

Web

## 散落的 flag

先注册，点获取验证码后

POST /get\_phone\_num.php HTTP/1.1

Host: 118.25.18.223:10099

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0

Accept: \*/\*

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Referer: http://118.25.18.223:10099/register.php

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

X-Requested-With: XMLHttpRequest

Content-Length: 17

Cookie: PHPSESSID=efd278a1a5d5152299bf7f4ddf8cfac9

Connection: close

phone=13318451598

在 response 里得到验证码

POST /check\_user.php HTTP/1.1

Host: 118.25.18.223:10099

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Referer: http://118.25.18.223:10099/user\_info.php

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

X-Requested-With: XMLHttpRequest

Content-Length: 14

Cookie: PHPSESSID=efd278a1a5d5152299bf7f4ddf8cfac9

Connection: close

username=adooo

HTTP/1.1 200 OK

Server: nginx/1.7.7  
Date: Mon, 26 Feb 2018 13:13:23 GMT  
Content-Type: text/html; charset=UTF-8  
Connection: close  
Vary: Accept-Encoding  
X-Powered-By: PHP/7.0.0  
Content-Length: 28

```
["adooo","hgame{0102940de1"}]
```

把 username 改成 admin 得到中间那段 flag

再修改密码的时候再把 username 改成 admin, 然后登陆 admin 用户得到最后一段 flag

```
hgame{0102940de110c546b2cf6898924acfce}
```

密码学

ezECC

网上脚本拿来改一点点

```
a = 499590297305427
```

```
b = 30115568120981
```

```
M = 1026347883361447
```

```
def add(A,B):
```

```
    if A==(0,0): return B
```

```
    if B==(0,0): return A
```

```
    x1,y1 = A
```

```
    x2,y2 = B
```

```
    if A!=B:
```

```
    p = (y2-y1)*pow(x2-x1,M-2,M)
else:
    p = (3*x1*x1+a)*pow(2*y1,M-2,M)
x3 = p*p-x1-x2
y3 = p*(x1-x3)-y1
return (x3%M,y3%M)
```

```
base = (817367249716330, 483834901818242)
```

```
X = (0,0)
```

```
for i in range(M):
    if i==622849:
        break
    X = add(X, base)
print(X)
```