# BMZCTF-MISC (-) WriteUp

# 原创

 Crazy198410
 ● 2020-11-15 23:21:56 发布
 ● 441 全 收藏

 分类专栏:
 BMZCTF BMZCTF-MISC 文章标签: 安全 python

 版权声明:
 本文为博主原创文章,遵循 CC 4.0 BY-SA 版权协议,转载请附上原文出处链接和本声明。

 本文链接:
 https://blog.csdn.net/Crazy198410/article/details/109612549



BMZCTF 同时被 2 个专栏收录

2篇文章0订阅

订阅专栏



4 篇文章 0 订阅 订阅专栏

## 

## MISC

0x01 签到题 0x02 2018 HEBTUCTF 签到题 0x03 2018 HEBTUCTF 你可能需要一个wireshark 2018 护网杯 迟来的签到题 Traffic\_Light **Fixit** 真正的CTFer 解不开的秘密 memory 赢战2019 2020sdnisc-CTF的起源 2020sdnisc-简单的is 2020sdnisc-损坏的流量包 2020sdnisc-过去和现在 2020sdnisc-左上角的秘密 泰湖杯-MISC 可乐加冰 pcap pcap\_analysis 网鼎杯 2020 boom

# MISC

http://www.bmzclub.cn/challenges 解密

关注公众号: 白帽子社区, 回复关键字: BMZCTF 获取flag

## 0x01 签到题

Challenge	54 Solves	×
	签到题	
关注公众号: 6	<b>1</b> 日帽子社区,回复关键字:BMZCTF	获取flag
Flag		Submit
	https://blog.csdn.net	/Crazy198410

## 0x02 2018 HEBTUCTF 签到题

Challenge	32 Solves	×
2018	HEBTUCTF 签到 91	题
🛓 zip		
Flag	Su	ıbmit
	https://blog.csdn.net/Cr	

下载压缩包。是个名为zip的文件,没有后缀名。用 010editor 打开,看下文件头部:

1	3 010	Edito	r - 0	C:\Us	ers\	Cra	zy∖D	own	load	s∖zi	р							
3	文件(E)	编辑	(E)	搜	索( <u>S</u> )	礼	2图(	<u>v</u> )	格式	;( <u>O</u> )	脚	本(1)	榡	<b>粄(L</b>	) ]	Ι <u></u>	Œ	窗口(W) 帮助(H)
I.					1	1 1	<b>•</b> ,	÷.	1 🖇	•		1	5	3	۱ 🌶	•	B	疩 🔶 I 🧛 📐 🔤 🎇 ¶ 🔢
#	起始页	zi	р×															<>
Ŧ	・ 编辑	访式	: +;	六进的	制(H)		运	行脚	本~		运行	模板						
														Ċ	Ď	Ę		UIZ3456789ABCDEF
0	000h:	50	4B	03	04	14	00	00	00	08	00	89	5C	4D	4D	15	DC	PK‰∖MM.Ü
0	010h:	2F	DD	DC	5F	00	00	B5	66	00	00	04	00	00	00	74	79	/YUµfty
0	020h:	70	65	EC	5A	77	54	53	4F	16	0E	5D	90	26	10	BA	88	peìZwTSO].&.°^
0	030h:	4A	0B	25	F4	2A	20	16	90	24	86	92	DO	03	08	48	0B	J.%ô*\$†'ÐH.
0	040h:	18	ЗA	08	08	4A	13	57	BA	49	48	24	09	41	81	04	42	.:J.W°IH\$.AB
0	050h:	17	E9	45	01	<b>A</b> 5	04	04	<b>A</b> 5	05	<b>A</b> 5	49	15	45	40	8A	60	.éE.¥¥.¥I.E@Š`
0	060h:	DF	DF	B2	BD	9D	В3	67	F7	FF	FD	72	32	6F	92	F7	DE	ßß°⅔.³g÷ÿýr2o'÷Þ
0	070h:	9D	39	6F	BE	37	F3	DD	7B	E7	B7	D7	BF	2D	00	84	A1	.9o¾7óÝ{ç·×¿−."j
0	080h:	56	10	2B	00	1B	1B	1B	C0	FA	FO	03	F8	6D	06	70	01	V.+Àúð.øm.p.
0	090h:	20	C8	77	94	FF	28	AF	20	FF	51	7E	61	21	C1	63	C0	Èw″ÿ( ÿQ~a!ÁcÀ
0	OAOh:	D3	12	40	51	51	AO	DA	89	93	D2	<b>A</b> 7	75	35	0C	F4	75	Ó.@QQ Ú‰"Ò§u5.ôu
0	OBOh:	34	B4	B5	8C	CE	DA	5B	1A	99	C2	CD	B4	B4	AD	BC	2E	4´μŒÎÚ[.™ÂÍ´´−₊₄.
0	ocon•	CI	חו	90	50	त्रत्र	28	C3	88	57	83	AF	BA	04	ng	BB	12	Δ໌ ດ= Dີ 1 ( ຟິ / ຟ / ໝ ° ໄ) ນ.ດ

0000011.	- 01	TD	20	- 00		20	00	00	37	- 00	mL	DR	01	05	00	ma	A.GET (ACH)O .0%
00D0h:	9C	FF	68	84	4D	48	58	18	28	02	04	49	48	80	9C	4D	œÿh"MHX.(IH€œM
OOEOh:	B4	4D	9C	FF	67	FC	D6	05	38	76	84	BD	9E	BD	9E	83	´MœÿgüÖ.8v"≒źž₅źf
00F0h:	ED	14	80	FD	18	1B	C7	31	B6	DF	9E	03	64	01	6C	00	í.€ýÇl¶ßž.d.l.
0100h:	36	AE	C3	DE	FE	1D	6C	EC	1C	5C	DC	3C	9C	47	0E	CF	6⊗ÃÞþ.lì.∖Ü<œG.Ï
0110h:	DA	08	03	D8	D9	38	38	D8	D9	39	79	04	38	79	78	OF	ÚØÙ88ØÙ9y,8yx.
0120h:	2F	FB	E3	59	CE	63	5C	DC	27	45	B4	CF	D9	8B	7 <b>A</b>	ntigas:	//b/@g.csdhethytazy198410
01001	-	70		0.00	O.F.	-	-	-	00	<b>F O</b>	E 61	4.0	-	00	00	70	

# 发现是个压缩包,添加后缀.zip,然后用winrar打开。

	添加	解注到	测试	宣宿	删除	笪找	同号	信息	扫油病毒	注释	日解压怕式		
	↑	🟪 zip.zi	p-ZIP 压缩	文件, 解包	大小为 26,	293 字节							
2	称		~			×	<u>بلا</u>	压缩后大小	类型			修改时间	CRC32
	l								文件夹				
	type					26,2	93	24,540	文件			2018/10/13 11:36	DD2FDC

-----

## 发现又是一个无后缀文件,解压出来,再用 010editor 打开

<u>&gt;&gt;</u> 010	Edito	r - 0	:\Us	ers\	Cra:	zy∖D	eskt	op\t	ype								
文件(E)	编辑	(E)	搜	素( <u>S</u> )	礼	见图()	<u>v</u> )	格式	; <u>(O)</u>	脚	本(1)	梈	<b>粄(L</b>	.) [	I具	(I) î	窗口(W) 帮助(H)
i 🗋 🗸				1	1	<b>b</b> 1	<b>.</b>	1 8	•		1	ົ	3	۱ 🌶	•	<b>i</b> B 🍃	🕨 🔶 I 🧛 📐 🔤 🛒 👖
起始页	ty	лре)	×														< >
▼ 编辑	访式	: +;	六进	<u>制(ਮ</u>	) 🗸	jā	行脚	」本、	′ _ :	运行	模板	Υ.		<b>D</b>	F	F	01004567003000000
0000h	् नन	÷ D8	은 국국	e E0	7 00	9 10	9 4A	46	9 49	9 46	00		01	01	÷ 00	년 48	VØVÀJFTFH
0010h:	00	48	00	00	FF	DB	00	43	00	0E	0A	0B	00	0B	09	0E	.HÿÛ.C
0020h:	0C	0B	0C	10	0F	0E	11	15	23	17	15	13	13	15	2B	lF	#+.
0030h:	21	1A	23	33	2D	36	35	32	2D	31	30	38	ЗF	51	45	38	!.#3-652-108?QE8
0040h:	3C	4D	ЗD	30	31	46	60	47	4D	54	56	5B	5C	5B	37	44	<m=01f`gmtv[\[7d< td=""></m=01f`gmtv[\[7d<>
0050h:	63	6A	63	58	6A	51	59	5B	57	FF	DB	00	43	01	0F	10	/blog op to to to the 108 410
0060h:	10	15	12	15	29	17	17	29	57	ЗA	31	ЗA	57	57	57	Babs	S. MDIOG, CSUILITE WWW ZY 198410

