dc 8e392471c7239249 6 1b8db7239238db6d b8e39247248db6e4 #8.1 8e48e37246e48e39 1c6dc9248e48dc71 .H.rF.V b72471c8db924924 8e47247236db6e36 .şqII e48db8e36db71c8e 36e392371c6db8dc m. 71b8c48e26de8e47 2464491b6e471b6e712b61	a te_err_k i 1_Life}. 7 .17\$ I .qq .9\$q.#.I nG\$ ∂ .m.\$.H.q \$.G\$r6.n6 .67.m \$ SpI pC
Bit Planes Alpha 7 6 5 4 3 2 1 0	Order settings Extract By Row Column
Red 7 6 5 4 3 2 1 ✓ 0 Green 7 6 5 4 3 2 1 ✓ 0 Blue 7 6 5 4 3 2 1 ✓ 0	Bit Order OMSB First ELSB First Bit Plane Order RGB ORB
Preview Settings Include Hex Dump In Preview 🖌	⊖ GBR ⊖ BGR
Preview Save Text	Save Bin Cancel nijos://blog.csdn.net/cjc_37969220

flag{Plate_err_klaus_Mail_Life}

3-11

<u>ی</u>	– 🗆 X
Extract Prev	/iew
504b030414000008 08005db7354b64ee PK 9dab83040000c807 000008000000666c 61672e747874c555 c992a33810fd200e ag.txt.U 6215e830070c36fb 6a30cbcd0830c606 b06. 6ccc567c7ddbd3ee aa9883974f41c46 l.V) 172d914abd7c99f9 743e6c1c7f260de5 j. 26cf59d2f85d875e 06626cef7d5213fb &.Y.].^ 078ba1f73af05b2f a4364f9ba59e2721].5Kd. fl 8 j00 9tF t>1.□& +\$.bl.}R .60'!
f1c2d7a18eb7558a 6751dcb64fa38d4eU.	gQON
Bit Planes	Order settings
Alpha 7 6 5 4 3 2 1 0	Extract By 🖲 Row 🔾 Column
Red 7 6 5 4 3 2 1 1 0	Bit Order 🔾 MSB First 💿 LSB First
Green 7 6 5 4 3 2 1 1	Bit Plane Order
Blue 7 6 5 4 3 2 1 0	● RGB ○ GRB
Preview Settings Include Hex Dump In Preview 🖌	
Preview Save Text	Save Bin Cancel nit ps://blog.csdn.net/cc_37969220

没有任何加密,但解压时提示压缩文件损坏,用010editor看一下,文件尾后面存在无用数据,直接删掉,成功解压。

LILL 100 -----ALC: 144 IN . COLY . Y MA 31 85 6E 33 1E D3 F4 D4 10 F1 82 FF FE 8A F7 E1 1...n3.Óôô.ñ,ÿþŠ÷á C1 F1 0D 4E 4A 34 ED AF 1F 50 4B 01 02 3F 00 14 Áñ.NJ41 .PK..?.. 00 00 08 08 00 5D B7 35 4B 64 EE 9D AB 83 04 00] ·5Kdî.«f.. 00 C8 07 00 00 08 00 24 00 00 00 00 00 00 00 00 20 .Ė....\$.....flag.txt. 00 00 00 00 00 00 00 66 6C 61 67 2E 74 78 74 -0A 00 20 00 00 00 00 00 01 00 18 00 9F 55 28 26 EAŸU(&ê 32 D3 01 BD AF 5D 0E EA 32 D3 01 BD AF 5D 0E EA 2ó.½¯].ê2ó.½¯].ê 32 D3 01 50 4B 05 06 00 00 00 00 01 00 01 00 5A 2Ó. PK....Z ...©....¶ª′μ\$-μ 00 00 00 A9 04 00 00 00 00 B6 AA 92 B5 24 AD B5 5A 92 C7 12 4E 27 1D B1 56 D5 6D 55 25 52 B6 DB Z'Ç.N'.±VÕmU%R¶Û 6A 4A A4 AD B6 AB 52 49 55 55 38 9D B6 DB 6C 49 jJ¤−¶«RIUU8.¶ÛlI AB 6C 49 C5 55 69 D1 B1 C7 FF FF C7 E0 00 07 1C«lIÅUiѱÇÿÿÇà...

