




wireshark

原创

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29 篇文章 3 订阅

订阅专栏

wireshark (来源: 攻防世界)

1. 关卡描述

Wireshark  2 最佳Writeup由admin提供

难度系数:  6.0

题目来源: [DDCTF-2019](#)

题目描述: 简单的流量分析

题目场景: 暂无

题目附件: [附件1](#)

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2. 解题步骤

分析:

题目只告诉我们这是一道简单的流量分析, 来源是DDCTF, 这个一看就不简单:

看了一下协议, 重点就是TCP, HTTP, 最重要的是有一个SSDP, 这个没学过(笔记: 结果也用不上)

Wireshark 协议分级统计 abf1976e192a4bc382328d0014ed3ab1.pcapng

协议	按分组百分比	分组	按字节百分比	字节	比特/秒	End Packets	End Bytes	End Bits/s
Frame	100.0	5476	100.0	3682484	721 k	0	0	0
Ethernet	100.0	5476	2.1	76664	15 k	0	0	0
Logical-Link Control	0.7	39	0.1	1950	382	0	0	0
Spanning Tree Protocol	0.7	39	0.0	1638	321	39	1638	321
Internet Protocol Version 4	99.2	5431	2.9	108620	21 k	0	0	0
User Datagram Protocol	25.1	1377	0.3	11016	2159	0	0	0
Teredo IPv6 over UDP tunneling	0.0	1	0.0	40	7	0	0	0
Internet Protocol Version 6	0.0	1	0.0	40	7	1	40	7
Simple Service Discovery Protocol	16.7	913	8.0	294837	57 k	913	294837	57 k
Multicast Domain Name System	7.3	399	4.1	149176	29 k	399	149176	29 k
Link-local Multicast Name Resolution	0.2	12	0.0	320	62	12	320	62
Domain Name System	0.5	26	0.0	1657	324	26	1657	324
Data	0.5	26	0.2	8887	1741	25	8879	1740
VSS-Monitoring ethernet trailer	0.0	1	0.0	2	0	1	2	0
Transmission Control Protocol	72.6	3974	82.0	3021303	592 k	3880	2978314	583 k
Secure Sockets Layer	1.2	67	0.8	30576	5992	65	23814	4667
Malformed Packet	0.0	1	0.0	0	0	1	0	0
Hypertext Transfer Protocol	0.5	28	77.0	2837251	556 k	13	7257	1422
Portable Network Graphics	0.0	1	26.3	966957	189 k	1	967214	189 k
MIME Multipart Media Encapsulation	0.0	2	49.4	1817466	356 k	2	1818355	356 k
Media Type	0.1	4	0.0	1136	222	4	1136	222
Line-based text data	0.1	8	1.9	71390	13 k	8	42218	8274
Internet Control Message Protocol	1.5	80	0.1	3200	627	80	3200	627
Address Resolution Protocol	0.1	6	0.0	168	32	6	168	32

无显示过滤器。

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我们先看看能导出哪些对象：

Wireshark · 导出 · HTTP 对象列表

分组	主机名	内容类型	大小	文件名
272	tools.jb51.net	text/html	25 kB	img_add_info
321	down.verify.stat.xunlei.com	text/plain	7 bytes	stat?appid=1018&ver=2.4.1.12&peerid=0050562
738	up.imgapi.com	text/json	60 bytes	\
900	up.imgapi.com	multipart/form-data	129 kB	\
960	up.imgapi.com	json	511 bytes	\
1018	www.tietuku.com	text/html	17 kB	ddc891b23147ba21
1064	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1119	www.tietuku.com	text/html	11 kB	upload
1247	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1489	up.imgapi.com	text/json	60 bytes	\
3721	up.imgapi.com	multipart/form-data	1688 kB	\
3823	up.imgapi.com	json	505 bytes	\
3879	www.tietuku.com	text/html	17 kB	cf4a99fe55a59b82
3912	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
5227	i2.bvimg.com	image/png	966 kB	fd2f6f3479d1741es.png

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看到这3个链接，去找了一下，发现跟贴图库有关，有用的价值不大

up.imgapi.com

i2.bvimg.com

www.tietuku.com

看到了几个有趣的文件名，追踪流看看：

这两个链接失效了

<http://www.tietuku.com/cf4a99fe55a59b82>

<http://www.tietuku.com/ddc891b23147ba21>

这个需要登录

http://www.tietuku.com/upload

tools.jb51.net --》工具网站

unicode转中文:

\u64cd\u4f5c\u6267\u884c\u6210\u529f ===》操作执行成功

在流6中发现一个upload.png的数据

The screenshot shows a Wireshark interface with a packet capture of a TCP stream. The selected packet (Stream 6) is a multipart form-data request. The visible fields are:

- Content-Disposition: form-data; name="lastModifiedDate"
- 2019/1/174:06:53
- Content-Disposition: form-data; name="size"
- 128086
- Content-Disposition: form-data; name="file"; filename="upload.png"
- Content-Type: image/png