## 疑似是个jpg文件,再看下文件尾部:

3	010	Edito	r - (	:\U	sers\	Cra	zy∖D	eskt	op\t	ype								
文作	‡(E)	编辑	(E)	搜	索( <u>S</u> )	ł	N图()	<u>v</u> )	格式	( <u>O</u> )	脚	本([)	榰	<b>粄(L</b>	)	I具(	I) 1	窗口(W) 帮助(H)
I C	$ $ $\sim$				Ì 👩		۱ 🗖	\$	1 🖁		ì	1	ົ	3	۱ 🌶	•	B 🍃	Þ 🔶 I 🧛 📐 🔤 📰 📲
起如	疯	ty	лре)	×														<
Ŧ	编辑	访式	: +;	六进	制(H)	$) \sim$	运	行脚	本、	<u> </u>	运行,	摸板	$\sim$					
														Ċ	D	E		0123456789ABCDEF
65A	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
65B	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
65C	0h:	00	00	00	AA	00	00	00	00	00	00	00	00	00	00	00	00	
65D	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
65E	0h:	00	80	80	00	00	00	00	00	00	00	00	00	00	00	00	00	€
65F	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
660	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
661	0h:	00	00	00	00	00	00	00	00	00	00	00	00	AA	00	00	00	
662	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
663	0h:	00	00	00	00	00	00	00	00	00	00	08	80	00	00	00	00	€
664	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
665	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
666	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
667	0h:	00	00	00	00	00	AA	00	00	00	00	00	00	00	00	00	00	
668	0h:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
669	0h:	00	00	FF	D9	48	45	42	54	55	43	54	46	7B	6C	6B	66	ÿÙHEBTUCTF{lkf
66A	0h:	64	6C	66	6E	71	77	6E	6F	69	64	61	73	66	6D	61	6B	dlfnqwnoidasfmak
66B	0h:	6C	6D	66	7D	1A										htt	ps://	olo <del>g.€</del> sdn.net/Crazy198410

可以得到flag

## 0x03 2018 HEBTUCTF 你可能需要一个wireshark



2018 HEBIUU 要一个wi	」 ト 你可能需 ireshark
9	7
🛓 wireshark.zip	
Flag	Submit

### 下载附件,是个流量包文件,用wireshark打开:

🧧 γοι	ijun.pcapng	)													
文件(E	) 编辑(E)	视图(⊻)	跳转( <u>G</u> )	捕获( <u>C</u> )	分析( <u>A</u> )	统计( <u>S</u> )	电话(Y)	无线(W)	工具(T	帮助(	H)				
	10	- 📑 🗙	۵ 🔇	⊕ ⇒ ≦	显示	⊰过滤器(E)									
top	.stream eq	17			显示	(过滤器宏)	( <u>M</u> )								
No.	Time		Sourc	Je	成月	为列		Ctrl+Shift+I	rot	ocol I	length	Info			
Г	349 31.6	542613	192.	.168.111	作为	动动海器应	Ħ		CP		66	54446	5 → 80	[SYN	] Seq=0 W
	350 31.6	542913	192.	.168.111	11-2	2)-+/~+28 기도(Merrial)			CP		62	80 →	54446	[SYN	, ACK] Se
	351 31.6	542993	192.	.168.111	/庄臣				CP		54	54446	5 → 80	[ACK	] Seq=1 A
	352 31.6	543227	192.	.168.111	XII	印江海番			ТТ	Р	1090	POST	/dvwa	-1.9/	vulnerabi
	353 31.6	556357	192.	.168.111	启用	]的协议…		Ctrl+Shift+I	e <mark>CP</mark>		1514	80 →	54446	[ACK	] Seq=1 A
	354 31.6	556359	192.	.168.111	解码	为(A)			CP		1514	80 →	54446	[ACK	] Seq=146
	355 31.6	556413	192.	.168.111	田田	f載λ Lua	插供(	Ctrl+Shift+I	СР		54	54446	5 → 80	[ACK	] Seq=103
	356 31.6	556831	192.	.168.111		1207 ( 200	JPHIT 1	carronner	CP		1514	80 →	54446	[ACK	] Seq=292
	357 31.6	556832	192.	.168.111	SCT	P				Р	858	HTTP/	/1.1 2	00 OK	(text/h
	358 31.6	556861	192.	.168.111	追踪	流			•	TCP 清	6 (	Ctrl+Alt	+Shift+	T 🔣	] Seq=103
	363 33.3	323094	192.	.168.111				or Luck 10	_	UDP 🖁	ίā (	Ctrl+Alt	+Shift+	u (vi	ulnerabil
	364 33.3	325931	192.	.168.111	並わ	の狙子で、	(	Ctrl+Shift+	0	TLS 流		Ctrl+Alt	+Shift+	s <mark>en</mark>	, ACK] Se
	366 33.3	328390	192.	.168.111	专家	?信息				HTTP	· ·	Ctrl+Alt	+Shift+I	H K	] Seq=518
	370 33.3	331127	192.	.168.111	.139	192.	168.11	1.1	ren		1014	00 7	24440	THEK	] Seq=518
	371 33.3	331129	192.	168.111	.139	192.	168.11	1.1	ТСР		1514	80 →	54446	[ACK	] Seq=664
	372 33.3	331130	192.	168.111	.139	192.	168.11	1.1	ТСР		1514	80 →	54446	[ACK	] Seq=810
	373 33.3	331130	192.	.168.111	.139	192.	168.11	1.1	ТСР		1514	80 🔾	54446	[ACK	] Seq=956

追踪TCP流,发现是个DVWA的练习流量包。

```
GET /dvwa-1.9/vulnerabilities/brute/ HTTP/1.1
Host: 192.168.111.139
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Referer: http://192.168.111.139/dvwa-1.9/security.php
Cookie: security=low; PHPSESSID=khheaibs11e39a9hi5muut3170
Connection: keep-alive
Upgrade-Insecure-Requests: 1
```

逐个流查看,在第17个流发现上传了一个flag.txt文件。文件内容是一串加密内容。

🚄 Wireshark · 追踪 TCP 流 (tcp.stream eq 17) · youjun.pcapng

```
POST /dvwa-1.9/vulnerabilities/upload/ HTTP/1.1
Host: 192.168.111.139
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Referer: http://192.168.111.139/dvwa-1.9/vulnerabilities/upload/
Cookie: security=low; PHPSESSID=khheaibs11e39a9hi5muut3170
Connection: keep-alive
Ubgrade-Insecure-Requests: 1
```



观察密文,看到有大小写字母,数字和"=",初步判断为base64加密,使用在线解密尝试,再url解码,得到flag。

文字加密解密	MD5加密/角	解密 URL加密	JS加/解密	JS混淆加密压缩	ESCAP	E加/解密 E	BASE64	散列/哈希	迅雷, 快车,	旋风URL加解密	ş
HEBTUCTF9	67Bf1ag_1s_w	v3n_d4o%7D			S	SEVCVFVDV	'EYIN0Jn	1MWFnXzFz	X3czbl9kNG	BINOQ=	
					[			口多行 https//	Base64加密 /blog.csdn.r	Base64解密 tet/Crazy1984	7 410 7
Unicode编码	UTF-8编码	URL编码/解码	Unix时间戳	Ascii/Native编	码互转	Hex编码/詹	解码 H	tml编码/解码	3		

HEBTUCTF{f1ag_1s_w3n_d4o}					
	utf-8	<b>-</b>	htEnicode编码。	√	翻

2018 护网杯 迟来的签到题

Challenge	17 Solves	×
2018	护网杯 迟来的签到	到题
🛓 qiandao.zij	98	
Flag		Submit

下载附件,解压后是一个文本,里面是一串密文: AAoHAR1TIIIkUFUjUFQgVyInVSVQJVFRUSNRX1YgXiJSVyJQVRs=,初步判断是 base64密文,用base64解密后是一串乱码:

文字加密解密 MD5加密/解密 URL加密 JS加/解密 JS混	講加密压缩 ESCAPE加/解密 BASE64 散列/哈希 迅雷,快车,旋风URL加解密
DDDS**\$PU#PT W*'U%P%QQQ#Q_V ^*RW*PUD	AAoHAR1TIilkUFUjUFQgVyInVSVQJVFRUSNRX1YgXiJSVyJQVRs=
	□多行 Base64加密 Base64解密 清空结果 https://blog.csdn.net/Crazy198410

