Batch Name: WiproNGA\_DWS\_B5\_25VID2550

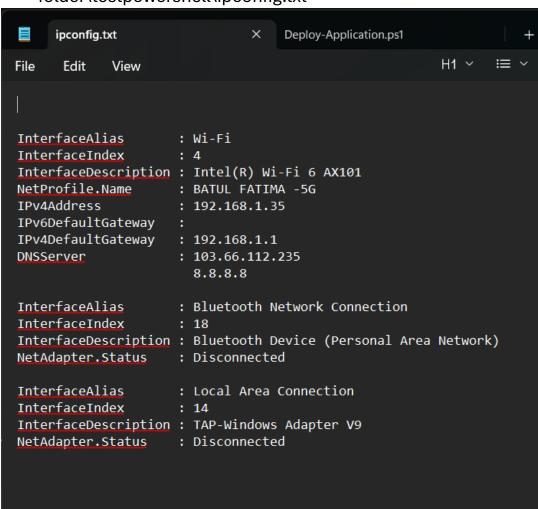
First Name: MahammadTanvir

Last Name: Khatri User ID: 34936

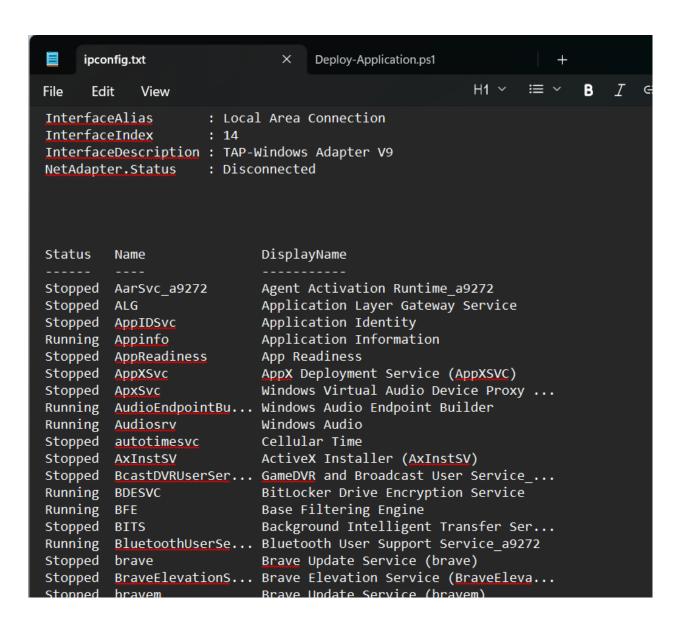
**Batch ID:** B5-25VID2550 **Assignment – 09/08/2025** 

## 1) POWERSHELL CMDLETS COMMANDS

 Get-NetIPConfiguration | Out-File "D:\Tanvir\New folder\testpowershell\ipconfig.txt"



o Get-Service | Out-File "D:\Tanvir\New folder\testpowershell\ipconfig.txt" -Append



# o Get-PSDrive -PSProvider FileSystem

## 3 Get-PSDrive -PSProvider FileSystem

```
PS C:\Users\khatr> Get-PSDrive -PSProvider FileSystem

Name Used (GB) Free (GB) Provider Root
---- C 105.51 26.93 FileSystem C:\
D 57.91 262.09 FileSystem D:\
```

## o Get-ChildItem

4 Get-ChildItem

<			
PS C:\Users	\khatr> Get-Ch	nildItem	
Directo	ry: C:\Users\k	hatr	
Mode	Last	WriteTime	Length Name
	5 /11 /2025	1.46 pm	.vscode
d d	5/11/2025		
a	5/7/2025		ansel
d-r	5/11/2025		Contacts
d	5/6/2025	2:23 PM	Documents
d-r	8/11/2025	4:31 PM	Downloads
d-r	5/11/2025	2:32 PM	Favorites
d-r	5/11/2025		Links
d-r	5/11/2025		Music
dar	5/16/2025		OneDrive
d-r			
	6/25/2025		Saved Games
d-r	5/11/2025		Searches
d-r	6/17/2025	10:39 AM	Videos