解压后的文件打开发现是base64加密,解密后能看到是一个png文件。

IVBORw0KGgoAAAANSUhEUgAAAPoAAAD6CAYAAACI7 PNG Fo9AAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQU AAAAJcEhZcwAAEnQAABJ0Ad5mH3gAAAVqSURBVHhe 7d1bTuRGAEDRIftfK1tIxgNRJNINbpff9xzJmvlpP6q5Kpe |HDR□□□�□□□�00□□□��Z=□□□□sRGB□�� B5u3v334Bt/bX57/AjQkdAoQOAUKHAKFDqNAhQOqQIH �____qAMA__**�**�_�a____ QIEDoECB0ChA4BQocLe39///zf9/xSCwSY0SFA6BAgdAg QOgQIHQKEDgGLv7329vb2+b/1PDqVZ8dZ67uCe13HV1s �_+[H�□Q\$� n���□₀�i?��*������~□������ □□ c95GRcRo9x7XeI8aZ0SFA6BAgdAgQOgR4GLdw/99d/5x z2/q61jD6Hp/pWuo2CX3NN3jrIJbuf/T6t76uNVzhHJnHrT �□□₿�□�C��!@�□ |t==:====�==B�={ ����&R==��!@�= sECB0ChM6fW/RHG/chdAgQ0gQIHQJ08330Z6fx7DhrfY tni7XonHPb+rpe8eoYHHGOjDGjX9AU5twNJkLnzwz9aO コ□□□�□□���������<:�g�Y뻂 M+hA4BQocAoUOA0CHAb68N7P+o1z7zaJ9r72+y1tizHz {]�W[□����q□=ģ�#ƙ�!@� M6BAgdAoQOAZddo8/107mMrEO3eO3aRt6Lrcee/ZjRIU DoECB0CBA6BAgdAhY/dQeuw4w0AUKHAKFDgNAhQOg �� �����5\�□�ō;□□□□�0[�G□�!t□□:□□□ QIHQIEDoECB0ChA4BQocAoUOA0CFA6BAgdAgQOgQIH □N**�}�**q**��**8k} QKEDgFChwAfJcVDI3+cgvMZCv3RF8PaXwhb/7WQO/81 kpFY5772u/E789jUuHWHAKFDgNAhQOgQcMmHcWseY &B���h�>�□□B�**□**�C��!�o�

直接用base64转图片得到flag:

FLAG(LSB_iS_ SD_EA SY)

FLAG{LSB_i5_SO_EASY}

互相伤害!!!

下载解压得到一个位置类型的文件,丢到Kali里用file命令跑一下

得知为一个流量包,用Wireshark打开,右键追踪流发现全部是HTTP请求,内容全部是jpg图片,左上角文档里选择导出对象将 所有HTTP请求里的东西全部导出来:



seclover.php%3 ffile=0f17a5945 24a3488c7f8a6 91b7f9a800.jpg



seclover.php%3 ffile=1c901bb3 8602805a3f299 fb1ec0ce1e7.j...



seclover.php%3

ffile=6aa48761

9eeed968211c

85576eac9a6...

seclover.php%3 ffile=5e67ac8c6 184aab420abff b38bcfff5c.jpg



seclover.php%3 ffile=96fd22f53 9a09f5e0b6876 cae78f3e10.jpg



你尽管做

88a3189c89.jpg



发现这张图里有一个二维码

你尽管做

seclover.php%3

seclover.php%3



seclover.php%3 ffile=1f110a79a 69aff5f42025a8 453e79892.jpg



seclover.php%3 ffile=7cd42efa3 6aab97493c936 e5a7feb215.jpg



seclover.php%3 ffile=0785906b 91dba9167fe43 da5e4dfadfa.j...