查看压缩包内题目提示: easy xor??? 可以判断是要异或后才能得到flag。写python脚本



]4  }
D
`jga}3BBD05C04@7BG5E0E111C1?6@>B27B05{
akf` 2CCE14B15A6CF4D1D000B0>7A?C36C14z
bhec1@@F27A26B5@E7G2G333A3=4B<@05@27y
cidb~0AAG36@37C4AD6F3F222@2<5C=A14A36x
dncey7FF@41G40D3FC1A4A555G5;2D:F63F41
eobdx6GGA50F51E2GB0@5@444F4:3E:G72G50~
flag{5DDB63E62F1DA3C6C777E790F8D41D63}
gm +z4EEC/2D/3G0E@2B/B666D681G9E50E/2
hboiu;JJL8=K8 <h?jo=m8m999k97>H6J:?J8=s</h?jo=m8m999k97>
icnht:KKM9 <j9=i>KN<l9l888j86?i7k;>K9<r< th=""></r<></l9l888j86?i7k;></j9=i>
j`mkw9HHN:?I:>J=HM?O:O;;;;I;5 <j4h8=h:?q< th=""></j4h8=h:?q<>
kaljv8IIO;>H;?K <il>N;N::::H:4=K5I9<i;>p</i;></il>
lfkmq?NNH<90<8L;NK9I <i===0=3:l2n>;N&lt;9w</i===0=3:l2n>
mgjlp>OOI=8N=9M:0J8H=H<< <n<2;m30?:0=8v< th=""></n<2;m30?:0=8v<>
ndios=LLJ>;M>:N9LI;K>K???M?18N0L<9L>;u
oehnr <mmk?:l?;08mh:j?j>&gt;&gt;L&gt;0901M=8M?:t</mmk?:l?;08mh:j?j>

# Traffic\_Light



对图片进行分解 得到1688张图片



观察图片,

1、发现第2的倍数的图片都是没有灯亮的。忽略不计。
 2、绿灯和红灯总和为8或8的倍数时,下一张一定是黄色。
 由此可以推断为二进制。绿为1,红为0。
 写脚本进行编码:

```
# -*-coding: utf-8 -*-
from PIL import Image
binstr = ""
flag = ""
def decode(s):
    return ''.join([chr(i) for i in [int(b, 2) for b in s.split(' ')]])
for i in range(1168):
   image=Image.open(r'./202011/'+str(i)+'.jpg')
    # print (image.getpixel((115,55)))#输出颜色值
    # print (image.getpixel((115,145)))
    tmp1 = image.getpixel((115,55))
   tmp2 = image.getpixel((115,150))
    # print (type(tmp1))
   if(tmp1[0] > 250):
   elif(tmp2[1] > 250):
   else:
print (binstr)
for i in range(len(binstr)):
    if i%8==0:
        flag +=decode(binstr[i:i+8])
print(flag)
```

## 得到flag

Fix it



![](_page_9_Picture_1.jpeg)

使用photoshop进行修补,并识别:

![](_page_9_Picture_3.jpeg)

得到flag: flag{easyQRcode}

真正的CTFer

![](_page_9_Picture_5.jpeg)

![](_page_9_Picture_6.jpeg)

![](_page_10_Picture_0.jpeg)

#### 修改高度:

4	struct PNG_CHUNK chunk[0]	IHDR (Critical, Pu	8h
	uint32 length	13	8h
	b union CTYPE type	IHDR	Ch
	struct PNG_CHUNK_IHDR ihdr	1308 x 5000 (x8)	10h
	uint32 width	1308	10h
	uint32 height	5000	14h
	ubyte bits	8	18h

## 可以看到下面还有一张图片

![](_page_10_Picture_4.jpeg)

![](_page_11_Picture_0.jpeg)

将图片放大可以看到flag:

![](_page_11_Picture_2.jpeg)

仔细看能看到flag flag{d2b5543c2f8aa8229057872dd85ce5a9}

解不开的秘密

## 下载后是一个压缩包,里有一个file文件,和一个flag.docx文本

<u>k</u>			文件夹							
file	3,344	1,036	文件	2019/5/22 18	B963F727					
flag.docx	327,680	325,206	Office Open XM	2019/7/12 9:23	B2B03E3E					

## 用文本工具打开file文件,里面有许多数字和少许的英文。怀疑是十六进制

放入010editor中

																	0120400100100000
0h:	4D	44	45	4B	49	6C	4E	6C	62	6D	52	44	64	58	52	55	MDEKI1N1bmRDdXRU
0h:	5A	58	68	30	49	6A	31	6B	64	32	39	79	5A	44	6F	77	ZXh0Ij1kd29yZDow
0h:	4D	44	41	77	4D	44	41	77	4D	51	6F	69	52	47	6C	7A	MDAwMDAwMQoiRGlz
0h:	59	57	4A	73	5A	55	78	76	59	32	46	73	53	57	35	77	YWJsZUxvY2FsSW5w
0h:	64	58	52	7A	49	6A	31	6B	64	32	39	79	5A	44	6F	77	dXRzIj1kd29yZDow
0h:	4D	44	41	77	4D	44	41	77	4D	41	6F	69	52	47	6C	7A	MDAwMDAwMAoiRGlz
0h:	59	32	39	75	62	6D	56	6A	64	45	4E	73	61	57	56	75	Y29ubmVjdENsaWVu
0h:	64	48	4D	69	50	57	52	33	62	33	4A	6B	4F	6A	41	77	dHMiPWR3b3Jk0jAw
0h:	4D	44	41	77	4D	44	41	78	43	69	4A	42	62	48	64	68	MDAwMDAxCiJBbHdh
0h:	65	58	4E	54	61	47	46	79	5A	57	51	69	50	57	52	33	eXNTaGFyZWQiPWR3
0h:	62	33	4A	6B	4F	6A	41	77	4D	44	41	77	4D	44	41	77	b3JkOjAwMDAwMDAw
0h:	43	69	4A	4F	5A	58	5A	6C	63	6C	4E	6F	59	58	4A	6C	CiJOZXZlclNoYXJ1
0h:	5A	43	49	39	5A	48	64	76	63	6D	51	36	4D	44	41	77	ZCI9ZHdvcmQ6MDAw
0h:	4D	44	41	77	4D	44	41	4B	49	6B	52	70	63	32	4E	76	MDAwMDAKIkRpc2Nv
0h:	62	6D	35	6C	59	33	52	42	59	33	52	70	62	32	34	69	bm51Y3RBY3Rpb24i
0h:	50	53	4A	4F	62	32	35	6C	49	67	6F	69	55	6D	56	74	PSJOb251IgoiUmVt
0h:	62	33	5A	6C	56	32	46	73	62	48	42	68	63	47	56	79	b3Z1V2FsbHBhcGVy
0h:	49	6A	31	6B	64	32	39	79	5A	44	6F	77	4D	44	41	77	Ij1kd29yZDowMDAw
0h:	4D	44	41	77	4D	41	6F	69	55	6D	56	74	62	33	5A	6C	MDAwMAoiUmVtb3Z1
0h:	55	47	46	30	64	47	56	79	62	69	49	39	5A	48	64	76	UGF0dGVybiI9ZHdv
0h:	63	6D	51	36	4D	44	41	77	4D	44	41	77	4D	44	41	4B	cmQ6MDAwMDAwMDAK
0h:	49	6B	52	70	63	32	46	69	62	47	56	46	5A	6D	5A	6C	IkRpc2FibGVFZmZ1
0h:	59	33	52	7A	49	6A	31	6B	64	32	39	79	5A	44	6F	77	Y3RzIj1kd29yZDow
0h:	4D	44	41	77	4D	44	41	77	4D	41	6F	69	56	58	4E	6C	MDAwMDAwMAoiVXN1
0h:	53	47	39	76	61	33	4D	69	50	57	52	33	62	33	4A	6B	SG9va3MiPWR3b3Jk
0h:	4F	6A	41	77	4D	44	41	77	4D	44	41	78	43	69	4A	51	OjAwMDAwMDAxCiJQ
0h:	62	32	78	73	51	32	39	75	63	32	39	73	5A	56	64	70	b2xsQ29uc29sZVdp
0h:	62	6D	52	76	64	33	4D	69	50	57	52	33	62	33	4A	6B	bmRvd3MiPWR3b3Jk
0h:	4F	6A	41	77	4D	44	41	77	4D	44	41	78	43	69	4A	44	OJAWMDAwMDAxCiJD
0h:	62	32	31	77	59	58	4A	6C	52	6B	49	69	50	57	52	33	b21wYXJ1RkIiPWR3
0h:	62	33	4A	6B	4F	6A	41	77	4D	44	41	77	4D	44	41	78	b3Jk0jAwMDAwMDAx
0h:	43	69	4A	51	63	6D	39	30	62	32	4E	76	62	44	4D	75	C1JQcm90b2NvbDMu
0h:	4D	79	49	39	5A	48	64	76	63	6D	51	36	4D	44	41	77	MyI9ZHdvcmQ6MDAw
0h:	4D	44	41	77	4D	44	41	4B	49	6D	52	31	62	57	31	35	MDAwMDAKImR1bW15
0h:	49	6A	30	69	49	67	6F	3D									Ij0iIgo=
													h	ttns	://h	log	csdn.net/Crazv1984
														upo		iog.	obuliniter of uzy 1304

