## ctfshow-Misc入门

# 原创

 H3rmesk1t
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Misc 专栏收录该内容

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## 写在前面

后续提取图片中的flag均为脚本提取,部分flag提取出错需要人工再次核验哈~,flag提取演示

## 图片篇(基础操作)

misc1

flag在下载的图片上

## ctfshow{22f1fb91fc4169f1c9411ce632a0ed8d}

https://blog.csdn.net/LYJ20010728



### misc2

将后缀名改为.png即可在图片上看到flag

#### λ Cmder C:\Users\95235 λ python Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32 Warning: This Python interpreter is in a conda environment, but the environment has not been activated. Libraries may fail to load. To activate this environment please see https://conda.io/activation Type "help", "copyright", "credits" or "license" for more information. >>> import pytesseract >>> from PIL import Image >>> img = Image.open(r'C:\Users\95235\Downloads\misc2\misc2.png') >>> text = pytesseract.image\_to\_string(img) >>> print(text) ctfshow{6f66202f21ad22a2a19520cdd3f69e7b} Q https://blog.csdn.net/LYJ20010728 >>> quit()

推荐一款图片浏览器 Honeyview,直接可以查看bpg格式的图片						
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O EXIF	🦲 浏览 ▼	幻灯片放映 ▼	书签 ▼	编辑 ▼	复制到 ▼	锁定 📀
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			https://	blog.csd	n.net/LYJ	20010728

## misc4

用 HxD 依次查看文件头,将后缀名依次改为 .png、.jpg、.bmp、.gif、.tif、.webp,将内容拼接起来即可得到flag

名称 ^	修改日期	类型	大小
🖹 1.png	2021/2/4 17:25	PNG 文件	6 KB
2.jpg	2021/2/4 17:25	JPG 文件	19 KB
🛋 3.bmp	2021/2/4 17:26	BMP 文件	396 KB
🛋 4.gif	2021/2/4 17:27	GIF 文件	2 KB
5.tif	2021/2/4 17:28	TIF 文件	418 KB
5.webp	2021/3/25 0:49	Image (webp) File	1 KB



## 图片篇(信息附加)

misc5

用 HxD 打开,拖到尾部即可发现flag

#### 🔛 misc5.png

应文本	OF	0E	0D	0C	0B	0A	09	08	07	06	05	04	03	02	01	00	Offset(h)
@X×]2=.y¾=.¬¬Ò	D2	AC	AC	9D	3D	BE	79	7F	ЗD	32	5D	D7	58	40	39	55	00000D30
¦ë."Đ.éŒ;¹YüÒBó	F3	42	D2	FC	59	<b>B</b> 9	<b>A</b> 1	8C	E9	19	DO	84	09	EB	40	9D	00000D40
G0.₽C: \H£Đ•.头Ó	D3	BD	06	95	DO	A3	48	91	ЗA	43	DE	04	30	47	AO	E9	00000D50
ÓÁoÁüXÝ′,∖ÿ′ïÇá	El	C7	EF	92	FF	5C	2C	Β4	DD	58	FC	C1	6F	C1	D5	D2	00000D60
<b>;¥k!</b> tJ6½{Ͱb	62	BA	CD	7B	BD	36	4A	74	21	02	16	20	6B	<b>A</b> 5	67	AE	00000D70
iõRØüäzÝ©©å.¿R.	18	52	BF	15	E5	Α9	Α9	DD	7A	E4	FC	D8	52	F5	FB	00	00000D80
"©E{á©⊣^™E;«″.	9D	94	AB	<b>A</b> 1	45	99	88	AC	A9	E1	7B	45	<b>A</b> 9	84	03	4C	00000D90
š+″.hJi.€¶p	00	10	85	70	B6	80	02	69	4A	68	1A	94	2B	9A	00	00	00000DA0
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.`"%D	44	00	00	02	10	25	22	00	00	01	08	12	91	00	00	00	00000DE0
^"@)	00	10	81	29	10	00	00	08	40	94	88	00	00	04	20	4A	00000DF0
R.!@¤.B€H.	09	48	80	00	00	42	04	Α4	40	00	00	21	02	52	20	00	00000E00
`"%	00	00	02	10	25	22	00	00	01	08	12	91	00	00	00	84	00000E10
7^″@)	10	81	29	10	00	00	08	40	94	88	00	00	04	20	4A	44	00000E20
R.!@¤.B€H	48	80	00	00	42	04	Α4	40	00	00	21	02	52	20	00	00	00000E30
	00	02	10	25	22	00	00	01	08	12	91	00	00	00	84	09	00000E40
)J^″@).	81	29	10	00	00	08	40	94	88	00	00	04	20	4A	44	00	00000E50
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DJ^"@)	29	10	00	00	08	40	94	88	00	00	04	20	4A	44	00	00	00000E80
R.!@¤.B	00	00	42	04	Α4	40	00	00	21	02	52	20	00	00	10	81	00000E90
l."`"%.	10	25	22	00	00	01	08	12	91	00	00	00	84	09	48	80	00000EA0
.DJ^"@	10	00	00	08	40	94	88	00	00	04	20	4A	44	00	00	02	00000EB0
R.!@¤.B.	00	42	04	Α4	40	00	00	21	02	52	20	00	00	10	81	29	00000EC0
H."`"%	25	22	00	00	01	08	12	91	00	00	00	84	09	48	80	00	00000ED0
DJ^″@	00	00	08	40	94	88	00	00	04	20	4A	44	00	00	02	10	00000EE0
R.!@¤.B	42	04	Α4	40	00	00	21	02	52	20	00	00	10	81	29	10	00000EF0
€H."'"	22	00	00	01	08	12	91	00	00	00	84	09	48	80	00	00	00000F00
DJ^R.ÿ.	07	FF	08	52	88	00	00	04	20	4A	44	00	00	02	10	25	00000F10
• • me IEND	44	4E	45	49	00	00	00	00	04	97	89	99	BA	20	3E	33	00000F20
8`, <mark>ctfshow{2a47</mark>	37	34	61	32	7B	77	6F	68	73	66	74	63	82	60	42	AE	00000F30
04011805f1a8e4b	62	34	65	38	61	31	66	35	30	38	31	31	30	34	62	36	00000F40
6c8f84083e}				7D	65	33	38	30	34	38	66	38	63	36	30	39	00000F50

#### misc6

用 HxD 打开, 搜索关键词 ctfshow 即可发现flag

Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 对应文本 00000560 FE 72 32 49 29 0E 46 26 2E 4D 07 1F 26 9A EE A0 br2I).F&.M..&šî 00000570 C4 D5 63 43 99 ED 32 DF 63 C1 6F B5 12 BA EB AA ÄÕcC™í2ßcÁoµ.°ëª ¶ÕSC+`.c..kZ.5.h 00000580 B6 D5 53 43 2B 60 0D 63 1A 00 6B 5A 04 35 AD 68 00000590 FA 2D 6A 92 49 29 03 30 70 AB CA 7E 65 78 F5 33 ú-j'I).0p«Ê~exõ3 2A D1 B6 CC 86 B1 A2 C7 OF 6F B5 F6 81 BD DF 41 \*Ѷ̆±¢Ç.oµö.¾ßA 000005A0 000005B0 9F E6 29 DF 45 59 15 3A 9B 9B BA B7 44 89 23 83 Ÿæ)ßEY.:>>° D‰#f ,{>.DI%5¨é¾;.β[. 000005C0 B8 7B 9B 0E 44 49 25 35 A8 E9 BD 3B 1A DF 5B 1F 000005D0 16 9A 6D D8 2A F5 2B AD AD 77 A6 D0 D6 B2 AD EC .šmØ\*õ+..w¦ĐÖ°.ì hw¤Æ×\_èÿ.àÕ″'IL] 搜索 000005E0 68 77 A4 C6 D7 5F E8 FF 00 E0 D5 94 92 49 4C 5D 5D 6E 73 5E E6 87 39 84 96 38 89 2D 24 6D 3B 7F 000005F0 lns^æ=9,,-8%-\$m; 77 DA 54 92 49 25 29 24 92 49 4A 49 24 92 53 FF wÚT'I%)\$'IJI\$'Sÿ 00000600 00000610 D9 FF ED OD F2 50 68 6F 74 6F 73 68 6F 70 20 33 Ùÿí.òPhotoshop 3 00000620 2E 30 00 38 42 49 4D 04 25 00 00 00 00 00 10 00 .0.8BIM.%..... 00000630 42 49 4D 04 3A 00 00 00 00 D7 00 00 00 10 00 00000640 BIM.:....×.... 00 00 01 00 00 00 00 00 0B 70 72 69 6E 74 4F 75 .....printOu 00000650 74 70 75 74 00 00 00 05 00 00 00 00 50 73 74 53 00000660 tput....PstS 00000670 62 6F 6F 6C 01 00 00 00 00 49 6E 74 65 65 6E 75 bool....Inteenu 00000680 6D 00 00 00 00 49 6E 74 65 00 00 00 49 6D 67 m....Inte....Img 20 00 00 00 0F 63 74 66 73 68 6F 77 7B 64 35 65 00000690 ....dtfshow{d5e 39 33 37 61 65 66 62 30 39 31 64 33 38 65 37 30 937aefb091d38e70 000006A0 000006B0 d927b80e1e2ea}.. 64 39 32 37 62 38 30 65 31 65 32 65 61 7D 00 01 000006C0 00 00 00 00 00 0F 70 72 69 6E 74 50 72 6F 6F 66 .....printProof 53 65 74 75 70 4F 62 6A 63 00 00 05 68 21 68 000006D0 SetupObjc....h!h 000006E0 37 8B BE 7F 6E 00 00 00 00 00 0A 70 72 6F 6F 66 7∢¾.n....proof 000006F0 53 65 74 75 70 00 00 00 01 00 00 00 42 6C 74 Setup.....Blt nenum....builtin 00000700 6E 65 6E 75 6D 00 00 00 0C 62 75 69 6C 74 69 6E 00000710 50 72 6F 6F 66 00 00 00 09 70 72 6F 6F 66 43 4D Proof....proofCM 00000720 59 4B 00 38 42 49 4D 04 3B 00 00 00 00 02 2D 00 YK.8BIM.;....-. 00000730 00 00 10 00 00 00 01 00 00 00 00 00 12 70 72 69 .....pri ntOutputOptions. 00000740 6E 74 4F 75 74 70 75 74 4F 70 74 69 6F 6E 73 00 00000750 00 00 17 00 00 00 00 43 70 74 6E 62 6F 6F 6C 00 .....Cptnbool. 00000760 00 00 00 00 43 6C 62 72 62 6F 6F 6C 00 00 00 00 ....Clbrbool.... 00000770 00 52 67 73 4D 62 6F 6F 6C 00 00 00 00 43 72 .RgsMbool....Cr nCbool....CntCb 00000780 6E 43 62 6F 6F 6C 00 00 00 00 43 6E 74 43 62 00000790 6F 6F 6C 00 00 00 00 4C 62 6C 73 62 6F 6F 6C ool....Lblsbool 000007A0 00 00 00 00 00 4E 67 74 76 62 6F 6F 6C 00 00 00 .....Ngtvbool... 000007B0 00 00 45 6D 6C 44 62 6F 6F 6C 00 00 00 00 49 ..EmlDbool....I

