

1-1

php 的精度问题 2016.999999999999=2017 谷歌浏览器输入

?year=2016.99999999999999 访问得到 flag

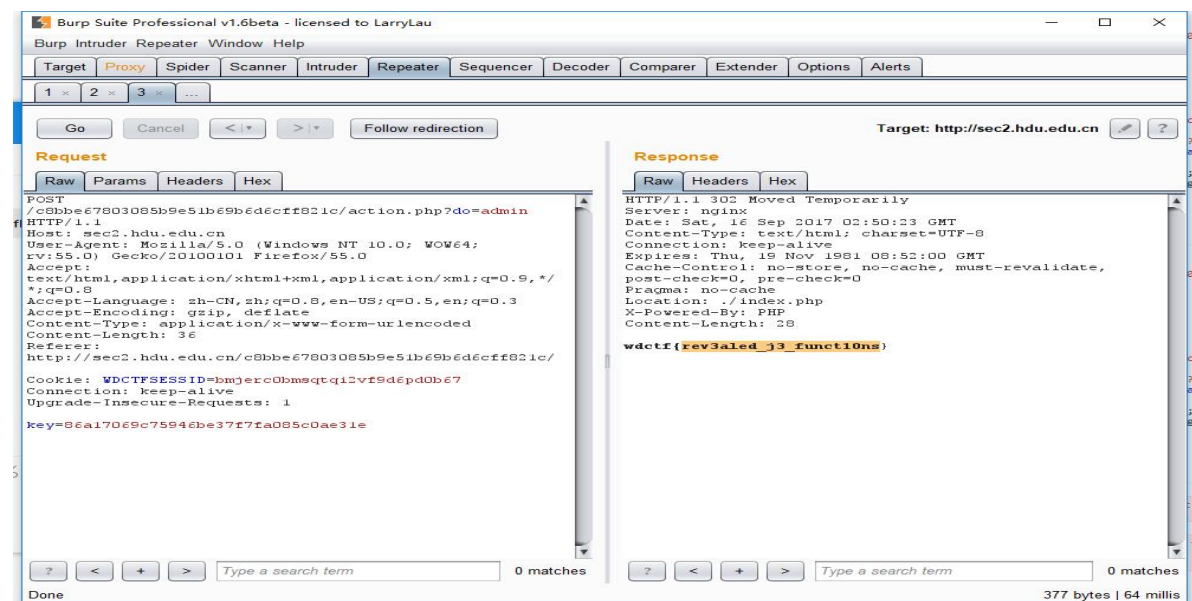
1-2

探测到存在 admin.php, 访问查看源码有一段 js

```
应用 点击这里导入书签。 开始

function getSecret()
{
    key = "86a17069c75946be37f7fa085c0ae31e";
    $.ajax(
    {
        "type": "post",
        "dataType": "json",
        "data": {
            "key": key
        },
        "contentType": "application/x-www-form-urlencoded; charset=utf-8",
        "url": "./action.php?do=admin",
        "success": function(data)
        {
            console.log(data);
            var a = document.getElementsByName("secret")[0];
            a.value=data;
        }
    });
}
```

Post 传入 key 得到 flag



2-1

提示说，账号密码都在博客里，账号为邮箱，那么只有一个 qq 邮箱，密码经过测试，得到是车牌号，登录之后在评论管理里面找到一个评论为 php 链接地址，访问得到 flag

2-2

这道题是一个盲注，注入点在 username，过滤了单引号，空格，发现并没有过滤双引号，而且 username="^1^"时为 username error，username="^0^"时，为 password error，说明是双引号闭合注入，写脚本，跑出密码