### Get-Service | Get-Member

5 Get-Service | Get-Member

```
PS C:\Users\khatr> Get-Service | Get-Member
     TypeName: System.ServiceProcess.ServiceController
Name
                                             MemberType
                                                                      Definition
                                              AliasProperty Name = ServiceName
Name
                                             AliasProperty RequiredServices = ServicesDependedOn

Event System.EventHandler Disposed(System.Object, System.EventArgs)

Method void Close()
RequiredServices
                                             Event
Method
Disposed
Close
Continue
                                             Method
                                                                      void Continue()
                                                                      void Continue()
System.Runtime.Remoting.ObjRef CreateObjRef(type requestedType)
void Dispose(), void IDisposable.Dispose()
bool Equals(System.Object obj)
void ExecuteCommand(int command)
                                             Method
Method
CreateObjRef
Dispose
                                             Method
Equals
                                             Method
ExecuteCommand
                                                                      int GetHashCode()
System.Object GetLifetimeService()
GetHashCode
GetLifetimeService
                                             Method
Method
                                             Method
GetType Method
InitializeLifetimeService Method
                                                                      type GetType()
System.Object InitializeLifetimeService()
                                                                      void Pause()
void Start(), void Start(string[] args)
void Stop()
                                             Method
Refresh
                                             Method
                                             Method
Start
                                             Method
Stop
                                                                      void WaitForStatus(System.ServiceProcess.ServiceControllerStatus desiredSta
bool CanPauseAndContinue {get;}
bool CanShutdown {get;}
WaitForStatus
                                             Method
CanPauseAndContinue
CanShutdown
                                             Property
                                             Property
                                                                      bool CanShutdown {get;}
bool CanStop {get;}
System.ComponentModel.IContainer Container {get;}
System.ServiceProcess.ServiceController[] DependentServices {get;}
string DisplayName {get;set;}
string MachineName {get;set;}
CanStop
                                              Property
Container
                                              Property
DependentServices
                                             Property
                                             Property
DisplayName
MachineName
                                              Property
                                                                     System. Runtime. InteropServices. SafeHandle ServiceHandle {get;}
string ServiceName {get;set;}
System. ServiceProcess. ServiceController[] ServiceSDependedOn {get;}
System. ServiceProcess. ServiceType ServiceType {get;}
System. ComponentModel. Isite Site {get;set;}
System. ServiceProcess. ServiceStartMode StartType {get;}
System. ServiceProcess. ServiceControllerStatus Status {get;}
System. Object. ToString():
ServiceHandle
                                             Property
ServiceName
                                             Property
ServicesDependedOn
                                             Property
                                              Property
ServiceType
Site
StartType
                                             Property
                                             Property
Status
ToString
                                              ScriptMethod
                                                                      System.Object ToString();
```

Get-Date | Select-Object -Property Second

```
Get-Date | Select-Object -Property Second

PS C:\Users\khatr> Get-Date | Select-Object -Property Second

Second
-----
41
```

Get-Command \*hotfix\*

7 Get-Command \*hotfix\*
8

```
PS C:\Users\khatr> Get-Command *hotfix*

CommandType Name Version Source
------
Cmdlet Get-HotFix 3.1.0.0 Microsoft.PowerShell.Management
```

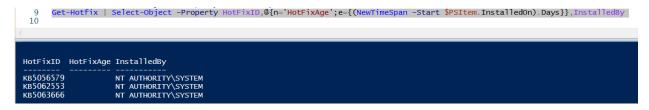
o Get-Hotfix | Select-Object - Property Installed By

```
8 Get-Hotfix | Select-Object -Property InstalledBy
```

```
PS C:\Users\khatr> Get-Hotfix | Select-Object -Property InstalledBy

InstalledBy
-----
NT AUTHORITY\SYSTEM
NT AUTHORITY\SYSTEM
NT AUTHORITY\SYSTEM
```

Get-Hotfix | Select-Object – Property HotFixID,@{n='HotFixAge';e={(NewTimeSpan – Start \$PSItem.InstalledOn).Days}},InstalledBy



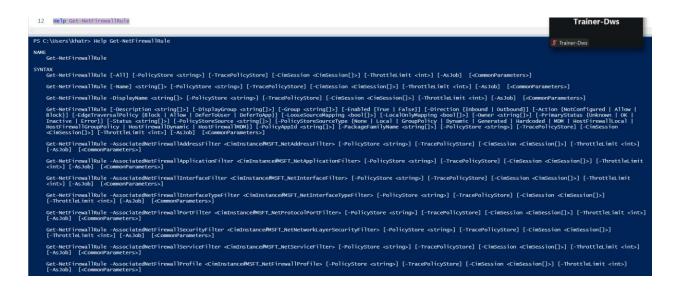
### help \*install\*

```
help *install*
  10
PS C:\Users\khatr> help *install*
                                                                 Category Module
                                                                                                                                      Synopsis
                                                                                                                                      Install-PackageProvider...
Install-Package...
Uninstall-Package...
Install-PackageProvider
                                                                 Cmdlet
                                                                                    PackageManagement
Install-Package
Uninstall-Package
Uninstall-Module
                                                                                    PackageManagement
PackageManagement
PowerShellGet
                                                                 Cmdlet
                                                                 Cmdlet
Function
Uninstall-Module
Install-Module
Install-Script
Uninstall-Script
Get-InstalledScript
Get-InstalledModule
Start-OSUninstall
                                                                                    PowershellGet
PowerShellGet
PowerShellGet
PowerShellGet
PowerShellGet
Dism
                                                                 Function
                                                                 Function
                                                                 Function
                                                                 Function
                                                                Function Cmdlet
                                                                                                                                      ...
Start-OSUninstall...
Install-Language
Get-InstalledLanguage
Uninstall-Language
                                                                 Cmdlet
                                                                                    LanguagePackManagement
                                                                                                                                      Install-Language...
                                                                                    LanguagePackManagement
LanguagePackManagement
                                                                Cmdlet
Cmdlet
                                                                                                                                      Get-InstalledLanguage...
Uninstall-Language...
Uninstall-Dtc
Uninstall-ProvisioningPackage
                                                                                    MsDtc
MsDtc
Provisioning
                                                                 Function
                                                                 Function Cmdlet
                                                                                                                                      Uninstall-ProvisioningPackage...
Install-ProvisioningPackage Cmdlet
Install-TrustedProvisioningCer... Cmdlet
Uninstall-TrustedProvisioningC... Cmdlet
                                                                                                                                      Install-ProvisioningPackage...
Install-TrustedProvisioningCertificate...
Uninstall-TrustedProvisioningCertificate...
                                                                                    Provisioning
                                                                                    Provisioning
Provisioning
```

