

群友靶机-GameShell3

信息收集

```
(kali㉿kali)-[~/Desktop/maze-sec/gameshell3]
└─$ cat details.nmap
# Nmap 7.98 scan initiated Fri Dec 26 06:27:43 2025 as: /usr/lib/nmap/nmap -
p22,80,8001,8002,8003,8004,8005,8006,8007,8008,8009,8010 -A -oA details 10.0.2.14
Nmap scan report for 10.0.2.14
Host is up (0.00046s latency).

PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.4p1 Debian 5+deb11u3 (protocol 2.0)
| ssh-hostkey:
|   3072 f6:a3:b6:78:c4:62:af:44:bb:1a:a0:0c:08:6b:98:f7 (RSA)
|   256  bb:e8:a2:31:d4:05:a9:c9:31:ff:62:f6:32:84:21:9d (ECDSA)
|_  256  3b:ae:34:64:4f:a5:75:b9:4a:b9:81:f9:89:76:99:eb (ED25519)
80/tcp    open  http      Apache httpd 2.4.62 ((Debian))
|_ http-title: Random Gate - Choose Your Door
|_ http-server-header: Apache/2.4.62 (Debian)
8001/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
|_ http-title: Site doesn't have a title (text/html).
8002/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
|_ http-title: tttyd - Terminal
8003/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-title: tttyd - Terminal
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
8004/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
|_ http-title: tttyd - Terminal
8005/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
|_ http-title: Site doesn't have a title (text/html).
8006/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-title: tttyd - Terminal
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
8007/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-title: Site doesn't have a title (text/html).
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
8008/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-title: Site doesn't have a title (text/html).
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
8009/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ ajp-methods: Failed to get a valid response for the OPTION request
|_ http-title: tttyd - Terminal
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
8010/tcp  open  http      tttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_ http-server-header: tttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
```

|_http-title: ttyd - Terminal

MAC Address: 08:00:27:59:A4:3C (Oracle VirtualBox virtual NIC)