業部 这么狂! い九乗法口诀你会背吗?

seclover.php%3 ffile=3c04de52 853c27a30692b 64300260da1....



seclover.php%3 ffile=57e5a2cfe fb5381b78333c 5d50fe9fb4.jpg



seclover.php%3 ffile=a80c8e93 404aed8d87f88 fa71e203fa6.j...



seclover.php%3 ffile=4e6ad17d 81efa1cdf2baa8 ae9666198a.jpg



seclover.php%3 ffile=70bf85eda 6b86ee92a5f43 7f7d83b7e5.jpg



seclover.php%3 ffile=b9cd3560 d86b8e8992c3 d815b64b49d...



seclover.php%3 ffile=4fb1fea28f f7634193883bf ccaefeb78.jpg



seclover.php%3 ffile=82e503c2 d71f66c72347a 03de58b1bd3...



seclover.php%3 ffile=b19e02e5 bd5bd0ac9342 ad047957f0b...



做出来算我输

seclover.php%3



U2FsdGVkX1+VpmdLwwhbyNU80MDIK+8t61sewce2qCVztitDMKpQ4fUI5nsAZOI7
bE9uL8IW/KLfbs33aC1XXw==



668b13e0b0fc0944daf4c223b9831e49

https://blog.csdn.net/qq_37969220

解码后是一串数字,但这并不是flag,继续用binwalk分析图片:

root@kali:~/桌	面 # binwalk /ro	ot/桌面/Share/Wireshark/seclover.php%3ffile=0f17a594524a3488c7f8a691b7f9a800.jpg
DECIMAL	HEXADECIMAL	DESCRIPTION
0	0×0	JPEG image data, JFIF standard 1.01
24275	0×5ED3	Zip archive data, at least v2.0 to extract, compressed size: 89130, uncompressed size: 30408
4, name: C9010 113589	0×18885	End of Zip archive. footer length: 22

发现藏有一个zip文件,foremost分离出来解压得到一张清晰的二维码:



扫码得一句话:

扔下内衣真有一线生机???? 交出内裤才有活路!!!! 那么我们的目标就锁定到了这张图上:



然而这张图foremost分离出的压缩包里的二维码和之前那一张一模一样,最后我们发现这一张图片分离出的压缩包存在密码(真 就照应题目名呗):



这时我们想到之前得到的那一串数字,输入后成功解压,得到一张不一样的二维码:



外面大的二维码扫描结果和前面的一样,里面那个小二维码扫描后得到:

flag{97d1-0867-2dc1-8926-144c-bc8a-4d4a-3758}

题目里说要提交flag{xxx}内的xxx内容,所以最终的答案就是括号里面的内容(又一个坑)

Miscellaneous-300

下载附件得到一个有密码的压缩包,暴力破解之得密码46783,刚好是被加密的压缩包的名字,解压出来的压缩包还是有密码, 那么这题就应该是一个压缩包套娃题,题目里让我们检查73168.zip这个文件,直接写Python脚本解之:



全部解压完有1509个压缩包,然而没有一个是73168,但是我们看到最后解压出的压缩包里是一个wav文件,暴力破解得密码:**b0yzz**,用Audacity打开切换到频谱图看到flag:



BallsRealBolls

intoU

下载解压得到一个wav文件,直接播放发现最后有一段杂音,用Audacity打开切换到频谱图看到有一段flag,然而并不完整



这道题目做法有很多,主要是Audacity的使用,左侧可以在菜单中把采样率改小,或者直接右击左侧频率栏选择缩小,一番操作 完成后flag就出来了



Just-No-One

下载附件得一个exe文件,运行,发现是一个安装程序,继续,发现需要输入密码

Please provide the password, then click $\ensuremath{\mathsf{Next}}$ to continue. Passwords are case-sensitive.

Password:

由于这是道MISC的题,应该不是逆向分析,我们回到上一步看这个永远没有人会看的许可协议,里面有一句话:



嗯,没错这就是flag

ILOVEREADINGEULAS

Disk

flag3.txt

flag2.txt

flag1.txt

flag0.txt

打开里面只有一句话: flag is not here.