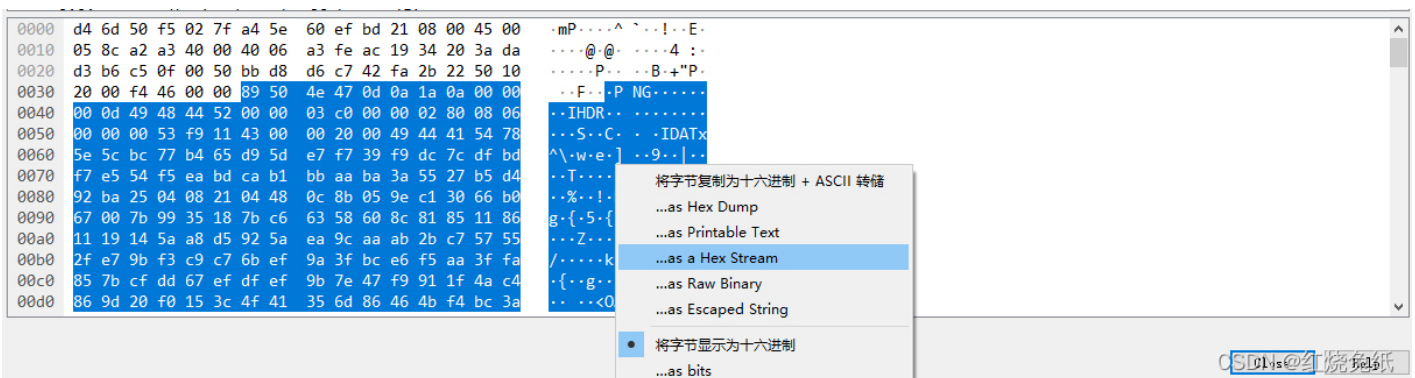
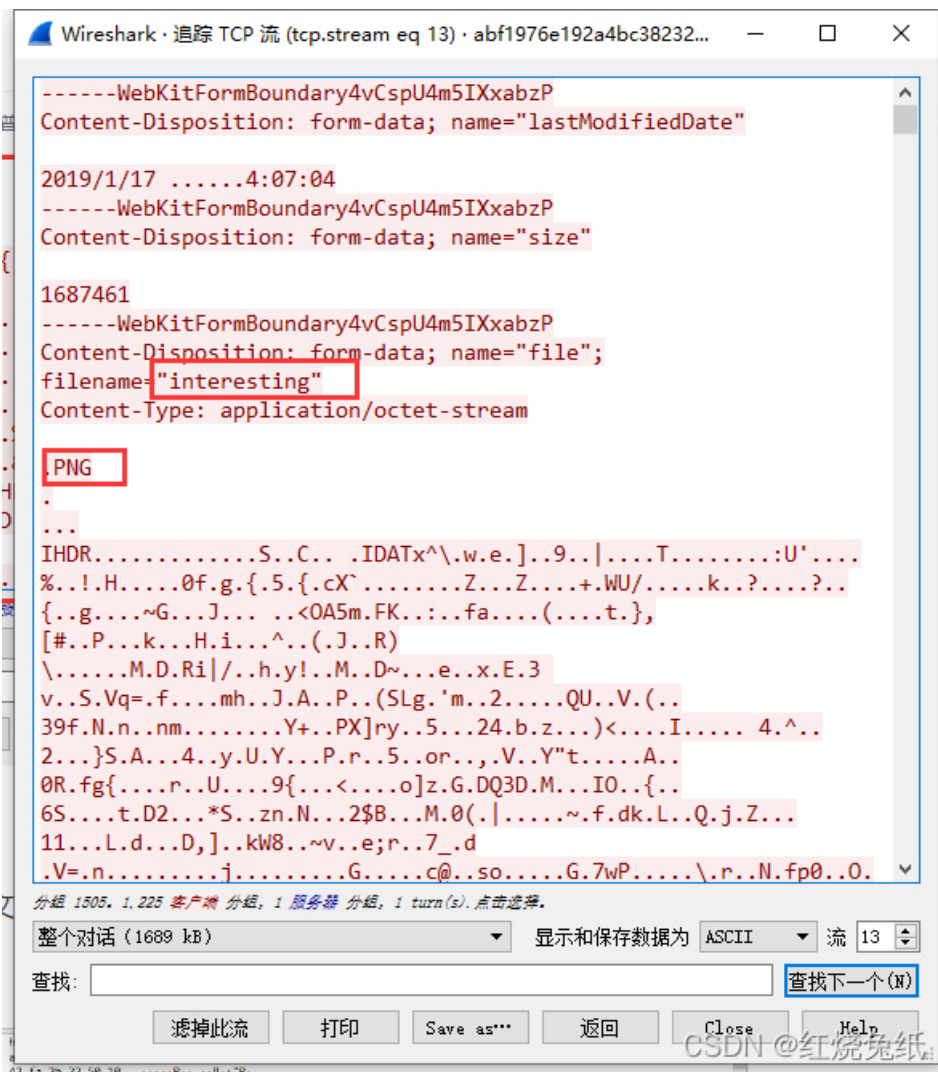
The raw data of the packet is shown in ASCII, with the PNG file header (IHDR) visible. The interface includes a search bar, a 'Find Next' button, and a watermark 'CSDN @ 红烧兔纸'.



发现图片报错，但文件头正确，继续找其信息

又发现一张图片，文件名告诉我们为有趣的:

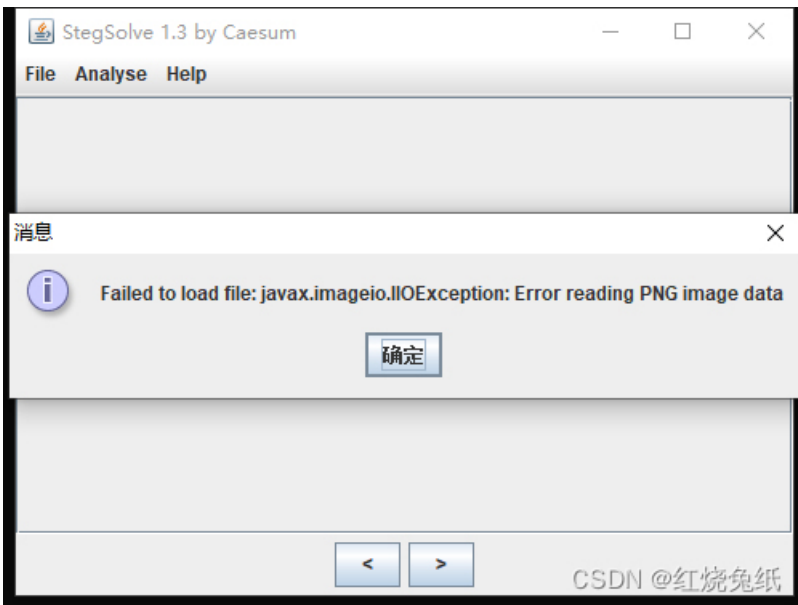
直接搞出来:



结果一张纯白的图片？

使用工具读取，发现报错，但实际上能打开，文件头前两行也都正常，这是为什么？

（笔记：导出的这两张图片数据不全，所以都有问题）



继续搜索其他信息：

总共18个数据流：

两个推片都有问题，试一试修复文件尾：

PNG (png)，

文件头：89504E47

文件尾：AE 42 60 82

特征是：

头：

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	!PNG
00000010	00	00	04	38	00	00	04	87	08	06	00	00	00	07	8C	CD	
00000020	2F	00	00	00	04	67	41	4D	41	00	00	R1	8F	0B	FC	61	

尾：

00	00	00	49	45	4E	44	AE	42	60	82	
----	----	----	----	----	----	----	----	----	----	----	--

这里发现，不是真正的缺少文件头，而是内容太多，分布在不同的tcp中，我们一个一个的导出来这是不明智的，重点在于

把这种直接导，怎么做？

=====

看了下别人的writeup，要导出的这样，在http里找，内容是相当的多

注意：Portable Network Graphics----》便携式网络图形

http

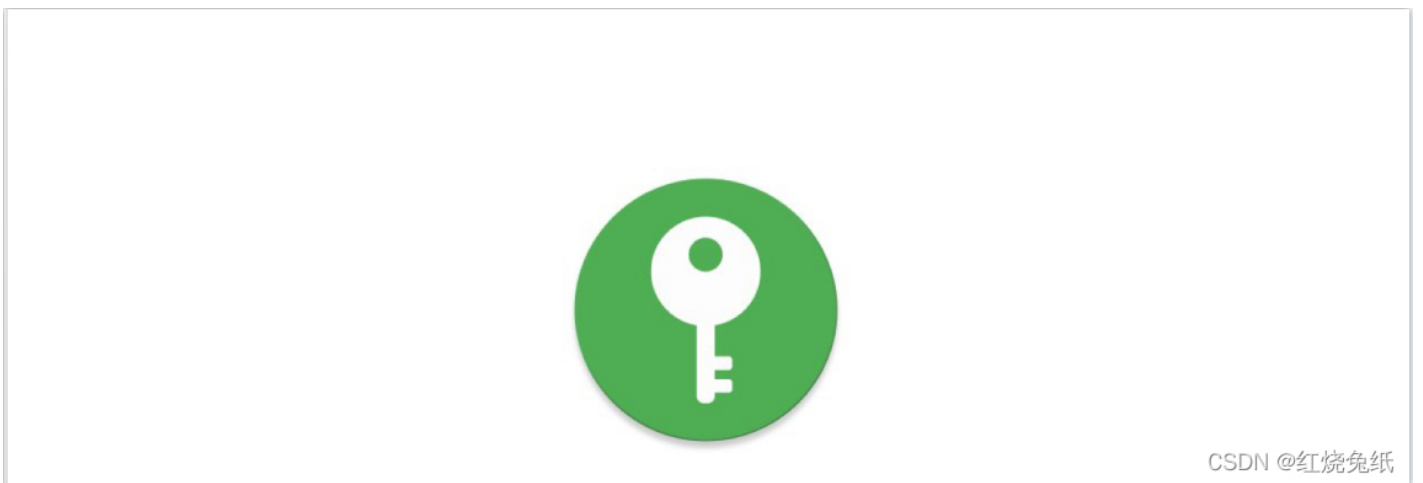
No.	Time	Source	Destination	Protocol	Length	Info
1113	20.225362	172.25.52.32	124.165.219.107	HTTP	891	GET /upload HTTP/1.1
1240	22.061045	172.25.52.32	124.165.219.107	HTTP	891	POST /?c=User&a=getmessnum HTTP/1.1
3869	33.011672	172.25.52.32	124.165.219.107	HTTP	891	GET /cf4a99fe55a59b82 HTTP/1.1
1056	19.293911	172.25.52.32	124.165.219.107	HTTP	901	POST /?c=User&a=getmessnum HTTP/1.1
3903	33.260667	172.25.52.32	124.165.219.107	HTTP	901	POST /?c=User&a=getmessnum HTTP/1.1
1018	19.165516	124.165.219.107	172.25.52.32	HTTP	1151	HTTP/1.1 200 OK (text/html)
3879	33.150944	124.165.219.107	172.25.52.32	HTTP	1156	HTTP/1.1 200 OK (text/html)
3721	30.887691	172.25.52.32	58.218.211.182	HTTP	1213	POST / HTTP/1.1
900	17.579157	172.25.52.32	58.218.211.182	HTTP	1226	POST / HTTP/1.1 (PNG)
5227	34.540501	59.53.95.184	172.25.52.32	HTTP	1280	HTTP/1.1 200 OK (PNG)

Encapsulated multipart part: (image/png)
 Content-Disposition: form-data; name="file"; filename="upload.png"\r\n
 Content-Type: image/png\r\n\r\n
 Portable Network Graphics
 PNG Signature: 89504e470d0a1a0a
 Image Header (IHDR)

```

00000530 69 6d 61 67 65 2f 70 6e 67 0d 0a 0d 0a 89 50 4e image/png g...PNG
00000540 47 0d 0a 1a 0a 00 00 00 0d 49 48 44 52 00 00 06 G.....IHDR...
00000550 40 00 00 02 20 08 06 00 00 00 7b c0 ae 5a 00 00 @... ..{.Z...
00000560 0c 14 69 43 43 50 49 43 43 20 50 72 6f 66 69 6c ..iCCP iC Profil
00000570 65 00 00 48 89 95 57 07 58 53 c9 16 9e 5b 52 08 e..H.W.XS.[R...
00000580 09 2d 10 01 29 a1 37 41 8a 74 e9 bd 08 48 07 1b ---).7A -t...H...
00000590 21 09 49 28 11 12 82 8a 1d 59 54 70 2d a8 58 b0 !I(...YTp-X...
000005a0 a2 ab 20 0a ae 05 90 b5 62 57 16 c1 de 1f 88 a8 .. ..bw.....
000005b0 ac ac 8b 05 2c a8 bc 49 01 5d 5f fb de f9 be b9 ..,.,I_].....
000005c0 f3 e7 cc 39 67 fe 33 f7 dc c9 0c 00 aa f6 ac dc ...9g-3.....
000005d0 dc 6c 54 0d 80 1c 61 be 28 36 c4 9f 99 9c 92 ca -IT...a (6.....
  