#### 文本 字节序列 整数 浮点数 ctfsho 搜索(S): $\sim$ 选项 搜索方向 文字编码(T): ○从头(A) 编辑器所用编码 • 向下(E) ○向上(B) □区分大小写(C) 确定 全部列出(A) 取消

用 HxD 打开,搜索关键词 ctfshow 即可发现flag

Offset(h)	00	01	02	03	04	05	06	07	08	09	A0	0B	0C	0D	0E	OF	对应文本
00007D20	55	D8	AB	B1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	UØ≪±Wb®Å]Š».v*ìU
00007D30	D8	AB	<b>B1</b>	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	Ø≪±Wb®Å]Š».v*ìUØ
00007D40	AB	B1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	≪±Wb®Å]Š».v*ìUØ«
00007D50	B1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	±Wb©Å]Š».v*ìUØ«±
00007D60	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	<b>B1</b>	57	Wb⊗Å]Š».v*ìUØ«±W
00007D70	62	AE	C5	5D	8A	BF	FF	Dl	FB	F9	8A	BB	15	76	2A	EC	b®Å]Š¿ÿÑûùŠ».v*ì
00007D80	55	D8	AB	B1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	UØ«±Wb©Å]Š».v*ìU
00007D90	D8	AB	B1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	Ø«±Wb©Å]Š».v*ìUØ
00007DA0	AB	Β1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	≪±Wb©Å]Š».v*ìUØ«
00007DB0	B1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	±Wb©Å]Š».v*ìUØ«±
00007DC0	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	Wb@Å]Š».v*ìUØ«±W
00007DD0	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	b@A]Š».v*ìUØ«±Wb
00007DE0	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	®Å]Š».v*ìUØ≪±Wb®
00007DF0	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	Å]Š».v*ìUØ«±Wb®Å
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00007E10	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	Š».v*ìUØ«±Wb®Å]Š
00007E20	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	BB	».v*ìUØ≪±Wb®Å]Š»
00007E30	15	76	2A	EC	55	D8	AB	Β1	57	62	AE	C5	5D	8A	BB	15	.v*ìUØ≪±Wb®Å]Š».
00007E40	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	BF	63	74	v*ìUØ«±Wb®Å]Š¿ct
00007E50	66	73	68	6F	77	7B	63	35	65	37	37	63	39	63	32	38	fshow{c5e77c9c28
00007E60	39	32	37	35	65	33	66	33	30	37	33	36	32	65	31	65	9275e3f307362ele
00007E70	64	38	36	62	62	37	7D	76	2A	EC	55	D8	AB	Β1	57	62	d86bb7}v*iUØ«±Wb
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00007E90	D8	AB	Β1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	Ø«±Wb®A]S».v*iUØ
00007EA0	AB	Β1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	«±Wb©A]S».v*ìUØ«
00007EB0	B1	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	±Wb@A]S».v*iUØ«±
00007EC0	57	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	Β1	57	Wb@A]S».v*iUØ«±W
00007ED0	62	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	b@A]S».v*iUØ«±Wb
00007EE0	AE	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	@A]S».v*iUØ«±Wb®
00007EF0	C5	5D	8A	BB	15	76	2A	EC	55	D8	AB	Bl	57	62	AE	C5	A]S».v*iUØ«±Wb®A
00007F00	5D	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	]S».v*iUØ«±Wb®A]
00007F10	8A	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	S».v*iUØ«±Wb®A]S
00007F20	BB	15	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	BB	».v*iUØ«±Wb®A]S»
00007F30	15	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	BB	15	.v*iUØ«±Wb®A]S».
00007F40	76	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	BB	15	76	v*iUØ≪±Wb®A]S».v
00007F50	2A	EC	55	D8	AB	B1	57	62	AE	C5	5D	8A	BF	FF	D6	FB	*1UØ«±Wb®A]S¿ÿOû
00007F60	F9	8A	BB	15	76	2Å	EC	55	D8	AB	B1	57	62	AÉ	C5	5D	u5».v*iUØ«±Wb®A]
00007F70	8A	BB	15	76	2A	EC	55	D8	AB	Β1	57	62	AE	C5	5D	8A	5».v*iUØ«±Wb®A]S



https://blog.csdn.net/LYJ20010728

### misc8

binwalk 查看图片发现隐藏图片,利用 foremost 提取出来

( <b>kali⊛kal</b> ∟ <mark>\$</mark> binwalk <u>m</u>	i)-[ <b>~/Desktop</b> ] isc8.png							
DECIMAL	HEXADECIMAL	DESCRIPTION						
0 91 3892 3954	0×0 0×5B 0×F34 0×F72	PNG image, 900 x 150, 8-bit/color R Zlib compressed data, compressed PNG image, 900 x 150, 8-bit/color R Zlib compressed data, default compr	GBA, non-interlaced GBB, non-interlaced ression					
( <b>kali® kal</b> \$ foremost Processing: m  *	i)-[~ <b>/Desktop</b> ] <u>misc8.png</u> isc8.png							
(kali⊛kal _\$	i)-[~/Desktop]			https://blog.csdn.net/LYJ200	10728			
λ Cmder				- 0	×			
C:\Users\952 λ pytho Python 3.8.8	C:\Users\95235 λ pytho Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32							
Warning: This Python not been act please see h	Warning: This Python interpreter is in a conda environment, but the environment has not been activated. Libraries may fail to load. To activate this environment please see https://conda.io/activation							
Type "help", "copyright", "credits" or "license" for more information. >>> import pytesseract >>> from PIL import Image >>> img = Image.open(r'C:\Users\95235\Downloads\misc8\00000007.png') >>> text = pytesseract.image_to_string(img)								
ctfshow{1df0	a9a3f709a260580:	3664b55783687}						
>>> quit()				https://blog.csdn.net/LYJ200	10728			

用 zsteg 查看图片,发现flag

<pre>(kali@kali)-[~/Desktop] \$ zsteg misc9.png meta XML:com.adobe.xmp text: "<?xpacket begin=\"\" id=\"W5M0MpCehiHzre5zNTczkc9d\"?> <x:xmpmeta pre="" x;<="" xmlns:x='\"adobe:ns:meta/\"'></x:xmpmeta></pre>
00000000: 3c 3f 78 70 61 63 6b 65  74 20 62 65 67 69 6e 3d   xpacket beginㅋ</th
00000010: 22 feff 22 20 69 64 3d 22 57 35 4d 30 4d 70 43 65  "." id="W5M0MpCe
00000020: 68 69 48 7a 72 65 53 7a  4e 54 63 7a 6b 63 39 64   hiHzreSzNTczkc9d
00000030: 22 3f 3e 20 3c 78 3a 78 6d 70 6d 65 74 61 20 78  "?> <x:xmpmeta th="" x<=""></x:xmpmeta>
00000040: 6d 6c 6e 73 3a 78 3d 22  61 64 6f 62 65 3a 6e 73  mlns:x="adobe:ns
00000050: 3a 6d 65 74 61 2f 22 20  78 3a 78 6d 70 74 6b 3d  :meta/" x:xmptk=
0000060: 22 41 64 6f 62 65 20 58  4d 50 20 43 6f 72 65 20  "Adobe XMP Core
00000070: 35 2e 36 2d 63 31 34 35  20 37 39 2e 31 36 33 34   5.6-c145 79.1634
00000080: 39 39 2c 20 32 30 31 38 2f 30 38 2f 31 33 2d 31  99, 2018/08/13-1
00000090: 36 3a 34 30 3a 32 32 20 20 20 20 20 20 20 20 22  6:40:22 "
000000a0: 3e 20 3c 72 64 66 3a 52  44 46 20 78 6d 6c 6e 73  Þ <rdf:rdf th="" xmlns<=""></rdf:rdf>
000000b0: 3a 72 64 66 3d 22 68 74  74 70 3a 2f 2f 77 77 77  :rdf="http://www
000000c0: 2e 77 33 2e 6f 72 67 2f  31 39 39 39 2f 30 32 2f   .w3.org/1999/02/
000000d0: 32 32 2d 72 64 66 2d 73  79 6e 74 61 78 2d 6e 73   22-rdf-syntax-ns
000000e0: 23 22 3e 20 3c 72 64 66  3a 44 65 73 63 72 69 70   #"> <rdf:descrip < th=""></rdf:descrip <>
000000f0: 74 69 6f 6e 20 72 64 66  3a 61 62 6f 75 74 3d 22  tion rdf:about="
meta Warning text: "ctfshow{5c5e819508a3ab1fd823f11e83e93c75}"
<pre>(kali@ kali)-[~/Desktop] https://blog.csdn.net/LYJ20010728</pre>

zsteg安装方法 (补充)

更换RubyGems的源 gem sources --remove https://rubygems.org/ gem sources --add https://gems.ruby-china.com/ gem sources -1 安装zsteg git clone https://hub.fastgit.org/zed-0xff/zsteg.git cd zsteg gem install zsteg

zsteg的使用方法 (常见)

af 新助
zsteg -h

af LSB信息
zsteg pcat.png

检測zlib
# -b的位数是从1开始的
zsteg zlib.bmp -b 1 -o xy -v

显示细节
zsteg pcat.png -v

尝试所有已知的组合
zsteg pcat.png -a
导出内容
zsteg -E "bl,bgr,lsb,xy" pcat.png > p.exe
更多的使用方法可以查看README.md

### misc10

用 binwalk 查看图片,分离图片,查看数据块即可发现flag,需要注意的是zlib是PNG IDAT的可选压缩格式

( <b>kali⊛kal</b> ∟ <mark>\$</mark> binwalk <u>m</u>	( <b>kali@kali</b> )-[ <b>~/Desktop</b> ] -\$ binwalk <u>misc10.png</u>									
DECIMAL	HEXADECIMAL	DESCRIPTION								
0 1382 4325	0×0 0×566 0×10E5	PNG image, 900 x 150, 8-bit/color RGB, non-interlaced Zlib compressed data, default compression Zlib compressed data, default compression								
( <b>kali⊛kal</b> ∟ <b>\$</b> binwalk -	<mark>(kali⊛kali</mark> )-[ <b>~/Desktop</b> ] \$ binwalk -e <u>misc10.png</u>									
DECIMAL	HEXADECIMAL	DESCRIPTION								
0 1382 4325	0×0 0×566 0×10E5	PNG image, 900 x 150, 8-bit/color RGB, non-interlaced Zlib compressed data, default compression Zlib compressed data, default compression								
(kali® kal \$ ls ctf dirsearc (kali® kal	i)-[~/Desktop] h misc10.png _ i)-[~/Desktop]	misc10.png.extracted starting_point_H3rmesk1t.ovpn volatility vulhub								
└ <b>_\$</b> cd <u>_misc1</u>	0.png.extracted									
<pre>(kali⊛ kal \$ ls 10E5 10E5.zl</pre>	[									
<pre>(kali@kal \$ cat <u>10E5</u> ctfshow{35325</pre>	(kali@ kali)-[~/Desktop/_misc10.png.extracted] \$ cat <u>10E5</u> :tfshow{353252424ac69cb64f643768851ac790}									
(kali⊛kal └\$	i)-[~/Desktop/_m	isc10.png.extracted]	https://blog.csdn.net/LYJ20010728							

binwalk 查看发现两个IDAT数据块,尝试删去第一个数据块,查看图片发现flag

[ <b>kali⊛ kali</b> [ <b>\$</b> binwalk <u>m</u>	)-[ <b>~/Desktop</b> ] isc11.png	
DECIMAL	HEXADECIMAL	DESCRIPTION
0 41 2984	0×0 0×29 0×BA8	PNG image, 900 x 150, 8-bit/color RGB, non-interlaced Zlib compressed data, default compression Zlib compressed data, default compression

🔍 misc1	1.png (C	:\Users\95	235\Dow	vnloads\misc1	1\) - TweakPNG		×
File Edit	Insert	Options	Tools	Help			
Chunk	Length	CRC	Attribut	tes	Contents		
IHDR	13	09dad	critical		PNG image header: 900×150, 8 bits/sample, truecolor, noninterlace	d	
IDAT	Edit Ch	unk	ical		PNG image data		
IDAT	Delete		ical		PNG image data		
IENC	Move l	Jp	ical		end-of-image marker		
	Move [	Down					
	Cut						
	Сору						
	Paste						
_							
٢							
NG file si	ze: 1054	1 bytes					

