

端口扫描

```
└─(zsc㉿kali)-[~]
└$ nmap -sT -p- -Pn -sV 192.168.1.3
Starting Nmap 7.95 ( https://nmap.org ) at 2025-12-27 14:05 CST
Nmap scan report for saga.local (192.168.1.3)
Host is up (0.00058s latency).

Not shown: 65523 closed tcp ports (conn-refused)

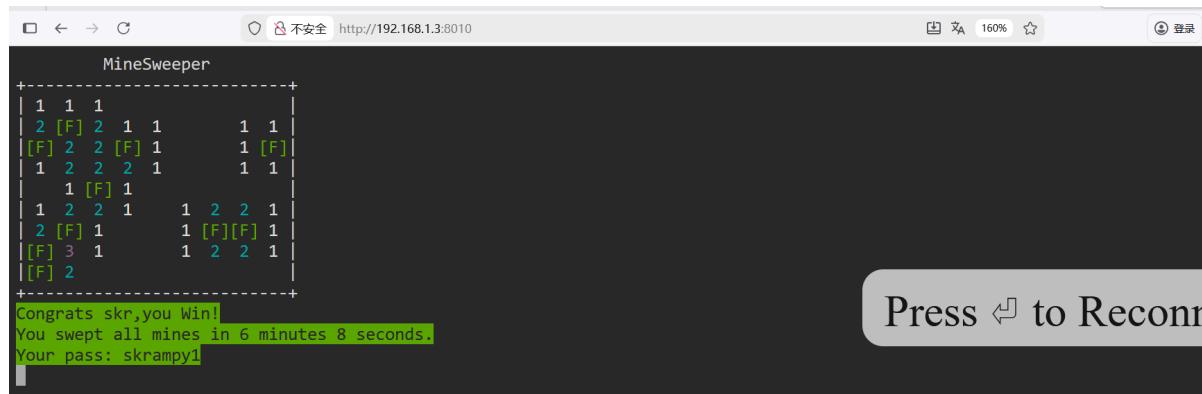
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.4p1 Debian 5+deb11u3 (protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.62 ((Debian))
8001/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8002/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8003/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8004/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8005/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8006/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8007/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8008/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8009/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
8010/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

访问80端口，是一个找随机门的小游戏，也没扫到其他目录。

8001-8010这几个端口都是扫雷小游戏，不过尝试了一下只有8010端口的小游戏可以交互（这个可交互的端口应该是随机的）

玩一玩扫雷小游戏，通关后得到一组凭证：skr:skkrampy1



登录shell，shell环境会自动断开连接，echo \$TMOUT发现设置了5秒超时退出。

解决方法：临时禁用超时：unset TMOUT

```
└─(zsc㉿kali)-[~]
└$ ssh skr@192.168.1.3
skr@192.168.1.3's password:
Linux Gameshell3 4.19.0-27-amd64 #1 SMP Debian 4.19.316-1 (2024-06-25) x86_64
```

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

```
Last login: Fri Dec 26 23:47:33 2025 from 192.168.1.5
skr@Gameshell13:~$ echo $TMOUT
5
skr@Gameshell13:~$ unset TMOUT
skr@Gameshell13:~$ cat /home/skr/user.txt
flag{user-a2a53d2efdda06bc16093ad7b3551709}
```

拿到user flag: flag{user-a2a53d2efdda06bc16093ad7b3551709}

提权

运行linpeas脚本，发现一个磁盘映像文件hidden.img，

```
==== Backup folders
drwxr-xr-x 2 root root 4096 Nov 21 08:59 /var/backups
total 984
-rw-r--r-- 1 root root      51200 Nov 21 06:25 alternatives.tar.0
-rw-r--r-- 1 root root     21525 Aug 15 09:14 apt.extended_states.0
-rw-r--r-- 1 root root     2556 Apr  4 2025 apt.extended_states.1.gz
-rw-r--r-- 1 root root     2006 Apr  1 2025 apt.extended_states.2.gz
-rw-r--r-- 1 root root     1542 Apr  1 2025 apt.extended_states.3.gz
-rw-r--r-- 1 root root      757 Mar 30 2025 apt.extended_states.4.gz
-rw-r--r-- 1 root root      268 Aug 15 09:10 dpkg.diversions.0
-rw-r--r-- 1 root root      172 Apr  1 2025 dpkg.statoverride.0
-rw-r--r-- 1 root root    510149 Aug 15 09:14 dpkg.status.0
-rw----- 1 root root      687 Nov 21 04:54 group.bak
-rw----- 1 root shadow    573 Nov 21 04:54 gshadow.bak
-rw-r--r-- 1 root root  104857600 Nov 21 04:54 hidden.img
-rw----- 1 root root     1383 Nov 21 04:54 passwd.bak
-rw----- 1 root shadow     833 Nov 21 04:54 shadow.bak
```

下载到kali中并挂载到本地

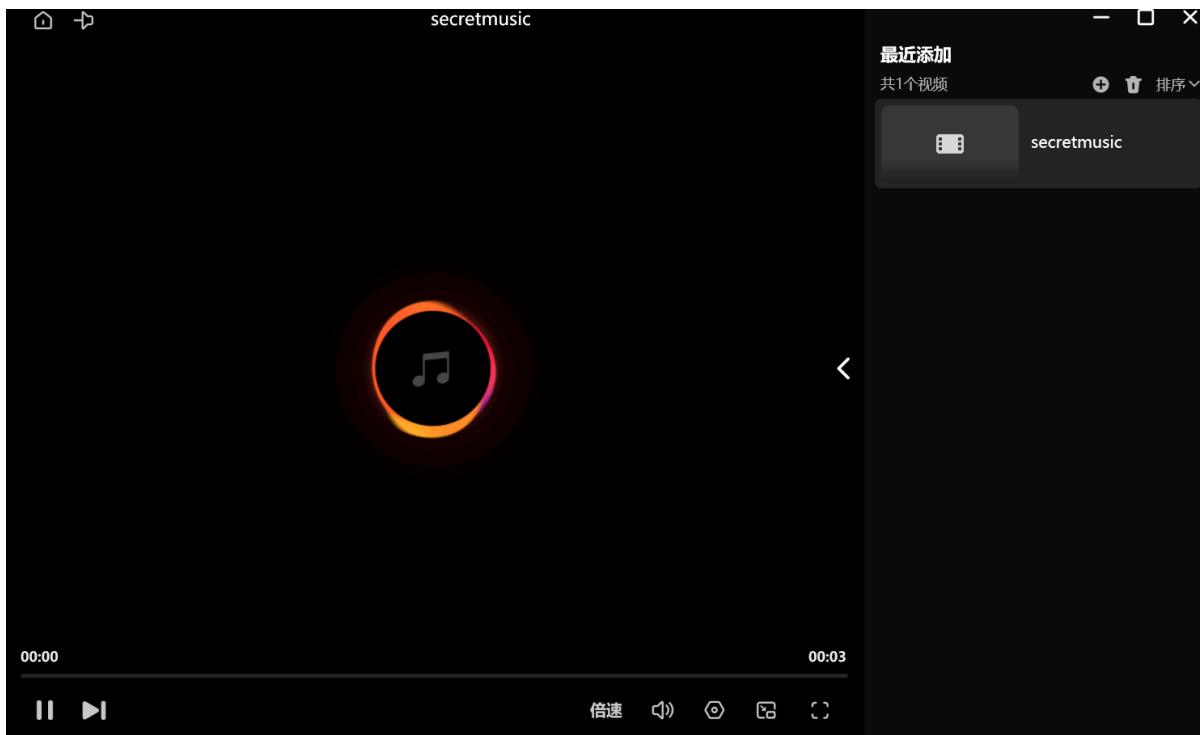
```
—(zsc㉿kali)-[~]
└$ sudo mkdir /mnt/secret
[sudo] zsc 的密码:
# 尝试作为回环设备挂载
—(zsc㉿kali)-[/tmp]
└$ sudo mount -o loop hidden.img /mnt/secret

