S11L5

Laboratorio - Utilizzo di Windows PowerShell In questo laboratorio, esploreremo alcune delle funzioni di PowerShell .

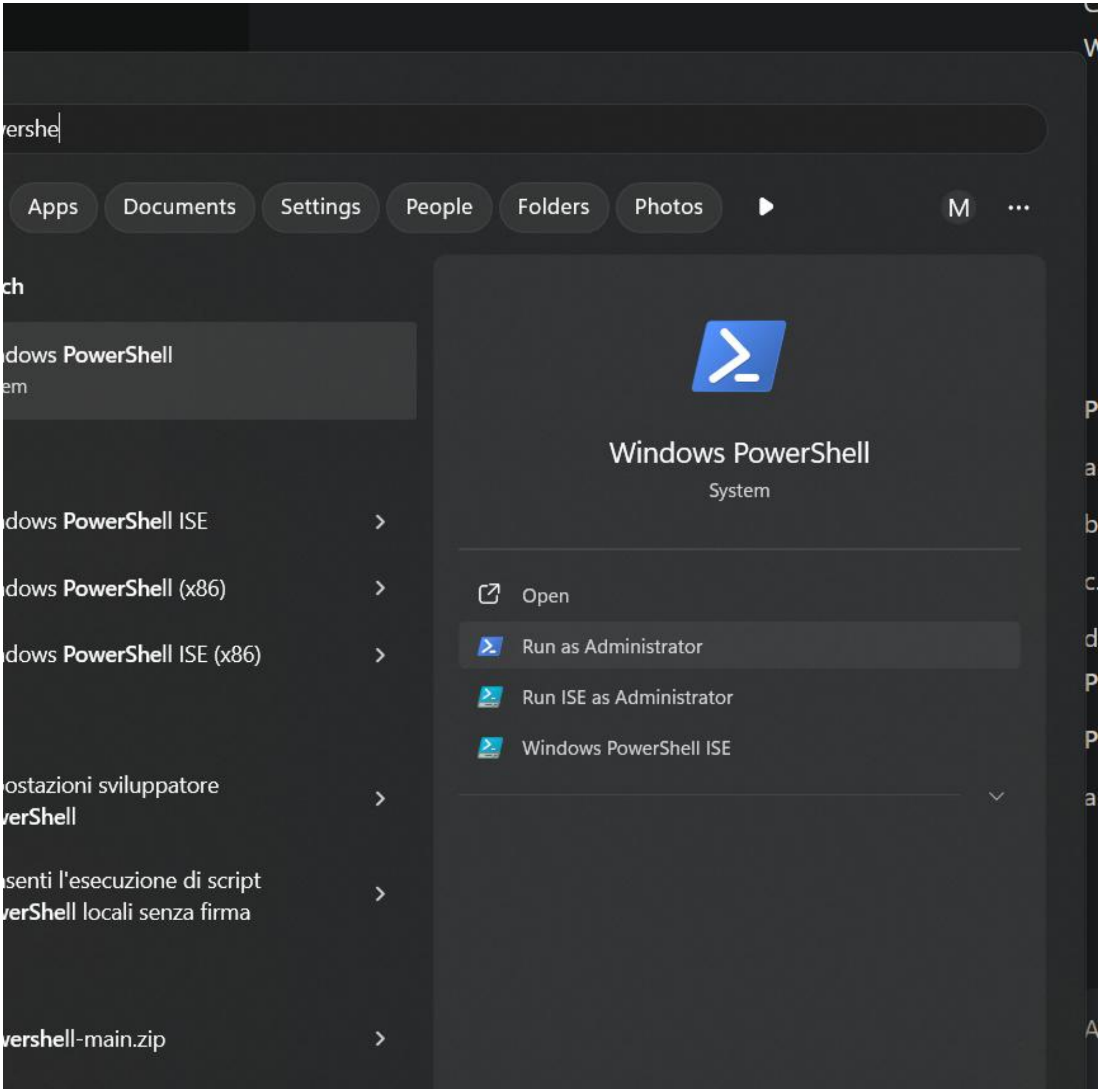
https://itexamanswers.net/3-3-11-lab-using-windows-powershell-answers.html

Introduzione

Questo report documenta l'esecuzione del laboratorio "Utilizzo di Windows PowerShell", suddiviso in cinque parti principali. Lo scopo dell'attività è esplorare i comandi del Prompt dei comandi e di PowerShell, esaminare i cmdlet, utilizzare il comando netstat e gestire il Cestino tramite PowerShell.

Parte 1: Accesso alla console di PowerShell

1. Aperta la console di PowerShell tramite il menu Start.
2. Aperta la console di Prompt dei comandi (cmd) sempre tramite il menu Start.


ershe
Apps
Documents
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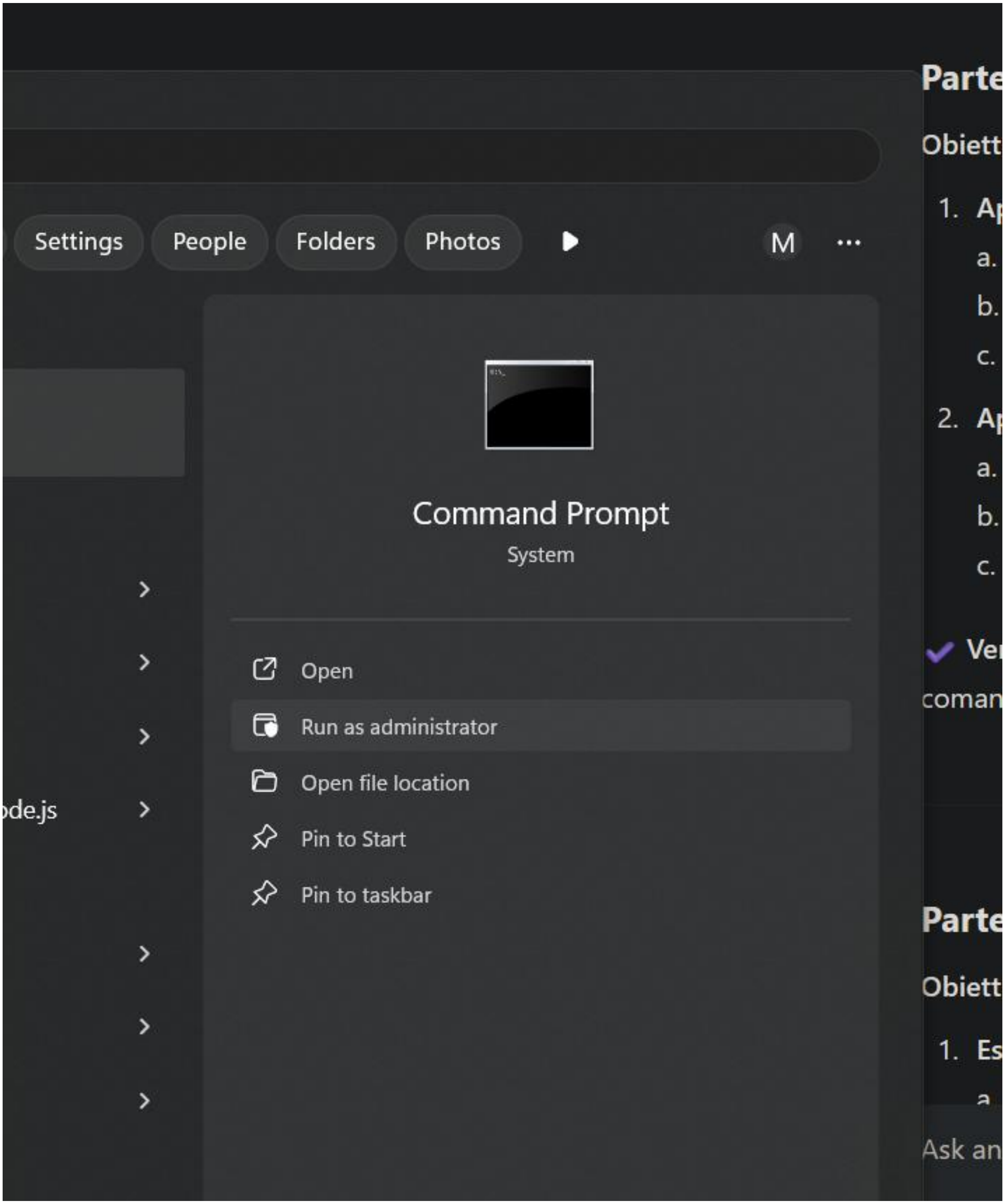
dows PowerShell ISE (x86)
ostazioni sviluppatore
erShell
senti l'esecuzione di script
erShell locali senza firma
ershell-main.zip
Windows PowerShell
System
Open
Run as Administrator
Run ISE as Administrator
Windows PowerShell ISE



Entrambe le console sono state avviate con successo.

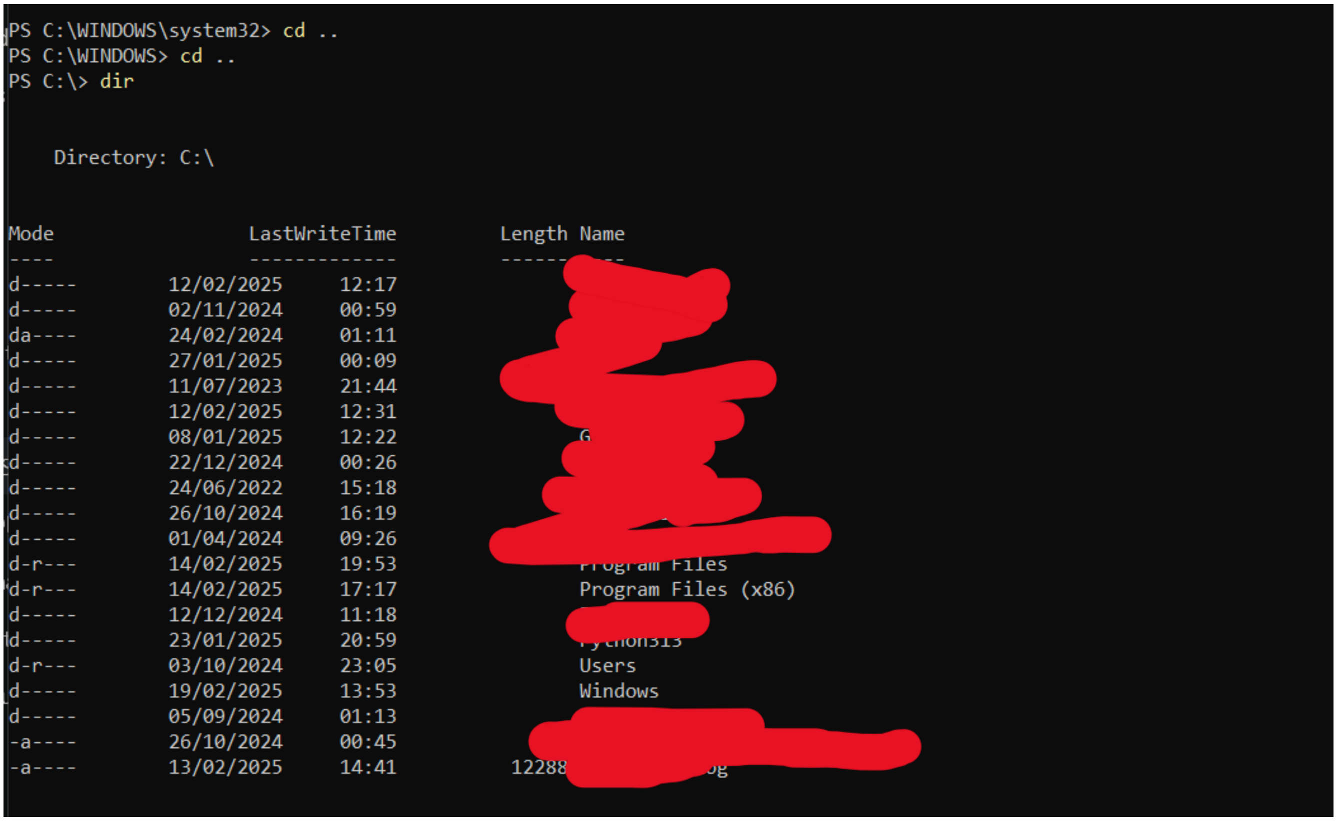
Parte 2: Esplorazione dei comandi del Prompt dei comandi e di PowerShell