X Cmder	- 🗆 X
C:\Users\95235	:: Anaconda, Inc. on win32
Warning: This Python interpreter is in a conda environment, but the environment ha not been activated. Libraries may fail to load. To activate this enviro please see https://conda.io/activation	の「TOC」(文主与日永不越) s # 一级目录 nment ## 二级目录
Type "help", "copyright", "credits" or "license" for more information.	
<pre>&gt;&gt;&gt; Import pytesseract &gt;&gt;&gt; from PIL import Image &gt;&gt;&gt; img = Image.open(r'C:\Users\95235\Downloads\misc11\misc11.png') &gt;&gt;&gt; text = pytesseract.image_to_string(img) &gt;&gt;&gt; print(text) ctfshow{44620176948fa759d3eeafeac99f11ce9}</pre>	### 三級目录
<pre> Q &gt;&gt;&gt; quit() </pre>	https://blog.csdn.net/LYJ20010728

zsteg查看图片提示数据块异常



🔍 mis	c12.png (C	\Users\95	235\Downloads\misc1	2\) - TweakPNG —		×
File Ed	dit Insert	Options	Tools Help			
Chunk	Length	CRC	Attributes	Contents		^
IHDR	13	09dad	critical	PNG image header: 900×150, 8 bits/sample, truecolor, noninterlaced		
IDAT	494	dafe0	critical	PNG image data		
IDAT	435	4acc2	critical	PNG image data		
IDAT	350	b8efa	critical	PNG image data		
IDAT	342	7222b	critical	PNG image data		
IDAT	351	5730d	critical	PNG image data		
IDAT	473	fb638ff8	critical	PNG image data		
IDAT	488	4a65b	critical	PNG image data		
IDAT	175	c370c	critical	PNG image data		
IDAT	263	4159a	critical	PNG image data		
IDAT	317	dfda2	critical	PNG image data		
IDAT	243	c1fe2a	critical	PNG image data		
IDAT	395	6d8ee	critical	PNG image data		
IDAT	464	80405	critical	PNG image data		~
<						>
PNG file	size: 1120	5 bytes		https://blog.csdn.net/EY	J2001	J728

#### \lambda Cmder

C:\Users\95235

```
A python
Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32
Warning:
This Python interpreter is in a conda environment, but the environment has
not been activated. Libraries may fail to load. To activate this environment
please see https://conda.io/activation
Type "help", "copyright", "credits" or "license" for more information.
>>> import pytesseract
>>> from PIL import Image
>>> img = Image.open(r'C:\Users\95235\Downloads\misc12\misc12.png')
>>> text = pytesseract.image_to_string(img)
>>> print(text)
ctfshow{10ea26425dd4708f7da/7al3c8e256a73}
```

### misc13

HxD 查看发现图片尾部存在可疑数据,观察发现 { 前面那一串字符从第一位开始每隔一位选取一个字符,连起来就是ctfshow,编写脚本提取flag

```
s="631A74B96685738668AA6F4B77B07B216114655336A5655433346578612534DD38EF66AB35103195381F628237BA6545347C3254647E3
73A64E465F136FA66F5341E3107321D665438F1333239E9616C7D"
flag=""
for i in range(0,len(s),4):
    flag += s[i]
    flag += s[i+1]
print(flag)
```

### misc14

binwalk 查看图片,发现JPEG图片,	foremost 和 binwalk 无法成功提取,用 HxD 打开搜索文件头	手动提取
Offset(h) 00 01 02 03 04 05 06 07	OS O9 OA OB OC OD OE OF 对应文本	
000007E0 00 00 01 00 06 00 00 01	1A 00 05 00 00 00 01 00	
000007F0 00 01 96 01 1B 00 05 00 00000800 28 00 03 00 00 00 01 00	00 00 01 00 00 01 9E 01ž. 02 00 00 02 01 00 04 00 (	
00000810 00 00 01 00 00 01 A6 02	02 00 04 00 00 00 01 00	
00000820 00 04 D5 00 00 00 00 00	00 00 48 00 00 00 01 00ÕH	
	78 00 00 FF DB 00 43 00	
00000850 02 01 01 02 01 01 02 02	02 02 02 02 02 02 03 05	
00000860 03 03 03 03 03 06 04 04	03 05 07 06 07 07 07 06	
00000870 07 07 08 09 08 09 08 08 00000880 0B 0C 0C 0C 0C 07 09 0E	0A 08 07 07 0A 0D 0A 0A 0F 0D 0C 0E 0B 0C 0C 0C	
00000890 FF DB 00 43 01 02 02 02	03 03 03 06 03 03 06 0C ÿÛ.C	
000008A0 08 07 08 0C 0C 0C 0C 0C	0C 0C 0C 0C 0C 0C 0C	
000008D0 0C 0C 0C 0C 0C FF C0 00	11 08 00 18 01 9C 03 01ÿÀœ	
000008E0 22 00 02 11 01 03 11 01	FF C4 00 1F 00 00 01 05 "ÿÄ	
000008F0 01 01 01 01 01 01 00 00 00000900 03 04 05 06 07 08 09 0A	00 00 00 00 00 00 01 02	
00000910 01 03 03 02 04 03 05 05	04 04 00 00 01 7D 01 02}	
00000920 03 00 04 11 05 12 21 31	41 06 13 51 61 07 22 71!lAQa."q	
00000930 14 32 81 91 AI 08 23 42 00000940 62 72 82 09 0A 16 17 18	BI CI 15 52 DI FO 24 33 .2.';.#B±A.RN8\$3 19 1A 25 26 27 28 29 2A br\$&'()*	
00000950 34 35 36 37 38 39 3A 43	44 45 46 47 48 49 4A 53 456789:CDEFGHIJS	
00000960 54 55 56 57 58 59 5A 63	64 65 66 67 68 69 6A 73 TUVWXYZcdefghijs	
00000970 74 75 76 77 78 79 7A 83 00000980 93 94 95 96 97 98 99 9A	84 85 86 87 88 89 84 92 tuvwxyzf,t∓ ≋5' A2 A3 A4 A5 A6 A7 A8 A9 """™š¢£¤¥!§"©	
00000990 AA B2 B3 B4 B5 B6 B7 B8	B9 BA C2 C3 C4 C5 C6 C7 ** 'µ¶ , *°ÂĂĂĂÆÇ	
000009A0 C8 C9 CA D2 D3 D4 D5 D6	D7 D8 D9 DA E1 E2 E3 E4 ÈÉÊÒÓÔÕÖרÙÚáâãă	
000009B0 E5 E6 E7 E6 E9 EA F1 F2 000009C0 FF C4 00 1F 01 00 03 01	01 01 01 01 01 01 01 01 01 ÿÄ	
000009D0 00 00 00 00 00 00 01 02	03 04 05 06 07 08 09 0A	
000009E0 0B FF C4 00 B5 11 00 02	01 02 04 04 03 04 07 05 .ÿÄ.µ	
00000A00 12 41 51 07 61 71 13 22	32 81 08 14 42 91 A1 B1 .AQ.aq."2B`;±	
00000A10 C1 09 23 33 52 F0 15 62	72 D1 0A 16 24 34 E1 25 Á.#3Rð.brÑ\$4á%	
00000A20 F1 17 18 19 1A 26 27 28 00000A30 43 44 45 46 47 48 49 4A	29 2A 35 36 37 38 39 3A ñ&'()*56789:	
00000A30 13 11 13 10 17 10 19 1A	33 34 35 36 37 38 39 3A CDEFGHI0310VWA12	
nvthon		
Python 3.8.8 (default, Apr 13 202	21, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anacono	da, Inc. on win32
Varning:		
This Python interpreter is in a (	conda environment, but the environment has	
not been activated. Libraries ma alease see https://conda io/activ	ay fail to load. To activate this environment	
Jease see https://tonda.io/activ	acton	
Type "help", "copyright", "credit	ts" or "license" for more information.	
>>> import pytesseract		
>>> from PIL import Image		
<pre>&gt;&gt;&gt; img = Image.open(r'C:\Users\9 &gt;&gt;&gt; toxt = nutoscenast image to</pre>	<pre>J5235\Downloads\misc14\misc.jpg') stning(img)</pre>	
<pre>&gt;&gt;&gt; nrint(text)</pre>	string(img)	
etfshow{ceS28f767fc465b8787cdb936	5363e6943	
2		
>>>		
		hitestitienesia 📭ii 1620% 📾 2

λ python.exe

Search 1/101001.05 🔊 📭 🔶 💼 🗘 🚇 🋅 🚔

## misc15

用 HxD 打开搜索关键词 ctfshow 即可发现flag

Offset(h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	OF	对应文本											^
00000000	42	4D	4E	09	01	00	00	00	00	00	67	01	00	00	28	00	BMNg(.											
00000010	00	00	84	03	00	00	96	00	00	00	01	00	04	00	00	00												
00000020	00	00	D8	08	01	00	74	12	00	00	74	12	00	00	00	00	Øtt											
00000030	00	00	00	00	00	00	00	00	00	00	00	00	80	00	00	80	€€											
00000040	00	00	00	80	80	00	80	00	00	00	80	00	80	00	80	80												
00000050	00	00	80	80	80	00	C0	CO	C0	00	00	00	FF	00	00	FF	€€€.ÀÀÀÿÿ											
00000060	00	00	00	FF	FF	00	FF	00	00	00	FF	00	FF	00	FF	FF	ÿÿ.ÿÿ.ÿ.ÿÿ											_
00000070	00	00	FF	FF	FF	00	74	78	6F	ЗD	2B	29	0B	62	4D	34	ÿÿÿ.txo=+).bM4	搜索										×
00000080	44	53	79	69	24	3B	55	37	28	46	54	2D	45	75	66	75	DSyi\$;U7(FT-Eufu	100.00										
00000090	56	6D	52	74	38	63	2F	71	35	4C	52	51	73	64	43	4E	VmRt8c/q5LRQsdCN	\	k.	文节度	<b>7</b> 11	忠汉浙行	河古	***				
000000A0	56	68	69	21	4F	ЗF	49	6A	29	09	2C	49	48	38	75	3E	Vhi!O?Ij).,IH8u>	- ~ ·		יבונו יב	73	TEAX	13-777	340				
000000B0	25	31	4D	68	7D	43	0B	76	73	31	76	74	2C	70	28	71	%lMh}C.vslvt,p(q						_					
000000C0	4A	4B	4E	0D	0D	49	2F	5E	25	68	ЗA	76	2D	62	7D	3E	JKNI/^%h:v-b}>	搜	<u>索(S</u>	):	ct	tfshow						~
000000D0	49	59	74	6A	21	71	61	33	09	65	63	74	66	73	68	6F	IYtj!qa3.ectfsho											
000000E0	77	7B	66	62	65	37	62	62	36	35	37	33	39	37	65	36	<pre>{fbe7bb657397e6</pre>	-ž	先项一							搜	素方向——	- 11
000000F0	65	30	61	36	61	64	65	61	33	65	34	30	32	36	35	34	e0a6adea3e402654	× 1	之字编	码(I):						0	从斗(Δ)	
00000100	32	35	7D	50	5B	20	50	42	78	4D	31	0D	4B	44	46	67	25}P[ PBxM1.KDFg	4	编辑	器所用编	<b>≅</b> 7⊒				~	ĕ		
00000110	62	3C	62	57	50	46	39	31	39	6B	7B	5C	69	30	3C	31	b <bwpf919k{\i0<1< td=""><td></td><td>9199-12<del>9</del>1</td><td>H77171240</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bwpf919k{\i0<1<>		9199-12 <del>9</del> 1	H77171240								
00000120	62	61	7B	63	09	63	77	71	49	5A	5F	59	6B	2E	67	5F	ba{c.cwqIZ_Yk.g_			分大小写	5(C)					0	同上( <u>B</u> )	
00000130	45	3C	49	68	5A	49	57	7A	6E	43	5A	6D	3E	29	59	38	E <ihziwznczm>) Y8</ihziwznczm>											
00000140	4D	7C	63	0C	59	2E	41	25	68	6A	26	6A	3E	2C	59	63	M c.Y.A%hj&j>,Yc											
00000150	5F	2A	79	78	4B	76	52	67	7C	23	25	22	4C	54	2F	48	_*yxKvRg #%"LT/H											
00000160	47	0A	66	47	7B	ЗD	39	FF	G.fG{=9ÿÿÿÿÿÿÿÿÿÿÿ																			
00000170	FF	<u>ŸŸŸŸŸŸŸŸŸŸŸŸŸŸ</u>					Ĩ	确定		全部列	出(A)	取消	¥ l															
00000180	FF	<u>ŸŸŸŸŸŸŸŸŸŸŸŸŸŸ</u>																										
00000190	FF	<u>ŸŸŸŸŸŸŸŸŸŸŸŸŸŸ</u>																										
000001A0	FF	<u>ŸŸŸŸŸŸŸŸŸŸŸŸŸŸŸ</u>																										
000001B0	FF	<u> </u>																										
000001C0	FF	<u> </u>																										
000001D0	FF	<u> </u>																										
000001E0	FF	<u> </u>																										
000001F0	FF	<u> </u>																										
00000200	FF	<u> </u>																										
00000210	FF	<u> </u>																										
00000220	FF	<u> </u>																										
00000230	FF	<u> </u>																										
00000240	FF	<u> </u>																										
00000250	FF	<u> </u>											~															