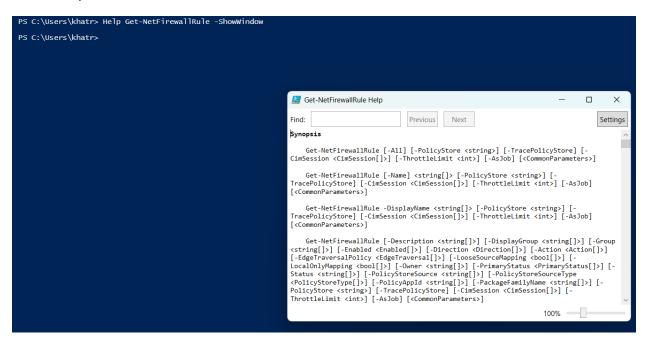
#### Get-NetFirewallProfile

```
11 Get-NetFirewallProfile
     PS C:\Users\khatr> Get-NetFirewallProfile
Name
Enabled :
DefaultInboundAction :
DefaultOutboundAction :
AllowInboundRules :
AllowLocalFirewallRules :
AllowLocalFirewallRules :
AllowUserApps :
AllowUserApps :
AllowUnicastResponseToMulticast :
NotifyOnListen :
EnableStealthModeForIPsec :
LogFileName :
LogMaxSizeKilobytes :
LogAllowed :
LogAllowed :
LogBlocked :
LogIgnored :
                                                                                                                                                                                                                                                                              Domain
True
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
True
                                                                                                                                                                                                                                                                               NOTCONTIQUEED
True
NOTCONFigured
NOTCONFigured
%systemmoot%\system32\LogFiles\Firewall\pfirewall.log
4096
False
False
                                                                                                                                                                                                                                                                                 NotConfigured
{NotConfigured}
     LogIgnored
DisabledInterfaceAliases
                                                                                                                                                                                                                                                                                 Private
True
NotConfigured
   Name
Enabled
DefaultInboundAction
DefaultInboundAction
DefaultOutboundAction
AllowInboundRules
AllowLocalFirewallRules
AllowLocalFirewallRules
AllowLocalIPsecRules
AllowUserApps
AllowUserPorts
AllowUserPorts
AllowUserPorts
AllowUserPorts
Continue
AllowUserPorts
All
                                                                                                                                                                                                                                                                              NotConfigured
True
True
%systemroot%\system32\LogFiles\Firewall\pfirewall.log
4096
False
False
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
   LogIgnored
DisabledInterfaceAliases
                                                                                                                                                                                                                                                                                 NotConfigured
{NotConfigured}
                                                                                                                                                                                                                                                                              Public
True
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
NotConfigured
 Name :
Enabled :
DefaultInboundAction :
DefaultOutboundAction :
AllowLocalFirewallRules :
AllowLocalFsecRules :
AllowLocalFsecRules :
AllowUserPorts :
AllowUserPorts :
NotifyOnListen :
                                                                                                                                                                                                                                                                                   NotConfigured
True
```

