Esplorazione di PowerShell

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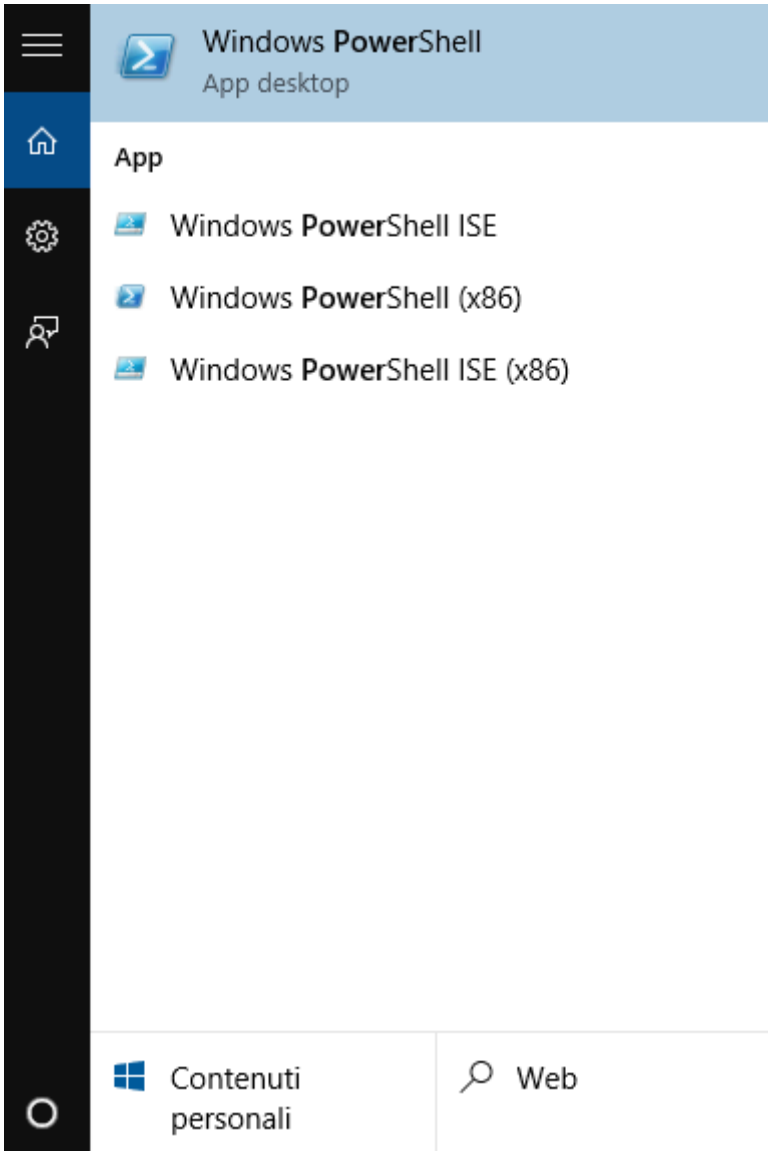
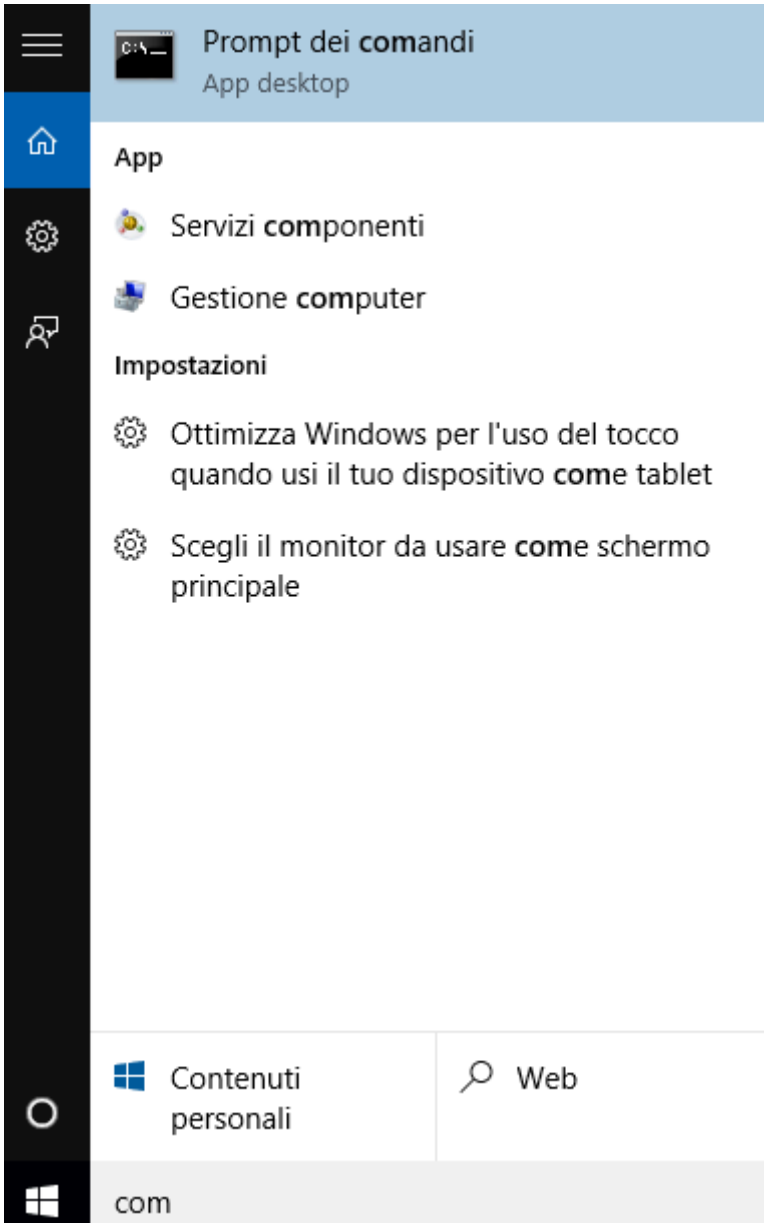
Parte 1: Accesso alla Console di PowerShell