看到最后有个"=", 怀疑是base64。用base64解码:

#### Windows Registry Editor Version 5.00

### [HKEY\_CURRENT\_USER\Software\RealVNC]

[HKEY\_CURRENT\_USER\Software\RealVNC\vnclicensewiz]
"\_AnlClientId"="8f5cc378-2e1d-4670-80e0-d2d81d882561"
"\_AnlSelected"="0"
"\_AnlInclRate"="0.0025"

[HKEY\_CURRENT\_USER\Software\RealVNC\vncserver]

[HKEY\_CURRENT\_USER\Software\RealVNC\VNCViewer4]
"dummy"=""

[HKEY\_CURRENT\_USER\Software\RealVNC\VNCViewer4\MRU] "00"="127.0.0.1" "Order"=hex:00,01 "01"="127.0.0.1:5900"

[HKEY\_CURRENT\_USER\Software\RealVNC\WinVNC4] 'Password"=hex:37,5e,be,86,70,b3,c6,f3 "SecurityTypes"="VncAuth" 'ReverseSecurityTypes"="None" QueryConnect"=dword:0000000 "PortNumber"=dword:0000170c 'LocalHost"=dword:0000000 'IdleTimeout"=dword:00000e10 "HTTPPortNumber"=dword:000016a8 "Hosts"="+," 'AcceptKeyEvents"=dword:0000001 'AcceptPointerEvents"=dword:0000001 'AcceptCutText"=dword:0000001 'SendCutText"=dword:0000001 'DisableLocalInputs"=dword:0000000 'DisconnectClients''=dword:0000001 AlwaysShared"=dword:0000000 "NeverShared"=dword:0000000 "DisconnectAction"="None" 'RemoveWallpaper"=dword:0000000 'RemovePattern"=dword:0000000 DisableEffects"=dword:0000000 "UseHooks"=dword:0000001 'PollConsoleWindows"=dword:0000001 CompareFB"=dword:0000001 "Protocol3.3"=dword:0000000 "dummy"=""

## 可以看到中间位置有 "Password"=hex:37,5e,be,86,70,b3,c6,f3

开头 [HKEY\_CURRENT\_USER\Software\RealVNC\vncserver] 中有RealVNC。于是用 Vccx4.exe 进行破解:

![](_page_14_Picture_2.jpeg)

得到密码: !QAZ2wsx

用密码打开flag.docx,将图片移开,并全选修改字体颜色,可以看到flag

![](_page_14_Picture_5.jpeg)

### memory

下载附件后,用 volatility 进行分析

λ python3 vol.py -f memory windows.pslist											
Volatility 3 Fra	amework 2.0.0-be	ta.1									
Progress: 100.0	90	PDB scanning fi	nished								
PID PPID put	ImageFileName	Offset(V)	Threads	Handles	Session	Id	Wow64	CreateTime	ExitTime	File c	
4 0	System 0x80ea2	660 51	209	N/A	False	N/A	N/A	Disabled			
540 4	smss.exe	0xff334cc8		17	N/A	False	2019-01	-16 03:10:21	.000000	N/A	
Disabled											
604 540	csrss.exe	0xff2de458	10	283	0	False	2019-01	-16 03:10:23	.000000	N/A	
Disabled											
628 540	winlogon exe	0xff2dbb70	17	262	0	False	2019-01	-16 03.10.23	000000	N/A	
Disabled	Winizogoni Cat	io-info	20	2012			2015 01	10 05.10.25		11/14	
600 610	convicos ovo	Avff2cEa00	16	225	0	Falsa	2010 01	16 02.10.24	000000	N/A	
Dischlad	Services.exe	0/11203090	10	525	0	Faise	2019-01	-10 05.10.24	.000000	NITA	
DISADIEU	, readthedd	Suffa-4d-0	20	240	So YiMi	F-1	2040 04	46.02.40.24	000000		
092 028	isass.exe	0XTT2C10a0	20	319	0	Faise	2019-01	-16 03:10:24	. 666666	N/A	
Disabled											
848 680	vmacthlp.exe	0x++2b1438	1 20	25	0	False	2019-01	-16 03:10:24	.000000	N/A	
Disabled											
864 680	svchost.exe	0xff2a47b8	5	115	0	False	2019-01	-16 03:10:24	.000000	N/A	
Disabled											
932 680	svchost.exe 🗤	0xff29a850	10 🔅	206	0	False	2019-01	-16 03:10:24	.000000	N/A	
Disabled											
1024 680	svchost.exe	0xff28e020	43	792	0	False	2019-01	-16 03:10:24	.000000	N/A	
Disabled											
1084 680	svchost.exe	0xff28a020	4 20	57	0	False	2019-01	-16 03:10:24	. 000000	N/A	
Disabled				204140.0				- 1 M D			
1372 680	snoolsy eve	avff263020	12	123	a	Falsa	2010-01	-16 03.10.26	000000	N/A	
Disabled	spoorsv.exe	0711203020	1 <b>2</b> 20	123		Tarse	2019-01	-10 05.10.20	.000000	11/15	
1404 600	umtooled ovo	Avff)70560	7 20	266	A	Falsa	2010 01	16 02.10.12	000000	N/A	
1404 000	viiicoorsu.exe	011270500		200	0	Faise	2019-01	-10 05.10.45	.000000	N/A	
DISabled	volshell.sp	ec 		437		<b>F</b> -1	2242 24	46.02.40.44			
1/56 680	svcnost.exe	0x1121cda0	8	137	0	Faise	2019-01	-16 03:10:44	. 000000	N/A	
Disabled											
1048 892	explorer.exe	0x++201300	12	291	0	False	2019-01	-16 03:16:51	.000000	N/A	
Disabled											
1120 680	rundll32.exe	0xff1d51d0	6	162	0	False	2019-01	-16 03:16:51	.000000	N/A	
Disabled											
928 1048	vmtoolsd.exe	0xff1ce150		174	0	False	2019-01	-16 03:16:52	.000000	N/A	
Disabled											
1356 1048	ctfmon.exe	0xff1cc020	1	68	0	False	2019-01	-16 03:16:52	.000000	N/A	
Disabled											
1296 1048	DumpTt.exe	0xff206398	1	29	0	False	2019-01	-16 03:19:03	000000	N/A	
Disabled	o ampire i ence	0.000000					2010 01	20 03.13.03			
384 1206	conime eve	avff20d020	1	28	0	False	2010-01	-16 03.10.02		AND AL A	
Disabled	confine.exe	00020	-	20	·	arse	2013-01	nttps://blog.83d	In:met/Crazy1	98410	
I SAULEU											

## 题目是"分析内存镜像,破解管理员的登录密码,flag为明文密码的MD5值"

#### 我们分析镜像中的hash值:

Administrator	500	0182bd0bd4444bf867cd839bf040d93b	c22b315c040ae6e0efee3518d830362b
Guest 501	aad3b43	5b51404eeaad3b435b51404ee	31d6cfe0d16ae931b73c59d7e0c089c0
HelpAssistant	1000	132893a93031a4d2c70b0ba3fd87654a	fe572c566816ef495f84fdca382fd8bb

得到密文:

Administrator	500	0182bd0bd4444bf867cd839bf040d93b	c22b315c040ae6e0efee3518d830362b
Guest 501	aad3b435	5b51404eeaad3b435b51404ee	31d6cfe0d16ae931b73c59d7e0c089c0
HelpAssistant	1000	132893a93031a4d2c70b0ba3fd87654a	fe572c566816ef495f84fdca382fd8bb

进行修改将中间的""改为":"

Administrator:500:0182bd0bd4444bf867cd839bf040d93b:c22b315c040ae6e0efee3518d830362b Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0 HelpAssistant:1000:132893a93031a4d2c70b0ba3fd87654a fe572c566816ef495f84fdca382fd8bb

存为文件,再用john进行爆破

Reading package lists... Done Building dependency tree Reading state information... Done john is already the newest version (1.9.0-Jumbo-1-Okali3). O upgraded, O newly installed, O to remove and O not upgraded. root@DESKTOP-UQR22MA:/mnt/c/Users/Crazy/Desktop# john 123.txt Using default input encoding: UTF-8 No password hashes loaded (see FAQ) root@DESKTOP-UQR22MA:/mnt/c/Users/Crazy/Desktop# john 123.txt Using default input encoding: UTF-8 Using default target encoding: CP850 Loaded 5 password hashes with no different salts (LM [DES 256/256 AVX2]) Warning: poor OpenMP scalability for this hash type, consider --fork=8 Will run 8 OpenMP threads Proceeding with single, rules:Single Press 'q' or Ctrl-C to abort, almost any other key for status Almost done: Processing the remaining buffered candidate passwords, if any. Warning: Only 674 candidates buffered for the current salt, minimum 2048 needed for performance. Proceeding with wordlist:/usr/share/john/password.lst, rules:Wordlist (Guest) 1234567 89 Proceeding with incremental:LM\_ASCII 3g 0:00:00:08 0.00% 3/3 (ETA: 2020-11-21 20:29) 0.3468g/s 39148Kp/s 39148Kc/s 78312KC/s KAWNBUI..KIMR1NK Warning: passwords printed above might be partial passwords printed above might be partial --show --format=LM" options to display all of the cracked passwords reliably https://blog.csdn.net/Crazy198410 Use the Session aborted