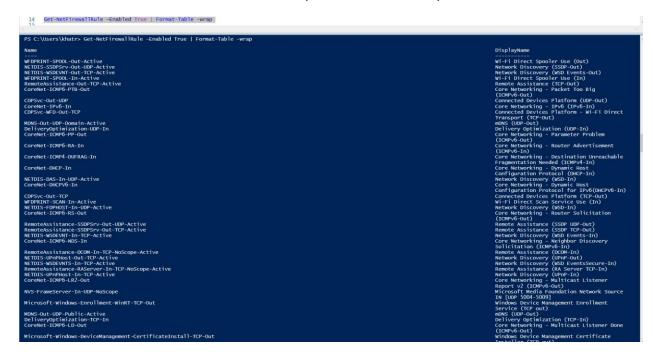
### Help Get-NetFirewallRule



### Help Get-NetFirewallRule -ShowWindow



o Get-NetFirewallRule – Enabled True | Format-Table - wrap



## o Get-Process | Where CPU -GT 100

15 Get-Process | Where CPU -GT 100

<b>Handles</b>	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI ProcessName
623	30	367932	86204	1,213.28	18516	1 aomhost64
648	17	9452	21444	344.61	2488	0 audiodg
1022	84	619924	200808	194.75	9600	1 brave
2329	89	145592	224564	147.72	14028	1 brave
1611	64	105096	181000	117.50	15776	1 chrome
3020	84	190512	98608	1,260.94	12684	1 ControlCenter
894	29	162724	61720	114.53	21264	1 esrv
7000	169	397424	367004	298.88	9044	1 explorer
2495	145	393652	350852	303.73	5544	1 WhatsApp
2057	90	286320	388148	124.28	21260	1 WINWORD
1029	79	143532	131468	284.41	15640	1 Zoom
3303	203	808956	449672	4,008.89	16832	1 Zoom

### Get-EventLog –List

16 Get-EventLog -List

```
PS C:\Users\khatr> Get-EventLog -List
 Max(K) Retain OverflowAction
                                       Entries Log
  20,480
20,480
              0 OverwriteAsNeeded
                                        21,017 Application
              0 OverwriteAsNeeded
                                             0 HardwareEvents
     512
              7 OverwriteOlder
                                         1,995 Intel Graphics Software
     512
              7 OverwriteOlder
                                             0 IntelAudioServiceLog
     512
              7 OverwriteOlder
                                             0 Internet Explorer
  20,480
              0 OverwriteAsNeeded
                                             0 Key Management Service
     128
              0 OverwriteAsNeeded
                                           100 OAlerts
     512
              7 OverwriteOlder
                                         3,503 OneApp_IGCC
                                               Security
  20,480
                                        38,181 System
              0 OverwriteAsNeeded
     512
              7 OverwriteOlder
                                            0 USER_ESRV_SVC_QUEENCREEK
  15,360
              0 OverwriteAsNeeded
                                         9,756 Windows PowerShell
```

- o Get-EventLog -List | Where Log -eq 'System'
- 17 Get-EventLog -List | Where Log -eq 'System'

Get-CimClass \*network\* | Sort CimClassName

18 Get-CimClass \*network\* | Sort CimClassName

```
PS C:\Users\khatr> Get-CimClass *network* | Sort CimClassName
              NameSpace: ROOT/cimv2
CimClassName
                                                                                                                                                                   CimClassMethods
                                                                                                                                                                                                                                                                  CimClassProperties
                                                                                                                                                                                                                                                                Caption, Description, InstallDate, Name...}
{Caption, Description, InstallDate, Name...}
{Caption, Description, SettingID, ArpAlwaysSourceRoute...}
{Element, Setting}
{Caption, Description, InstallDate, Name...}
{Caption, Description, InstallDate, Name...}
{Caption, Description, InstallDate, Name...}
{Caption, Description, SettingID, AccountExpires...}
{Caption, Description, InstallDate, Name...}
{Caption, Description, Name, Frequency_Object...}
CIM_NetworkAdapter
Win32_NetworkAdapter
Win32_NetworkAdapterConfiguration
Win32_NetworkAdapterSetting
Win32_NetworkClient
                                                                                                                                                                     {SetPowerState, R...
                                                                                                                                                                       {SetPowerState, R...
                                                                                                                                                                       EnableDHCP, Rene...
Win32_NetworkCrient
Win32_NetworkConnection
Win32_NetworkLoginProfile
Win32_NetworkProtocol
Win32_PerfFormattedData_Counters...
Win32_PerfFormattedData_Counters...
Win32_PerfFormattedData_Counters...
 Win32_PerfFormattedData_Counters...
Win32_PerfFormattedData_Counters...
Win32_PerfFormattedData_Tcpip_Ne...
Win32_PerfFormattedData_Tcpip_Ne...
Win32_PerframData_Counters_Netwo...
Win32_PerfRawData_Counters_PerPr...
Win32_PerfRawData_Counters_PerPr...
  Win32_PerfRawData_Counters_Physi...
Win32_PerfRawData_Counters_Remot...
Win32_PerfRawData_Tcpip_NetworkA...
Win32_PerfRawData_Tcpip_NetworkI...
Win32_SystemNetworkConnections
 PS C:\Users\khatr>
```