binwalk 查看图片,发现额外数据,用 binwalk -e 提取出来,查看提取出来的文件发现flag

11 2:01 3	extracted .					
s binwalk m	isc16.png					
DECIMAL	HEXADECIMAL	DESCRIPTION				
0 Home 41 3540	0×0 0×29 0×DD4	PNG image, 900 x 150, 8-bit/color RGB, non-interlac Zlib compressed data, best compression LZMA compressed data, properties: 0×5D, dictionary	ed size: 8388608 bytes,	uncompressed size:	-1 bytes	
<mark>(kali⊛kal</mark> \$ foremost   Processing: m  *	i)-[~/Desktop] <u>misc16.png</u> isc16.png					
(kali®kal	i)-[~/Desktop]					
└─\$ binwalk -	e <u>misc16.png</u>					
DECIMAL	HEXADECIMAL	DESCRIPTION				
0 41 3540	0×0 0×29 0×DD4	PNG image, 900 x 150, 8-bit/color RGB, non-interlac Zlib compressed data, best compression LZMA compressed data, properties: 0×5D, dictionary	ed size: 8388608 bytes,	uncompressed size:	-1 bytes	
(kali@kal	i)-[~/Desktop]					
ctf dirsearc		<pre>misc16.png.extracted starting_point_H3rmesk1t.ovpn</pre>	volatility vulhub			
[kali⊛kal] [_\$ cd <u></u> s	<pre>i)-[~/Desktop] 6.png.extracted</pre>					
<mark>(kali⊛kal</mark> ≰ ls 29 29.zlib	i)-[~/Desktop/_m DD4 DD4.7z	isc16.png.extracted]				
<pre>(kali⊛ kal</pre>	<b>i</b> )-[ <b>~/Desktop/_m</b> f131c011290a6247	<b>isc16.png.extracted</b> ] 6ae77190b52}				
<mark>(kali⊛kal</mark>	i)-[~/Desktop/_m	isc16.png.extracted]			https://blog.csdn.ne	et/LYJ20010728

## misc17

binwalk 提取出来的东西解不出,尝试 zsteg,根据提示提取信息得到PNG图片,查看图片发现flag

	🖻 kali@kali: ~/Desktop/_fl		02:50 PM 🗖 🍿 🌲 🙆 🛛	Ð
Ella Actions Edit View Holp		kali@kali: ~/Desktop/_flag.extracted		×
<pre>steg misc17.png [?] 3544 bytes of extra data after zlib st</pre>				
control         c         c           0000000001:         11         30         38.6         4f. C5         44         1b           0000000001:         10         10         30         86.6         4f. C5         44         1b           000000001:         10         10         30         86.6         4f. C5         44         1b           000000001:         12         86.0         72         67         20         20         85         32           000000031:         10         86.0         10         86.0         20         86         46         46         46         46         46         46         46         46         46         46         46         46         46 <td< td=""><td>f5 66 65 c7 46 8a 92      85.0F         de 92 4d ad 61 5b 58      </td><td></td><td></td><td></td></td<>	f5 66 65 c7 46 8a 92      85.0F         de 92 4d ad 61 5b 58			
<pre>(kali@kali)-[~/Desktop] \$ zsteg -E "extradata:0" misc17.png &gt; fl</pre>	lag			
<pre>(kali@ kali)-[~/Desktop]    file flag flag: data</pre>				
<pre>(kali⊛ kali)-[~/Desktop] _\$ binwalk -e flag</pre>				
DECIMAL HEXADECIMAL DESCRIPTION				
497 0×1F1 bzip2 compre	essed data, block size - 900k			
<pre>(kali@kali)-[~/Desktop]</pre>	ch flag _flag.extracted flag.txt misc17.png _misc17.png.e	xtracted starting_point_H3rmesk1t.ovpn vola		
<pre>(kali@ kali)-[~/Desktop]</pre>				
<pre>(kali@ kali)-[~/Desktop/_flag.extracted</pre>	1			
<pre>IF1</pre>	a			1
↓ cat <u>1F1</u> in <b>∲PNG</b> smeski				
			https://biog.csan.nev/L+J2001072	5
<mark>እ</mark> Cmder			– – ×	
C:\Users\95235				
λ python				
Python 3.8.8 (defau)	lt, Apr 13 2021, 15:08:03) [MS	C v.1916 64 bit (AMD64	4)] :: Anaconda, Inc. on win32	
Warning:	eter is in a conda environment	, but the environment		
not been activated. please see https://d	Libraries may fail to load. conda.io/activation	To activate this envi	ironment	
Type "help", "copyri >>> import pytessera	Libraries may fail to load. conda.io/activation ight", "credits" or "license" act	To activate this envi	ironment	
Type "help", "copyri >>> import pytessera >>> from PIL import >>> text = pytessera	Libraries may fail to load. conda.io/activation ight", "credits" or "license" act Image n(r'C:\Users\95235\Downloads\m act.image_to_string(img)	To activate this envi for more information. isc17\flag.png')	ironment ## 二级目录 ### 三级目录	
Type "help", "copyri >>> import pytessera >>> from PIL import >>> img = Image.oper >>> text = pytessera >>> print(text)	Libraries may fail to load. conda.io/activation ight", "credits" or "license" act Image n(r'C:\Users\95235\Downloads\m act.image_to_string(img)	To activate this envi for more information. isc17\flag.png')	ironment ###0	
Type "help", "copyri >>> import pytessera >>> from PIL import >>> img = Image.oper >>> text = pytessera >>> print(text) ctfshow{Ofe61fc42e8b Q	Libraries may fail to load. conda.io/activation ight", "credits" or "license" act Image n(r'C:\Users\95235\Downloads\m act.image_to_string(img) bbe55b9257d251749ae45}	To activate this envi for more information. isc17\flag.png')	ironment ### = 40 E R ### = 40 E R	

用 exiftool 查看图片, flag在标题、作者、照相机和镜头型号里

<pre>(kali@ kali)-[~/Desktop] \$ exiftool miscl8.jpg Exiftool Version Number File Name Directory File Size File Modification Date/Time File Access Date/Time File Inode Change Date/Time File Permissions File Type File Type Extension MIME Type JFIF Version Resolution Unit X Resolution Unit X Resolution Exif Byte Order Camera Model Name Artist XP Title XP Author Padding About Title Description Creator Warning Lens Model Image Width Image Height Encoding Process Bits Per Sample</pre>	<pre>: 12.16 : misc18.jpg : . : 21 KiB : 2021:03:13 11:44:41-05:00 : 2021:07:28 14:54:22-04:00 : 2021:07:28 14:54:21-04:00 : rw </pre>	
Bits Per Sample Color Components Y Cb Cr Sub Sampling Image Size Megapixels	: 8 : 3 : YCbCr4:2:0 (2 2) : 900×150 : 0.135	https://blog.csdn.net/LYJ20010728

用 exiftool 查看图片, flag在主机上的文档名里

<pre>(kali@ kali)-[~/Desktop]     Sexiftool miscl9.tif     Exiftool Version Number     File Name     Directory     File Size     File Modification Date/Time     File Access Date/Time     File Access Date/Time     File Access Date/Time     File Type     File Type     File Type     File Ype     File Ype     File Ype     File Ype     File Ype     File Type     File Type     File Type     File Type     File Type     File Type     File Ype     File Ype     File Ype     File Ype     File Type     Subfile     Subfile Type     Subfile     S</pre>	12.16 misc19.1if 26 KiB 201:00:24 12:57:41-04:00 2021:07:28 14:57:41-04:00 2021:07:28 14:57:41-04:00 PW TIFF tif 1mmage/tiff IntiLe-endian (Intel, II) rull-resolution image 900 100 100 100 100 100 100 100	
Instance ID	. skdb 1eco1900-2.1 : xmp.iid:ae9805b-7497-6e4b-8083-763920ef3505	
Original Document ID	: auoue:uocido;pnotosnop;c:147240-022e*C:140-aef3-910a27090014 : xmp.did;ff921444-29ad-7544-a830-38f38d997aa5	
History Action	: created, converted, saved - vmm id/ff071/64/2014/75/0/_2020-28f78/d07325_ vmm id/2202206h-7/07-60/h-8082-7620706f7505	
History When	. Ampilar 1/21-194 2/24 2/24 2/24 2/24 2/24 2/24 2/24 2/	
History Software Agent	: Adobe Photoshop CC 2019 (Windows), Adobe Photoshop CC 2019 (Windows) from image/one to image/tiff	
History Changed	: / https://	/blog.csdn.net/LYJ20010728
	napoli i	

## misc20

用 exiftool 查看图片, flag在评论里

<pre>(kali@kali)-[~/Desktop] exiftool misc20.jpg Exiftool Version Number File Name Directory File Size File Modification Date/Time File Access Date/Time File Inde Change Date/Time File Type Date/Time File Type Extension MIME Type Extension</pre>	<pre>: 12.16 : misc20.jpg : . : 14 KiB : 2021:03:24 04:32:48-04:00 : 2021:07:28 14:59:31-04:00 : rw</pre>	1. 秀大 括号 西九 七九 六 四 必 一 读 易 西 爱 抚 零	☞六易一弟七九西二一弟弟诶弟五九三	易四二大括号
Y Cb Cr Sub Sampling Image Size Megapixels	: YCbCr4:2:0 (2 2) : 900×150 : 0.135			https://blog.csdn.net/LYJ20010728

用 exiftool 查看图片,将序列号 686578285826597329 转字符得到 hex(X&Ys),分别将 X/Y Resolution 和 X/Y Position 转成 hex, 然后拼接起来,flag为 ctfshow{e8a221498d5c073b4084eb51b1a1686d}

<pre>(kali@ kali)-[~/Desktop]     sexiftool misc21.jpg Exiftool Version Number File Name Directory File Size File Modification Date/Time File Access Date/Time File Inode Change Date/Time File Permissions File Type File Type Extension MIME Type JFIF Version Resolution Unit Exif Byte Order X Resolution Y Resolution Page Name X Position Target Printer Exif Version Components Configuration Security Classification Flashpix Version Color Space Serial Number Image Height Encoding Process Bits Per Sample Color Components Y Cb Cr Sub Sampling Image Size Moranivals</pre>	<pre>: 12.16 : misc21.jpg : . 14 KiB : 2021:03:24 12:37:58-04:00 : 2021:07:28 15:00:57-04:00 : 2021:07:28 15:00:57-04:00 : rw</pre>	https://blog.csdp.net/l Y./20010728
Megapixels	: 0.135	https://blog.csdn.net/LYJ20010728