Obiettivo

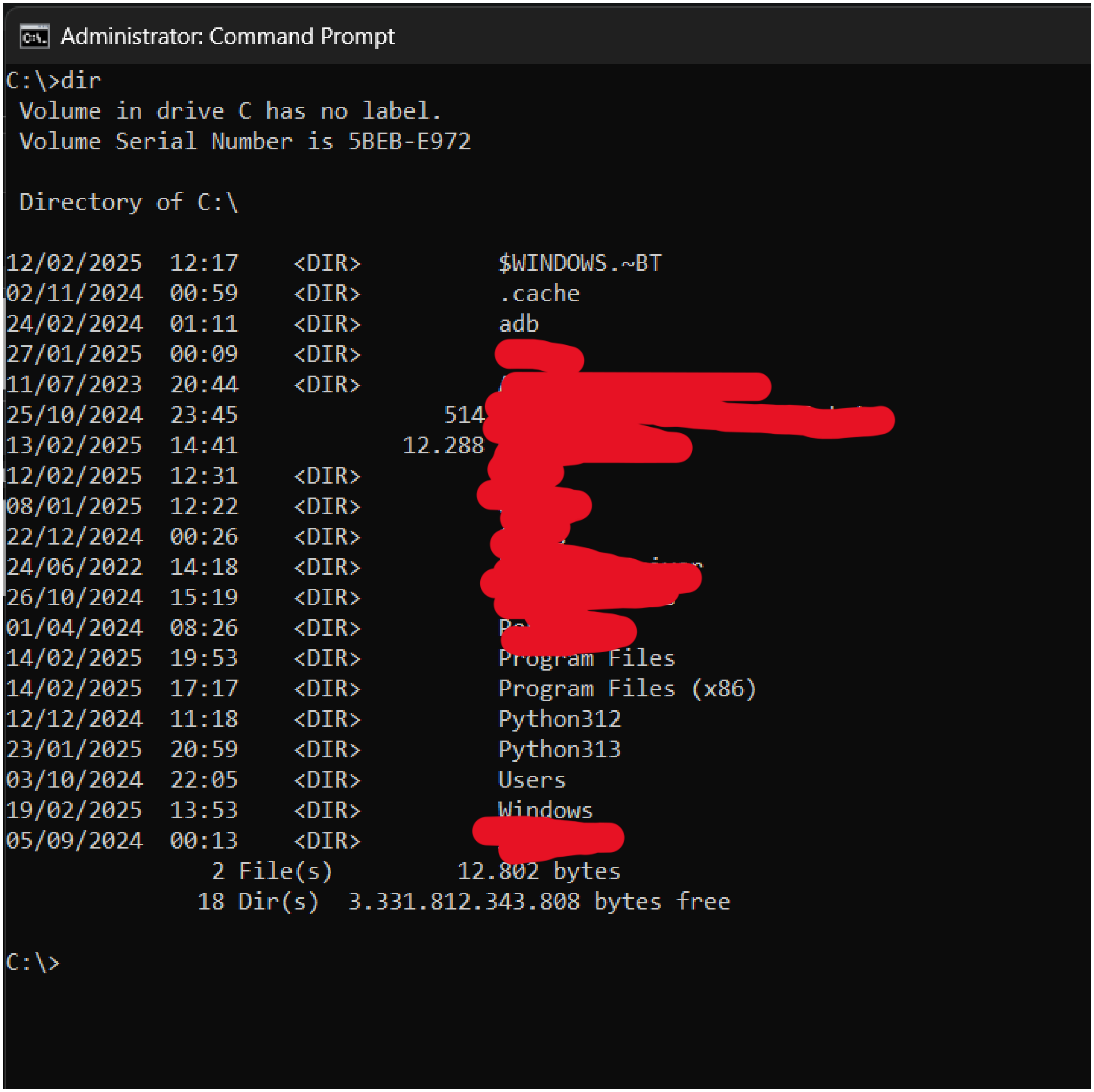
Confrontare i comandi dir, cd, ipconfig tra Prompt dei comandi e PowerShell.

Procedura

1. Eseguito dir in entrambi gli ambienti.
2. Provati comandi comuni (cd .., ipconfig).
3. Osservato che alcuni comandi funzionano in entrambi gli ambienti, mentre PowerShell offre funzioni avanzate.

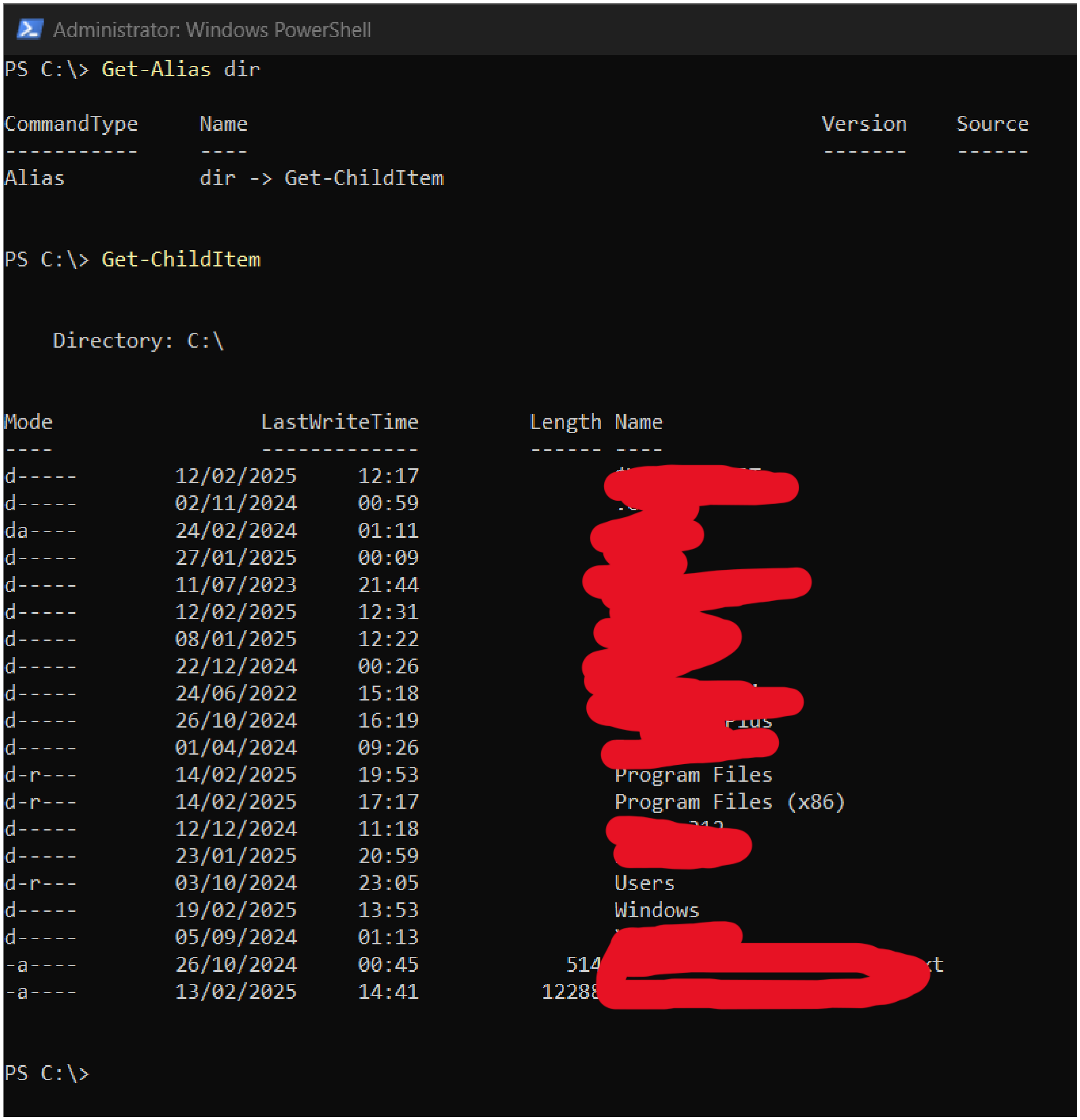


```
PS C:\WINDOWS\system32> cd ..
PS C:\WINDOWS> cd ..
PS C:\> dir


    Directory: C:\


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        12/02/2025     12:17                [redacted]
d-----        02/11/2024     00:59
da----        24/02/2024     01:11
d-----        27/01/2025     00:09
d-----        11/07/2023     21:44
d-----        12/02/2025     12:31
d-----        08/01/2025     12:22
d-----        22/12/2024     00:26
d-----        24/06/2022     15:18
d-----        26/10/2024     16:19
d-----        01/04/2024     09:26
d-r---        14/02/2025     19:53
d-r---        14/02/2025     17:17                Program Files (x86)
d-----        12/12/2024     11:18                [redacted]
d-----        23/01/2025     20:59
d-r---        03/10/2024     23:05                Users
d-----        19/02/2025     13:53                Windows
d-----        05/09/2024     01:13                [redacted]
-a----        26/10/2024     00:45
-a----        13/02/2025     14:41          12288
```