```

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http

No.	Time	Source	Destination	Protocol	Length	Info
1113	20.225362	172.25.52.32	124.165.219.107	HTTP	891	GET /upload HTTP/1.1
1240	22.061045	172.25.52.32	124.165.219.107	HTTP	891	POST /?c=User&a=getmessnum HTTP/1.1
3869	33.011672	172.25.52.32	124.165.219.107	HTTP	891	GET /cf4a99fe55a59b82 HTTP/1.1
1056	19.293911	172.25.52.32	124.165.219.107	HTTP	901	POST /?c=User&a=getmessnum HTTP/1.1
3903	33.260667	172.25.52.32	124.165.219.107	HTTP	901	POST /?c=User&a=getmessnum HTTP/1.1
1018	19.165516	124.165.219.107	172.25.52.32	HTTP	1151	HTTP/1.1 200 OK (text/html)
3879	33.150944	124.165.219.107	172.25.52.32	HTTP	1156	HTTP/1.1 200 OK (text/html)
3721	30.887691	172.25.52.32	58.218.211.182	HTTP	1213	POST / HTTP/1.1
900	17.579157	172.25.52.32	58.218.211.182	HTTP	1226	POST / HTTP/1.1 (PNG)
5227	34.540501	59.53.95.184	172.25.52.32	HTTP	1280	HTTP/1.1 200 OK (PNG)

File Data: 966957 bytes
 Portable Network Graphics
 PNG Signature: 89504e470d0a1a0a
 Image Header (IHDR)
 Image data chunk (IDAT)
 Image data chunk (IDAT)

```

000000c0 0d 0a 53 65 72 76 65 72 3a 20 50 61 63 6b 45 6e ..Server : PackEn
000000d0 67 69 6e 65 2f 76 31 2e 31 2d 44 65 76 0d 0a 41 gine/v1.1-Dev-A
000000e0 63 63 65 73 73 2d 43 6f 6e 74 72 6f 6c 2d 41 6c ccess-Co ntrol-AI
000000f0 6c 6f 77 2d 4f 72 69 67 69 6e 3a 20 2a 0d 0a 0d low-Orig in: *...
00000100 0a 89 50 4e 47 0d 0a 1a 0a 00 00 00 0d 49 48 44 .PNG...IHD
00000110 52 00 00 03 20 00 00 02 15 08 02 00 00 00 a6 d2 R... ..
00000120 0c 95 00 00 20 00 49 44 41 54 78 9c 34 da 47 93 ....ID ATx-4-G
00000130 a5 69 62 1d e6 d7 7f fe 7a 97 37 7d 99 2c db d5 .ib.....z-7),...
00000140 dd 55 53 d5 dd 33 3d 06 66 80 06 08 37 03 10 0c .US..3= f...7...
00000150 d0 49 0c 05 42 11 42 90 11 5c 2b b4 d2 42 3f 40 .I..B.B. \+..B?@
00000160 1b 69 21 51 0b 91 41 42 8e 04 25 72 e0 66 38 ae .i!Q..AB ..%r.f8.
  
```

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(笔记: 这个是没有隐藏信息的图片)

然后利用winhex, 直接搞定

upload.png-----》对应的就是那把钥匙

有了钥匙那就需要解密, 怎么解密, 关键还是在分析上

我们追踪流的时候发现了一个tools的工具网站, 访问一下:

No.	Time	Source	Destination	Protocol	Length	Info
281	6.356960	172.25.52.32	110.18.246.11	TCP	54	50436 → 80 [ACK] Seq=104 Ack=25529 Win=262144 Len=0
244	6.274164	110.18.246.11	172.25.52.32	TCP	60	80 → 50436 [ACK] Seq=1 Ack=103 Win=113920 Len=0
280	6.356882	110.18.246.11	172.25.52.32	TCP	60	80 → 50436 [FIN, ACK] Seq=25528 Ack=104 Win=113920 Len=0
241	6.228844	110.18.246.11	172.25.52.32	TCP	66	80 → 50436 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1380 SACK_PERM=1
239	6.183015	172.25.52.32	110.18.246.11	TCP	78	50436 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=32 TSval=97006072
243	6.229096	172.25.52.32	110.18.246.11	HTTP	156	GET /aideddesign/img_add_info HTTP/1.1
262	6.295758	110.18.246.11	172.25.52.32	TCP	234	80 → 50436 [PSH, ACK] Seq=15181 Ack=103 Win=113920 Len=180 [TCP segment
272	6.301156	110.18.246.11	172.25.52.32			
245	6.280224	110.18.246.11	172.25.52.32			
246	6.280229	110.18.246.11	172.25.52.32			
247	6.280230	110.18.246.11	172.25.52.32			

```
GET /aideddesign/img_add_info HTTP/1.1
Host: tools.jb51.net
User-Agent: curl/7.54.0
Accept: */*

HTTP/1.1 200 OK
Date: Thu, 17 Jan 2019 03:02:06 GMT
Content-Type: text/html
Server: Microsoft-IIS/7.5
X-Powered-By: PHP/5.2.17
X-Powered-By: ASP.NET
Content-Length: 25177
Age: 1
X-Via: 1.1 PSzj1sxx4g1230:4 (Cdn Cache Server V2.0), 1.1 PSzqwtxz3xa52:4 (Cdn Cache
```

在线图片添加/解密隐藏信息(隐写术)工具 - 站长辅助工具 - 脚本之家在线工具

在线图片添加/解密隐藏信息(隐写术)工具

这是一款可添加与解密图片隐藏信息的在线工具, 通过该工具, 用户可以向图片中添加文字信息并重新生成图片, 同样对于已经添加隐藏信息的图片也可以解密出之前添加的隐藏信息。提供给需要的朋友免费使用。

Google 提供的广告

发送反馈 为什么显示此广告?