- Ho cliccato su Start e cercato **PowerShell** per avviare la console.



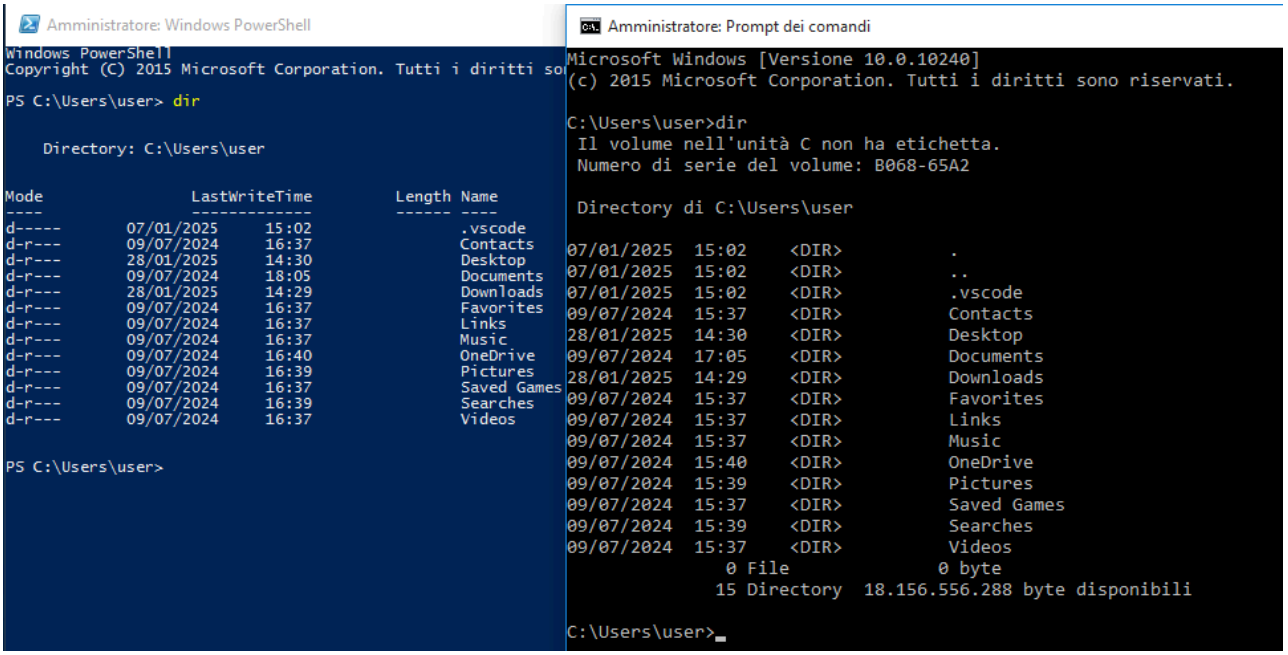
- Ho cliccato su Start e cercato **Command Prompt** per aprire il prompt dei comandi.



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

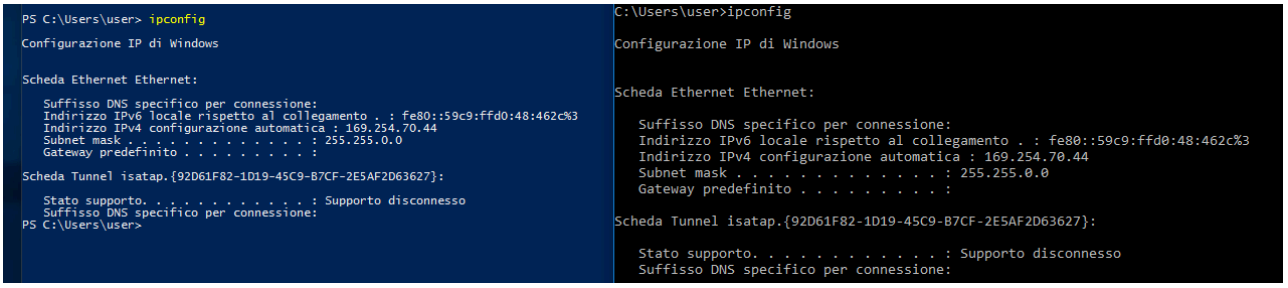
1. **Ho eseguito il comando `dir` in entrambe le console.**
    - Entrambe hanno restituito un elenco di file e sottodirectory con informazioni come tipo, dimensione, data e ora dell'ultima modifica.