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port

Device type: general purpose

Running: Linux 4.X|5.X

OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5

OS details: Linux 4.15 - 5.19

Network Distance: 1 hop

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

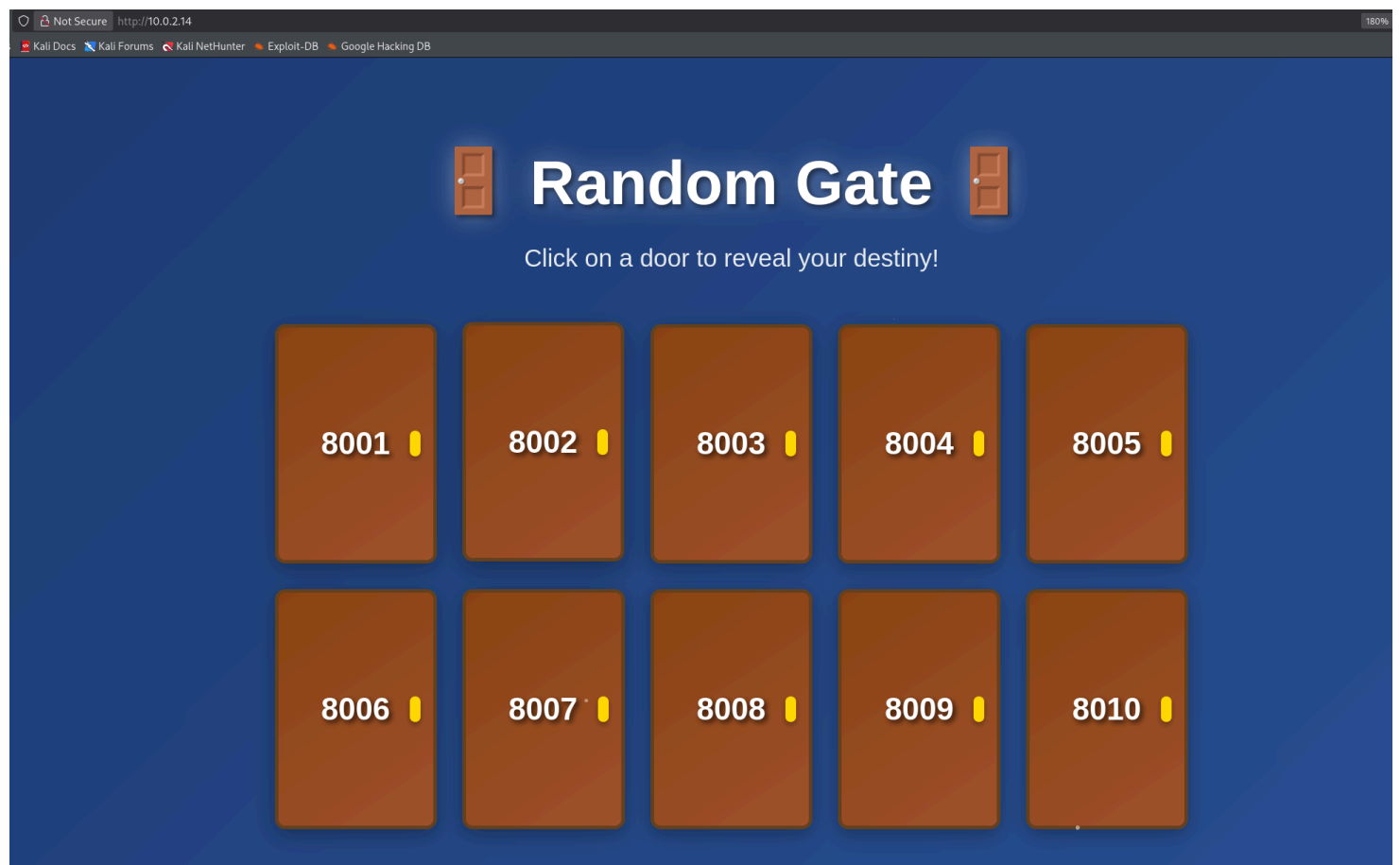
TRACEROUTE

HOP	RTT	ADDRESS
1	0.46 ms	10.0.2.14

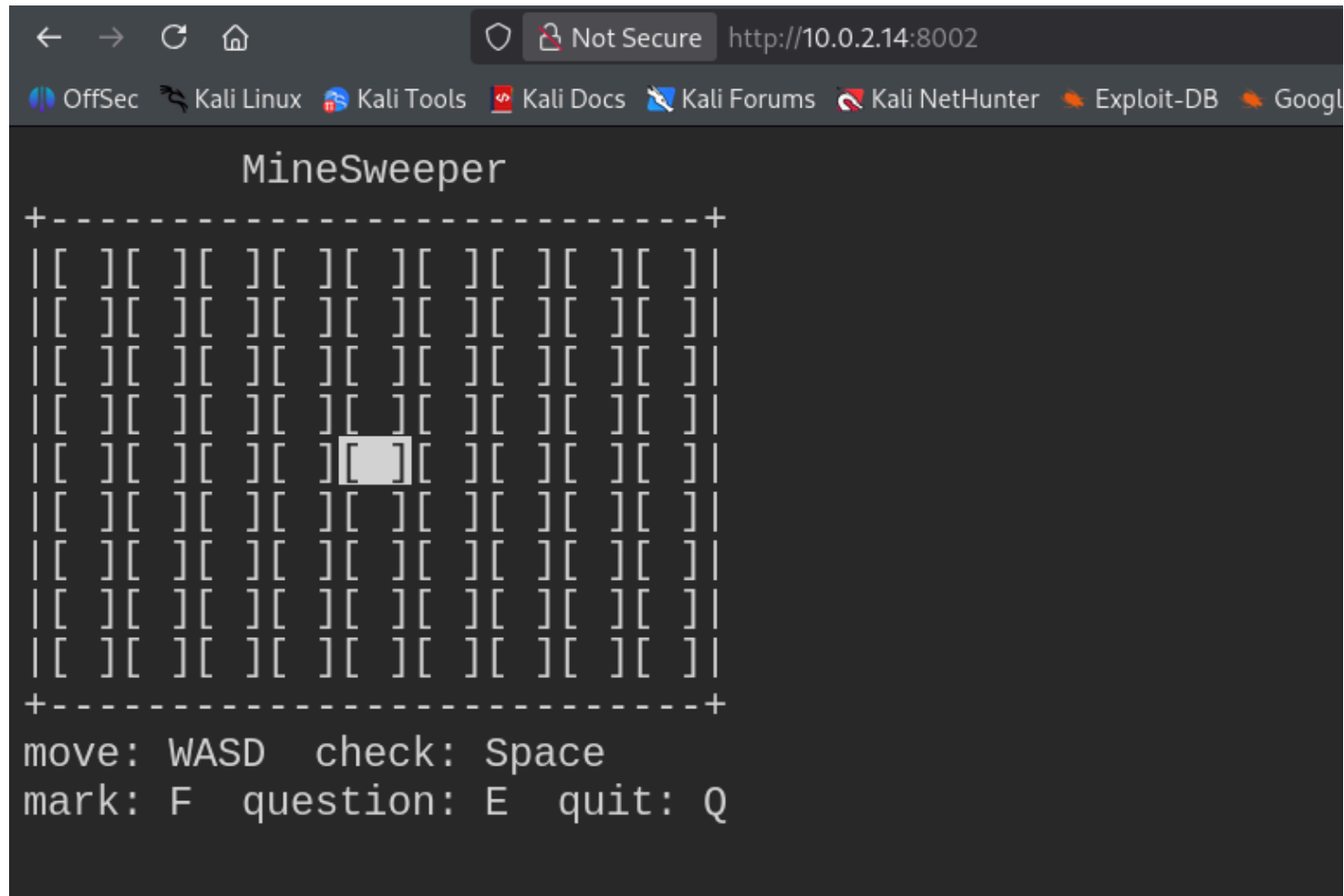
OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.