## 可以得到密码 123456789

再md5加密,就是flag:

要加	n密的字符串: 123456789 加密
字符串	123456789
16位 小写	323b453885f5181f
16位 大写	323B453885F5181F
32位 小写	25f9e794323b453885f5181f1b624d0b
32位 大写	25F9E794323B453885F5181F1B624D0B

但提交错误,可能是题目的问题。

## 赢战2019

下载附件,为一张图片

![](_page_16_Picture_7.jpeg)

![](_page_17_Picture_0.jpeg)

binwalk进行分析:

- #binwalk	-e zhu.jpg	
DECIMAL	HEXADECIMAL	DESCRIPTION
28 12834 34115 2973168 2973198 2973500 2989418 3008886	0x1C 0x3222 0x8543 0x2050F0 0x20550E0 0x20550C 0x20553C 0x209D6A 0x20E976	TIFF image data, big-endian, offset of first image directory: 8 JPEG image data, JFIF standard 1.02 Copyright string: "Copyright 2002 Adobe Systems, Inc." JPEG image data, JFIF standard 1.02 TIFF image data, big-endian, offset of first image directory: 8 JPEG image data, JFIF standard 1.02 JPEG image data, JFIF standard 1.02 Copyright string: "Copyright (c) 1998 Hewlett-Packard Company"

#### 分解出两张图片

![](_page_17_Picture_4.jpeg)

#### 对二维码扫描:

![](_page_17_Picture_6.jpeg)

![](_page_18_Picture_0.jpeg)

![](_page_18_Figure_1.jpeg)

![](_page_18_Picture_2.jpeg)

可以在左下角看到flag flag{You\_ARE\_SOsmart} 要写全。不是{}内的。。。。

2020sdnisc-CTF的起源

#### 下载附件为一个文本

![](_page_19_Figure_1.jpeg)

看到每一行后面基本都有==

```
怀疑是base64隐写。用脚本解密:
```

```
def get base64 diff value(s1, s2):
   base64chars = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/'
   res = 0
   for i in xrange(len(s2)):
        if s1[i] != s2[i]:
            return abs(base64chars.index(s1[i]) - base64chars.index(s2[i]))
   return res
def solve_stego():
   with open('flag.txt', 'rb') as f:
        file_lines = f.readlines()
        for line in file_lines:
            steg_line = line.replace('\n', '')
           norm_line = line.replace('\n', '').decode('base64').encode('base64').replace('\n', '')
           diff = get_base64_diff_value(steg_line, norm_line)
           print diff
           pads_num = steg_line.count('=')
            if diff:
                bin str += bin(diff)[2:].zfill(pads num * 2)
            else:
                bin_str += '0' * pads_num * 2
            print goflag(bin_str)
def goflag(bin_str):
   for i in xrange(0, len(bin_str), 8):
       res_str += chr(int(bin_str[i:i + 8], 2))
   return res_str
    _name__ == '__main__':
if
solve_stego()
```

flag{944776b2c95a350bb27d7038d42b273a 0 flag{944776b2c<u>95a350bb27d7038d42b273a</u>

补全大括号即可

## 2020sdnisc-简单的js

下载附件是一个js文件 打开: \* @return {string} \*/ function pseudoHash(string, method) { // Default method is encryption if (!('ENCRYPT' == method || 'DECRYPT' == method method = 'ENCRYPT'; } // Run algorithm with the right method if ('ENCRYPT' == method) { // Variable for output string var output = ''; // Algorithm to encrypt for (var x = 0, y = string.length, charCode, h

![](_page_20_Figure_5.jpeg)

是一段代码。给了算法过程和结果。只要逆运算就可以。 写脚本:

![](_page_20_Figure_7.jpeg)

得到flag: flag{db38fbff0f67e7eb3c9d274fd180a4b3}

2020sdnisc-损坏的流量包

下载附件,是一个流量包,但wireshark打不开。 用010editor打开。

50h:	00	00	00	00	05	00	08	00	00	00	00	00	00	00	00	00	
60h:	00	00	00	00	6C	00	00	00	50	4B	03	04	0A	00	00	00	lPK
70h:	00	00	12	6B	5E	51	D1	86	<b>B</b> 9	05	25	00	00	00	25	00	k^QÑt¹.%%.
BOh:	00	00	07	00	1C	00	6B	65	79	2E	74	78	74	55	54	09	key.txtUT.
90h:	00	03	94	A3	9B	5F	96	A3	9B	5F	75	78	0B	00	01	04	"£>£>_ux
A0h:	F5	01	00	00	04	14	00	00	00	5A	6D	78	68	5A	33	74	õZmxhZ3t
BOh:	7A	5A	47	35	70	63	32	4E	66	62	6D	56	30	58	33	4E	zZG5pc2NfbmV0X3N
COh:	52	4D	6C	67	7A	55	54	6C	34	66	51	3D	3D	0A	50	4B	RMlgzUT14fQ==.PK
DOh:	01	02	1E	03	0A	00	00	00	00	00	12	6B	5E	51	D1	86	k^Qц
EOh:	B9	05	25	00	00	00	25	00	00	00	07	00	18	00	00	00	1.%%
F0h:	00	00	01	00	00	00	A4	81	00	00	00	00	6B	65	79	2E	¤key.
00h:	74	78	74	55	54	05	00	03	94	A3	9B	5F	75	78	0B	00	txtUT″£>_ux
10h:	01	04	F5	01	00	00	04	14	00	00	00	50	4B	05	06	00	õPK
20h:	00	00	00	01	00	01	00	4D	00	00	00	66	00	00	00	00	Mf
30h:	00												L. H		10-1		All = = = 1/0 = = = 100 110
													nu	ips:	.//DI	og.	csun.net/Crazy198410

在文件的结尾发现压缩包,提取出来,并保存为zip文件。打开

0	RINGH REPLICE	F0 (X01044	2/2	ADD PADS		1000	
A: 01	1.zip	o - ZIP 压缩文	(件, 解包大	小为 37 字	Ħ		
3: 6	名称		大小月	玉缩后大小	类型		作
0:	Jan 1997 - 1997				文件夹		
	key.txt		37	37	文本文档		2
5: 0		📃 key.txt -	记事本				
0		文件(F) 编	辑(E) 格式	(0) 査看	(⊻) 帮助(	H)	
		ZmxhZ3tzZ	G5pc2Nf	bmVOX3NF	MlgzUTl	4fQ==	

是一个base64加密,解密后,就是flag: flag{sdnisc\_net\_sQ2X3Q9x}

## 2020sdnisc-过去和现在

下载附件,是一张图片,用binwalk分析:

* suggest: you'd better to input the parameters enclosed in double quotes. * made by pcat * ****					
DECIMAL	HEXADECIMAL	DESCRIPTION			
0 179 135508	0x0 0xB3 0x21154	PNG image, 600 x 379, 8-bit/color RGB, non-interlaced Zlib compressed data, best compression Zlib compressed data, default compression			

得到若干文件,逐一打开。

↓flag.pn	g.extracted	
只▼ 包含到库中▼	→ 共享 ▼ 新建文件夹	
收藏夹	名称	修改日期
📙 下载	21154	2020/11/19
■ 桌面	21154.zlib	2020/11/19
🗏 最近访问的位置	B3	2020/11/19
	B3.zlib	2020/11/19
库		

在21154中发现flag

![](_page_21_Picture_11.jpeg)

下载附件,是一个文件和一个脚本。打开脚本: 是一段代码,对图片内容进行了加密,得到附件中的文件。写脚本进行逆运算:

```
flag_dec = open("flag.png","wb")
def file_decode(flag):
   while True:
       byte_str = flag.read(1)
       if (byte_str == b''):
           exit()
       byte_str = hex_decode(byte_str)
       file_write(flag_dec, byte_str)
       # print(byte_str, end="")
def hex_decode(byte_str):
   tmp = int.from_bytes(byte_str, byteorder="big")
   if (tmp % 2 == 0):
       tmp = tmp - 1
   tmp = bytes([tmp])
   return tmp
def file_write(flag_dec, byte_str):
   flag_dec.write(byte_str)
if ___name___ == '___main___':
   with open("./flag_enc.hex", "rb") as flag:
        file_decode(flag)
flag_dec.close()
```

![](_page_23_Picture_1.jpeg)