- In PowerShell, sono mostrati anche gli attributi/modi dei file.



2. **Ho provato altri comandi comuni del prompt dei comandi, `cd` e `ipconfig`.**

- I risultati sono stati simili in entrambe le console.



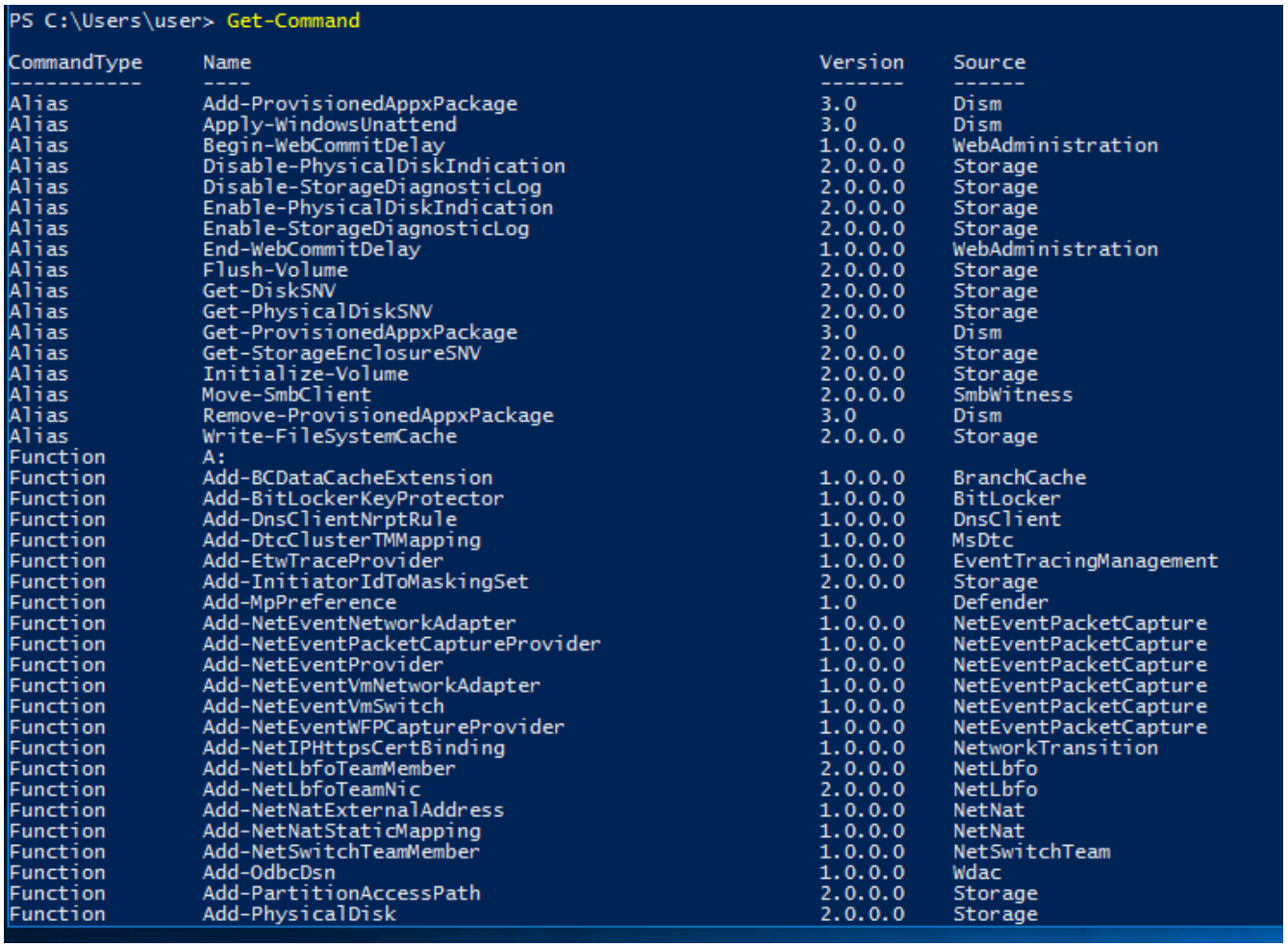
Parte 3: Esplorazione dei Cmdlet

1. **Ho verificato quale cmdlet PowerShell corrisponda al comando dir digitando:**

`Get-Alias dir`

- Il risultato ha mostrato che `dir` è un alias per `Get-ChildItem`.