Nmap done at Fri Dec 26 06:27:54 2025 -- 1 IP address (1 host up) scanned in 11.16 seconds

80端口是一个找门的小游戏 不过没啥东西 结合扫描信息重心应该在和门对应的端口



800X端口都是类似这种的小游戏 不过无法交互



在经历了漫长的尝试后 突然发现某个可以交互了



成功拿下扫雷 并获得一组凭据 skr:skrampy1

```
(venv)-(kali㉿kali)-[~/Desktop/maze-sec/gameshell3/dtmf-decoder]
└─$ ssh skr@10.0.2.14
** WARNING: connection is not using a post-quantum key exchange algorithm.
** This session may be vulnerable to "store now, decrypt later" attacks.
** The server may need to be upgraded. See https://openssh.com/pq.html
skr@10.0.2.14'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 08:26:34 2025 from 10.0.2.3

```
skr@GameShell3:~$ id
uid=1000(skr) gid=1000(skr) groups=1000(skr)
skr@GameShell3:~$ sh
$
```

ssh上去之后经常下线 可以切成sh可以避免

提权

```
$ find / -type f -newermt "2025-11-14" ! -newermt "2025-12-20" ! -path '/proc/*' ! -
path '/sys/*' ! -path '/run/*' -readable 2>/dev/null
/usr/local/bin/start-ttyd.sh
/usr/local/bin/mine.sh
/home/skr/.bashrc
/home/skr/user.txt
/etc/subgid-
/etc/resolv.conf.dhclient-new.12700
/etc/hosts
/etc/subgid
/etc/passwd-
/etc/resolv.conf.dhclient-new.825
/etc/group-
/etc/subuid-
/etc/systemd/system/ttyd.service
/etc/resolv.conf.dhclient-new.499
/etc/subuid
/etc/group
/etc/resolv.conf.dhclient-new.412
/etc/issue
/etc/hostname
/etc/passwd
/var/www/html/index.html
/var/backups/hidden.img
/var/backups/alternatives.tar.0
/var/log/fontconfig.log
```

```

/var/log/apt/eipp.log.xz
/var/log/apt/history.log
/var/log/dpkg.log
/var/log/alternatives.log
/var/log/faillog
/var/log/journal/52a22a6e47cb4a5995fb43c3554baa0e/user-1000@000644184b0dc93d-
06613fd7a9f47a54.journal~
/var/lib/dpkg/info/lsof.list
/var/lib/dpkg/status
/var/lib/dpkg/status-old
/var/lib/apt/extended_states
/var/cache/apt/pkgcache.bin
$ ls -al /var/backups/hidden.img
-rw-r--r-- 1 root root 104857600 Nov 21 04:54 /var/backups/hidden.img

```

翻文件发现了 hidden.img 下载下来挂到本地看看