我是一名保安 日夜小区往返	
保卫业主平安 还被骂是憨憨	
上班为了下班 工资只够两餐	
学历只有中专 整天郁郁寡欢	
从来不吃早餐 心里只有加班	
誓死大门守看 要把小偷干翻	
爱情与我无关 依然形只影单	
号称宁缺毋滥 实则哪敢高攀	
人生活了小半 只想不留遗憾	
外头灯火阑珊 给您道声晚安	

发现图片左上有条线。查看颜色:

![](_page_23_Figure_4.jpeg)

猜测秘密在绿色中 使用脚本得到密文:

```
from PIL import Image
image =Image.open('flag.png')
c=0
aa=''
for i in range(120):
    aa+=chr(image.getpixel((c,c))[-2])
    c+=1
print (aa)
```

发现其中秘密:

ZmxhZ3tjNmU0Yzk5YTYzODhjNWQyYTlhZTZlZjZhODQzY2VhNn0=

Base64解密后得到flag:

flag{c6e4c99a6388c5d2a9ae6ef6a843cea6}

## 泰湖杯-MISC

下载附件,是一个压缩包,里面是一个文件和一个压缩包。

![](_page_24_Picture_8.jpeg)

尝试各种方法无果后,将附件中的fun.zip删除。

![](_page_24_Picture_10.jpeg)

再修复压缩包,可以发现密码没有了。

📴 rebuilt.715e25aec	2a24ac79ab6e74497cafb80.zip	
文件(F) 命令(C) 工	具(S) 收藏夹(O) 选项(N) 帮助(	(H)
	向导(Z)	
法加 解压到	扫描压缩文件中的病毒(S)	Alt+D
	转换压缩文件格式(C)	Alt+Q
T 🔤 puilt.	修复压缩文件(R)	Alt+R Z
名称	压缩文件转换为自解压格式(X)	Alt+X
	查找文件(F)	F3
🖹 omisc.docx	显示信息(I)	Alt+I
	生成报告(G)	Alt+G
	基准测试(B)	Alt+B
	https://ploc.cscin.ne//Or	Survey of the second se

#### 打开后,是一段密文

U2FsdGVkX194m4B5HqBSGYPLTS4bywdKDJh13lrSj/OcwgSAoHBw9X/p2ldEtGx7 EdJFR6rcjyPA+M+aKLZvqE7h7EBFA5LyHYk/5Cns4LV02vM7Dk+T70FiWOIJ3XeA JGTBS1Zsj2l/sGC8tTnNfsLl0SQ2JeTJhP/aNU2LmPVTyc3y4kTx+ysw8vasHwen WoBXFtOe2WkorJOCrqdQ8Qqd78TzZ0jRMv6MJO2ytUy/3mebHU9LAlWKFluNEh5t /cUVvtigLS6PquYRX5zlEx52HDkW+WgfRnum/AregLJ4c4f6AvG2gBjHVKO6sGEi uh59jcyN1SvsQEvXd7cOD/KWZjE5gqVGUJqXyhauqWPVYUlcuHH6abtQwNuDb+jZ xMg5QaDzwPhpGRly7NhKU5OgCdhdK17TX722/RuNYj6pyfRYNZmQdOFI9B28+Iaw KO8I5b18WF5JV6chou7riwwDLqQrKMDjUUKZUtdMn0ReDQbR8reeqw/u+Lkyhl6w +222QWgQ2yRd2dhHb1kqNncUlnAEqTPNKRBnia8F/+FycBv+KAwCFPwx9oNTFBYN 4EJL/RjiXEkkSCnyH48VynuuOeX2uNIAti214mCbWWH+pxLn4PHIWf3JK819kiDc jqyQ5y3v+EUEr9Sb1WVwiITDW5XtzVP+Yr/J0ikl41zMu9BAQPermoa8hZJdE8m 930Set+pAM7Ptnyi7FGJ5Ynkpq05AiJMrN+UgV0E/ELc0UhWw3O0c4u+eYtQkzu/ 9+UCRy1Fi+QWFIO3cuWBA4GMGTE1FHWnqnZ683FwrM5bcb6TTu3/Q5sppFmqNrOX +ctx5b5xiYeSZ8XFl2ks6L7aFrQYu833GiERnliZEX8vFqjdnD+tcuQ6Zg9Z7oxh ATDP9H5d1e9laxwOA/fDP0qvdKJ+OS5OPljnboywCPp7QqFHZfyC7d2GlraadSOL +elwfavCqgfGwpWMW5H359IKZASi/HexzEcYrA7OZ8GzSxO9Lmk/ea4BD4JD2law EliDE7yhJApimzJ4IG8EMXFn/rOM3O2PkuSTKFsXu7/XZ3ozAJsPun5RJcMuUFXQ X++DqXqe6Kbo/hEKwHETq0VbL6qEKkQKf5ce3i6tuZG8OqqPsye0Ku5D2LREqqGG vsshULZWmvlx4u2FUtj4Xg=

Wish everybody have fun!!!!!!

3称	大小	压缩后大小	类型	修改时间	CRC32
			文件夹		
_rels			文件夹		
theme			文件夹		
document.xml	7,652	2,175	XML 文档	1980/1/1 0:00	9F1BDC
fontTable.xml	1,592	521	XML 文档	1980/1/1 0:00	EBE1B0BF
settings.xml	3,361	1,217	XML 文档	1980/1/1 0:00	3A1A8843
styles.xml	29,877	3,054	XML 文档	1980/1/1 0:00	67EE5B1B
webSettings.xml	817	324	XML 文档	1980/1/1 0:00	00118E

#### 发现多出现段文字:

![](_page_25_Figure_7.jpeg)

测试各种密码,发现希尔密码能解新发现的两句话:

字母表	abcdefghijklmnopqrstuvwxyz ".
waoootu	.epj,nv o

加密	解密	随机密钥
ove and peaceee		

## 得到一句新的字符串: love and peaceee

#### 用这句话做密码,使用rabbit解密剩余的一大段话:

![](_page_26_Figure_3.jpeg)

得到:

LR2TMNLCGBOHKNDGGVRFY5JWGZTDAXDVMZTDCYK40U4GCZRYLR2TSNTCHBOHKNJUMM4VY5JVGBSTOXDVHE3DIZC40U2TIM3ELR2TQYLGHBOHKOJW GQYFY5JWGQ3DSXDVHE3GEOC40U2TAZJXLR2TOZRTMROHKOBVME4VY5JVGRQTIXDVHAYDEOC40U4GCZRYLR2TSNTCHBOHKNRRGY3VY5JVHA2WKXDV HAZDOMS40U2WGMDBLR2TKNDDHFOHKODGMU3FY5JYMFSTMXDVG5QT0YK40U3DENBQLR2TSNRUMROHKNRSGEYVY5JVMZTDKXDVHE3GEOC40U3TSNJX LR2TQYLFGZOHKNLGMY2VY5JVGRRTSXDVHE3DIMC40U2TMYRULR2TKNDDHFOHKNJWMM4VY5JUMZSWKXDVGU4TGN240U4TMM3GLR2TMY3FGJOHKOBS G4ZFY5JYGM4GCXDVGVRGGMS40U4GCZJWLR2TKOBVMVOHKNJUHEZFY5JYGM4GCXDVG43TGZK40U3DEMJRLR2TKNDDHFOHKNRSGQYFY5JUMYYGMXDV HAYDKZK40U4DKYJZLR2TSNTCHBOHKNRRGBSFY5JZGVRWIXDVGU2DGNS40U3DENBQLR2TIZTFMVOHKNRWGJTFY5JYGI3TEXDVGY2DMOK40U4GCMZW LR2TKNTCGROHKNJUMM4VY5JZHA2TQXDVGYYTAZC40U2TIYZZLR2TKMZXGNOHKNDGMVSVY5JVGRRTSXDVG5QTOYK40U4DOMLDLR2TSNRUGBOHKNJW MM4VY5JUMYYGMXDVGVTGMNK40U2TIYZZLR2TMNBWHFOHKNJUMM4VY5JUMVQTMXDVHAZTQYK40U2TIYZZLR2TONZTMVOHKNJUME2FY5JVHE4DEXDV HE4DKOC40U2TS0BS