2. **Ho cercato online ulteriori informazioni sui cmdlet di PowerShell.**



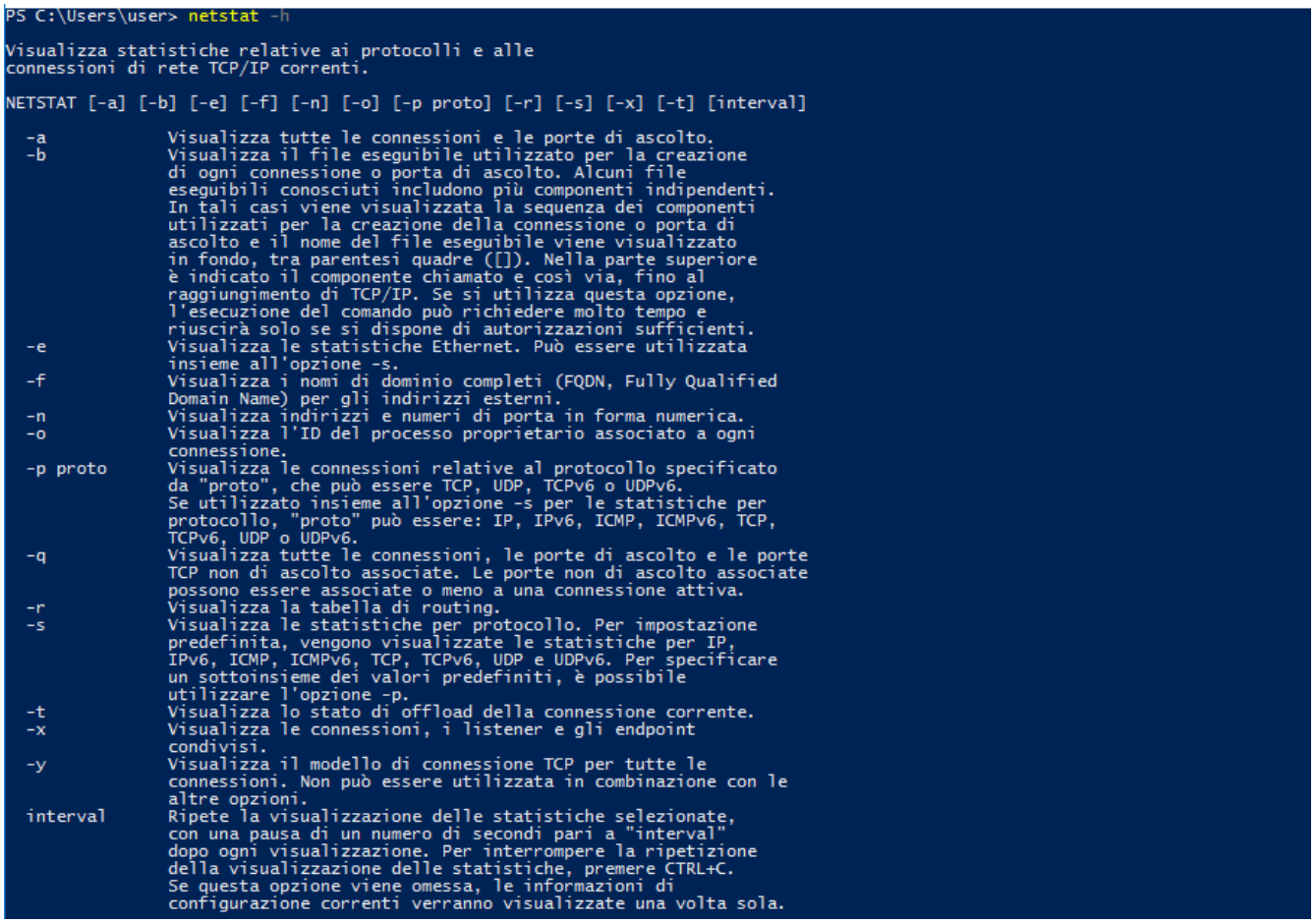
```
PS C:\Users\user> Get-Command

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Alias           Add-ProvisionedAppxPackage                         3.0        Dism
Alias           Apply-WindowsUnattend                              3.0        Dism
Alias           Begin-WebCommitDelay                               1.0.0.0    WebAdministration
Alias           Disable-PhysicalDiskIndication                     2.0.0.0    Storage
Alias           Disable-StorageDiagnosticLog                       2.0.0.0    Storage
Alias           Enable-PhysicalDiskIndication                      2.0.0.0    Storage
Alias           Enable-StorageDiagnosticLog                        2.0.0.0    Storage
Alias           End-WebCommitDelay                                 1.0.0.0    WebAdministration
Alias           Flush-Volume                                       2.0.0.0    Storage
Alias           Get-DiskSNV                                        2.0.0.0    Storage
Alias           Get-PhysicalDiskSNV                                2.0.0.0    Storage
Alias           Get-ProvisionedAppxPackage                         3.0        Dism
Alias           Get-StorageEnclosureSNV                            2.0.0.0    Storage
Alias           Initialize-Volume                                  2.0.0.0    Storage
Alias           Move-SmbClient                                     2.0.0.0    SmbWitness
Alias           Remove-ProvisionedAppxPackage                      3.0        Dism
Alias           Write-FileSystemCache                              2.0.0.0    Storage
Function        A:
Function        Add-BCDataCacheExtension                           1.0.0.0    BranchCache
Function        Add-BitLockerKeyProtector                          1.0.0.0    BitLocker
Function        Add-DnsClientNrptRule                              1.0.0.0    DnsClient
Function        Add-DtcClusterTMMapping                            1.0.0.0    MsDtc
Function        Add-EtwTraceProvider                               1.0.0.0    EventTracingManagement
Function        Add-InitiatorIdToMaskingSet                        2.0.0.0    Storage
Function        Add-MpPreference                                   1.0        Defender
Function        Add-NetEventNetworkAdapter                         1.0.0.0    NetEventPacketCapture
Function        Add-NetEventPacketCaptureProvider                  1.0.0.0    NetEventPacketCapture
Function        Add-NetEventProvider                               1.0.0.0    NetEventPacketCapture
Function        Add-NetEventVmNetworkAdapter                       1.0.0.0    NetEventPacketCapture
Function        Add-NetEventVmSwitch                               1.0.0.0    NetEventPacketCapture
Function        Add-NetEventWFPCaptureProvider                     1.0.0.0    NetEventPacketCapture
Function        Add-NetIPHttpsCertBinding                          1.0.0.0    NetworkTransition
Function        Add-NetLbfoTeamMember                              2.0.0.0    NetLbfo
Function        Add-NetLbfoTeamNic                                 2.0.0.0    NetLbfo
Function        Add-NetNatExternalAddress                          1.0.0.0    NetNat
Function        Add-NetNatStaticMapping                            1.0.0.0    NetNat
Function        Add-NetSwitchTeamMember                            1.0.0.0    NetSwitchTeam
Function        Add-OdbcDsn                                        1.0.0.0    Wdac
Function        Add-PartitionAccessPath                            2.0.0.0    Storage
Function        Add-PhysicalDisk                                   2.0.0.0    Storage
```