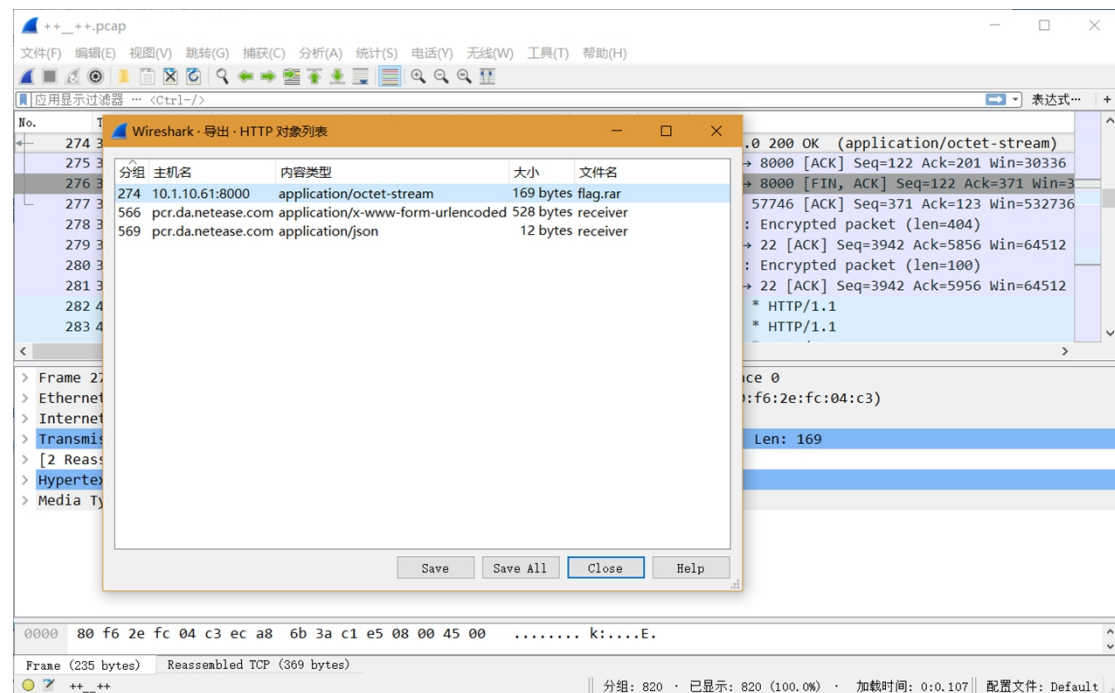
```
===== RESTART: C:\Users\12812\ND
1
1s
1s2
1s2e
1s2ev
1s2evf
1s2evfh
1s2evfh3
1s2evfh34
1s2evfh345
1s2evfh345w
1s2evfh345w$
1s2evfh345w$~
1s2evfh345w$~*
1s2evfh345w$~*2
1s2evfh345w$~*21
1s2evfh345w$~*213
1s2evfh345w$~*213e
1s2evfh345w$~*213eg
1s2evfh345w$~*213eg3
1s2evfh345w$~*213eg3%
ok
>>> |
```

登录发现并没有反应，也不提示 password error，队友说还存在一个 admin.php，访问查看 php 响应头得到 flag

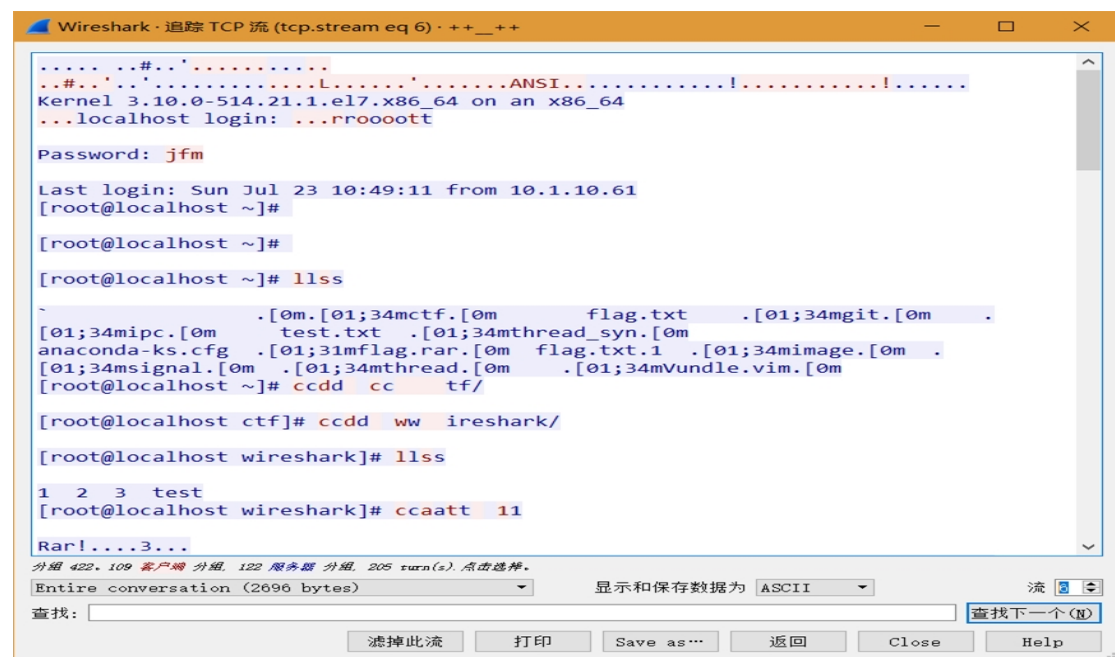
URL	状态	域	大小	远程 IP	时间线
GET admin.php	200 OK	sec2.hdu.edu.cn	93 B	210.32.34.102:80	
头信息 响应 HTML 缓存 Cookies					
响应头信息 原始头信息					
Cache-Control	no-store, no-cache, must-revalidate, post-check=0, pre-check=0				
Connection	keep-alive				
Content-Encoding	gzip				
Content-Type	text/html; charset=UTF-8				
Date	Sun, 17 Sep 2017 02:38:39 GMT				
Expires	Thu, 19 Nov 1981 08:52:00 GMT				
Pragma	no-cache				
Server	nginx				
Set-Cookie	flag=WDFLAG%7Bxx1x11x1x1x1x1x1x%7D				
Transfer-Encoding	chunked				
Vary	Accept-Encoding				
X-Powered-By	PHP				