用Winlmage打开,右键将4个文件提取出来

📙 WinImage (未注册) - (:\Users\28919\Desktop\ctf-	flat.vmdk		×
文件(F) 映像(I) 磁盘(D)	选项(O) 帮助(H)			
🗋 🤌 📕 🔂 1	e 🏋 🖥 🖌 🖌	21 01 81 01	卷标:	
\	名称	大小	类型	
	flag0.txt	17	文本文档	
	flag1.txt	17	文本文档	13
	flag2.txt	17	文本文档	
	flag3.txt	https:// 17 0	文本文档	59220 ·

再用010Editor打开提取出来的文件,看到全部都是是二进制格式,将数据整合到一起转为字符串就得到flag

flag{4DS_1n_D1sk}

picture2

下载得到一张png图片,但是实际格式是jpg,用binwalk命令跑一下发现里面有一个zlib文件,再用binwalk分离出来(binwalk会自动将zlib文件解压)

root@kali:~/∮	桌面# binwalk -e	a.png
DECIMAL	HEXADECIMAL	DESCRIPTION
0 38884	0×0 0×97E4	JPEG image data, JFIF standard 1.01 Zlib compressed data, default compression

得到的文件是一段Base64,解码后根据文件头可以看出是一个zip文件,但是文件头前两个字符颠倒了

	Ŏ	1	2	3	4	- 5	6	7		9	A	B	Ċ	D	E	F	0123456789ABCDEF
0000h:	4B	50	03	04	14	00	01	00	00	00	39	30	97	4C	6C	E3	KP90-Llã
0010h:	1F	7C	5A	00	00	00	4E	00	00	00	04	00	00	00	63	6F	. ZNco
0020h:	64	65	E3	DE	81	F0	0F	AE	47	67	84	C1	B6	81	BF	ЗA	deãÞ.ð.®Gg"Á¶.;:

改正后解压发现需要密码,压缩包里的注释告诉我们密码是ZeroDivisionError这个报错信息后面的一句话,用Python写个1/0运行 得到后面的文本为: integer division or modulo by zero

解压后对里面的这段文本用 uuencode 解码即可得到flag

G0TE30TY[,C,X.\$%&,C@Y,T5".#5%0C%"-#,Y04)&1C8Q-S,Q.49]