> Comando che mostra tutti i comandi della PowerShell

3. **Ho chiuso la finestra del Prompt dei Comandi.**

Parte 4: Esplorazione del Comando `netstat` in PowerShell

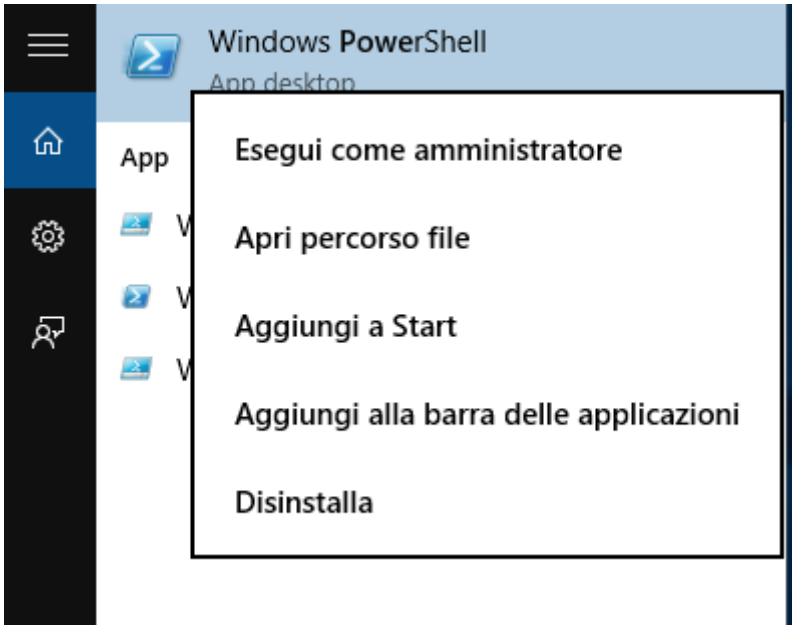
1. **Ho eseguito `netstat -h` per visualizzare le opzioni disponibili.**



2. **Ho eseguito `netstat -r` per visualizzare la tabella di routing attiva.**

```
PS C:\Users\user> netstat -r
===========================================================================
Elenco interfacce
  3...08 00 27 46 eb bf ......Intel(R) PRO/1000 MT Desktop Adapter
  1...........................Software Loopback Interface 1
  5...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter
  4...00 00 00 00 00 00 00 e0 Microsoft Teredo Tunneling Adapter
===========================================================================

IPv4 Tabella route
===========================================================================
Route attive:
     Indirizzo rete            Mask          Gateway     Interfaccia Metrica
          0.0.0.0          0.0.0.0         10.0.2.2         10.0.2.15     10
         10.0.2.0    255.255.255.0         On-link          10.0.2.15    266
        10.0.2.15  255.255.255.255         On-link          10.0.2.15    266
       10.0.2.255  255.255.255.255         On-link          10.0.2.15    266
        127.0.0.0        255.0.0.0         On-link          127.0.0.1    306
        127.0.0.1  255.255.255.255         On-link          127.0.0.1    306
  127.255.255.255  255.255.255.255         On-link          127.0.0.1    306
        224.0.0.0        240.0.0.0         On-link          127.0.0.1    306
        224.0.0.0        240.0.0.0         On-link          10.0.2.15    266
  255.255.255.255  255.255.255.255         On-link          127.0.0.1    306
  255.255.255.255  255.255.255.255         On-link          10.0.2.15    266
===========================================================================
Route permanenti:
  Nessuna

IPv6 Tabella route
===========================================================================
Route attive:
 Interf Metrica Rete Destinazione      Gateway
  3    266 ::/0                     fe80::2
  1    306 ::1/128                  On-link
  4    306 2001::/32                On-link
  4    306 2001:0:2851:782c:2c6d:354c:b0ce:1545/128
                                    On-link
  3    266 fd00::/64                On-link
  3    266 fd00::59c9:ffd0:48:462c/128
                                    On-link
  3    266 fd00::e56c:42cd:32d0:24a5/128
                                    On-link
  3    266 fe80::/64                On-link
  4    306 fe80::/64                On-link
  4    306 fe80::2c6d:354c:b0ce:1545/128
                                    On-link
  3    266 fe80::59c9:ffd0:48:462c/128
                                    On-link
  1    306 ff00::/8                 On-link
  3    266 ff00::/8                 On-link
  4    306 ff00::/8                 On-link
===========================================================================
```