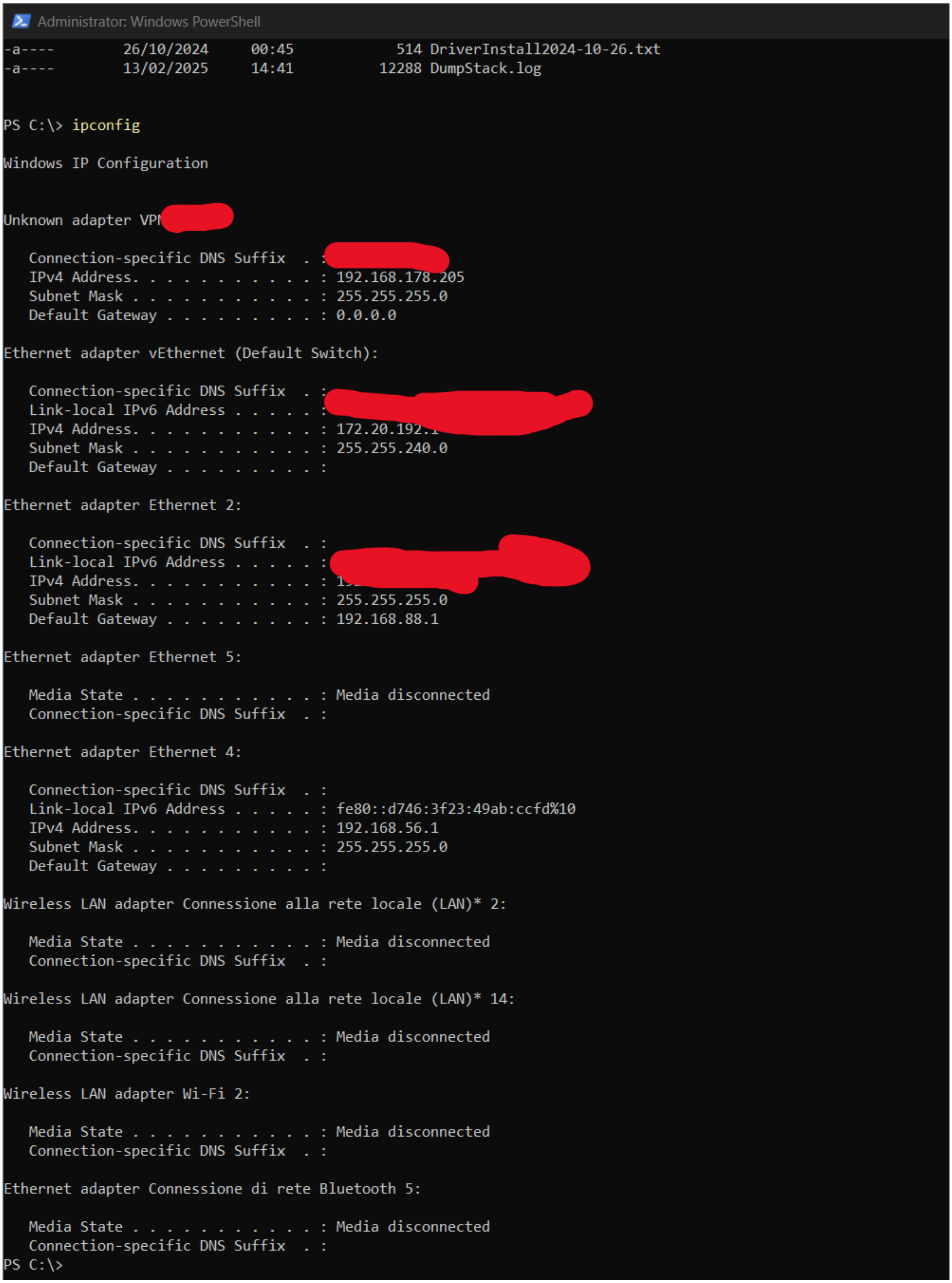


Administrator: Command Prompt

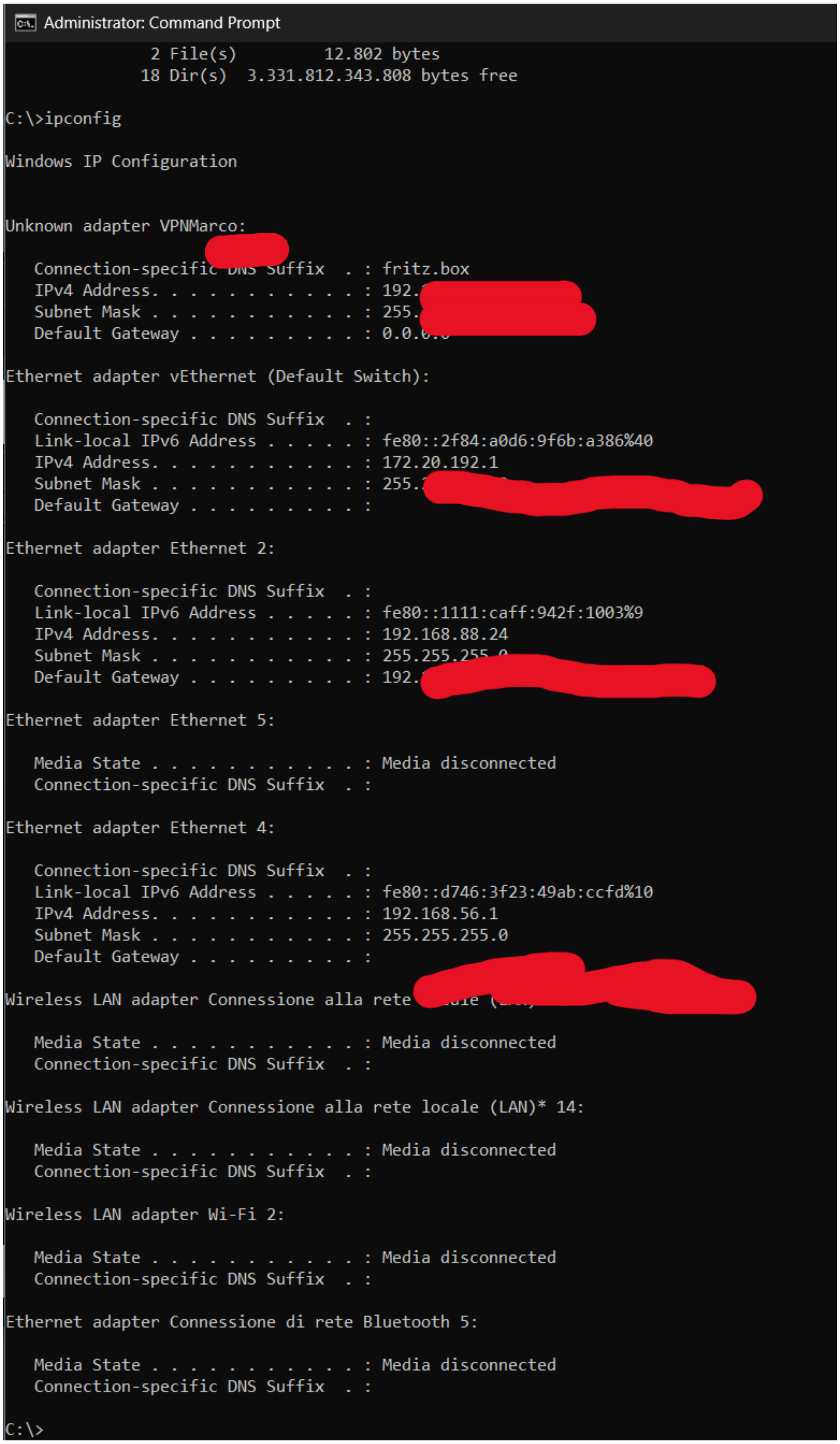
```
C:\>dir
 Volume in drive C has no label.
 Volume Serial Number is 5BEB-E972

 Directory of C:\

12/02/2025  12:17    <DIR>          $WINDOWS.~BT
02/11/2024  00:59    <DIR>          .cache
24/02/2024  01:11    <DIR>          adb
27/01/2025  00:09    <DIR>          [redacted]
11/07/2023  20:44    <DIR>          [redacted]
25/10/2024  23:45               514 [redacted]
13/02/2025  14:41            12.288 [redacted]
12/02/2025  12:31    <DIR>          [redacted]
08/01/2025  12:22    <DIR>          [redacted]
22/12/2024  00:26    <DIR>          [redacted]
24/06/2022  14:18    <DIR>          [redacted]
26/10/2024  15:19    <DIR>          [redacted]
01/04/2024  08:26    <DIR>          [redacted]
14/02/2025  19:53    <DIR>          Program Files
14/02/2025  17:17    <DIR>          Program Files (x86)
12/12/2024  11:18    <DIR>          Python312
23/01/2025  20:59    <DIR>          Python313
03/10/2024  22:05    <DIR>          Users
19/02/2025  13:53    <DIR>          Windows
05/09/2024  00:13    <DIR>          [redacted]
               2 File(s)         12.802 bytes
              18 Dir(s)  3.331.812.343.808 bytes free

C:\>
```



```
PS C:\> Get-Alias dir

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Alias           dir -> Get-ChildItem


PS C:\> Get-ChildItem


    Directory: C:\


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        12/02/2025     12:17                [redacted]
d-----        02/11/2024     00:59
da----        24/02/2024     01:11
d-----        27/01/2025     00:09
d-----        11/07/2023     21:44
d-----        12/02/2025     12:31
d-----        08/01/2025     12:22
d-----        22/12/2024     00:26
d-----        24/06/2022     15:18
d-----        26/10/2024     16:19
d-----        01/04/2024     09:26
d-r---        14/02/2025     19:53                Program Files
d-r---        14/02/2025     17:17                Program Files (x86)
d-----        12/12/2024     11:18                [redacted]
d-----        23/01/2025     20:59
d-r---        03/10/2024     23:05                Users
d-----        19/02/2025     13:53                Windows
d-----        05/09/2024     01:13                [redacted]
-a----        26/10/2024     00:45            514
-a----        13/02/2025     14:41           1228


PS C:\>
```



```
-a----        26/10/2024     00:45            514 DriverInstall2024-10-26.txt
-a----        13/02/2025     14:41          12288 DumpStack.log


PS C:\> ipconfig

Windows IP Configuration


Unknown adapter VP[redacted]

   Connection-specific DNS Suffix  . : [redacted]
   IPv4 Address. . . . . . . . . . . : 192.168.178.205
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 0.0.0.0

Ethernet adapter vEthernet (Default Switch):

   Connection-specific DNS Suffix  . : [redacted]
   Link-local IPv6 Address . . . . . :
   IPv4 Address. . . . . . . . . . . : 172.20.192.
   Subnet Mask . . . . . . . . . . . : 255.255.240.0
   Default Gateway . . . . . . . . . :

Ethernet adapter Ethernet 2:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : [redacted]
   IPv4 Address. . . . . . . . . . . : 
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.88.1

Ethernet adapter Ethernet 5:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet 4:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::d746:3f23:49ab:ccfd%10
   IPv4 Address. . . . . . . . . . . : 192.168.56.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Wireless LAN adapter Connessione alla rete locale (LAN)* 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Connessione alla rete locale (LAN)* 14:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter Connessione di rete Bluetooth 5:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
PS C:\>
```