—(zsc㉿kali)-[/tmp]
└$ cd /mnt/secret

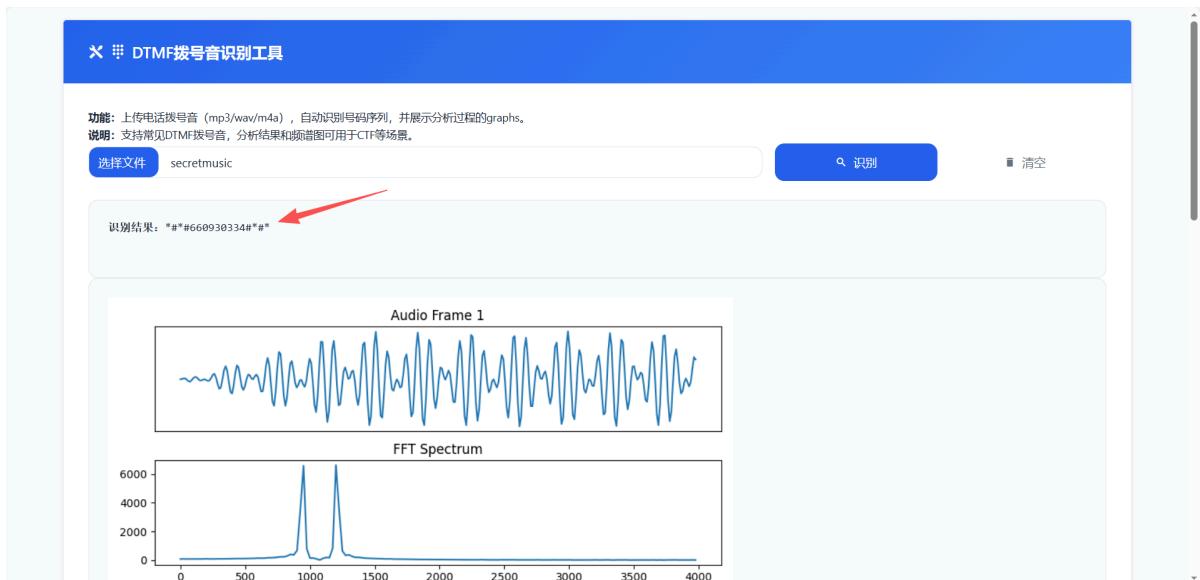
—(zsc㉿kali)-[/mnt/secret]
└$ ls -al
总计 44
drwxr-xr-x 3 root root 1024 11月21日 21:57 .
drwxr-xr-x 3 root root 4096 12月27日 13:30 ..
drwx----- 2 root root 12288 11月21日 21:56 lost+found
-rw-r-xr-x 1 root root 27245 11月21日 21:01 secretmusic
```

将secretmusic下载下来，播放一下是一段3秒的手机拨号音频。这种音频称为双音多频 (DTMF)

大家可以去dcode.fr了解: <https://www.dcode.fr/dtmf-code#f0>



我使用了一个在线的DTMF识别网站：https://tools.qsnctf.com/misc/dtmf_recognize



最终的识别结果为：

```
*#*#660930334#*#*
```

登录root

```
skr@GameShell3:~$ su
Password: *#*#660930334#*#*
root@GameShell3:/home/skr# id
uid=0(root) gid=0(root) groups=0(root)
root@GameShell3:/home/skr# cat /root/root.txt
flag{root-f0cc428ad5cb90aebdfc7aa4e778b2cc}
```