3-1

附件下载下来一个没有后缀名的 文件，改后缀名 rar，把解压后的文件后缀名改成 pcap，导出 http 对象



flag.rar 需要解压密码，先用工具爆破下密码，没爆破出来，然后开始追踪 tcp 看看有没有一些线索，追踪到第 6 个流时，发现



一些对 flag.rar 进行操作，一共有 1,2,3,test 三个文件，文件 1 是 flag.rar，文

件 2 是一串字符串 19aaFYsQQKr+hVX6hl2smAUQ5a767TsULEUebWSajEo=

文件 3 是一个 aes 加密解密脚本 test 是出题人的 zhunichenggong。猜测，这串字符串就是 flag.rar 解压密码的密文

```
# coding:utf-8
__author__ = 'YFP'
from Crypto import Random
from Crypto.Cipher import AES
import sys
import base64
IV = 'QWERTYUIOPASDFGH'

def decrypt(encrypted):
    aes = AES.new(IV, AES.MODE_CBC, IV)
    return aes.decrypt(encrypted)

def encrypt(message):
    length = 16
    count = len(message)
    padding = length - (count % length)
    message = message + '\0' * padding
    aes = AES.new(IV, AES.MODE_CBC, IV)
    return aes.encrypt(message)

a = '19aaFYsQQKr+hVX6hl2smAUQ5a767TsULEUebWSajEo='
b = base64.b64decode(a)
print(decrypt(b))
```

```
root@kali:~/桌面# python jiami.py
passwd={No One Can Decrypt Me}
```

然后打开 flag.rar 里面就是 flag

3-2

打开链接是一串不规则的字母，直接想到单表替换，

quipquip BETA

quipquip is a fast and automated cryptogram solver by [Edwin Olson](#). It can solve simple substitution ciphers often found in newspapers, including puzzles like cryptoquips (in which word boundaries are preserved) and patristocrats (inwhi chwor dboun danie saren ti).

Puzzle:

Eg qnlyjtcnzydl z umaujejmjetg qeydsn eu z bsjdtx tw sgqtexgc al kdegd mgeju tw yrzejjsoj zns nsyrzqsx kejd qeydsnjsoj
Ew ltm fgtk jds kzl tw sgqtexgc m kerr csj jds wrzc kdegd eu qzruueqar-qeydsn_eu_gtj_usqmmej1_du

Clues: For example G=H QVW=THE

auto Solve

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0 -1.912 In cryptography a smbstittmion cipher is a ?ethod of encoding by which mmts of plaintext are replaced with ciphertext If yom ?now the way of encoding m will get the flag which is classical-cipher_is_not_secmrity_hs

1 -1.980 Is cryptography a mmbntitmtios cipher in a ?ethod of escodisg by which msitn of plaistext are replaced with ciphertext If yom ?sow the way of escodisg m will get the flag which in clannical-cipher_in_sot_necmrity_hn

2 -1.984 Is cryptography a nummtitutios cipher in a ?ethod of escodisg my which usitn of plaistext are replaced with ciphertext If you ?sow the way of escodisg u will get the flag which in clannical-cipher_in_sot_necrurity_hn