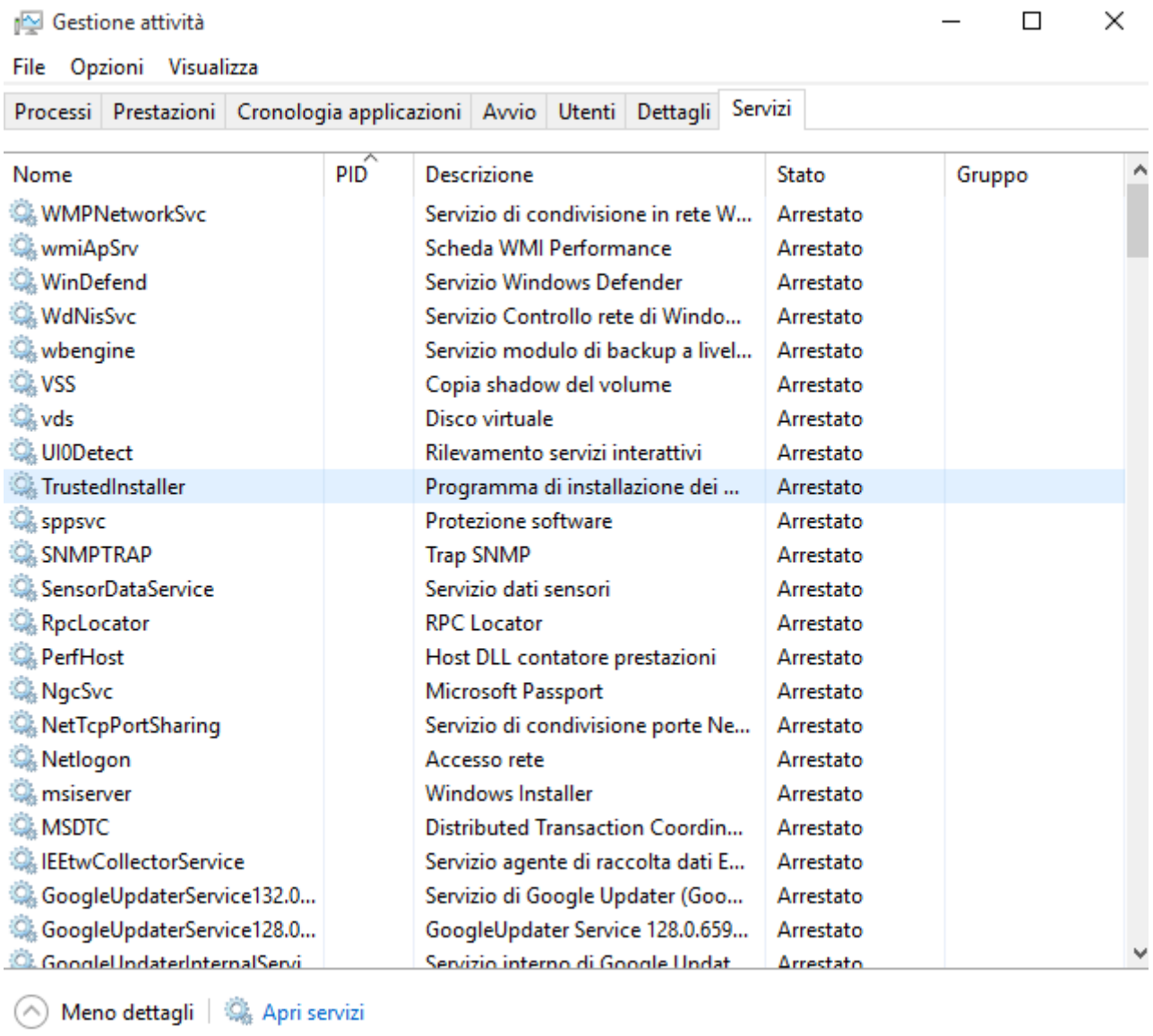
3. **Ho aperto una seconda istanza di PowerShell con privilegi elevati (Esegui come amministratore).**