Administrator: Command Prompt

```
               2 File(s)         12.802 bytes
              18 Dir(s)  3.331.812.343.808 bytes free

C:\>ipconfig

Windows IP Configuration


Unknown adapter VPNMarco:

   Connection-specific [redacted] Suffix  . : fritz.box
   IPv4 Address. . . . . . . . . . . : 192.[redacted]
   Subnet Mask . . . . . . . . . . . : 255.
   Default Gateway . . . . . . . . . : 0.0.0.

Ethernet adapter vEthernet (Default Switch):

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::2f84:a0d6:9f6b:a386%40
   IPv4 Address. . . . . . . . . . . : 172.20.192.1
   Subnet Mask . . . . . . . . . . . : 255.[redacted]
   Default Gateway . . . . . . . . . :

Ethernet adapter Ethernet 2:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::1111:caff:942f:1003%9
   IPv4 Address. . . . . . . . . . . : 192.168.88.24
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.[redacted]

Ethernet adapter Ethernet 5:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet 4:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::d746:3f23:49ab:ccfd%10
   IPv4 Address. . . . . . . . . . . : 192.168.56.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Wireless LAN adapter Connessione alla rete [redacted]

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Connessione alla rete locale (LAN)* 14:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter Connessione di rete Bluetooth 5:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\>
```

Il gateway trovato è il gateway della vpn a cui sono connesso, nascosto per privacy

Parte 3: Esplorazione dei cmdlet

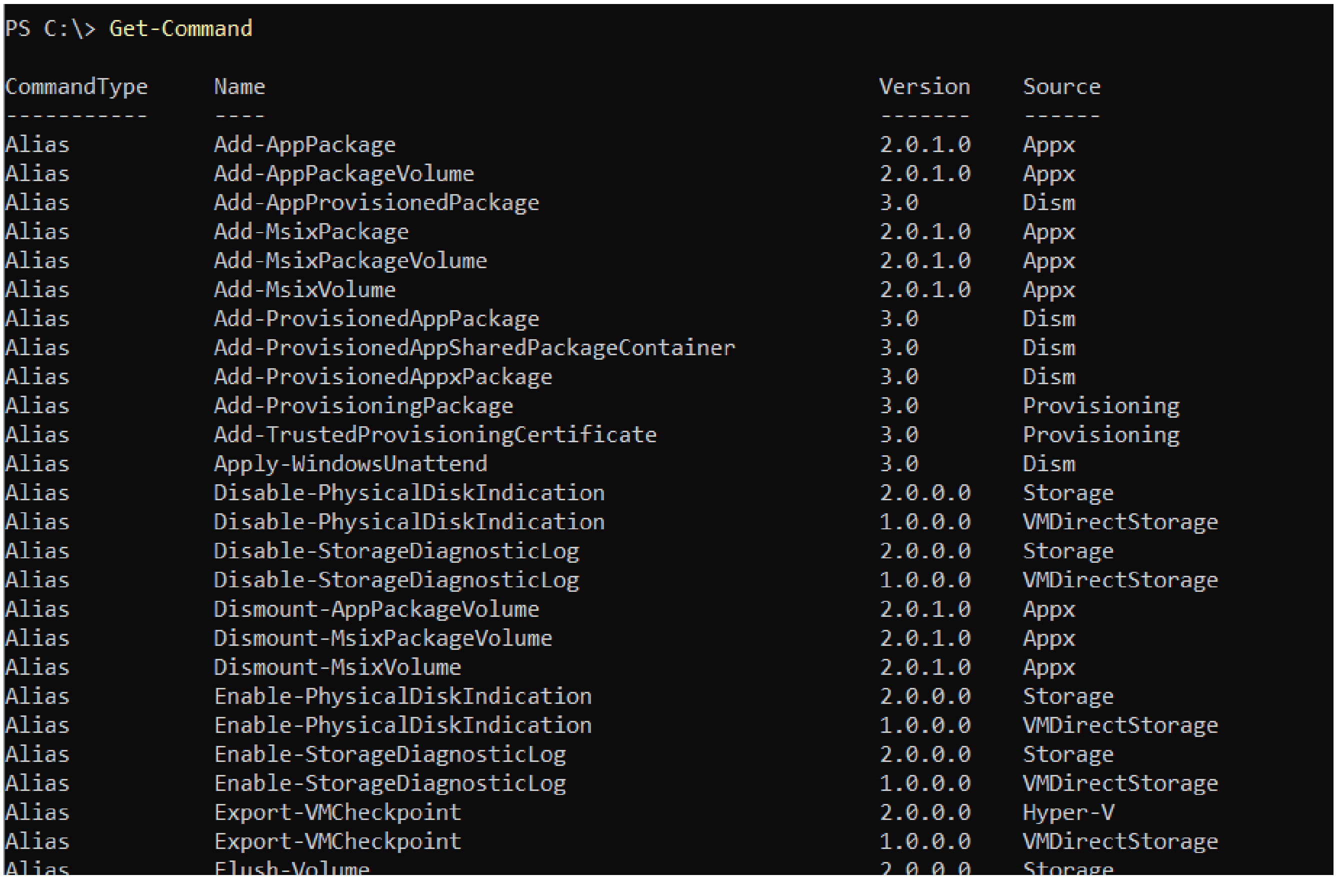
Obiettivo

Esaminare i cmdlet di PowerShell e il loro utilizzo.

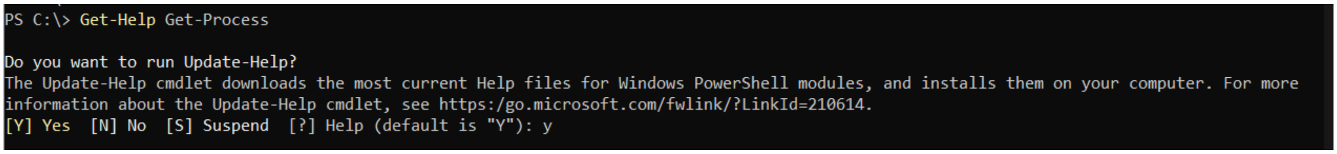
Procedura

1. Scoperto l'alias di dir usando Get-Alias dir.
2. Eseguito Get-ChildItem come alternativa a dir.
3. Utilizzato Get-Command per visualizzare l'elenco dei cmdlet disponibili.
4. Eseguito Get-Help Get-Process per visualizzare informazioni su un cmdlet specifico.