## misc22

直接查看图片没有发现什么,但是用 Honeyview 浏览缩略图时发现数据



https://blog.csdn.net/LYJ20010728





### misc23

用 exiftool 看一下发现有好几个历史时间, History Action 中有提示

📉   📼 💼 💊 🗇 📼 v   📕	🖿 📄 kali@kali: ~/Desktop		03:20 PM 🗖 🗉 🌲 🔒 🖨 🔂
<u> </u>		kali@kali: ~/Desktop	_ = ×
File Actions Edit View Help			
<pre></pre>	<pre>12.16 nisc3.psd</pre>	19873be5bc getTlag pj111: Adobs pi113: 19 1214248408:00, 2030:05:05 16:50:45+00:00, 1984-00:03 10:41:46+00:00 10504306:01 15073be5bc	
Has Keal Merged Data	: Yes		
writer wame	: Adobe Photoshop		https://blog.csdn.net/LYJ20010728

#### 将给出的四个时间的时间戳转换出来,分别hex后拼在一起,转换地址

现在的Unix时	间戳(Unix timestamp)是: 1627500215 开始 停止 刷新	
Unix时间戳(Unix timestamp)	1627500200 秒 🔻 转换	
时间(年/月/日 时:分:秒)	1997/09/22 02:17:02 转换成Unix时间戳 874865822 秒 🔻	
时间 2021 年 月 日	时 分 秒 转换Unix时间戳 秒 ▼	

## misc41

提示中的 F001 是突破点, HxD 查看图片发现有有大量 F001 组成了某种形状

Offset(h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	对应	文本		
00002900	02	8A	28	A0	02	8A	28	AO	02	8A	28	A0	02	8A	28	A0	.š(	.š(	.š(	.š(
00002910	02	8A	28	AO	02	8A	28	A0	02	8A	28	AO	02	8A	28	AO	.Š(	.Š(	.š(	.Š(
00002920	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.š(	.Š(	.š(	.Š(
00002930	02	8A	28	AO	02	8A	28	A0	02	8A	28	AO	02	8A	28	AO	.š(	.Š(	.š(	.Š(
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00002950	02	8A	28	AO	02	8A	28	A0	02	8A	28	AO	02	8A	28	AO	.š(	.Š(	.š(	.Š(
00002960	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.Š(	.Š(	.š(	.Š(
00002970	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.š(	.Š(	.š(	.Š(
00002980	02	8A	28	A0	02	8A	28	AO	02	8A	28	A0	02	8A	28	AO	.š(	.š(	.š(	.š(
00002990	02	8A	28	A0	02	8A	28	AO	02	8A	28	A0	02	8A	28	A0	.š(	.š(	.š(	.š(
000029A0	02	8A	28	A0	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.š(	.š(	.š(	.š(
000029B0	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.š(	.Š(	.š(	.š(
000029C0	02	8A	28	A0	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.š(	.š(	.š(	.š(
000029D0	02	8A	28	A0	02	8A	28	AO	02	8A	28	A0	02	8A	28	AO	.š(	.š(	.š(	.š(
000029E0	02	8A	28	A0	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.š(	.š(	.š(	.š(
000029F0	02	8A	28	A0	02	8A	28	AO	02	8A	28	A0	02	8A	28	AO	.š(	.š(	.š(	.š(
00002A00	02	8A	28	A0	02	8A	28	AO	02	8A	28	A0	02	8A	28	A0	.š(	.š(	.š(	.š(
00002A10	02	8A	28	A0	02	8A	28	AO	02	8A	28	AO	02	8A	28	AO	.š(	.š(	.š(	.š(
00002A20	02	8A	28	A0	02	8A	28	A0	0F	4D	C9	4E	9D	58	55	D8	.š(	.š(	.MÉI	1.XUØ
00002A30	B5	FD	47	69	53	D7	FF	5B	01	6A	FO	01	01	ΕO	EE	DF	μýGi	.S×ÿ[	.jð	.àîß
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00002A50	FO	01	A3	B2	47	4B	4C	F6	FC	AC	FO	01	EF	C7	2D	Al	ð.£°	GKLö	ü−ð.	.ïÇ−;
00002A60	FO	01	84	80	67	39	<b>B</b> 8	BF	67	8B	FO	01	1E	8F	AB	89	ð."€	5, eg:	g<ð.	«‰
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00002A80	05	50	0E	4D	31	<b>A</b> 1	21	93	<b>A</b> 2	F3	FB	0B	D5	ED	4F	0A	.P.M	n;!"	¢óû.	.ÕíO.
00002A90	D3	78	FO	01	FO	01	39	6D	Α4	5B	FO	01	FO	01	66	75	Óxð.	ð.9m	×[ð	ð.fu
00002AA0	F3	AD	FO	01	48	67	0D	Α4	FO	01	9E	90	47	72	38	72	ó.ð.	Hg.¤	ð.ž.	.Gr8r
00002AB0	FO	01	FO	01	FO	01	74	26	FO	01	FO	01	95	C7	F5	FF	ð.ð.	ð.t&	ð.ð	.∙Çõÿ
00002AC0	C0	38	FO	01	1E	50	00	1A	15	80	8D	0F	FO	01	01	D7	À8ð.	.P	.€.	.ð×
00002AD0	FO	01	FO	01	F1	06	68	94	FO	01	FO	01	43	07	03	49	ð.ð.	ñ.h″	ð.ð	.cI
00002AE0	4B	41	41	C9	9B	0E	E8	6A	EB	73	E1	D2	76	58	11	4A	KAAÉ	⇒.èj	ësá(	òvX.J
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00002B00	FO	01	2E	6B	ЗA	6F	C1	F8	FO	01	FO	01	FO	01	D7	16	ð)	:•oÁø	ð.ð	.ð.×.
00002B10	FO	01	FO	01	FO	01	CA	D2	FO	01	4A	E6	FO	01	5E	9B	ð.ð.	ð.ÉÓ	ð.Ja	eð.^>
00002B20	FO	01	EC	72	FO	01	DC	88	FO	01	16	27	FO	01	3C	9A	ð.ìı	ð.Ü^	ð'	ð.<š
00002B30	FO	01	66	62	FO	01	<b>A</b> 2	EA	FO	01	FO	01	FO	01	1E	6E	ð.fk	ð.¢ê	ð.ð	.ðn
00002B40	F8	EE	80	C9	CA	06	EF	2D	FE	04	73	2E	В9	C2	AE	E2	øî.É	Έ.ϊ-	þ.s.	.¹Ä©â
00002B50	FO	01	1A	BA	FE	30	CC	84	FO	01	82	1F	F0	01	FO	01	ðº	b01"	ð.,	.ð.ð.

https://blog.csdn.net/LYJ20010728

把 F001 出现过的位置中所有十六进制的值单独截取出来,每四位分隔开,把F001替换成0,其他值替换成空格,得到一张含有flag的图 片,这里也可以采用 CyberChef 来解决问题,flag为 ctfshow{fcbd427caf4a52f1147ab44346cd1cdd}

## 图片篇(文件结构)

### misc24

用 HxD 查看一下图片,文件头占了53个字节,文件尾的位置在675053字节处(后面两个字节是windows的"补0"),因为每个像素点由3个字节(十六进制码6位)表示,每个字节负责控制一种颜色,分别为蓝(Blue)、绿(Green)、红(Red),所以文件真实的像素大小为: (675053-53)/3=225000

Offset(d)	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	对应文本
00000000	42	4D	FO	4C	0A	00	00	00	00	00	36	00	00	00	28	00	BMðL6(.
00000016	00	00	84	03	00	00	96	00	00	00	01	00	18	00	00	00	,, –
00000032	00	00	BA	4C	0A	00	12	0B	00	00	12	0B	00	00	00	00	°L
00000048	00	00	00	00	00	00	FF	·····									
00000064	FF	<u> </u>															
Offset(d)	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	对应文本
00674896	FF	<u> 222222222222222222</u>															
00674912	FF	<u> </u>															
00674928	FF	<u> </u>															
00674944	FF	<u> </u>															
00674960	FF	<u> 999999999999999999</u>															
00674976	FF	<u> 999999999999999999999999999999999999</u>															
00674992	FF	<u> 999999999999999999999999999999999999</u>															
00675008	FF	<u> 999999999999999999999999999999999999</u>															
00675024	FF	<u> 999999999999999999999999999999999999</u>															
00675040	FF	60	/010	000000000000000000000000000000000000000													

属性	值
图像 ——	
分辨率	900 x 150
宽度	900 像素
高度	150 像素
位深度	24

尝试后发现这题的宽度是对的,所以正确的高度是 225000/900=250,将高度改成

Offset(d)	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	对应文本
00000000	42	4D	FO	4C	0A	00	00	00	00	00	36	00	00	00	28	00	BMðL6(.
00000016	00	00	84	03	00	00	FA	00	00	00	01	00	18	00	00	00	"ú
00000032	00	00	BA	4C	0A	00	12	0B	00	00	12	0B	00	00	00	00	°L
00000048	00	00	00	00	00	00	FF	ÿÿÿÿÿÿÿÿÿÿÿ									

# ctfshow{dd7d8bc9e5e873eb7da3fa51d92ca4b7}

# {there\_is\_no\_flag\_here}

https://blog.csdn.net/LYJ20010728

### misc25

用 TweakPNG 查看图片发现图片的CRC值不对,猜测应该是修改了宽高,用脚本跑一下看看

🧕 misc	25.png (C	:\Users\9	5235\Downloads	misc25\) - TweakPNG		-	- 🗆	$\times$
File Edi	it Insert	Option	s Tools Help					
Chunk	Length	CRC	Attributes	Contents				
	v	Varning			×			
			Incorrect crc for IH	DR chunk (is 76ec1e40, should be 09dad161)				
				确定				
<								>
PNG file s	ize: 8498	bytes			https	://blog.csdn.ne	7EYJ200	10728

C:\Users\95235\Desktop λ python exp.py 宽为: bytearray(b'\x00\x00\x03\x84') 高为: bytearray(b'\x00\x00\x60\xfa')								
C:\Users\95235\Desktop λ								
X cmd.exe	Search 🔎 🕂	- 🛛 - 🔒 🔲 Ξ						
根据脚本计算出来的值修改宽高,保存后即可看到flag								
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 对应づ 00000000 89 50 4E 47 0D 0A 1A 0A 00 00 00 0D 49 48 44 52 %PNG. 00000010 00 00 03 84 00 00 00 FA 08 02 00 00 00 76 EC 1E	之本 							
C:\Users\95235\Desktop λ python Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaco	nda, Inc. on win32	+ Y + B						
Warning: This Python interpreter is in a conda environment, but the environment has not been activated. Libraries may fail to load. To activate this environment please see https://conda.io/activation		+ I + Shift + H + Shift + O + Shift + U						
<pre>Type "help", "copyright", "credits" or "license" for more information. &gt;&gt;&gt; import pytesseract &gt;&gt;&gt; from PIL import Image &gt;&gt;&gt; img = Image.open(r'C:\Users\95235\Downloads\misc25\misc25.png') &gt;&gt;&gt; text = pytesseract.image_to_string(img) &gt;&gt;&gt; print(text) {there_is_no_flag_here}</pre>								
ctfshow{494f611¢cc5842dd597f460874ce38f57} Q >>>		+ G						
X python.exe	searchs://blog.cspl.							