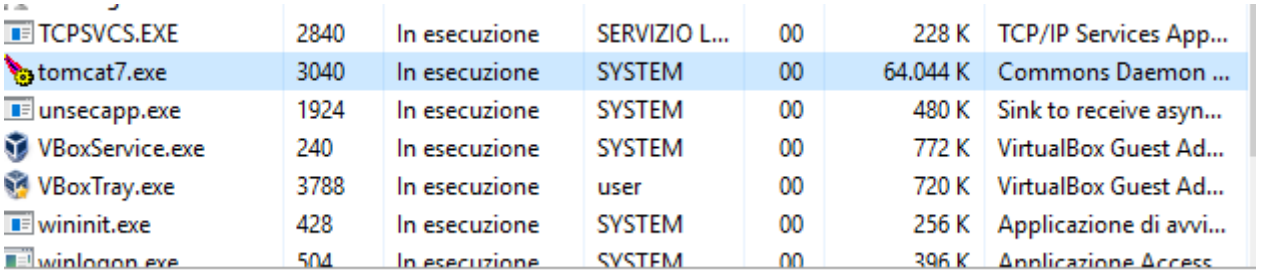
4. **Ho eseguito `netstat -abno` per visualizzare le connessioni TCP attive e i processi associati.**

```
PS C:\Users\user> netstat -abno

Connessioni attive

  Proto  Indirizzo locale          Indirizzo esterno        Stato           PID
  TCP    0.0.0.0:7              0.0.0.0:0              LISTENING       2840
```

5. **Ho aperto il Task Manager, ordinato i processi per PID, e identificato un processo specifico.**



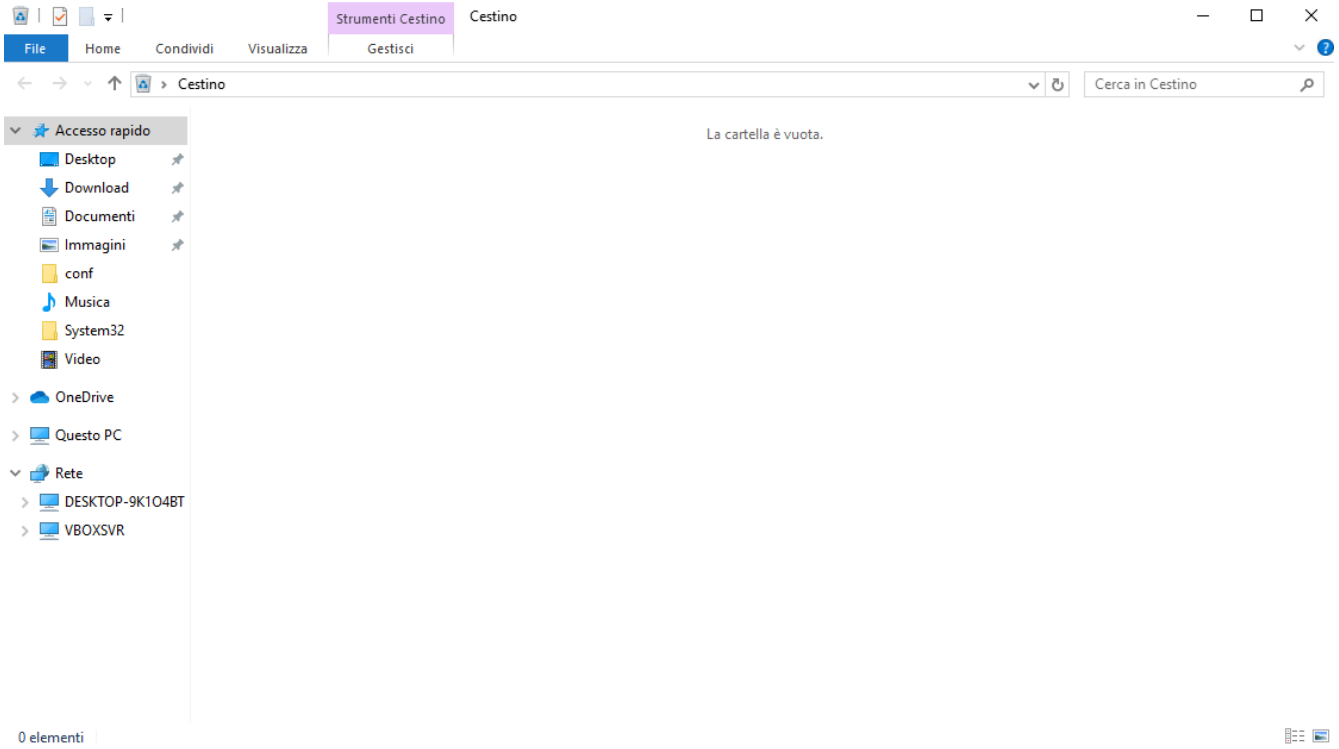
6. **Ho fatto clic con il tasto destro sul processo e aperto la finestra Proprietà per ulteriori dettagli.**