一、生成带隐藏信息的图片

1. 从电脑中选择一张用于加密信息的图片: 未选择任何文件
2. 输入你要隐藏到图片中的文字信息:
3. 输入需要解开信息的密码:

其实这里也给了我们暗示:

Wireshark · 导出 · HTTP 对象列表

分组	主机名	内容类型	大小	文件名
272	tools.jb51.net	text/html	25 kB	img_add_info
321	down.verify.stat.xunlei.com	text/plain	7 bytes	stat?appid=1018&ver=2.4.1.12&peerid=0050562084D31ZA
738	up.imgapi.com	text/json	60 bytes	\
900	up.imgapi.com	multipart/form-data	129 kB	\
960	up.imgapi.com	json	511 bytes	\
1018	www.tietuku.com	text/html	17 kB	ddc891b23147ba21
1064	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1119	www.tietuku.com	text/html	11 kB	upload
1247	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1489	up.imgapi.com	text/json	60 bytes	\
3721	up.imgapi.com	multipart/form-data	1688 kB	\
3823	up.imgapi.com	json	505 bytes	\
3879	www.tietuku.com	text/html	17 kB	cf4a99fe55a59b82
3912	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
5227	i2.bvimg.com	image/png	966 kB	fd2f6f3479d1741es.png

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剩下的就是解密了，但需要密码，我们有一张钥匙的图片却没有密码，这里又很明显的告诉了我们这是隐写术，钥匙的图片高度有点低，关键还向下指着，很明显需要我们调整高度

二、解密带隐藏信息的图片

1. 从电脑中选择一张带有隐藏信息的图片: 未选择任何文件

2. 输入需要解开信息的密码 (如果没有密码可以不填):

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利用winhex处理下png的图片:

interesting.png	微信图片_20210104211208.png	upload.png	未命名.png	up.png	2.png	3.png											
Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
00000000	89	50	4E	47	00	0A	1A	0A	00	00	00	0D	49	48	44	52	■PNG IHDR
00000010	00	00	06	40	00	00	06	40	08	06	00	00	00	7B	C0	AE	@ @ {À@
00000020	5A	00	00	0C	14	69	43	43	50	49	43	43	20	50	72	6F	Z iCCPICC Pro
00000030	66	69	6C	65	00	00	48	89	95	57	07	58	53	C9	16	9E	file HIW XSE
00000040	5B	52	08	09	2D	10	01	29	A1	37	41	8A	74	E9	BD	08	[R -)fAte2