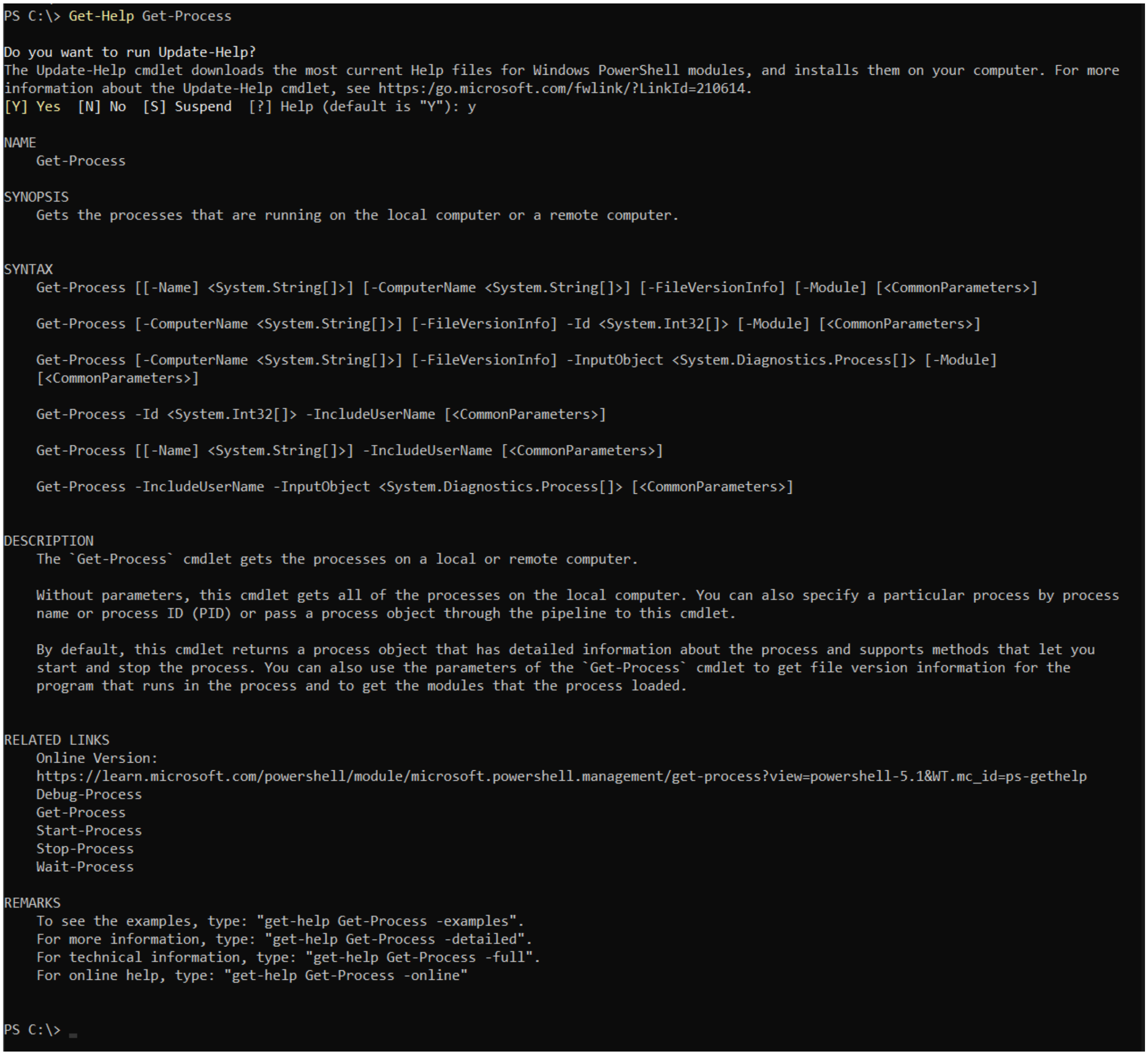
PowerShell fornisce una serie di cmdlet con funzionalità avanzate rispetto al Prompt dei comandi.



```
PS C:\> Get-Command

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Alias           Add-AppPackage                                     2.0.1.0    Appx
Alias           Add-AppPackageVolume                               2.0.1.0    Appx
Alias           Add-AppProvisionedPackage                          3.0        Dism
Alias           Add-MsixPackage                                    2.0.1.0    Appx
Alias           Add-MsixPackageVolume                              2.0.1.0    Appx
Alias           Add-MsixVolume                                     2.0.1.0    Appx
Alias           Add-ProvisionedAppPackage                          3.0        Dism
Alias           Add-ProvisionedAppSharedPackageContainer           3.0        Dism
Alias           Add-ProvisionedAppxPackage                         3.0        Dism
Alias           Add-ProvisioningPackage                            3.0        Provisioning
Alias           Add-TrustedProvisioningCertificate                 3.0        Provisioning
Alias           Apply-WindowsUnattend                              3.0        Dism
Alias           Disable-PhysicalDiskIndication                     2.0.0.0    Storage
Alias           Disable-PhysicalDiskIndication                     1.0.0.0    VMDirectStorage
Alias           Disable-StorageDiagnosticLog                       2.0.0.0    Storage
Alias           Disable-StorageDiagnosticLog                       1.0.0.0    VMDirectStorage
Alias           Dismount-AppPackageVolume                          2.0.1.0    Appx
Alias           Dismount-MsixPackageVolume                         2.0.1.0    Appx
Alias           Dismount-MsixVolume                                2.0.1.0    Appx
Alias           Enable-PhysicalDiskIndication                      2.0.0.0    Storage
Alias           Enable-PhysicalDiskIndication                      1.0.0.0    VMDirectStorage
Alias           Enable-StorageDiagnosticLog                        2.0.0.0    Storage
Alias           Enable-StorageDiagnosticLog                        1.0.0.0    VMDirectStorage
Alias           Export-VMCheckpoint                                2.0.0.0    Hyper-V
Alias           Export-VMCheckpoint                                1.0.0.0    VMDirectStorage
Alias           Flush-Volume                                       2.0.0.0    Storage
```



```
PS C:\> Get-Help Get-Process

Do you want to run Update-Help?
The Update-Help cmdlet downloads the most current Help files for Windows PowerShell modules, and installs them on your computer. For more
information about the Update-Help cmdlet, see https:/go.microsoft.com/fwlink/?LinkId=210614.
[Y] Yes  [N] No  [S] Suspend  [?] Help (default is "Y"): y
```



```
PS C:\> Get-Help Get-Process

Do you want to run Update-Help?
The Update-Help cmdlet downloads the most current Help files for Windows PowerShell modules, and installs them on your computer. For more
information about the Update-Help cmdlet, see https:/go.microsoft.com/fwlink/?LinkId=210614.
[Y] Yes  [N] No  [S] Suspend  [?] Help (default is "Y"): y

NAME
    Get-Process

SYNOPSIS
    Gets the processes that are running on the local computer or a remote computer.


SYNTAX
    Get-Process [[-Name] <System.String[]>] [-ComputerName <System.String[]>] [-FileVersionInfo] [-Module] [<CommonParameters>]

    Get-Process [-ComputerName <System.String[]>] [-FileVersionInfo] -Id <System.Int32[]> [-Module] [<CommonParameters>]

    Get-Process [-ComputerName <System.String[]>] [-FileVersionInfo] -InputObject <System.Diagnostics.Process[]> [-Module]
    [<CommonParameters>]

    Get-Process -Id <System.Int32[]> -IncludeUserName [<CommonParameters>]

    Get-Process [[-Name] <System.String[]>] -IncludeUserName [<CommonParameters>]

    Get-Process -IncludeUserName -InputObject <System.Diagnostics.Process[]> [<CommonParameters>]


DESCRIPTION
    The `Get-Process` cmdlet gets the processes on a local or remote computer.

    Without parameters, this cmdlet gets all of the processes on the local computer. You can also specify a particular process by process
    name or process ID (PID) or pass a process object through the pipeline to this cmdlet.

    By default, this cmdlet returns a process object that has detailed information about the process and supports methods that let you
    start and stop the process. You can also use the parameters of the `Get-Process` cmdlet to get file version information for the
    program that runs in the process and to get the modules that the process loaded.


RELATED LINKS
    Online Version:
    https://learn.microsoft.com/powershell/module/microsoft.powershell.management/get-process?view=powershell-5.1&WT.mc_id=ps-gethelp
    Debug-Process
    Get-Process
    Start-Process
    Stop-Process
    Wait-Process

REMARKS
    To see the examples, type: "get-help Get-Process -examples".
    For more information, type: "get-help Get-Process -detailed".
    For technical information, type: "get-help Get-Process -full".
    For online help, type: "get-help Get-Process -online"


PS C:\> _
```

- dir: fornisce un output simile in entrambi gli ambienti.
- ipconfig: funziona correttamente in PowerShell e cmd.
- Alcuni comandi hanno alias in PowerShell.

Parte 4: Esplorazione del comando netstat utilizzando PowerShell

Obiettivo

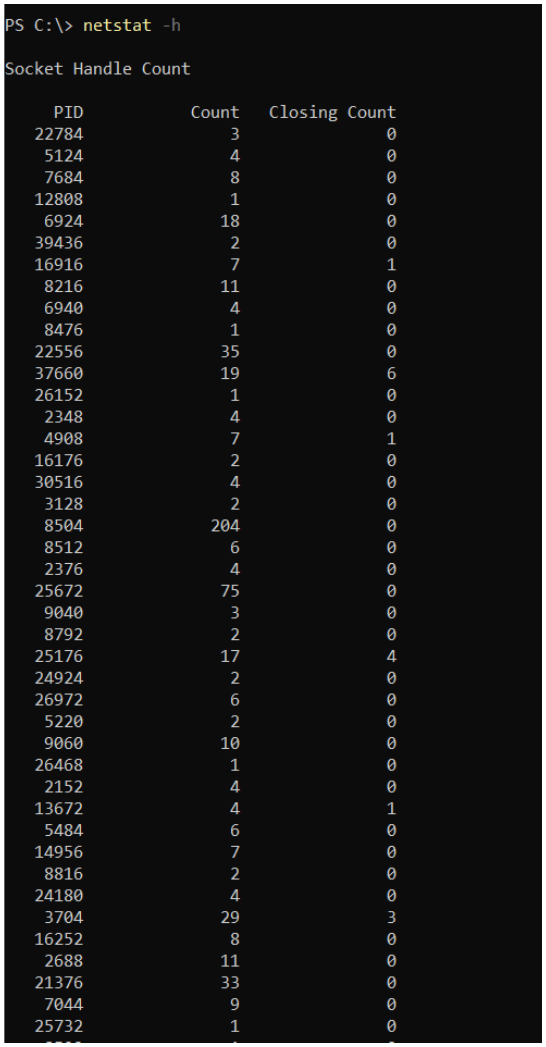
Utilizzare netstat per monitorare le connessioni di rete.

Procedura

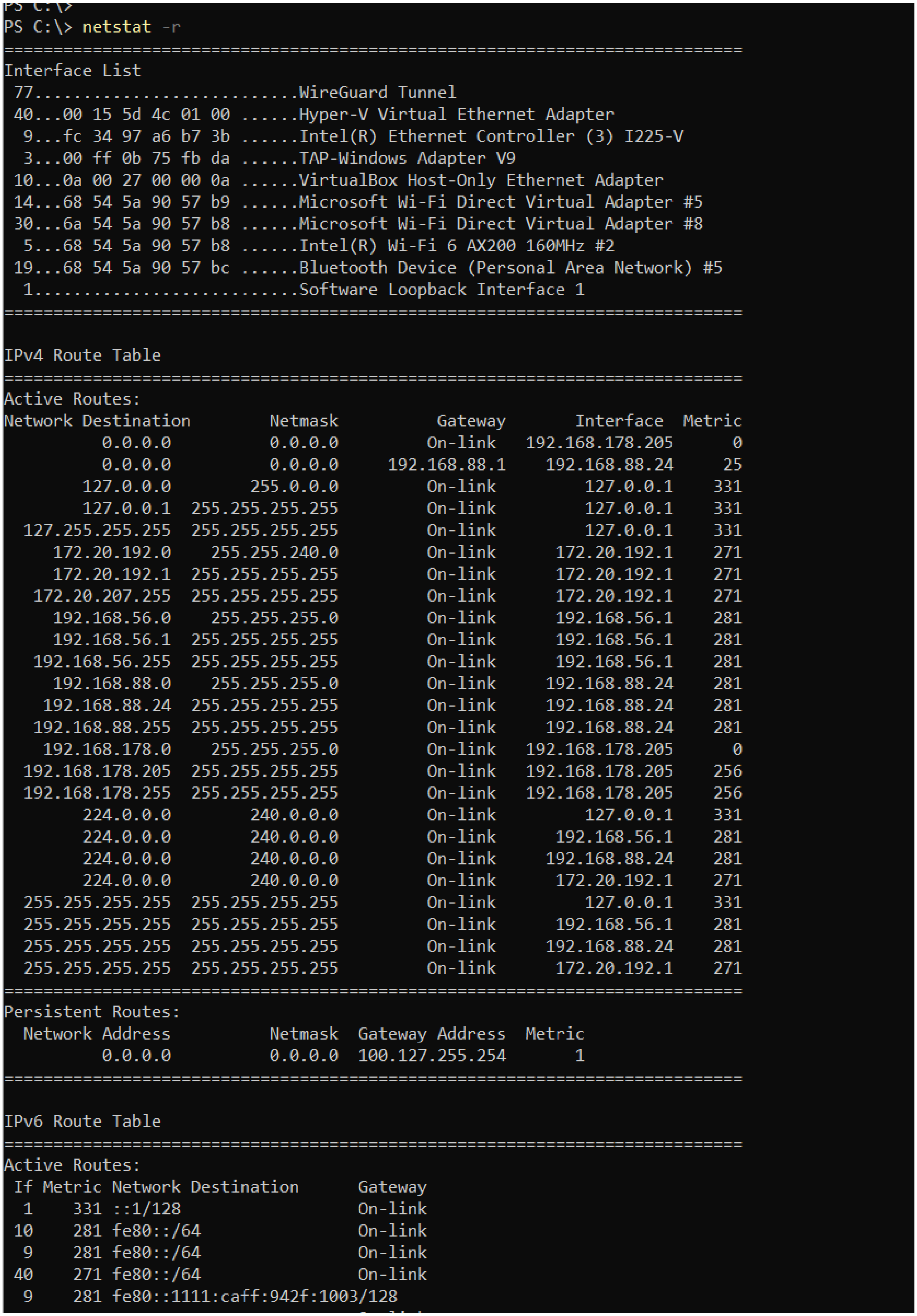
1. Eseguito netstat -h per elencare le opzioni disponibili.
2. Eseguito netstat -r per visualizzare la tabella di routing.
3. Avviata PowerShell come amministratore e eseguito netstat -abno.
4. Identificato un processo tramite il PID in **Gestione attività**.