用 TweakPNG 查看图片发现图片的CRC值不对,和上一题一样用脚本跑一下看看





根据脚本计算出来的值修改宽高,保存后即可看到flag

	Offset(h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	对应文本			
	00000000 00000010 00000020 00000030 00000040 00000050 00000060	89 00 4C C0 77 2D	50 00 62 C6 6C E8	4E 03 00 36 01 1C 6E	47 84 39 60 B0 00 75	0D 00 B5 A5 F2 01 0B	0A 00 49 40 9E 78 01	1A 02 44 0A 8D C3 CF	0A 5E 41 2C 03 CA 5B	00 08 54 9C 38 FB F5	00 06 78 00 55 CF D4	00 00 DA 19 13 A3 FF	0D 00 ED 88 01 99 7B	49 00 DD 48 11 CB BE	48 EC C1 81 B8 8C 7B	44 9C 81 8A 8E 38	52 CB EA 47 B5 BE 3A	<pre>%PNGIHDR ,ìœË E9µIDATxÚíÝÁ±ê Lb6`¥@.,œH.*G ÀE.°òž.8Uе wlxÃÊûĨ£™ĔŒ¾% -ènuĨ[õÔÿ{%{8:</pre>			
λ Cmder																					×
C:\Users\95239 λ python Python 3.8.8 (	S\Desktop (default, Ap	r 13	3 20	921,	15	:08	:03	) [1	мѕс	ः v.1	1916	5 64	bi	t (	AMD	64)	889/6 ] ::	Anaconda, Inc. on w	in32		
Warning: This Python in not been activ please see htt	nterpreter i /ated. Libr :ps://conda.	s in arie io/a	n a ≥s n acti	con nay ivat	nda fai tion	env 1 t	iro o lo	nmer oad	nt, . 1	but To a	t tł acti	ne e ivat	envi e t	ron his	men en	t h vir	as onme	1 02 03 04 05 06 07 a 45 41 0D 0A 1A 0A ant <sub>03</sub> 84 00 0D <b>05161</b> 0 00 86 85 48 44 41			0D 0 48 4 EC 9 Cl B
Type "help", ' >>> import pyf >>> from PIL i >>> img = Imag >>> text = pyf >>> print(text {there_is_no_f	'copyright", cesseract import Image ge.open(r'C: cesseract.im c) flag_here}	"cr \Use age_	redi ers∖ _to_	lts" \952 _str	or 235\ ring	"1 Dow (im	icen nloa g)	nse' ads\	' fo ∖mis	or n sc26	nore 6\mi	e in isc2	for 6.p	mat	ion						v k
<pre>ctfshow{94aef1 +True height() 087a7ccf2e28e7 Q &gt;&gt;&gt; print(img. (900, 606) &gt;&gt;&gt; print(hex) 0x25e &gt;&gt;&gt; </pre>	( hex) of this 742efd704c} size) (606))	pi	tur	re+			th	iei	'e	js		10	f	a	9_	he	ere	}			
λ python.exe																		search5.//DIOG.CS	÷ 🕂 🔍	0	

根据提示,猜测依旧是修改图片高度,将高度改高后即可发现flag

👒 010 Editor - C:\Users\9	5235\Dow	nloads\mis	c27\mis	c27.jpg								_		×
File Edit Search View	Format	Scripts	Templa	tes De	bua	Tools N	Nindow	Help						
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> struct DQT dqt				12h	86	5h	Fg:	Bg:			Binary	000000	00	
<ul> <li>struct SOFx sof0</li> </ul>				98h	1:	3h	Fg:	Bg:			Signed Byte			
enum M_ID marker	M	I_SOF0 (FFC -	:0h)	98h	21		Fg:	Bg:			Unsigned Byte			
WORD szSection	1/	(		9Ah Acl	21	n	Fg:	Bg:			Signed Short	-27136		-
WORD V image	8	50		9Ch ADL	11 IC	n L	Fg:	Bg:			Unsigned Short	38400		
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→ struct DRL dri				ABh	6	h	For	Bar		<u> </u>			521543033	
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Type "help", "copyright", "credits" or "license" for more information.
>>> import pytesseract
>>> from PIL import Image
>>> img = Image.open(r'C:\Users\95235\Downloads\misc27\misc27.jpg')
>>> text = pytesseract.image\_to\_string(img)
>>> print(text)
{there\_is\_no\_flag\_here}
ctfshow{5cc4f19eb01705b99bf41492430a1al14}
Q
>>> print(img.size)

https://blog.csdn.net/LYJ20010728

### misc28

(900, 250)

根据提示,猜测依旧是修改图片高度,将高度改高后即可发现flag,但是需要注意从预览图中能看到flag,但是直接打开看不到,可以使用 图片编辑器或者Stegsolve打开

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> struct GRAPHICCONTROLE		6Dh	8h	Fg:	Bg:		Sign	ned Byte	-106	
struct IMAGEDESCRIPTOR I		75h	Ah	Fg:	Bg:		Unsi	igned Byte	150	
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C:\Users\95235\Desktop λ python Python 3.8.8 (default, A Warning: This Python interpreter not been activated. Lik please see https://conda Type "help", "copyright" >>> import pytesseract >>> from PIL import Imag >>> img = Image.open(r'C >>> text = pytesseract.i >>> nint(text)	Apr 13 2021, 15 is in a conda praries may fai a.io/activation ', "credits" or ge C:\Users\95235\ image_to_string	:08:03) [ environme l to load "license Downloads ((img)	MSC v.191 nt, but t . To act " for mor \misc28\m	6 64 b he env ivate e info isc28.	oit (AMD /ironmen this en ormation gif')	064)] :: Anacon nt has nvironment n.	nda, I	inc. on wi	in32	
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ctfshow{59c8bc525426166b1c893fe12a387fd7}



GIF有很多帧,将每一帧的高度都改高后,用 Stegsolve 查看,在第八帧即可发现flag

#### Frame: 8 of 10

# {there\_is\_no\_flag\_here}

# ctfshow{03ce5be6d60a4b3c7465ab9410801440}

< > Save

https://blog.csdn.net/LYJ20010728

### misc30

根据提示修改BMP图片宽度即可发现flag

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LONG biWidth	950	12h	4h	Fg: E	g:		ī	Jnsianed Byte	182		
LONG biHeight	150	16h	4h	Fg: E	g:		9	Signed Short	950		
WORD biPlanes		1Ah	2h	Fg: E	ig:		l	Jnsigned Short	950		
WORD biBitCount	24	1Ch	2h	Fg: E	g:		9	Signed Int	950		
DWORD biCompression		1Eh	4h	Fg: E	g:		L L	Jnsigned Int	950		
DWORD biSizeImage	427802	22h	4h	Fg: E	g:		\$	Signed Int64	644245	95350	
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please see https://conda	a.lo/activation	า									
Type "help", "copyright'	', "credits" on	r "license	" for more	e infor	mation.						
>>> import pytesseract											
>>> img = Image.open(r'(	ge C:\Users\95235'	Downloads	\misc30\mi	isc30.b	('am						
>>> text = pytesseract.	image_to_string	g(img)			MISCZO						
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ctfshow{6db8536da312f6ac Q	2b42da2f45b5f2	13c}									

根据题给描述,计算正确宽度

Warning:         This Python interpreter is in a conda environment, but the environment has         not been activated. Libraries may fail to load. To activate this environment         please see https://conda.io/activation         Type "help", "copyright", "credits" or "license" for more information.         >>> s = (487253-53)/3         >>> s / = 150         >>> print(s)         1082.66666666666667         >>>         Image: Python.exe         Search       Image: Python.exe         Image: P	
Type "help", "copyright", "credits" or "license" for more information. >>> s = (487253-53)/3 >>> print(s) 1082.6666666666667 >>> $\bigcirc$ 010 Editor - C:\Users\95235\Downloads\misc31\misc31.bmp - File Edit Search View Format Scripts Templates Debug Tools Window Help $\square \bigcirc \bigcirc$	×
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LONG biHeight 150 16h 4h Fg: Bg: Signed Short 900	
WORD biPlanes 1 1Ah 2h Fg: Bg: Unsigned Short 900	
WORD biBitCount 24 1Ch 2h Fg: Bg: Signed Int 900	
DWORD biCompression 0 1Eh 4h Fg: Bg: Unsigned Int 900	
LONG bixPelsPerMeter 2834 26h 4h Fa: Ba: Linsigned Int64 644245095300	
LONG biVPelsPerMeter 2834 20b 4b Ear Bar	Por < >
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<mark>C:\Users\95235\Desktop</mark> λ python Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32	
Warning: This Python interpreter is in a conda environment, but the environment has not been activated. Libraries may fail to load. To activate this environment please see https://conda.io/activation	
Type "help", "copyright", "credits" or "license" for more information. >>> import pytesseract >>> from PIL import Image >>> img = Image.open(r'C:\Users\95235\Downloads\misc31\misc31.bmp') >>> text = pytesseract.image_to_string(img)	
<pre>&gt;&gt;&gt; print(text) ctfshow{fb09dcc9005fe3feeefb73646b55efd5} </pre>	

根据题给描述,计算出正确的高宽

C:\Users\95235\Desktop λ   Search P ▼ 1 ▼ 8	C:\Users\95235\Desktop λ python exp.py 宽为: bytearray(b'\x00\x00\x04\x14') 高为: bytearray(b'\x00\x00\x00\x96')			
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#### 修改宽高保存后即可看到flag 🤒 010 Editor - C:\Users\95235\Downloads\misc32\misc32.png File Edit Search View Format Scripts Templates Debug Tools Window Help - ~ 🍉 ~ 🔚 🗊 💼 👘 1 🖢 🐚 🗳 (つ (つ ) 🔎 🎜 🦻 🔶 ) 1 👼 🥦 ( hex) 📰 📢 📗 👰 🗰 🗽 🖄 🧐 (2) ( 2) • misc32.png × <del>-</del> × File Path ~ 50 4E 47 0D 0A 1A 0A 00 00 0D 0D 00 03 84 00 00 00 96 08 02 00 00 44 52 48 ‰PNG. 📂 Open Files 0020h: 0B 00 00 0A FF 49 44 0030h: 28 14 06 D0 AA 79 FF misc32.png 78 DA ED DD DB 9A A3 TxÚíÝÛš£ (..Đªyÿw®¹šþj:Æ. →Ã.×°ìŽ- .¿1øÏ.. 📂 Favorite Files 77 AE B9 9A FE 6A 3A C6 00 🤌 Recent Files 0040h: 9B C3 06 D7 BA EC 8E 96 20 02 BF 31 F8 CF 0050h: 00 40 81 7F BE 00 00 00 0A 08 0F 00 00 80 F0 00 misc31.bmp misc30.bmp 0070h: F0 00 00 00 08 0F 00 00 00 C2 03 00 00 20 3C 00 0080h: 00 00 C2 03 00 00 20 3C 00 00 00 C2 03 00 00 20 ...Â... <...Â... <...Â...€ð.....</pre> misc29.gif misc28.gif 0090h: 3C 00 00 00 C2 03 00 00 80 F0 00 00 00 08 0F 00 misc27.jpg Lenna.bmp ....€ð... <...Â.. . <...Â... <...Â 00B0h: OF 00 00 80 F0 00 00 00 20 3C 00 00 00 C2 03 00 00C0h: 00 20 3C 00 00 00 C2 03 00 00 20 3C 00 00 00 C2 00D0h: 03 00 00 20 3C 00 00 00 08 0F 00 00 80 F0 00 00 📙 Bookmarked Files .... <.....€ð.. .....€ð......€ð .....Â... <.. .Â... <...Â... < OF 00 00 80 F0 00 00 00 08 OF 00 00 80 F0 00E0h: 00 08 DOFOh: 00 00 00 08 OF 00 00 00 C2 03 00 00 20 3C 00 00 🔻 📑 Workspace 🍃 Explorer 0100h: 00 C2 03 00 00 20 3C 00 00 00 C2 03 00 00 20 3C Template Results - PNG.bt 2 × Inspector <del>.</del> × Commen ^ Name Value Start Size Color Value Type union CTYPE type 4h Fg: Bg: struct PNG\_CHUNK\_IHDR ihdr 900 x 150 (x8) Bg Signed Byte uint32 width 1044 4h Bg Unsigned Byte 0 uint32 height 14h 4hBg Sianed Short ubyte bits 18h 1h Bg: Unsigned Short 0 enum PNG\_COLOR\_SPAC... TrueColor (2) 19h 1h Bg Signed Int enum PNG\_COMPR\_MET... Deflate (0) 1Ah Bg Unsigned Int 2214789120 enum PNG FILTER METH... AdaptiveFiltering (0) 1Bh Bg Sianed Int64 -76381049658055720.. Unsigned Int64 10808639107903979... ELANACODE +32 c 📲 Variables 🛛 🗎 Boo < 🗲 Inspector > sizettps;//blog.csdn.get/LTYJ20010728 Selected: 4 bytes (Range: 16 [10h] to 19 [13h]) Start: 16 [10h] Sel: 4 [4h] \lambda Cmder