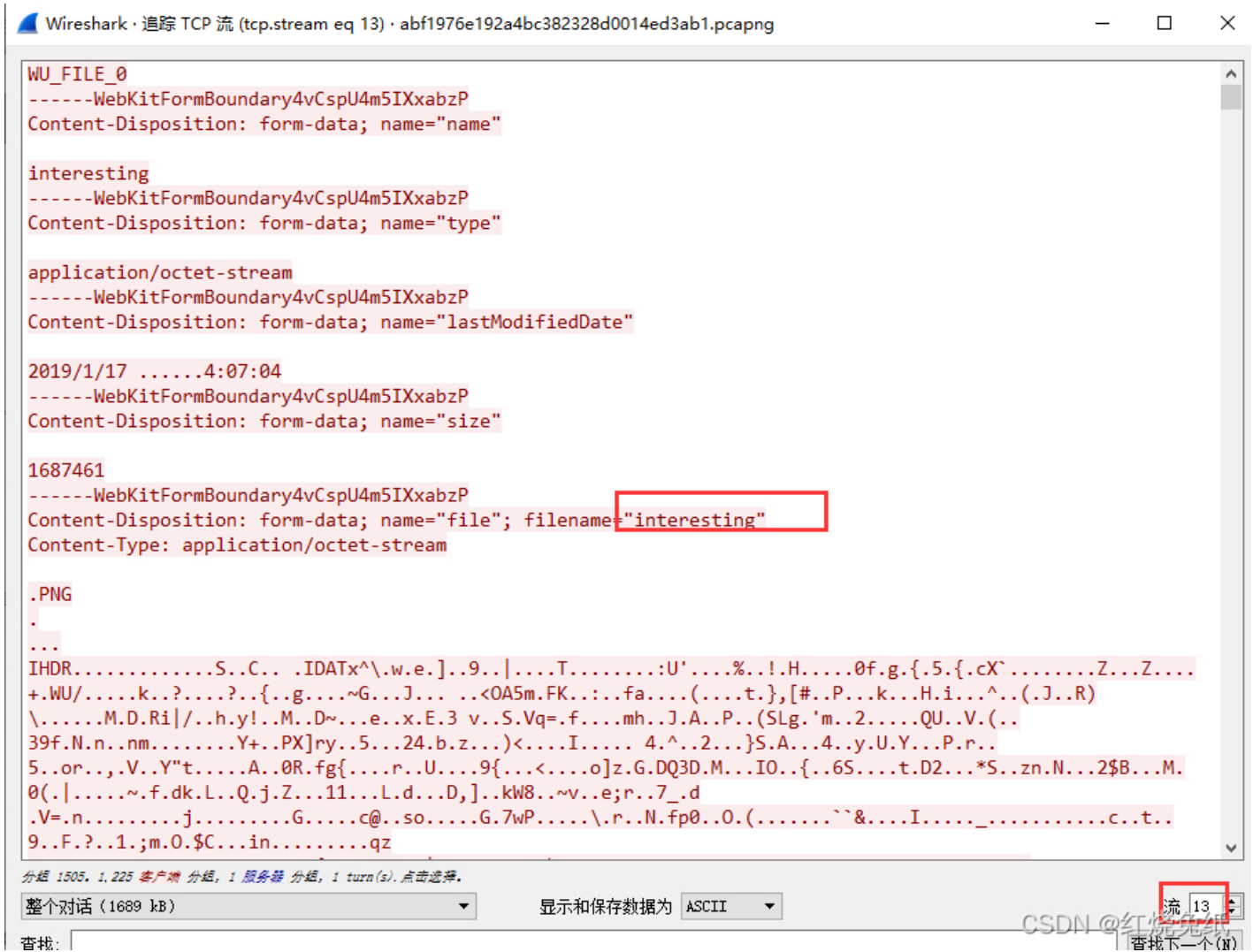
key:57pmYyWt

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key:57pmYyWt

发现解不开，说明在http协议那导出图片还是有点问题的，那个风景画的图片是没有加密的

这里才是我们需要解密图片：



这里的数据很多，是http里的这一个数据：

Wireshark · 导出 · HTTP 对象列表

分组	主机名	内容类型	大小	文件名
272	tools.jb51.net	text/html	25 kB	img_add_info
321	down.verify.stat.xunlei.com	text/plain	7 bytes	stat?appid=1018&ver=2.4.1.12&peerid=1
738	up.imgapi.com	text/json	60 bytes	\
900	up.imgapi.com	multipart/form-data	129 kB	\
960	up.imgapi.com	json	511 bytes	\
1018	www.tietuku.com	text/html	17 kB	ddc891b23147ba21
1064	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1119	www.tietuku.com	text/html	11 kB	upload
1247	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1489	up.imgapi.com	text/json	60 bytes	\
3721	up.imgapi.com	multipart/form-data	1688 kB	\
3823	up.imgapi.com	json	505 bytes	\
3879	www.tietuku.com	text/html	17 kB	cf4a99fe55a59b82
3912	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
5227	i2.bvimg.com	image/png	966 kB	fd2f6f3479d1741es.png

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对比两张的图片大小也能发现不同：



解密:

1. 从电脑中选择一张带有隐藏信息的图片: interset.png

2. 输入需要解开信息的密码 (如果没有密码可以不填):

图片中隐藏的信息为: flag+AHs-
44444354467B5145576F6B63704865556F32574F6642494E37706F6749577346303469526A747D+AH0-

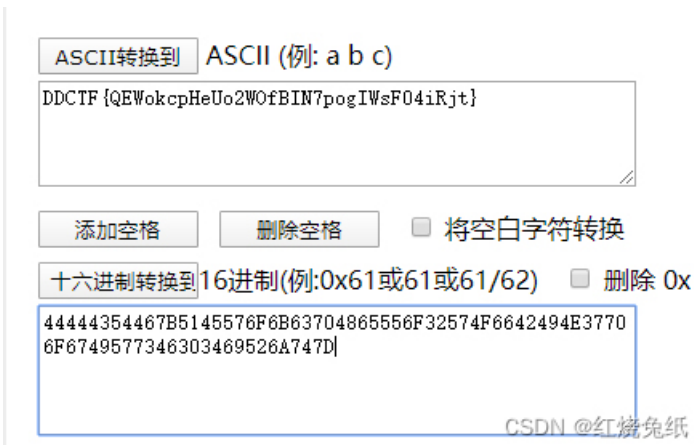
CSDN @红烧兔纸

flag+AHs-

44444354467B5145576F6B63704865556F32574F6642494E37706F6749577346303469526A747D+AH0-

看样子像16进制, 我们转换一下:

[ASCII 在线转换器 -ASCII码-十六进制-二进制-十进制-字符串-ascii查询器](#)



DDCTF{QEWOcpHeUo2WOfBIN7pogIWsF04iRjt}

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总结:

这道题没做出来的主要原因是没有成功的导出图片, 一是对协议不够理解, 而是对wireshark的工具使用还不够熟练, 而且总共就18个流, 分析全都在数据流上, 只要有http协议, 那么重点关注的就是HTTP协议, 分析http只是起点, 重点依旧在于tcp流。有的时候文件头不好找, 可以直接找文件尾, 就比如这道题的文件尾标识

00 00 00 49 45 4E 44 AE 42 60 82

CSDN @红烧兔纸

重点流是6和13

而且在导出http对象时，就能发现：

应用显示过滤器: <Ctrl-F> 表达式: ...

No.	Time	Source	Destination	Protocol	Length	Info
5361	37.928540	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
900	17.579157	172.25.52.32	58.218.211.182	HTTP	1226	POST / HTTP/1.1 (PNG)
510	12.326610	172.25.52.150	224.0.0.251	MDNS	1229	Standard query response 0x0000 PTR 172.20.1.153 2 @ didi\347\232\204Mac

Encapsulated multipart part:
Boundary: \r\n-----WebKitFormBoundary9AgPj4fbEWYiYA4b\r\n

Encapsulated multipart part:
Boundary: \r\n-----WebKitFormBoundary9AgPj4fbEWYiYA4b\r\n

Encapsulated multipart part:
Boundary: \r\n-----WebKitFormBoundary9AgPj4fbEWYiYA4b\r\n

Encapsulated multipart part: (image/png)
Content-Disposition: form-data; name="file"; filename="upload.png"\r\nContent-Type: image/png\r\n\r\n