Risultati

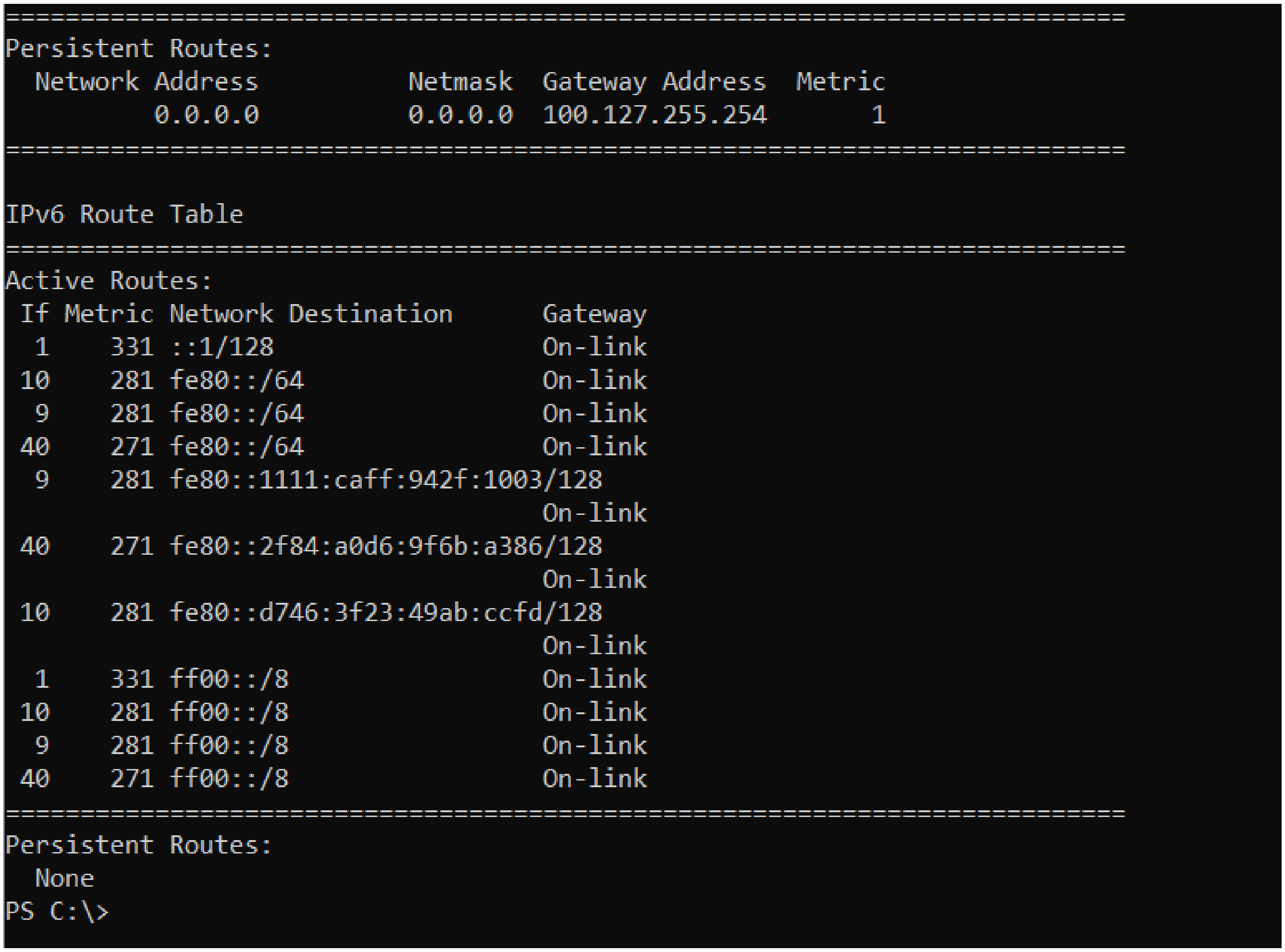
L'uso di netstat ha permesso di monitorare le connessioni e identificare i processi in ascolto sulla rete.



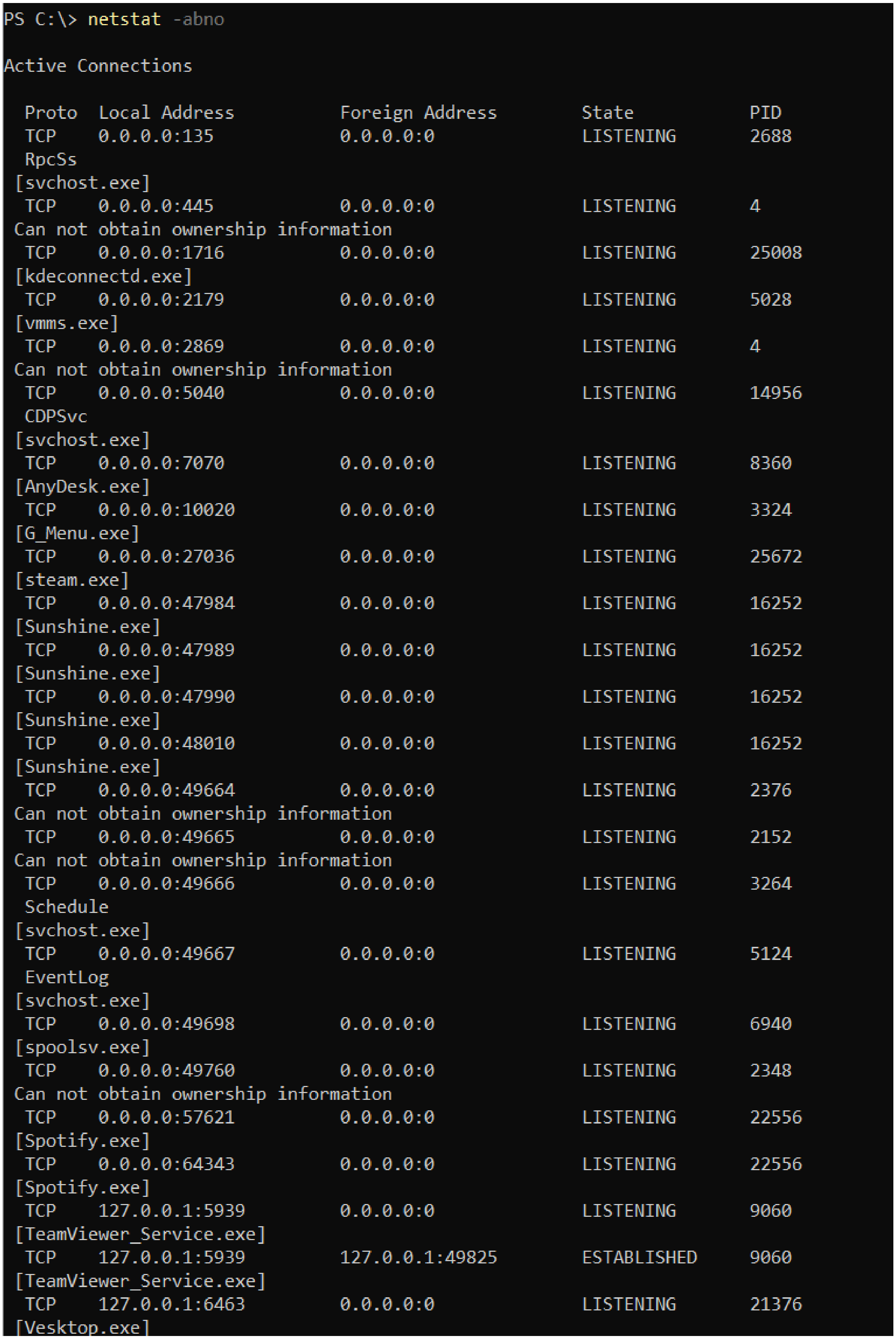
```
PS C:\> netstat -h

Socket Handle Count

     PID          Count   Closing Count
   22784              3               0
    5124              4               0
    7684              8               0
   12808              1               0
    6924             18               0
   39436              2               0
   16916              7               1
    8216             11               0
    6940              4               0
    8476              1               0
   22556             35               0
   37660             19               6
   26152              1               0
    2348              4               0
    4908              7               1
   16176              2               0
   30516              4               0
    3128              2               0
    8504            204               0
    8512              6               0
    2376              4               0
   25672             75               0
    9040              3               0
    8792              2               0
   25176             17               4
   24924              2               0
   26972              6               0
    5220              2               0
    9060             10               0
   26468              1               0
    2152              4               0
   13672              4               1
    5484              6               0
   14956              7               0
    8816              2               0
   24180              4               0
    3704             29               3
   16252              8               0
    2688             11               0
   21376             33               0
    7044              9               0
   25732              1               0
```