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λ python Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32 Warning: This Python interpreter is in a conda environment, but the environment has not been activated. Libraries may fail to load. To activate this environment please see https://conda.io/activation Type "help", "copyright", "credits" or "license" for more information. >>> import pytesseract >>> from PIL import Image >>> img = Image.open(r'C:\Users\95235\Downloads\misc32\misc32.png') >>> print(text) Traceback (most recent call last): File "<stdin>", line 1, in <module> NameError: name 'text' is not defined >>> text = pytesseract.image\_to\_string(img) >>> print(text) ctfshow{685082227bcf70d17d1b39a5c1195aa9} >>> quit() C:\Users\95235\Desktop λ Search 🌶 🖷 🖛 🖬 🖓 🚔 λ cmd.exe

### misc33

根据题给描述, 计算出正确的高宽



利用脚本把生成的所有图片都保存下来了,观察哪个是正常的

```
import zlib
import struct
filename = r"C:\Users\95235\Downloads\misc34\misc34.png"
with open(filename, 'rb') as f:
    all_b = f.read()
    #w = all_b[16:20]
    #h = all_b[20:24]
    for i in range(901,1200):
        name = str(i) + ".png"
        f1 = open(r"C:\Users\95235\Downloads\misc34\\" + name,"wb")
        im = all_b[:16]+struct.pack('>i',i)+all_b[20:]
        f1.write(im)
        f1.close()
```

 $\langle$ 

>

 $\times$ 

## ctfshow{03e102077e3e5de9dd9c04aba16ef014}

https://blog.csdn.net/LYJ2001028

### misc35

先把图片基础的高度调高一点(高度在600,宽度在993-1000这个范围内都可以得到flag),才能看到flag

import zlib
import struct
<pre>filename = r"C:\Users\95235\Downloads\misc35\misc35.jpg"</pre>
with open(filename, 'rb') as f:
all_b = f.read()
for i in range(901,1200):
name = str(i) + ".jpg"
<pre>f1 = open(r"C:\Users\95235\Downloads\misc35\\" + name,"wb")</pre>
<pre>im = all_b[:159]+struct.pack('&gt;h',i)+all_b[161:]</pre>
f1.write(im)
f1.close()



和上一题一样先把图片基础的高度调高一点,脚本爆破即可,用照片编辑器查看gif文件

```
import zlib
import struct
filename = r"C:\Users\95235\Downloads\misc36\misc36.gif"
with open(filename, 'rb') as f:
    all_b = f.read()
    for i in range(920,951):
        name = str(i) + ".gif"
        f1 = open(r"C:\Users\95235\Downloads\misc36\\" + name,"wb")
        im = all_b[:38]+struct.pack('>h',i)[::-1]+all_b[40:]
        f1.write(im)
        f1.close()
```

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misc35.jpg misc36.gif* x						Wo	orkspace	162	·
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0060h: A6 F3 09 8D 4A A7 D	04 AA F5 8A CD 6	58 4C 2A 97 5A B7 DC AE	E F7 ¦óJ§	.+A¢n L∷– ÔªõŠÍj∙Ü®	-1 0÷	1	Favorite Files		
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00A0h: 49 59 69 79 89 99 A	9 B9 C9 D9 E9 F	9 09 1A 2A	A IYiy‱™	B¹ÉÙéù* aoĉúâú	1:		misc30.bmp		
00C0h: 48 58 68 78 88 98 A	A BA CA DA EA P	B 0B 1C 20	3C K[k{\.	«»ËÛëû,	<		misc29.gif		
00D0h: 4C 5C 6C 7C 8C 9C A	C BC CC DC EC F	C OC 1D 2D	) 3D L\1 Œœ·	¬¼ÌÜìü ⊮íýíý	.=		misc28.git		
00F0h: 4E 5E 6E 7E 8E 9E A	E BE CE DE EE F	E OE 1F 2F	3F N^n~Žž	B¾ÎÞîþ/	?		Lenna.bmp		
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UBYTE ImageSeperator	44	21h	1h F	g: Bg:		Uns	igned Byte	44	
ushort ImageLeftPosition	0	22h	2h F	g: Bg:	_	Sigr	ned Short	300	
ushort ImageTopPosition	0	24h	2h F	g: Bg:	-	Uns	igned Short	300	
ushort ImageWidth	300	20n 28h	2n r 2h F	'g: вg: a: Ba:		Sigr	hed Int	33554732	
struct IMAGEDESCRIPTO	300	2Ah	Th F	a: Ba:		Uns	igned int	-6228604732	7520027
> struct IMAGEDATA ImageD		2Bh	AA6h F	g: Bg:		Uns	ianed Int64	12218139340	957548
struct TRAILER Trailer		AD1h	1h F	a Bar		× _	Inspector	Variables	Boy
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用 Stegsolve 查看, flag在 8、14、21、31、34 帧中, 拼接起来即可

Frame : 9 of 45		
ctfshow{		
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		2056782c
	Save	
Frame : 21 of 45		
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	Save	https://blog.csdn.net/LYJ20010728
Frame : 31 of 45		
	1dcbbe3c	3
	Save	https://blog.csdn.net/LYJ20010728
Frame : 34 of 45		
6eecda17}		
	Save	https://blog.csdn.net/LYJ20010728
misc38		
题目所给的是apng图片,可以使用APNG	G Disassembler来把每一帧分离出来, 9、17、36、40	帧中藏有flag
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### misc39

这里是利用不同帧之间的间隔时间来隐写的,利用 identify 来处理该GIF图片

安装命令: sudo apt-get install imagemagick

提取命令: identify -format "%T " misc39.gif > 1.txt, 得到的一串36和37

把37换成1、36换成0,得到长度为287的二进制字符串,由于无法整除8,考虑7位一组,转换成字符得到flag

C:\Users\95235 λpython Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anacon	da, Inc. on win32	isc42 isc43
Warning: This Python interpreter is in a conda environment, but the environment has not been activated. Libraries may fail to load. To activate this environment please see https://conda.io/activation		
Type "help", "copyright", "credits" or "license" for more information. >>> s = "11000111110100110011011100011011111111	0000110001011001011001 0111001011011001100111	11011001100 11000010111
<pre>&gt;&gt;&gt; for 1 in range(41):  flag += chr(int(s[7*i:7*(i+1)],2))</pre>		
<pre> &gt;&gt;&gt; print(flag)</pre>		
ctfshow{52812ff995fb7be268d963a9ebca0459} >>>	https://blog.csdn.net/LY	′J20010728

### misc40

文件识别为 apng 文件,使用工具 APNG Disassembler,flag在记录详细信息的txt文件中,用脚本把flag提取出来

							^
21.png	21.txt	22.png	22.txt	23.png	23.txt	24.png	24.txt
Here Auto Alla Kent						(here, j., e., j. a., j. a., j.	
25.png	25.txt	26.png	26.txt	27.png	27.txt	28.png	28.txt
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29.png	29.txt	30.png	30.txt	iter/undepend	31.txt	32.png	32.txt
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37.png	37.txt	38.png	38.txt	39.png	39.txt	40.png	.net/L40.txt 010728
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Python 3.8.8 (de	efault, Apr 1	13 2021, 15:08:0	3) [MSC v.19	916 64 bit (AMD64	4)] :: Anacon	nda, Inc. on win	32
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Type "help", "co >>> flag = "" >>> for i in rar f = oper s = f.re flag +=	opyright", " nge(28,69): n(r'C:\Users` ead() chr(int(s.sp	credits" or "lico \95235\Downloads plit("/")[0][6:]	ense" for mc \misc40\\' + ))	ore information. + str(i) + '.txt	miso42 miso43 ) miso44		
<pre> &gt;&gt;&gt; print(flag) ctfshow{95ca0297 &gt;&gt;&gt;</pre>	/dff0f6b1bdad	ca394a6fcb95b}					
λ python.exe						searchs://blog.cs.jpl	pul 620 <b>6 7 2</b>

根据提示,用 tweakpng 打开图片,发现IDAT块的长度很可疑,有一部分IDAT块的长度转换为字符是 ctfshow ,将后面的接着转换成字符 即可得到flag

🧕 miso	:42.png (C	:\Users\95	235\Downloads\misc4	2\) - TweakPNG				×
File Ed	lit Insert	Options	Tools Help					
Chunk	Length	CRC	Attributes	Contents				^
IDAT	191	c2947	critical	PNG image data				
IDAT	229	edf7ec	critical	PNG image data				
IDAT	152	27413	critical	PNG image data				
IDAT	191	e625b	critical	PNG image data				
IDAT	49	19eb9	critical	PNG image data				
IDAT	99	d639e	critical	PNG image data				
IDAT	116	af63a2	critical	PNG image data				
IDAT	102	d7127	critical	PNG image data				
IDAT	115	b5296	critical	PNG image data				
IDAT	104	dce9d	critical	PNG image data				
IDAT	111	302ca	critical	PNG image data				
IDAT	119	927d6	critical	PNG image data				
IDAT	123	6ef517	critical	PNG image data				
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PNG file	size: 4992	bytes		n in	ttps://bloglesdnine	avLYJ	2001	0728

Cmder	116 af63a2 critical	PNG image data PNG image data	—		×
C:\Users\95235\Downloads\misc40 λ python Python 3.8.8 (default, Apr 13 20 Warning: This Python interpreter is in a not been activated. Libraries m please see https://conda.io/activ	21, 15:08:03) [MSC v.1916 conda environment, but th ay fail to load. To acti vation	64 bit (AMD64)] :: Anaconda, e environment has vate this environment	Inc. on win32		
<pre>Type "help", "copyright", "credi &gt;&gt;&gt; flag = "" &gt;&gt;&gt; IDAT = [99,116,102,115,104,1 50,57,102,56,57,49,51,99,54,53,1 &gt;&gt;&gt; for i in IDAT:  flag += chr(i)  &gt;&gt;&gt; print(flag) ctfshow{078cbd0f9c8d3f2158e70529 &gt;&gt;&gt;</pre>	ts" or "license" for more 11,119,123,48,55,56,99,98 25] f8913c65}	information.	02,50,49,53,56,101	,55,48	,53,
X python.exe		Searc	s://blog.cs;jpu <mark>q</mark> el/Lif	200	

根据题给描述,先用tweakpng打开分析一下图片,发现报了一堆错,使用 pngdebugger 分析,发现所有IDAT块的crc32值都是错误的



将错误的IDAT块的 crc-code 提取出来,拼接起来转字符串即可得到flag

### 🚶 Cmder C:\Users\95235\Downloads\misc40 λ python Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32 Warning: This Python interpreter is in a conda environment, but the environment has not been activated. Libraries may fail to load. To activate this environment please see https://conda.io/activation Type "help", "copyright", "credits" or "license" for more information. >>> import binascii >>> def hex\_to\_str(s): hex = s.encode('utf-8') str bin = bin binascii bin( str\_bin = binascii.unhexlify(hex) return str\_bin.decode('utf-8') >>> s = 'E59387E593A62E63746673686F777B366562323538396666666663565333930666536623837353034646263303839327D' >>> hex\_to\_str(s) '哇哦.ctfshow{6eb2589ffff5e390fe6b87504dbc0892}'

λ python.exe

import binascii

def hex\_to\_str(s): hex = s.encode('utf-8') str\_bin = bin str\_bin = binascii.unhexlify(hex) return str\_bin.decode('utf-8')

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s = 'E59387E593A62E63746673686F777B366562323538396666666663565333930666536623837353034646263303839327D' hex\_to\_str(s)