Portable Network Graphics
PNG Signature: 09504e470001a0a

Image Header (IHDR)

```
00000530 69 6d 61 67 65 2f 70 6e 67 0d 0a 0d 0a 89 50 4e image/png g.....PN
00000540 47 0d 0a 1a 0a 00 00 00 0d 49 48 44 52 00 00 06 G.....IHDR...
00000550 40 00 00 02 20 08 06 00 00 00 7b c0 ae 5a 00 00 @.....{..Z..
00000560 0c 14 69 43 43 50 49 43 43 20 50 72 6f 66 69 6c ..iCCPIC C Profil
00000570 65 00 00 48 89 95 57 07 58 53 c9 16 9e 5b 52 08 e..H..W..XS...[R.
00000580 09 2d 10 01 29 a1 37 41 8a 74 e9 bd 08 48 07 1b ...).7A .t...H..
00000590 21 09 49 28 11 12 82 8a 1d 59 54 70 2d a8 58 b0 !.I(.....YTp..X.
000005a0 a2 ab 20 0a ae 05 90 b5 62 57 16 c1 de 1f 88 a8 .....bW.....
000005b0 ac ac 8b 05 2c a8 bc 49 01 5d 5f fb de f9 be b9 .....I.].....
000005c0 f3 e7 cc 39 67 fe 33 f7 dc c9 0c 00 aa f6 ac dc ...9g.3.....
000005d0 dc 6c 54 0d 80 1c 61 be 28 36 c4 9f 99 9c 92 ca ..IT...a.(6.....
```

Frame (1226 bytes) Reassembled TCP (129473 bytes)

Wireshark · 导出: HTTP 对象列表

分组	主机名	内容类型	大小	文件名
272	tools.jb51.net	text/html	25 kB	img_add_info
321	down.verify.stat.xunlei.com	text/plain	7 bytes	stat?appid=1018&ver=2.4.1.12&peerid=00505620840
738	up.imgapi.com	text/json	60 bytes	\
900	up.imgapi.com	multipart/form-data	129 kB	\
960	up.imgapi.com	json	511 bytes	\
1018	www.tietuku.com	text/html	17 kB	ddc891b23147ba21
1064	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1119	www.tietuku.com	text/html	11 kB	upload
1247	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1489	up.imgapi.com	text/json	60 bytes	\
3721	up.imgapi.com	multipart/form-data	1688 kB	\
3823	up.imgapi.com	json	505 bytes	\
3879	www.tietuku.com	text/html	17 kB	cf4a99fe55a59b82
3912	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
5227	l2.bvimg.com	image/png	966 kB	fd2f6f3479d1741es.png

CSDN @红烧兔纸

应用显示过滤器: <Ctrl-F> 表达式: ...

No.	Time	Source	Destination	Protocol	Length	Info
5361	37.928540	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
900	17.579157	172.25.52.32	58.218.211.182	HTTP	1226	POST / HTTP/1.1 (PNG)
510	12.326610	172.25.52.150	224.0.0.251	MDNS	1229	Standard query response 0x0000 PTR 172.20.1.153 2 @ didi\347\232\204Mac

Frame 900: 1226 bytes on wire (9808 bits), 1226 bytes captured (9808 bits) on interface 0
> Ethernet II, Src: Apple_ef:bd:21 (a4:5e:60:ef:bd:21), Dst: Cisco_f5:02:7f (d4:6d:50:f5:02:7f)
> Internet Protocol Version 4, Src: 172.25.52.32, Dst: 58.218.211.182
> Transmission Control Protocol, Src Port: 50440, Dst Port: 80, Seq: 128302, Ack: 1, Len: 1172
> [95 Reassembled TCP Segments (129473 bytes): #747(444), #748(897), #749(1380), #750(1380), #756(1380), #757(1380), #758(1380), #759(1380), #760(1380), #761(1380), #762(1380), #763(1380), #764(1380), #765(1380), #766(1380), #767(1380), #768(1380), #769(1380), #770(1380), #771(1380), #772(1380), #773(1380), #774(1380), #775(1380), #776(1380), #777(1380), #778(1380), #779(1380), #780(1380), #781(1380), #782(1380), #783(1380), #784(1380), #785(1380), #786(1380), #787(1380), #788(1380), #789(1380), #790(1380), #791(1380), #792(1380), #793(1380), #794(1380), #795(1380), #796(1380), #797(1380), #798(1380), #799(1380), #800(1380), #801(1380), #802(1380), #803(1380), #804(1380), #805(1380), #806(1380), #807(1380), #808(1380), #809(1380), #810(1380), #811(1380), #812(1380), #813(1380), #814(1380), #815(1380), #816(1380), #817(1380), #818(1380), #819(1380), #820(1380), #821(1380), #822(1380), #823(1380), #824(1380), #825(1380), #826(1380), #827(1380), #828(1380), #829(1380), #830(1380), 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#1613(1380), #1614(1380), #1615(1380), #1616(1380), #1617(1380), #1618(1380), #1619(1380), #1620(1380), #1621(1380), #1622(1380), #1623(1380), #1624(1380), #1625(1380), #1626(1380), #1627(1380), #1628(1380), #1629(1380), #1630(1380), #1631

Wireshark capture showing an HTTP 200 OK response for a PNG image. The packet list shows the HTTP response and the application data. The packet bytes pane shows the PNG signature and header. The packet details pane shows the Portable Network Graphics structure.

No.	Time	Source	Destination	Protocol	Length	Info
5227	34.540501	59.53.95.184	172.25.52.32	HTTP	1280	HTTP/1.1 200 OK (PNG)
1191	21.004674	203.208.50.39	172.25.52.32	TLSv1.2	1290	Application Data
14	0.659972	172.25.51.32	224.0.0.251	MDNS	129	
156	4.646407	172.25.51.32	224.0.0.251	MDNS	129	
368	8.641349	172.25.51.32	224.0.0.251	MDNS	129	

File Data: 966957 bytes

Portable Network Graphics

PNG Signature: 89504e470d0a1a0a

Image Header (IHDR)

Image data chunk (IDAT)

Image data chunk (IDAT)

Image data chunk (IDAT)