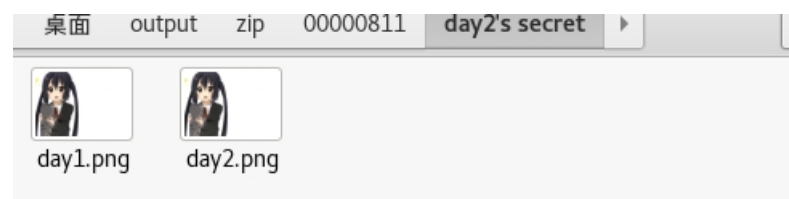
得到 flag

4-1

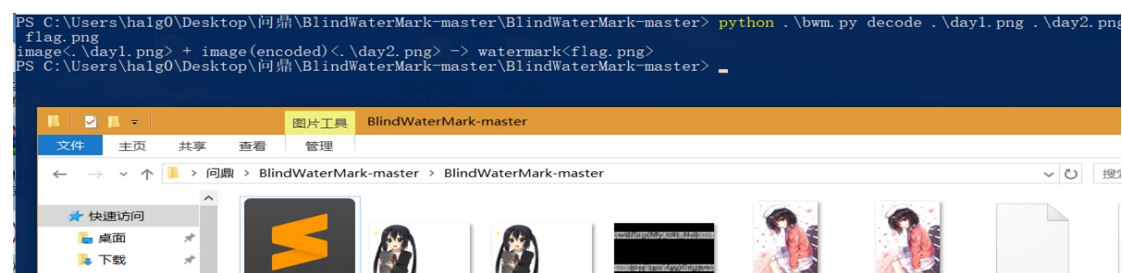
上来就是一张图片，用 binwalk 分析

```
root@kali:~/桌面# binwalk 画风不一样的喵.png
DECIMAL      HEXADECIMAL  DESCRIPTION
-----
0             0x0          PNG image, 487 x 742, 8-bit/color RGBA, non-inter
41            0x29         Zlib compressed data, default compression
415520        0x65720      Zip archive data, at least v2.0 to extract, compr
ssed size: 74, uncompressed size: 78, name: tips.txt
415632        0x65790      Zip archive data, at least v1.0 to extract, compr
ssed size: 659434, uncompressed size: 659434, name: day2's secret.zip
1075091       0x106793     End of Zip archive
1075302       0x106866     End of Zip archive
```