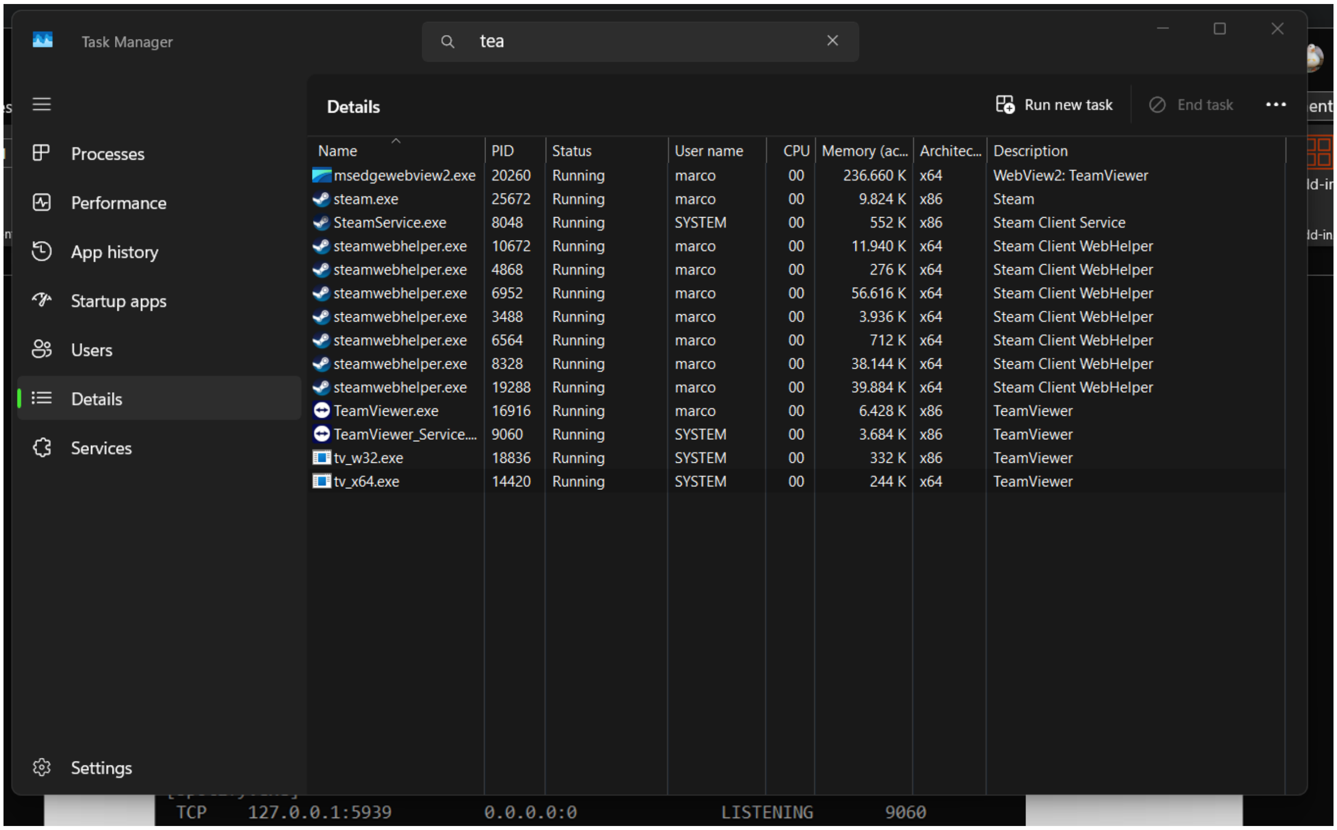
```
PS C:\>
PS C:\> netstat -r
============================================================================
Interface List
 77...........................WireGuard Tunnel
 40...00 15 5d 4c 01 00 ......Hyper-V Virtual Ethernet Adapter
  9...fc 34 97 a6 b7 3b ......Intel(R) Ethernet Controller (3) I225-V
  3...00 ff 0b 75 fb da ......TAP-Windows Adapter V9
 10...0a 00 27 00 00 0a ......VirtualBox Host-Only Ethernet Adapter
 14...68 54 5a 90 57 b9 ......Microsoft Wi-Fi Direct Virtual Adapter #5
 30...6a 54 5a 90 57 b8 ......Microsoft Wi-Fi Direct Virtual Adapter #8
  5...68 54 5a 90 57 b8 ......Intel(R) Wi-Fi 6 AX200 160MHz #2
 19...68 54 5a 90 57 bc ......Bluetooth Device (Personal Area Network) #5
  1...........................Software Loopback Interface 1
============================================================================

IPv4 Route Table
============================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0         On-link   192.168.178.205      0
          0.0.0.0          0.0.0.0     192.168.88.1    192.168.88.24     25
        127.0.0.0        255.0.0.0         On-link         127.0.0.1    331
        127.0.0.1  255.255.255.255         On-link         127.0.0.1    331
  127.255.255.255  255.255.255.255         On-link         127.0.0.1    331
     172.20.192.0    255.255.240.0         On-link      172.20.192.1    271
     172.20.192.1  255.255.255.255         On-link      172.20.192.1    271
   172.20.207.255  255.255.255.255         On-link      172.20.192.1    271
     192.168.56.0    255.255.255.0         On-link      192.168.56.1    281
     192.168.56.1  255.255.255.255         On-link      192.168.56.1    281
   192.168.56.255  255.255.255.255         On-link      192.168.56.1    281
     192.168.88.0    255.255.255.0         On-link     192.168.88.24    281
    192.168.88.24  255.255.255.255         On-link     192.168.88.24    281
   192.168.88.255  255.255.255.255         On-link     192.168.88.24    281
    192.168.178.0    255.255.255.0         On-link   192.168.178.205      0
  192.168.178.205  255.255.255.255         On-link   192.168.178.205    256
  192.168.178.255  255.255.255.255         On-link   192.168.178.205    256
        224.0.0.0        240.0.0.0         On-link         127.0.0.1    331
        224.0.0.0        240.0.0.0         On-link      192.168.56.1    281
        224.0.0.0        240.0.0.0         On-link     192.168.88.24    281
        224.0.0.0        240.0.0.0         On-link      172.20.192.1    271
  255.255.255.255  255.255.255.255         On-link         127.0.0.1    331
  255.255.255.255  255.255.255.255         On-link      192.168.56.1    281
  255.255.255.255  255.255.255.255         On-link     192.168.88.24    281
  255.255.255.255  255.255.255.255         On-link      172.20.192.1    271
============================================================================
Persistent Routes:
  Network Address          Netmask  Gateway Address  Metric
          0.0.0.0          0.0.0.0  100.127.255.254       1
============================================================================

IPv6 Route Table
============================================================================
Active Routes:
 If Metric Network Destination      Gateway
  1    331 ::1/128                  On-link
 10    281 fe80::/64                On-link
  9    281 fe80::/64                On-link
 40    271 fe80::/64                On-link
  9    281 fe80::1111:caff:942f:1003/128
```



```
===========================================================================
Persistent Routes:
  Network Address          Netmask  Gateway Address  Metric
          0.0.0.0          0.0.0.0  100.127.255.254       1
===========================================================================

IPv6 Route Table
===========================================================================
Active Routes:
 If Metric Network Destination      Gateway
  1    331 ::1/128                  On-link
 10    281 fe80::/64                On-link
  9    281 fe80::/64                On-link
 40    271 fe80::/64                On-link
  9    281 fe80::1111:caff:942f:1003/128
                                    On-link
 40    271 fe80::2f84:a0d6:9f6b:a386/128
                                    On-link
 10    281 fe80::d746:3f23:49ab:ccfd/128
                                    On-link
  1    331 ff00::/8                 On-link
 10    281 ff00::/8                 On-link
  9    281 ff00::/8                 On-link
 40    271 ff00::/8                 On-link
===========================================================================
Persistent Routes:
  None
PS C:\>
```



```
PS C:\> netstat -abno

Active Connections

  Proto  Local Address          Foreign Address        State           PID
  TCP    0.0.0.0:135            0.0.0.0:0              LISTENING       2688
  RpcSs
 [svchost.exe]
  TCP    0.0.0.0:445            0.0.0.0:0              LISTENING       4
 Can not obtain ownership information
  TCP    0.0.0.0:1716           0.0.0.0:0              LISTENING       25008
 [kdeconnectd.exe]
  TCP    0.0.0.0:2179           0.0.0.0:0              LISTENING       5028
 [vmms.exe]
  TCP    0.0.0.0:2869           0.0.0.0:0              LISTENING       4
 Can not obtain ownership information
  TCP    0.0.0.0:5040           0.0.0.0:0              LISTENING       14956
  CDPSvc
 [svchost.exe]
  TCP    0.0.0.0:7070           0.0.0.0:0              LISTENING       8360
 [AnyDesk.exe]
  TCP    0.0.0.0:10020          0.0.0.0:0              LISTENING       3324
 [G_Menu.exe]
  TCP    0.0.0.0:27036          0.0.0.0:0              LISTENING       25672
 [steam.exe]
  TCP    0.0.0.0:47984          0.0.0.0:0              LISTENING       16252
 [Sunshine.exe]
  TCP    0.0.0.0:47989          0.0.0.0:0              LISTENING       16252
 [Sunshine.exe]
  TCP    0.0.0.0:47990          0.0.0.0:0              LISTENING       16252
 [Sunshine.exe]
  TCP    0.0.0.0:48010          0.0.0.0:0              LISTENING       16252
 [Sunshine.exe]
  TCP    0.0.0.0:49664          0.0.0.0:0              LISTENING       2376
 Can not obtain ownership information
  TCP    0.0.0.0:49665          0.0.0.0:0              LISTENING       2152
 Can not obtain ownership information
  TCP    0.0.0.0:49666          0.0.0.0:0              LISTENING       3264
  Schedule
 [svchost.exe]
  TCP    0.0.0.0:49667          0.0.0.0:0              LISTENING       5124
  EventLog
 [svchost.exe]
  TCP    0.0.0.0:49698          0.0.0.0:0              LISTENING       6940
 [spoolsv.exe]
  TCP    0.0.0.0:49760          0.0.0.0:0              LISTENING       2348
 Can not obtain ownership information
  TCP    0.0.0.0:57621          0.0.0.0:0              LISTENING       22556
 [Spotify.exe]
  TCP    0.0.0.0:64343          0.0.0.0:0              LISTENING       22556
 [Spotify.exe]
  TCP    127.0.0.1:5939         0.0.0.0:0              LISTENING       9060
 [TeamViewer_Service.exe]
  TCP    127.0.0.1:5939         127.0.0.1:49825        ESTABLISHED     9060
 [TeamViewer_Service.exe]
  TCP    127.0.0.1:6463         0.0.0.0:0              LISTENING       21376
 [Vesktop.exe]
```



Name	PID	Status	User name	CPU	Memory (ac...	Architec...	Description
msedgewebview2.exe	20260	Running	marco	00	236.660 K	x64	WebView2: TeamViewer
steam.exe	25672	Running	marco	00	9.824 K	x86	Steam
SteamService.exe	8048	Running	SYSTEM	00	552 K	x86	Steam Client Service
steamwebhelper.exe	10672	Running	marco	00	11.940 K	x64	Steam Client WebHelper
steamwebhelper.exe	4868	Running	marco	00	276 K	x64	Steam Client WebHelper
steamwebhelper.exe	6952	Running	marco	00	56.616 K	x64	Steam Client WebHelper
steamwebhelper.exe	3488	Running	marco	00	3.936 K	x64	Steam Client WebHelper
steamwebhelper.exe	6564	Running	marco	00	712 K	x64	Steam Client WebHelper
steamwebhelper.exe	8328	Running	marco	00	38.144 K	x64	Steam Client WebHelper
steamwebhelper.exe	19288	Running	marco	00	39.884 K	x64	Steam Client WebHelper
TeamViewer.exe	16916	Running	marco	00	6.428 K	x86	TeamViewer
TeamViewer_Service....	9060	Running	SYSTEM	00	3.684 K	x86	TeamViewer
tv_w32.exe	18836	Running	SYSTEM	00	332 K	x86	TeamViewer
tv_x64.exe	14420	Running	SYSTEM	00	244 K	x64	TeamViewer

```
  TCP    127.0.0.1:5939         0.0.0.0:0              LISTENING       9060
```

Parte 5: Svuotamento del Cestino utilizzando PowerShell

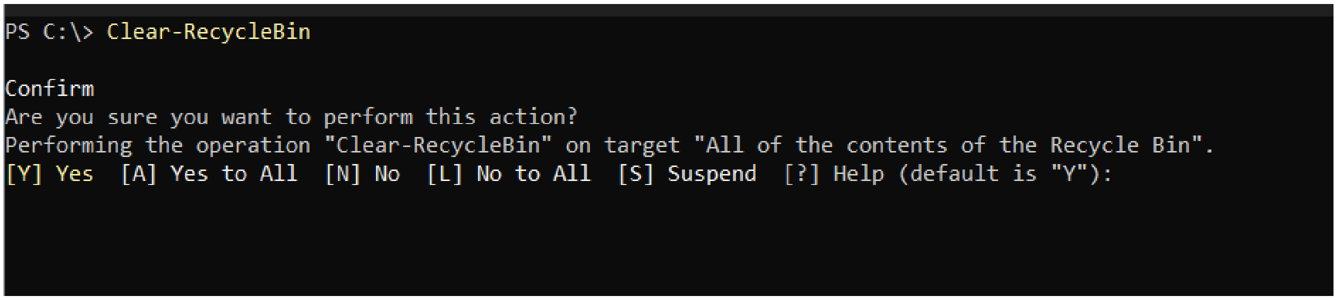
Obiettivo

Svuotare il Cestino tramite PowerShell.