CISCN{2388AF2893EB85EB1B439ABFF617319F}

MulTzor

题目有点小问题,最后应该少了一位,这里贴上正确的原文

38708d2a29ff535d9e3f20f85b40df3c3fab465b9a731ce55b54923279e85b4397362be25c54df2020f8465692733ce5535193363dab465 b9a732eee41479a2137ab735f933a3cf8125a91730ee4405f9b730eea4013b61a79ff5d138d3638ef12408a312aff535d8b3a38e7125292 3c2ce54640df3c3fab7f5c8d203ca6515c9b363dab40529b3a36ab515c923e2ce55b509e2730e45c40df3c3fab465b9a7318f35b40df233 6fc57418c732de35347df3b38ef12519a3637ab575d9c3a29e357419a3779fe415a913479ce5c5a983e38ab5f529c3b30e55740d1730de 35b40df2a30ee5e579a3779e65b5f962738f94b13963d2dee5e5f96343ce55156df2431e2515bd37338e75d5d98732ee2465bdf2731ea4 613992136e6125c8b3b3cf912579a302bf242479a3779ca4a5a8c732bea565a907338e556138b3635ee4241963d2dee40138b2138e54 15e96202ae25d5d8c7f79fc5340df3430fd575ddf2731ee125090373ce5535e9a730ce746419e7d79df5a5a8c732eea41139c3c37f85b57 9a213cef125186732eee41479a2137ab61468f213ce65713be3f35e25757df1036e65f5291373cf91277883a3ee34613bb7d79ce5b409a 3d31e445568d732de4125b9e253cab50569a3d79a956569c3a2ae24456dd732de41247973679ca5e5f96363dab445a9c2736f94b1df55 90de35713ba3d30ec5f52df3e38e85a5a91362aab45568d3679ea12559e3e30e74b13903579fb5d418b323be757139c3a29e35741df3e 38e85a5a91362aab455a8b3b79f95d47902179f851419e3e3be757418c7d79cc5d5c9b7336fb57419e2730e555138f2136e857578a213 cf81e138f2136fb5741932a79ee5c5590213aee561fdf2436fe5e57df3b38fd571392323dee1247973679fb5e46983136ea4057df1637e25 55e9e7334ea515b963d3cab475d9d213cea59529d3f3ca5127b90243cfd5741d37334e44147df3c3fab465b9a731eee405e9e3d79e65b 5f962738f94b13993c2be85740d3732aee51419a2779f85741893a3aee41139e3d3dab515a893a35e2535ddf323eee5c5096362aab465 b9e2779fe41569b731ce55b54923279ee5f43933c20ee56138f3c36f9125c8f362bea465a913479fb405c9c363dfe40568c7f79ea5c57df3 a2dab45528c732de357409a7329e45d41df232be451569b262bee41138b3b38ff1252933f36fc5757df2731ee1276913a3ee6531392323 ae35b5d9a2079ff5d139d3679f957459a212aee1f56913430e557568d363dab535d9b732de357139c3a29e357418c732de412519a732b ee5357d15953df5a56df143cf95f52917329e747549d3c38f9561e9a222ce242439a3779ce5c5a983e38ab50569c3234ee127d9e2930ab 75568d3e38e54b148c7329f95b5d9c3a29ea5e139c2120fb465cd22020f84656927d79c2461388322aab504190383ce5125186732de35 713af3c35e2415bdf143ce557419e3f79d8465299357ef81270962331ee4013bd262bee5346df3a37ab76569c3634e95741df6260b8001 fdf2430ff5a138b3b3cab535a9b7336ed12758d3637e85a1e8c2629fb5e5a9a3779e25c479a3f35e2555691303cab5f528b362be2535fdf3 c3bff535a91363dab5441903e79ea12749a2134ea5c138c2320a51272df3e36e5465bdf313ced5d419a732de3571390262de940569e38 79e45413a83c2be75613a8322bab7b7ad37338ff1252df3036e554568d3637e85713973635ef125d9a322bab65528d2038fc1e138b3b3 cab625c933a2ae31270962331ee4013bd262bee5346df2031ea40569b7330ff4113ba3d30ec5f52d2312bee5358963d3eab46569c3b37 e243469a2079ea5c57df273ce85a5d903f36ec4b13883a2de31247973679cd4056913031ab535d9b731bf95b47962031a512778a2130e 555138b3b3cab75568d3e38e5125a912538f85b5c917336ed1263903f38e5561fdf3036f95713af3c35e2415bdf1030fb5a568d731bfe40 569e2679fb57418c3c37e5575fdf243cf957139a2538e847528b363da71245963279d95d5e9e3d30ea1e138b3c79cd405291303cab455 b9a213cab465b9a2a79ee41479e3135e2415b9a3779ff5a56df031aab70418a3d36ab415a983d38e74113963d2dee5e5f96343ce55156 df202dea465a903d79fc5b4797731ff9575d9c3b79ed5350963f30ff5b568c732afe424390212da512608a303aee4140992635ab515c902 33cf95347963c37ab535e903d3eab465b9a7309e45e568c7f79ff5a56df152bee5c50977f79ea5c57df2731ee12718d3a2de2415bdf322d ab705f9a273ae35e56867309ea4058df3036e5465a91263cef1246912730e712798a3d3cab030acb6375ab455b9a3d79cd405291303ca b41468d213ce556568d363dab465cdf2731ee12749a2134ea5c40d15953cd405c92732de35b40df313cec5b5d913a37ec1e138b3b3cab 7041962730f85a13b83c2fee405d923637ff127090373cab535d9b731af2425b9a2179d8515b903c35ab1a74bc751ad81b139e2779c95e 568b3031e7574adf0338f959139d2630e746138a2379ea5c139a2b2dee5c4096253cab514186232dea5c52932a2de251139c3229ea50 5a933a2df21c13b63d30ff5b52933f20a71247973679ef57508d2a29ff5b5c91732eea4113923230e55e4adf3c3fab7e4699272eea54559 a7371cc5741923237ab535a8d733fe440509a7a79ea5c57df3279ed5744df1b3cee4013d7143cf95f52917338f95f4ad67334ee41409e34 3cf81e139e2079ff5a56df182be257548c3e38f95b5d9a7371cc5741923237ab5c52892a70ab575e8f3f36f25757df3e2ce85a13923c2bee 12409a302cf957138f2136e857578a213cf81255902179fe415a913479ce5c5a983e38a51272933237ab66468d3a37ec1e139e731aea5f 518d3a3dec5713aa3d30fd57418c3a2df2125e9e2731ee5f528b3a3ae2535ddf3237ef125f903430e85b52917f79fb405c893a3dee56139 2263ae3125c99732de35713902130ec5b5d9e3f79ff5a5a913830e555138b3b38ff125f9a3779ff5d138b3b3cab56568c3a3ee5125c9973 2de357139c2120fb4652913235f2465a9c3235ab505c92313cab5f529c3b30e55740df2731ea461388362bee125a91202df9475e9a3d2d ea5e13963d79ee445691272cea5e5f86733bf95752943a37ec1247973679e553459e3f79ce5c5a983e38a5127b90243cfd5741d3732de 35713b42130ee554092322be25c56df3a37ff405c9b263aee56139e3d79ce5c5a983e38ab44568d2030e45c13883a2de31252df3536fe4 04797732be4465c8d733fe4401396272aab671e9d3c38ff411fdf213cf8475f8b3a37ec125a917338ab4241903f36e555569b7329ee405a 903779fc5a5691732de357409a7334ee41409e343cf81250902635ef125d902779e957139b363af94b438b363da51264962731ab465b9 a733aea42478a213cab5d55df213ce757459e3d2dab515a8f3b3cf912589a2a2aab535d9b732de357138a203cab5d55df3e2ce85a1399 322aff5741df060aab7c52892a79e95d5e9d362aa712419a342ce75341d3732bea425a9b732bee5357963d3eab5d55df0674e95d528b7 334ee41409e343cf812419a202ce65757d15953df5a56df3535ea5513962063ab7677bc071ff002579c3638b806069d326dbd040bcf316 9e90101cc3761ea0a02cf656db8570a82