#### 再进行base32的解密:

## Base32编码解码

5JWGQ3DSXDYHE3GEOC40U2TAZJXLR2TOZRTMROHROBYME4YY5JVGRQTIXDVHAYDEOC40U4GCZRYLR2TSNTCHBOHRNRRGYSVY5JVHA2WKXDVHAZDOMS40U 2WGMDBLR2TKND0HE0HKODGMU3FY5JVMFSTMXDVG5QT0YK40U3DEXBQLR2TSNRUMGHXNRSGEYV75JVHZTDKXDVHE3GEOC40U3TSNJXLR2TQVLFG20HKXJ GM2VY5JVGRTSXDVHE3DIMC40U7UTWRULR2TKNDHF0HKXJWM4VY5JM2SWKXDVG4TGR2404TM82DLR2TMY3FGJGHK0BSG4ZFY5JVG4CZDVGG GM540U40C2JWLR2TK0BMV0HKXJUHE2FY5JVG44GCXDVG43TGZK40U3DEMJRLR2TKND0HF0HKNRSGYFY5JUMYG0KDVHAYDKZK40U4DKYJZLR2TSNTCH B0HKNRRG8FY5JZGVRTIXDVG2DCN540U3DENBQLR2TITFFV0H6XNRVG1FY5JVG4TGK204GC40K2L82TKNTCGR0HKXJUM4HY5J2HA2TGK DVGYTAZC40U2TIYZ2LR2TKMZKGN0HKNDGHVSV5JVGRRTSXDVG5QT0YK40U4D0MLDLR2TSNRUGB0HKNJMM4YY5JUMYG0KDVHAVDKX40U2TIYZ2LR2 TMSBRHF0HKXJUM4VY5JUMYQTMCDVHAZTQYK40U2TIYZZLR2TOXTDVHKKJUM2FY5JVHE4DEXDVHE4DK0C40U2TS0BS

编码 解码 清空

\u65b0\u4f5b\u66f0\uff1a\u8af8\u96b8\u54c9\u50e7\u964d\u543d\u8af8\u9640\u6469\u96b8\u50e7\u7f3d\u85a9\u54a4\ u8028\u8af8\u96b8\u6167\u585e\u8272\u5c0a\u54c9\u8fe6\u8ae6\u7a7a\u6240\u9644\u6211\u5ff5\u96b8\u7957\u8ae6\ u5ff5\u54c9\u9640\u56b4\u54c9\u56c9\u4fee\u5937\u963f\u6ce2\u8272\u83a\u5bc2\u8ae6\u58se\u5422\u83a\u773e\ u6211\u54c9\u6240\u4f0f\u805e\u85a9\u96b8\u610d\u95cd\u5436\u6240\u4fee\u662f\u8272\u6469\u8a36\u56b4\u54c9\ u9858\u610d\u54c9\u5373\u4fee\u54c9\u7a7a\u871c\u9640\u56c9\u4f0f\u5ff5\u54c9\u6469\u54c9\u4aa6\u83a\u54c9\u 773e\u54a4\u5982\u9858\u5982

复制

#### 再Unicode解码:

		AA Normal Anna
e 換迭项 Text to Hex Dec to Hex Text to Dec Dec to Octal Text to UTF7 Hex to UTF7 Hex to UCS2 Text to Binary Escape Encode HTML Text to Base64 Hex to Base64	Hex to Text Hex to Dec Dec to Text Octal to Dec UTF7 to Text UCS2 to Hex Binary to Text Decode HTML Base64 to Text Base64 to Hex	輸入原始值: /\u65b0\u4f5b\u66l0\uff1a\u8af8\u96b8\u54c9\u50e7\u964d\u543d /\u8af8\u964d\u648\u96b8\u50e7\u73d /\u8af8\u964a\u9028\u8af8\u96b8\u6167\u585e\u8272\u50a /\u54c9\u8fs6\u8ae6\u7a7a\u6240\u96b8\u6167\u585e\u8272\u83e5\u585e \u54c9\u8fs6\u8ae6\u7a7a\u82d1\u905e /\u54c9\u83e5\u83e5\u73a\u82d2\u905e /\u5432\u83e5\u73a\u82f3\u6ce2\u8272\u838s\u50c2\u83e5\u585e /\u5432\u83e5\u73a\u82f3\u6ce2\u82d2\u40f4e\u805e /\u82a9\u96b8\u610d\u95c4\u54c9\u805e /\u82a72\u8385\u510d\u95c8\u610d\u95c4\u54c9\u82f3\u82f4 /\u54c9\u7a7a\u871<\u82f4\U56c9\u82f4\U4f0f \u8722\u54c9\u7a7a\u871<\u82f4\U56c9\u4ea6\u838a\u54c9\u773e /\u54a4\u5982\u9858\u5982

ROTx 13 · +	** LU #+ 10 /# ).	Ŧ
SHIFIX     1     ·····       折分所有     1     字符.       折分所有     1     Delim.       保留所有     2     行        2     行        建取     1       1     字符.所有     2       一     建取     1       1     字符.所有     2       一     近数     1       Swap     1     写符.所有       1     字符.所有     2       一     近数     1       新始位置     1     循环	輸出時共值: 新佛曰: 諸隸結當即率中諸応摩隸僧缽殘咤梅諸隸慧塞色尊哉迦語 所降我念隷戒語念哉吃嚴苦噂修夷阿皮色莊寂諦塞咒莊咒我哉问 聞魔隸慰謝納所修是色摩詞嚴哉賺慰哉即修哉空蜜吃г購伏念諾廣 亦莊哉眾咤如賺如	
将输出复制到剪贴板 复制输出到输入		
全部清除		-
	输出格式: None 和 小教位填零	

再新佛曰解码:

Live beautifully, dream	assionately, love completely.	

得到一段话,用这然话解压fun.zip 得到音频文件。 再分析频谱,即可得flag

![](_page_27_Figure_4.jpeg)

可乐加冰

![](_page_28_Picture_1.jpeg)

## https://blog.csdn.net/Crazy198410

用binwalk分析:

λ binwalk -e data.png * suggest: you'd better to input the parameters enclosed in double quotes. * made by pcat				
DECIMAL	HEXADECIMAL	DESCRIPTION		
0 91 175766	0x0 0x5B 0x2AE96	PNG image, 498 x 887, 8-bit/color RGBA, non-interlaced Zlib compressed data, compressed Zlib compressed data, default compression		

#### 得到若干文件。

#### 逐一查看,在2AE96文件中发现规律字符:

				-														
起始页	5B.zlib		2AE96 ×		×													
	ð	1	2	3	4	5	6	7	8	9	A	В	С	D	E	F	0123456789ABCDEF	
0000h:	83	46	36	36	36	95	43	83	46	36	95	95	36	43	83	46	fF666•CfF6••6CfF	
0010h:	95	95	95	43	83	46	95	95	36	43	83	46	36	36	36	36	•••CfF••6CfF66666	
0020h:	43	83	46	36	36	36	95	43	83	46	36	95	95	36	43	83	CfF666•CfF6••6Cf	
0030h:	46	95	95	36	43	34	45	34	43	83	46	36	95	36	36	43	F••6C4E4CfF6•66C	
0040h:	83	46	36	95	36	95	43	83	46	36	36	95	36	43	83	46	fF6+6+CfF66+6CfF	
0050h:	36	36	95	43	34	45	34	43	83	46	36	95	95	43	83	46	66 • C4E4CfF6 • • CfF	
0060h:	36	95	36	95	43	83	46	36	36	36	36	43	83	46	36	36	6•6•CfF66666CfF66	
0070h:	36	43	34	45	34	43	83	46	36	95	95	36	43	83	46	36	6C4E4CfF6++6CfF6	
0080h:	95	95	36	43	83	46	36	36	95	43	83	46	95	36	36	43	••6CfF66•CfF•66C	
0090h:	34	45	34	43	83	46	36	36	95	36	43	83	46	36	95	36	4E4CfF66+6CfF6+6	
00A0h:	95	43	83	46	36	36	95	36	43	83	46	36	95	95	95	43	•CfF66•6CfF6•••C	
00B0h:	83	46	95	95	36	43	83	46	95	36	95	43	83	46	36	36	fF++6CfF+6+CfF66	
00C0h:	36	36	43	83	46	36	95	36	43	83	46	36	36	95	43	83	66CfF6+6CfF66+Cf	
00D0h:	46	95	36	95	43	83	46	36	95	95	43	83	46	36	36	95	F•6•CfF6••CfF66•	
00E0h:	36																6	
	https://blog.csdn.net/Crazy1984								dn.net/Crazy198410									

对其转为字符串:

s='834636363695438346369595364383469595954383469595364383463636363643834636363695438346369595364383469595364384 534438346369536364383463695369543834636369536438346363695433445344383463695954383463695369543834636954383463636363636364383463 6363643344534438346369595364383463695953643834636369543834695363643344534438346363695364383463695369543834636369 536438346369595954383469595364383469536954383463636363636438346369536438346363695438346953695438346369595438346363 69536' print (s)

## for i in range(0,len(s),2):

得到:

\$.\$\$\$\_+\$.\$\_\_\$+\$.\_\_\_+\$.\_\_\_\$+\$.\$\$\$\$+\$.\$\$\$\_\_+\$.\$\_\_\$+\$.\_\_\$+"-"+\$.\$\_\$\$+\$.\$<u>\$\_</u>\$+\$.\$\$\_\$+\$.\$\$\_\$+\$.\$\$\_\$+\$.\$\$\_\$+\$.\$\$\_\$+\$.\$\$ \$+"-"+S.\$\_\_\$+S.\$\_\_\$+S.\$\$\_+S.\$\$+"-"+S.\$\$\_\$+S.\$\_\$+S.\$<u>\$\_</u>\$+S.\$\_\_+S.\_\_\$+S.\_\$\_+S.\$\$\$\$\$+S.\$\_\$+S.\$\$\_+S.\$\$\_+S.\$