00000100 0a 89 50 4e 47 0d 0a 1a 0a 00 00 00 0d 49 48 44 ..PNG... ..IHD
 00000110 52 00 00 03 20 00 00 02 15 08 02 00 00 00 a6 d2 R... ..
 00000120 0c 95 00 00 20 00 49 44 41 54 78 9c 34 da 47 93ID ATx.4.G
 00000130 a5 69 62 1d e6 d7 7f fe 7a 97 37 7d 99 2c db d5 .ib....z.7}.,.
 00000140 dd 55 53 d5 dd 33 3d 06 66 80 06 08 37 03 10 0c .US..3- f...7...
 00000150 d0 49 0c 05 42 11 42 90 11 5c 2b b4 d2 42 3f 40 .I..B.B. \+..B?@
 00000160 1b 69 21 51 0b 91 41 42 8e 04 25 72 e0 66 38 ae .iQ..AB ..%r.f8.
 00000170 ed 74 57 57 9f af cc 4a 9f 79 f3 fa 7b 3f ff 7a .tW...J .y..{.z
 00000180 2d 46 3a bf e2 c4 73 0e fc de ef 7b 98 3a 42 40 -F:....s...{.:@
 00000190 6d 49 67 a5 a3 60 36 9b 4f 27 b3 1c 63 47 6a 98 mIg...6. 0'...cGj.
 000001a0 16 85 eb 21 e6 40 c9 71 9a 48 07 7b 69 2a f2 4c ...!.@.q .H. {i*.L

分组	主机名	内容类型	大小	文件名
272	tools.jb51.net	text/html	25 kB	img_add_info
321	down.verify.stat.xunlei.com	text/plain	7 bytes	stat?appid=1018&ver=2.4.1.12&peerid:
738	up.imgapi.com	text/json	60 bytes	\
900	up.imgapi.com	multipart/form-data	129 kB	\
960	up.imgapi.com	json	511 bytes	\
1018	www.tietuku.com	text/html	17 kB	ddc891b23147ba21
1064	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1119	www.tietuku.com	text/html	11 kB	upload
1247	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1489	up.imgapi.com	text/json	60 bytes	\
3721	up.imgapi.com	multipart/form-data	1688 kB	\
3823	up.imgapi.com	json	505 bytes	\
3879	www.tietuku.com	text/html	17 kB	cf4a99fe55a59b82
3912	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
5227	i2.bvimg.com	image/png	966 kB	fd2f6f3479d1741es.png

补充一下:

说明 multipart/form-data 既可以上传文件，也可以上传键值对，它采用了键值对的方式，所以可以上传多个文件。专门提交表单，上传文件用的

Wireshark capture showing an HTTP POST request. The packet list shows the POST request. The packet bytes pane shows the Content-Disposition and Content-Type headers. The packet details pane shows the multipart/form-data structure.

No.	Time	Source	Destination	Protocol	Length	Info
3721	30.887691	172.25.52.32	58.218.211.182	HTTP	1213	POST / HTTP/1.1
3905	33.273502	172.25.52.32	202.108.23.152	TLSv1.2	1217	Application Data
52	1.783025	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
217	5.788445	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
429	9.972350	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
554	13.965357	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
966	17.959505	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
1230	21.952967	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
1418	25.947380	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
3033	29.941129	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT
4494	33.935459	172.25.50.158	224.0.0.251	MDNS	1223	Standard query response 0x0000 TXT, cache flush PTR _raop._tcp.local PT

Content-Disposition: form-data; name="file"; filename="interesting"\r\n

Content-Type: application/octet-stream\r\n\r\n

Data (1687461 bytes)

Data: 89504e470d0a1a0a000000d49484452000003c000000280...

00000550 63 74 65 74 2d 73 74 72 65 61 6d 0d 0a 0d 0a 89 ctet-stream....
 00000560 50 4e 47 0d 0a 1a 0a 00 00 00 0d 49 48 44 52 00 PNG.....IHDR.
 00000570 00 03 c0 00 00 02 80 08 06 00 00 00 53 f9 11 43IDAT x\w.e
 00000580 00 00 20 00 49 44 41 54 78 5e 5c bc 77 b4 65 d9 .ib....z.7}.,.
 00000590 5d e7 f7 39 f9 dc 7c df bd f7 e5 54 f5 ea bd ca]..9..|T...
 000005a0 b1 bb aa ba 3a 55 27 b5 d4 92 ba 25 04 08 21 04 .:..U' .%..!
 000005b0 48 0c 8b 05 9e c1 30 66 b0 67 00 7b 99 35 18 7b H....0f .g. { .5. {
 000005c0 c6 63 58 60 8c 81 85 11 86 11 19 14 5a a8 d5 92 .cX.... ..Z...
 000005d0 5a ea 9c aa ab 2b c7 57 55 2f e7 9b f3 c9 c7 6b Z....+W U/....k
 000005e0 ef 9a 3f bc e6 f5 aa 3f fa 85 7b cf dd 67 ef df .?....? ..{.g..
 000005f0 ef 9b 7e 47 f9 91 1f 4a c4 86 9d 20 f0 15 3c 4f ...G...J ...<0

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3823	up.imgapi.com	json	505 bytes	\
3879	www.tietuku.com	text/html	17 kB	cf4a99fe55a59b82
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738	up.imgapi.com	text/json	60 bytes	\
900	up.imgapi.com	multipart/form-data	129 kB	\ 钥匙图
960	up.imgapi.com	json	511 bytes	\
1018	www.tietuku.com	text/html	17 kB	ddc891b23147ba21
1064	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1119	www.tietuku.com	text/html	11 kB	upload
1247	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
1489	up.imgapi.com	text/json	60 bytes	\
3721	up.imgapi.com	multipart/form-data	1688 kB	\ 隐藏信息的风景画
3823	up.imgapi.com	json	505 bytes	\
3879	www.tietuku.com	text/html	17 kB	cf4a99fe55a59b82
3912	www.tietuku.com	text/html	1 bytes	?c=User&a=getmessnum
5227	i2.bvimg.com	image/png	966 kB	fd2f6f3479d1741es.png 没有信息的风景画

< >

Save Save All Close@红烧兔纸

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