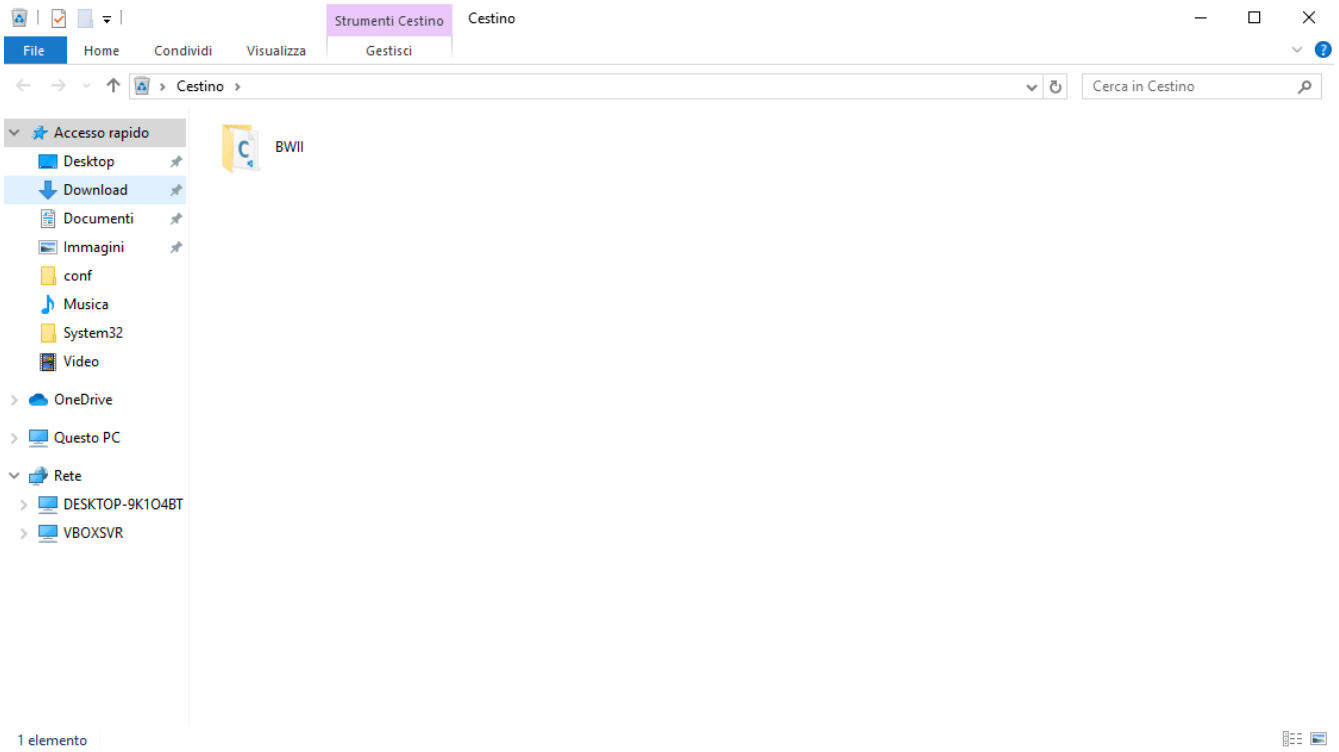
   - Il processo con PID 3040 era tomcat7.exe.

Parte 5: Svuotamento del Cestino con PowerShell

1. Ho aperto il Cestino per verificare la presenza di file eliminabili.

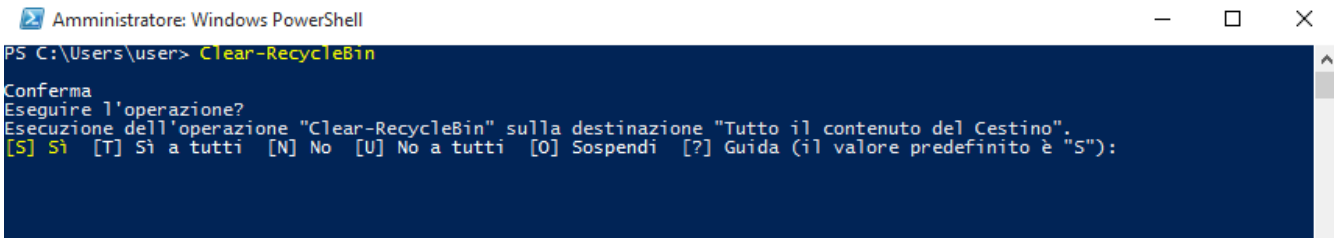


2. Ho creato alcuni file di prova e li ho spostati nel Cestino.



3. Ho eseguito il comando:

```
Clear-RecycleBin
```



- Ho confermato l'operazione digitando `S`.

```
PS C:\Users\user> Clear-RecycleBin

Conferma
Eseguire l'operazione?
Esecuzione dell'operazione "Clear-RecycleBin" sulla destinazione "Tutto il contenuto del Cestino".
[S] Sì  [T] Sì a tutti  [N] No  [U] No a tutti  [O] Sospendi  [?] Guida (il valore predefinito è "S"): S
```

- Tutti i file nel Cestino sono stati eliminati definitivamente.