很像iicode。将"S"替换为"\$" 再加上固定的开关和结尾:

\$=~[];\$={\_\_\_:++\$,\$\$\$\$:(![]+"")[\$],\_\$:++\$,\$\_\$\_:(![]+"")[\$],\_\$\_:++\$,\$\_\$\$:({}+"")[\$],\$\$\_\$:(\$[\$]+"")[\$],\_\$\$:++\$,\$\$ .:(!""+"")[\$],\$\_\_:++\$,\$\_\$:++\$,\$\$\_\_:({}+"")[\$],\$\$\_:++\$,\$\$\$:++\$,\$\_\_:++\$,\$\_\_\$:++\$};\$.\_\$\_=(\$.\$\_=\$+"")[\$.\$\_\$]+(\$.\_\$=\$ .\$\_[\$.\_\_\$])+(\$.\$\$=(\$.\$+"")[\$.\_\_\$])+((!\$)+"")[\$.\_\$\$]+(\$.\_\_=\$.\$\_[\$.\$\$\_])+(\$.\$=(!""+"")[\$.\_\_\$])+(\$.\_\_])+(\$.\_])+(\$ ])+\$.\$\_[\$.\$\_\$]+\$.\_\_+\$.\_\$+\$.\$;\$.\$\$=\$.\$+(!""<u>+</u>"")[\$.\_\$\$]+\$.\_\_+\$.\_+\$.\$+\$.\$\$;\$.\$=(\$.\_\_\_)[\$.\$\_][\$.\$\_];\$.\$(\$.\$(\$.\$\$+"\ +这里放密文+"\"")())();

再用jicode解码:

Input the JJEncode here:

Import the Districted Here: \$=~[];\$={\_\_\_:++\$,\$\$\$\$:(|]+\*\*)[\$],\_\$:++\$,\$\_\$:(|[]+\*\*)[\$],\$\_:++\$,\$\_\$\$:(|]+\*\*) [\$],\$\$::(\$[\$)+\*\*)[\$],\_\$\$:++\$,\$\_\$\_:(!\*\*\*\*)[\$],\$\_\_:++\$,\$\_\$:++\$,\$\$\_:([]+\*\*\*) [\$],\$\$::++\$,\$\$\$:++\$,\$\_\_\_:++\$,\$\_\_\$:(\$,\$\_=\$+\*\*)[\$,\$\_\$]+(\$.\_\$=\$,\$\_[\$,\_\_\$])+ (\$,\$\$=(\$,\$\*\*\*)[\$.\_\$])+((!\$)+\*\*)[\$.\_\$\$]+(\$.\_=\$,\$\_[\$,\$\$])+(\$.=(!\*\*\*\*) [\$,\$\$]+\$,\_\_\$])+\$,\$\_[\$,\$\$]+\$,\_\_+\$,\$\$\$;\$\$=\$,\$+(!\*\*\*\*\*) [\$,\$\$]+\$,\_\_+\$,\$\_\$]+\$,\$\$\$;\$\$:\$=(\$,\_\_)[\$,\$] [\$,\$\$]:\$,\$(\$,\$(\$,\$\$+\*\*)\*\*,\$\$\$;\$,\$=(\$,\_\_)[\$,\$] [\$,\$\$]:\$,\$(\$,\$(\$,\$\$+\*,\$\$\$;\$\*,\$\$;+\*,\$\$\_\$+\$,\$]\$+\$,\$\$\$\$\$\$+\$,\$\$\$\$ \*\*\$,\$\$\$\$+\$,\$\$\_\$+\$,\$\$\$\$+\$,\$\$\$ \*\*\$,\$\$\$\$+\$,\$\$\$ \*\*\$,\$\$\$\$+\$,\$\$\$ \*\*\$,\$\$\$\$+\$,\$\$\$ \*\*\$,\$\$\$\$+\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$\$+\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$\$+\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$\$\$ \*\*\$,\$ \*\*\$,\$\$ \*\*\$,\$ \*\*\*`,\$ "+\$. \$\_\$+\$. \$\_\_\$+\$. \$\$\_+\$. \$\$\_\$\*"-"+\$. \$\$\_\$+\$. \$\_\$+\$. \$\$\_\$\*. \$\_\_+\$. \_\_\$+\$. \_\_\$+\$. \$\$\$\$\$+\$. \$\_\$+\$. \$\$\_+\$. \$\$\_+\$. \$\_\_+\$. \$\$\_\$\*"\"") (0)0:Decoded JJEncode String: e901fe91-bad6-4af7-9963-dad812f5624d Validate

36 character(c)

## pcap

下载附件,是一个流量包。用wireshark打开:

并追踪tcp流:

可以看到其中一个流如下图:

tructure and the set of the second of all connectiges broking	
.dtdPdJ<	.d <d9< td=""></d9<>
Dd	
D?E.dZ<\s.d	
DdZ <d< td=""><td></td></d<>	
DdZ <d< td=""><td></td></d<>	
DK<.dZ <d< td=""><td></td></d<>	
DdZ <sm.d< td=""><td></td></sm.d<>	
Dk.dZ <l.d< td=""><td></td></l.d<>	
Dk.dZ <d< td=""><td></td></d<>	
DdZ <kd< td=""><td></td></kd<>	
DYdZ <d< td=""><td></td></d<>	
DdZ <d.< td=""><td></td></d.<>	
Dj.dZ <d.d< td=""><td>d9</td></d.d<>	d9
sdZ <d< td=""><td></td></d<>	
DjdZ <a8.d< td=""><td></td></a8.d<>	
DKa.dZ <d< td=""><td></td></d<>	
Da.dZ <d.< td=""><td></td></d.<>	
DdZ <d< td=""><td></td></d<>	
DdZ <d< td=""><td></td></d<>	
DWdZ <s?.d.d< td=""><td>(</td></s?.d.d<>	(
vud9	
".dZ <jd< td=""><td></td></jd<>	
DdJ<	
DZ<	
DndZ<	
Dd	
D	
U1d.d	
DJdZd	
Ub.d	
,.a	
Dd	
D We d 7	
D bld 7	
D	
D d 7 d f f d	
	( a we d a
' d 7 / / v d	
D ed 7 / / /	
D cd 7 / / / % d	
D d 7 / / / d	······································
D #d 7 / / / d	
7월 114, 413 卷/"兩 次雄, 365 <u>秋田</u> 母 次雄, 736 turn(s). 兵告遺務,	http <del>s://bloc.es</del> dn.net/Crazv198410
整个对语(17k8) ▼	Show data as ASCII V

可以看到flag。对流量观察规律:

Destination	Protocol	Length	Info
192.168.74.1	DNP 3.0	78	Read, Class 123
192.168.74.132	DNP 3.0	71	Response
192.168.74.1	ТСР	54	52363 → 20000 [ACK] Seq=50
192.168.74.1	DNP 3.0	78	Read, Class 123
192.168.74.132	DNP 3.	91	. Response
192.168.74.1	DNP 3.0	69	Confirm
192.168.74.132	ТСР	54	20000 → 52363 [ACK] Seq=464
192.168.74.1	DNP 3.0	78	Read, Class 123
192.168.74.132	DNP 3.0	71	Response

发现含有flag信息的流长度都是91。按长度排序: 逐流进行拼接:

15 00	··)··1·P V····E·	
:0 a8	·M··@··· ···J···	
60 18	J·N ···c V·j3R·P·	
)8 e3	·····d ·D·	
00 00	·····( ····f··	
	···6··vu	

https://blog.csdn.net/Crazy198410

![](_page_31_Picture_0.jpeg)

可以得到flag: flag{d989e2b92ea671f5d30efb8956eab1427625c}

## pcap\_analysis

下载附件,为一个流量包。 用wireshark打开。并追踪tcp流 在其中一个流中发现如下图:

![](_page_31_Figure_4.jpeg)

拼接得到flag: flag{323f986d429a689d3b96ad12dc5cbc701db0af55}

## 网鼎杯 2020 boom

下载附件,为一个exe文件,打开。 先是给了一段Md5码,在线进行爆破:

![](_page_32_Picture_2.jpeg)

得到通关密码: en5oy 第二关是是一个三元一次方程

This time:Here 3x-y+z=185	are	have	some	formulas
2x+3y-z=321 x+y+z=173 input: x =				

进行爆破:

![](_page_32_Picture_6.jpeg)

for x in range(1000000000): if(x\*x+x==7943722218936282): print (x) break

得到解: 89127561 最后得到flag: flag{en5oy\_746831\_89127561}