```

└─(kali㉿kali)-[~/Desktop/maze-sec/gameshell3]
└─$ wget http://10.0.2.14:6666/hidden.img
--2025-12-26 08:34:14-- http://10.0.2.14:6666/hidden.img
Connecting to 10.0.2.14:6666... connected.
HTTP request sent, awaiting response... 200 OK
Length: 104857600 (100M) [application/octet-stream]
Saving to: 'hidden.img'

hidden.img                               100%
[=====>] 100.00M  103MB/s  in 1.0s

2025-12-26 08:34:15 (103 MB/s) - 'hidden.img' saved [104857600/104857600]

└─(kali㉿kali)-[~/Desktop/maze-sec/gameshell3]
└─$ sudo mkdir -p /mnt/hidden_img

[sudo] password for kali:

└─(kali㉿kali)-[~/Desktop/maze-sec/gameshell3]
└─$ sudo mount -o loop hidden.img /mnt/hidden_img

└─(kali㉿kali)-[~/Desktop/maze-sec/gameshell3]
└─$ cd /mnt

└─(kali㉿kali)-[/mnt]
└─$ ls -la
total 9
drwxr-xr-x 3 root root 4096 Dec 26 08:34 .
drwxr-xr-x 19 root root 4096 Dec 24 21:16 ..
drwxr-xr-x 3 root root 1024 Nov 21 08:57 hidden_img

└─(kali㉿kali)-[/mnt]
└─$ cd hidden_img

```

```

└─(kali㉿kali)-[/mnt/hidden_img]
└─$ ls -la
total 44
drwxr-xr-x 3 root root 1024 Nov 21 08:57 .
drwxr-xr-x 3 root root 4096 Dec 26 08:34 ..
drwx----- 2 root root 12288 Nov 21 08:56 lost+found
-rwxr-xr-x 1 root root 27245 Nov 21 08:01 secretmusic

```

发现了 secretmusic 听了一下感觉和打电话的拨号声挺像的

关键词搜索 找到了DTMF

音频隐写汇总

一、电话号码dtmf识别。

题源-moectf2021新生赛。因为比赛没结束，所有音频文件不能放上来。



下载之后是wav音频文件：

直接打开听一下，很容易就能发现他是电话号码那个拨号的声音。实际上这是DTMF。

隐写术

DTMF (Dual Tone Multi Frequency), 双音多频，由高频群和低频群组成，一个高频信号和一个低频信号叠加组成的信号代表一个数字，利用DTMF信号可选择呼叫相应的对讲机

低群/Hz	高群/Hz			
	1209	1336	1477	1633
697	1	2	3	A
770	4	5	6	B
852	7	8	9	C
941	*	0	#	D

CSDN @学不会编程的菜鸟

拉到Adobe Audition里面是下面这个样子。我们可以手动比照上面那个表格得到数字，也可以用dtmf2num.exe自动解码。

github上面找一个高star的工具 [dtmf-decoder](#)

The screenshot shows the GitHub repository page for `riibt/dtmf-decoder`. The repository is public and has 1 branch and 0 tags. The README content is visible, showing the project's purpose: to extract phone numbers from audio recordings of dial tones. The repository has 43 commits, 313 stars, and 48 forks. The contributors list includes ribt, OBITORASU, clemg, and rishitsaiya. The languages section shows Python at 100.0%.

DTMF decoder

(Sorry for my English, I'm not dumb but French. Feel free to make a PR to correct this README.)

Have you always dreamt of finding the phone number dialled by someone in a video? It's possible now! All you have to do is record the audio of the *beeps* and this script will extract the phone number for you from the dial tones.

Installation

```
(venv)-(kali@kali)-[~/Desktop/maze-sec/gameshell3/dtmf-decoder]
└─$ python dtmf.py
usage: dtmf.py [-h] [-v] [-l] [-r] [-d] [-t F] [-i T] file
dtmf.py: error: the following arguments are required: file
```

```
(venv)-(kali@kali)-[~/Desktop/maze-sec/gameshell3/dtmf-decoder]
└─$ python dtmf.py ../secretmusic
***660930334***
```

成功解出密码 `***660930334***`

```
$ su root
Password:
root@GameShell3:/var/backups# id
uid=0(root) gid=0(root) groups=0(root)
```

结束