用Python把16进制字符转为字符串:

- = open('input.txt','r')
- = f.read()
- = s.decode('hex')
- pen("output.txt","w").write(s)

这道题用的是异或加密,用xortool尝试找出密钥:

root@kali:~/桌面# xortool -c 20 /root/桌面/output.txt
The most probable key lengths:
3: 11.9%
6: 19.7%
9: 9.4%
12: 14.5%
15: 7.1%
18: 11.2%
21: 5.3%
24: 8.4%
30: 6.8%
36: 5.7%
Key-length can be 3*n
1 possible key(s) of length 6:
w3\xffSY\x8b
Found 1 plaintexts with 95%+ valid characters
See files filename-key.csv, filename-char_used-perc_valid.csv

输出的文件最后可以看到明显的flag,但并不正确,猜测应该是密钥还是存在错误.

T-e fla" is: DCTF{udcea3q5ba46s80b0bv23d8a}10643 9}Y

密钥共6位,而从文件头开始每6个字符里第一个都是错误的,推测出密钥的第一位错误。再看上面那句话,T-e应该为The,对 '-'和 'w'进行异或得原文字符为 'Z',再对 'Z'和 'h' 异或得密钥为 '2'。至此我们就得到了异或加密的密钥: 23\xffSY\x8b 最后用Python进行异或解密即可得flag:



DDCTF{0dcea345ba46680b0b323d8a810643e9}

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