根据提示,用 PNGDebugger 打开,把信息导入到txt文件中



#### misc45

λ cmd.exe

根据题给描述,猜测是文件转换,测试后发现转成.bmp格式后,用binwalk提取即可,看大师傅的blog发现考察点是png和bmp像素点的读取方式。

Search

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( <b>kali⊛kal</b> ∟ <mark>\$</mark> binwalk <u>m</u>	i)-[ <b>~/Desktop</b> ] isc45.bmp		
DECIMAL	HEXADECIMAL	DESCRIPTION	
0 65536 volatility	0×0 0×10000	PC bitmap, Windows 3.x format,, 900 x 150 x 24 gzip compressed data, has original file name: "flag.png", from Unix, last modified: 2021-03-29 15:44:52	
<mark>(kali⊛kal</mark> ⊈ <b>\$</b> binwalk -	i)-[ <b>~/Desktop</b> ] e <u>misc45.bmp</u>		
DECIMAL	HEXADECIMAL	DESCRIPTION	
0 65536	0×0 0×10000	PC bitmap, Windows 3.x format,, 900 x 150 x 24 gzip compressed data, has original file name: "flag.png", from Unix, last modified: 2021-03-29 15:44:52	
[kali⊛kal ∫\$ cd <u>misc4</u>	i)-[~/Desktop] 5.bmp.extracted		
<pre>(kali@kal</pre>	i)-[~/Desktop/_m	isc45.bmp.extracted]	28
C:\Users\S $\lambda$ python Python 3.8	95235\Desktop 8.8 (default,	Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)] :: Anaconda, Inc. on win32	
This Pytho not been a please see	on interprete activated. L https://con	r is in a conda environment, but the environment has ibraries may fail to load. To activate this environment da.io/activation	
Type "help >>> import >>> from F >>> img = >>> text = >>> print( ctfshow{05 Q >>>	", "copyrigh pytesseract PIL import Im Image.open(r pytesseract text) 7a722a558797	nt", "credits" or "license" for more information. Hage 'C:\Users\95235\Downloads\misc45\flag.png') :.image_to_string(img) '9c34966c2436283e70}	
λ python.e	(e	search :://DIOG.CS 🔎 🐺 4- 🕞 4-) 🔒 📑	E

根据题给描述,搜索后猜测应该是画图之类的,先提取出GIF的详细信息

identify misc46.gif > message.txt

<pre>(kali@kali)-[~/Desktop] \$ identify misc46.gif &gt; message.txt</pre>	Open 🔻 💽	message.txt ~/Desktop	Save
<pre>(kali@kali)-[~/Desktop] gedit message.txt starting_poin Litiameski.</pre>	1 misc46.gif[0] GIF 900×150 2 misc46.gif[1] GIF 450×50 3 misc46.gif[2] GIF 450×50 4 misc46.gif[3] GIF 450×50 5 misc46.gif[3] GIF 450×50 6 misc46.gif[5] GIF 450×50 7 misc46 gif[6] GIF 450×50	0 900×150+0+0 8-bit sRGB 2c 0.010u 0:00.015 900×150+174+49 8-bit sRGB 16c 0.010u 0:00.019 900×150+196+47 8-bit sRGB 16c 0.010u 0:00.019 900×150+256+49 8-bit sRGB 16c 0.010u 0:00.019 900×150+220+49 8-bit sRGB 16c 0.010u 0:00.019 900×150+220+49 8-bit sRGB 16c 0.010u 0:00.019 900×150+220+49 8-bit sRGB 16c 0.010u 0:00.019	

观察得到的信息,其中 0+0、174+49、196+47 这些是偏移量,用其来进行画图



根据得到的点坐标进行绘图



## ctfshou(05906b3be8742aBa93898186bc5302f)

misc47

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		ture and the second sec		~ ~ ~			- Workspace	16		_ ~
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0390h:	08 E1 64 40 04 44 4	0 02 04 40 00 04	4 C0 3F FF	73 .ád@.D	@@À?ÿ	S	misc27.jpg			27\
03A0h:	BB 4A 85 AA 6F DB 6 19 24 B9 1F CB 7A C	E B5 A4 20 0B 9/	A D9 FB 8B 5 75 E8 42	_C3_»J…°OU 13 .\$¹.Ëz	nµ≏-UsUu∢ ÏåFQ.EuèB	<u>A</u>	Lenna.bmp	C:\	Useture	es\ 🗸
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	uint32 sequence_number		354h	4h I	Fg: Bg:	_	Signed Byte			
	uint32 width	450	358h	4h I	Fg: Bg:	_	Unsigned Byte			
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			36Ch	20 1 1h	rg: bg: Fa: Ba:	-	Signed Int64	374699489	30257059	984
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trom P	IL import image	<b>-</b> .								
import	matplotlib.pyplot	as pit								
f = op	en(r'C:\Users\9523	5\Downloads\mi	sc47\misc4	47.png','r	`b')					
c = f.	read()									
c = c[	<pre>c.index(bytes.from</pre>	hex('6663544C0	0000001')							
pp = [										
for i	<pre>in range(1,1124,2)</pre>									
st	art = c.index(byte	<pre>s.fromhex('666</pre>	3544C0000	')+struct.	pack( <mark>'&gt;h</mark>	',i))				
fc	= c[start:start+3	0]								
pr	int(fc[18:20],fc[2	2:24])								
pr	int(struct.unpack(	'>h',fc[18:20]	)+struct.	unpack('>h	',fc[22::	24]))				
ממ	.append(struct.unp	ack('>h',fc[18	:20])+str	uct.unpack	:('>h',fc	[22:24]))				
img =	Tmage.new('RGB'.(4	.00.70).(255.25	5.255))							
for i	in nn:									
- no	= Tmage new('BCP	' (1 1) (0 0 0	))							
- ne	m = Image.new( ROD	, (1,1), (0,0,0								
⊥∭	ig.paste(new,1)									
pit.im	isnow(img)									
plt.sh	IOW()									

🖆 C:\Users\951 🚶 Cmder toop gyn bubline Teop Ublitucial	🔀 Figure 1	- 🗆 🗙
<pre>File Edit Sele (296, 51) b'\x01\t' b'\x001' (265, 49) 88 # b'\x00\x88' b'\x003' 89 # (136, 51) 90 # f. b'\x01\x15' b'\x00.' 91 (277, 46) 92 impo b'\x00\xbd' b'\x004' 93 from (189, 52) 94 impo b'\x00\xcf' b'\x002' 95 f = b'\x00\xcf' b'\x001' (266, 49) 97 C = b'\x00\xcf' b'\x00.' 99 for b'\x00s' b'\x000' 100</pre>	0 25 - 50 - ctfshow(6d51f85b45a0061754a2776a32cf26c4)	
101       b'\x01\x08' b'\x00.'         102       (264, 46)         103       (233, 51)         104       b'\x001=' b'\x004'         105       img         106       for         107       (185, 50)         108	0 50 100 150 200 250 300 35	50
.* Aa **** C≡ ⊞		Runet/14120040728

用 010 editor 打开,发现提示统计FF的数量再减去1、ctfshow{}中包含32个字符

0000h:	FF	D8	FF	FF	FF	FF	FF	EE	<mark>ÿØ</mark> ÿÿÿÿÿÿÿÿÿÿÿÿÿ <mark>ÿî</mark>								
0010h:	00	0E	41	64	6F	62	65	00	64	40	00	00	00	01	FF	FF	Adobe.d@ÿÿ
0020h:	FF	DB	00	84	00	02	02	ÿÿÿÿÿÿÿÿÿÿ <mark>ÿÛ."</mark>									
0030h:	02	02	02	02	02	02	02	02	03	02	02	02	03	04	03	02	
0040h:	02	03	04	05	04	04	04	04	04	05	06	05	05	05	05	05	
0050h:	05	06	06	07	07	08	07	07	06	09	09	<b>0</b> A	0A	09	09	0C	
0060h:	0C	0C	0C	0C	01	03											
0070h:	03	03	05	04	05	09	06	06	09	0D	<b>0</b> A	09	0A	0D	0F	0E	
0080h:	0E	0E	0E	0F	0F	0C	0C	0C	0C	0C	0F	0F	0C	0C	0C	0C	
0090h:	63	6F	75	6E	74	0C	46	46	0C	26	0C	6D	69	6E	75	73	count.FF.&.minus
00A0h:	0C	31	0C	63	74	66	73	68	6F	77	7B	33	32	7D	0C	FF	.1.ctfshow{32}.ÿ
00B0h:	C0	00	11	08	00	96	03	84	03	01	11	00	02	11	01	03	A"
00C0h:	11	01	FF	DD	00	04	00		FF	·· <mark>ÿÿÿÿÿÿÿÿŸ</mark> Í···qÿ							
00D0h:	FF	C4	01	A2	00	00	00	ÿÿÿÿÿÿÿÿÿÿÄ.C									
00E0h:	07	01	01	01	01	01	00	00	00	00	00	00	00	00	04	05	
00F0h:	03	02	06	01	00	07	08	09	0A	0B	01	00	02	02	03	01	https://blog.csdn.net/LYJ20010728
0100h	01	01	01	01	00	00	00	00	00	00	00	01	00	02	03	04	

因为flag长度是32位,所以只需要统计前32个段就行

0 12 11 0 7 10 13 13 9 0 9 13 0 13 6 0 10 9 2 1 0 1 10 8 11 5 12 7 2 2 3 10

分别转换成hex即可

s = [0,12,11,0,7,10,13,13,9,0,9,13,0,13,6,0,10,9,2,1,0,1,10,8,11,5,12,7,2,2,3,10]
f = '0123456789abcdef'
flag = 'ctfshow{'
for i in range(len(s)):
 flag += f[s[i]]
flag += '}'
print(flag)

#### 用 010 editor 打开, FFE 后面的就是flag的值

0000h:	FF	D8	FF	E0	00	10	4A	46	49	46	00	01	01	01	00	C0	ÿØÿàJFIFÀ
0010h:	00	C0	00	00	FF	EC	00	11	44	75	63	6B	79	00	01	00	.ÀÿìDucky
0020h:	04	00	00	00	50	00	00	FF	E6	00	13	47	6F	50	72	6F	PÿæGoPro
0030h:	00	3C	44	5A	4F	4D	20	ЗD	20	59	3E	00	FF	E1	00	ЗA	. <dzom =="" y="">.ÿá.:</dzom>
0040h:	45	78	69	66	00	00	4D	4D	00	2A	00	00	00	80	00	03	ExifMM.*
0050h:	51	10	00	01	00	00	00	01	01	00	00	00	51	11	00	04	QQ
0060h:	00	00	00	01	00	00	00	00	51	12	00	04	00	00	00	01	
0070h:	00	00	00	00	00	00	00	00	FF	E8	00	1C	53	50	49	46	ÿèSPIF
0080h:	46	56	65	72	73	69	6F	6E	32	00	50	72	6F	66	69	6C	FVersion2.Profil
0090h:	65	49	44	ЗD	34	00	FF	E6	00	13	47	6F	50	72	6F	00	eID=4.ÿæGoPro.
00A0h:	3C	44	5A	4F	4D	20	3D	20	59	3E	00	FF	E7	00	10	48	<dzom =="" y="">.ÿçH</dzom>
00B0h:	75	61	77	65	69	00	4D	61	74	65	00	38	00	FF	E1	00	uawei.Mate.8. <mark>ÿá.</mark>
00C0h:	ЗA	45	78	69	66	00	00	4D	4D	00	2A	00	00	00	08	00	:ExifMM.*
00D0h:	03	51	10	00	01	00	00	00	01	01	00	00	00	51	11	00	.QQ
00E0h:	04	00	00	00	01	00	00	00	00	51	12	00	04	00	00	00	Q
00F0h:	01	00	00	00	00	00	00	00	00	FF	EA	00	28	50	68	6F	https://blogecs@honet/LYJ20010728
0100h:	74	6F	53	74	75	64	69	6F	E5	A5	97	E5	<b>A</b> 8	83	F7	BC	toStudioa¥-a¨fc%

## 图片篇(颜色通道)

## misc50

由于是颜色通道篇的,很自然想到用 Stegsolve 查看一下,



Green plane 0