用 foremost 提取出一个 zip



是双图隐写，想到这次国赛时候盲水印隐写，直接用 github 上的脚本尝试下

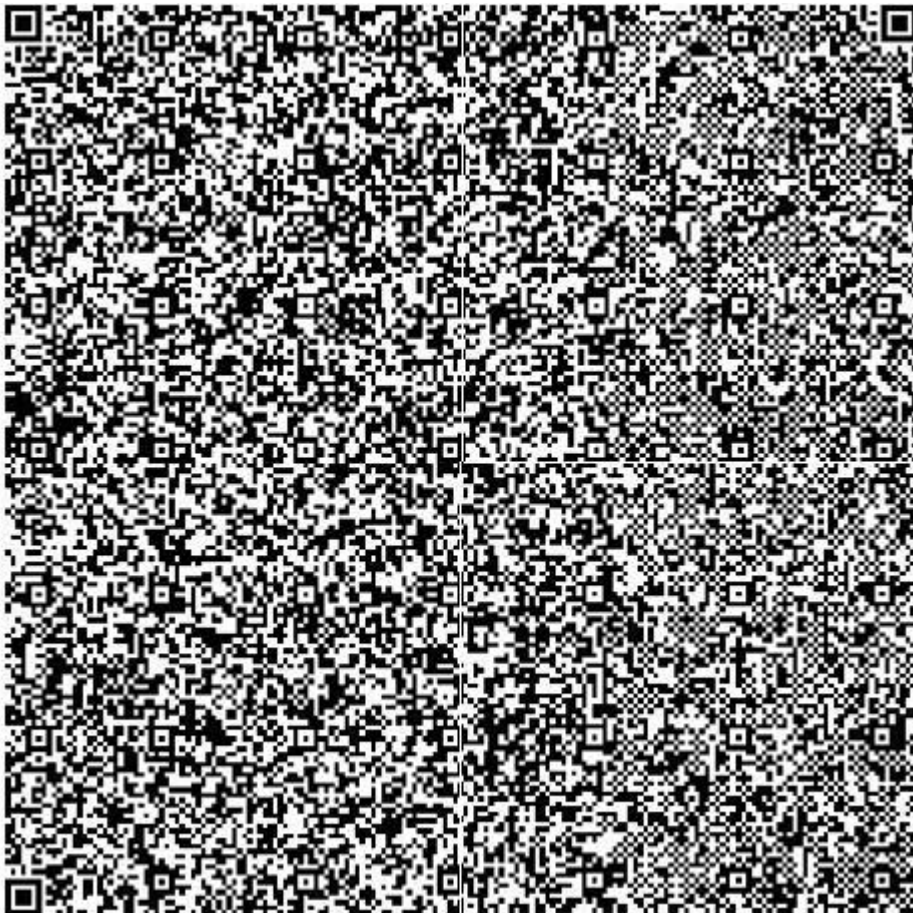


得到 flag

4-2

动图 gif，用 stegsolve 保存每一帧的图片

再用 ps 把图片拼接起来



手机扫不出来，用在线的二维码识别，扫描出来一串 16 进制，

上传二维码解码

选择二维码图片

解析成功

- 图片：jpg、jpeg、gif、png
- 大小：小于2M
- 已整合【QR二维码、一维条码、PDF417、Data Matrix】等类型解码

解析结果

03f30d0ab8c1aa5963000000000000000002000000400
00000732e0000006400006401006c00005a000064020
05a01006403005a02006404008400005a03006405008
400005a040064010053280600000069ffffff4e74030000
00637466733d00000003138362c39382c3138302c31353

重新生成二维码：微微二维码 模板码

然后发现转移过来是 pyc 文件，反编译。然后直接调用函数

```

import random
key = 'ctf'
strr = '186,98,180,154,139,192,114,14,102,168,43,136,52,218,85,100,43'

def func1(str1, key):
    random.seed(key)
    str2 = ''
    for c in str1:
        str2 += str(ord(c) ^ random.randint(0, 255)) + ','
    str2 = str2.strip(',')
    return str2

def func2(str2, key):
    random.seed(key)
    str1 = ''
    for i in str2.split(','):
        i = int(i)
        str1 += chr(i ^ random.randint(0, 255))
    return str1

# print func1(strr,key)
print func2(strr,key)

```

注意在 windows 底下是乱码，必须在 linux 底下

```

root@kali:~/桌面/output/zip/00000811/day2's secret# python a.py
flag{U_r_Greatt!}

```

5-1

拿到题目，cipher，提示就是一个 xor，第一个猜想是这个文件本身异或试试，然后就把文件和逆向输出的两个文件进行了 xor 操作，然后什么都没有发现前后对称嘛，就这么一直 xor 下去看看好了，额。到最后出来个笑脸。好吧，假的套路。

第二个猜想就是 xor 的加密，用 xortool 分析一波试试；



```

The most probable key lengths:
 2: 12.2%
 5: 11.9%
 9: 9.8%
13: 22.2%
20: 6.8%
22: 6.2%
26: 12.8%
30: 4.6%
39: 7.8%
52: 5.7%
Key-length can be 3*n
1 possible key(s) of length 13:
Good\tuckToYou
Found 1 plaintexts with 95.0%+ printable characters
See files filename-key.csv, filename-char_used-perc_printable.csv

```

出来密钥了，一个脚本解解看吧。

```

f = open('cipher','rb')
key = "GoodLuckToYou"

txt = f.read()

flag = ""
for i in range(0,len(txt)):
    flag = flag + chr(ord(txt[i])^ord(key[i%len(key)]))
print flag

```

这就出来了。

The opening line of the novel famously announces: "It is a truth universally acknowledged, that a single man in possession of a good fortune must be in want of a wife." This sets marriage as a central subject and really, a central problem for the novel generally. Readers are poised to question whether or not these single men are, in fact, in want of a wife, or if such desires are dictated by the "neighbourhood" families and their daughters who require a "good fortune". Marriage is a complex social activity that takes political economy, and economy more generally, into account. In the case of Charlotte Lucas, for example, the seeming success of her marriage lies in the comfortable economy of their household, while the relationship between Mr and Mrs Bennet serves to illustrate bad marriages based on an initial attraction and surface over substance (economic and psychological). The Bennets' marriage is one such example that the youngest Bennet, Lydia, will come to re-enact with Wickham, and the results are far from felicitous. wdfilag[You Are Very Smart]The central characters, Elizabeth and Darcy, begin the novel as hostile acquaintances and unlikely friends, they eventually work to understand each other and themselves so that they can marry each other on compatible terms personally, even if their "equal" social status remains fraught. When Elizabeth rejects Darcy's first proposal, the argument of only marrying when one is in love is introduced. Elizabeth only accepts Darcy's proposal when she is certain she loves him and her feelings are reciprocated. Austen's complex sketching of different marriages ultimately allows readers to question what forms of alliance are desirable, especially when it comes to privileging economic, sexual, companionate attraction.