Procedura

1. Verificato il contenuto del Cestino.
2. Eseguito il comando Clear-RecycleBin.
3. Confermata l'operazione digitando Y.

Il Cestino può essere svuotato con successo tramite PowerShell.



```
PS C:\> Clear-RecycleBin

Confirm
Are you sure you want to perform this action?
Performing the operation "Clear-RecycleBin" on target "All of the contents of the Recycle Bin".
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "Y"):
```

Esercizio 2

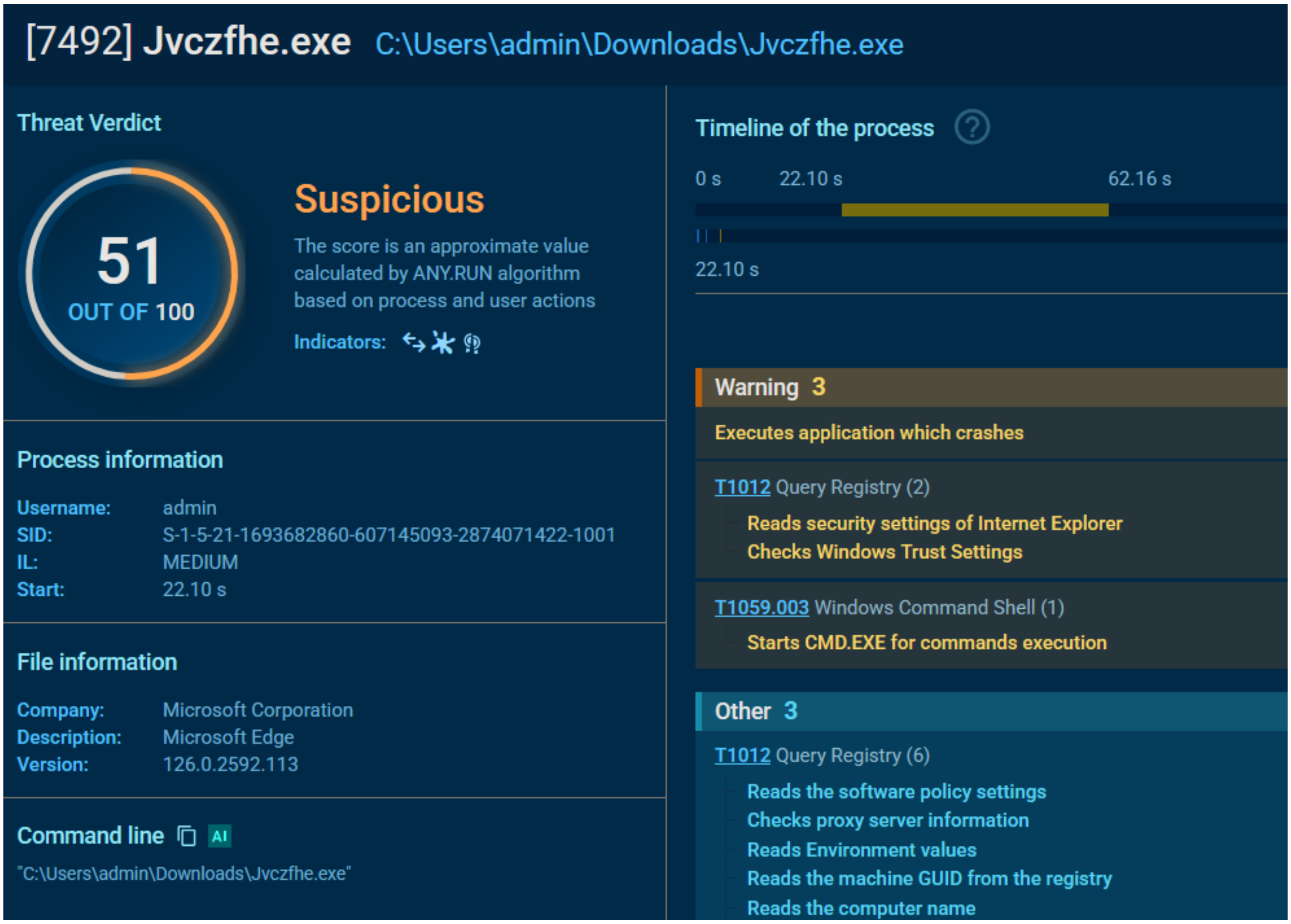
Studiare questo link di anyrun e spiegare queste minacce in un piccolo report.

https://app.any.run/tasks/9a158718-43fe-45ce-85b3-66203dbc2281/

L'analisi del file sospetto **Jvczfhe.exe** ha rivelato la creazione e l'interazione con diversi processi ed eseguibili nel sistema. Ecco un dettaglio specifico:

Processi ed eseguibili:

1. **Processo principale:**
   - **Nome:** Jvczfhe.exe.bin.exe
   - **Percorso:** C:\Users\admin\AppData\Local\Temp\Jvczfhe.exe.bin.exe
   - **PID:** 6496
   - **Descrizione:** Questo è il processo eseguibile principale avviato dall'utente. Si spaccia per "Microsoft Edge" con una versione dichiarata di 126.0.2592.113, ma opera da una directory temporanea, il che è atipico per applicazioni legittime.



[7492] Jvczfhe.exe C:\Users\admin\Downloads\Jvczfhe.exe

Threat Verdict

51 OUT OF 100

Suspicious

The score is an approximate value calculated by ANY.RUN algorithm based on process and user actions

Indicators:

Process information

Username: admin
SID: S-1-5-21-1693682860-607145093-2874071422-1001
IL: MEDIUM
Start: 22.10 s

File information

Company: Microsoft Corporation
Description: Microsoft Edge
Version: 126.0.2592.113

Command line

"C:\Users\admin\Downloads\Jvczfhe.exe"

Timeline of the process

Warning 3

Executes application which crashes

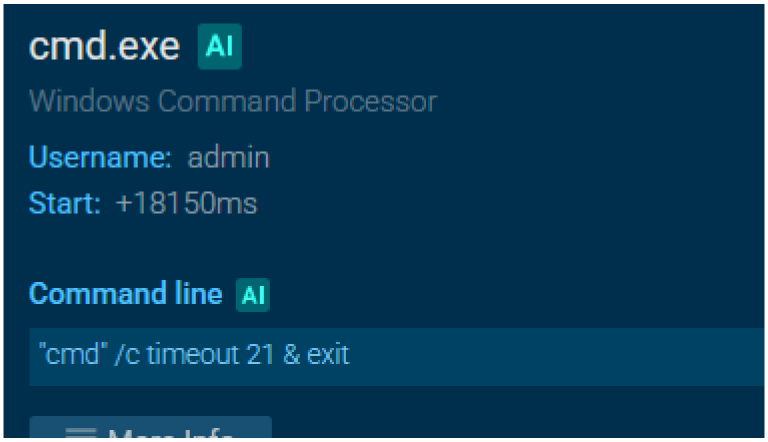
T1012 Query Registry (2)
Reads security settings of Internet Explorer
Checks Windows Trust Settings

T1059.003 Windows Command Shell (1)
Starts CMD.EXE for commands execution

Other 3

T1012 Query Registry (6)
Reads the software policy settings
Checks proxy server information
Reads Environment values
Reads the machine GUID from the registry
Reads the computer name

2. **Processi secondari avviati:**
    - **cmd.exe**
        - **Comando:** "cmd" /c timeout 21 & exit
        - **Percorso:** C:\Windows\SysWOW64\cmd.exe
        - **PID:** 6680
        - **Descrizione:** Il processo principale avvia il prompt dei comandi per eseguire il comando timeout, indicando una possibile tecnica di evasione o sincronizzazione temporale.



cmd.exe

Windows Command Processor

Username: admin

Start: +18150ms

Command line

```
"cmd" /c timeout 21 & exit
```

- **conhost.exe**
    - **Comando:** \??\C:\WINDOWS\system32\conhost.exe 0xffffffff -ForceV1
    - **Percorso:** C:\Windows\System32\conhost.exe
    - **PID:** 6708
    - **Descrizione:** Associato a cmd.exe, gestisce le finestre della console per le applicazioni della riga di comando.
- **timeout.exe**
    - **Comando:** timeout 21
    - **Percorso:** C:\Windows\SysWOW64\timeout.exe
    - **PID:** 6752
    - **Descrizione:** Utilizzato per introdurre un ritardo di 21 secondi nell'esecuzione, spesso impiegato per sincronizzare attività o ritardare l'esecuzione di ulteriori comandi.

Esecuzione da percorso non standard: Il processo principale viene eseguito da una directory temporanea (AppData\Local\Temp), il che è insolito per applicazioni legittime come Microsoft Edge.

Uso di comandi della riga di comando: L'avvio di cmd.exe e l'esecuzione di timeout.exe suggeriscono tentativi di evasione o sincronizzazione, comuni nei comportamenti malevoli.

Falsificazione delle informazioni del file: Il processo principale dichiara di essere "Microsoft Edge" con dettagli come versione e descrizione corrispondenti, ma l'esecuzione da una directory temporanea e il nome del file sono sospetti.

Questi comportamenti indicano che **Jvczfhe.exe** potrebbe essere un eseguibile malevolo progettato per mascherarsi come un'applicazione legittima, eseguendo comandi di sistema per potenziali attività dannose.