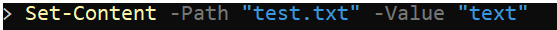
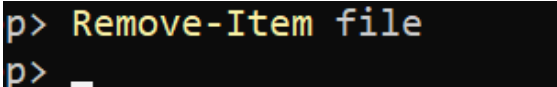
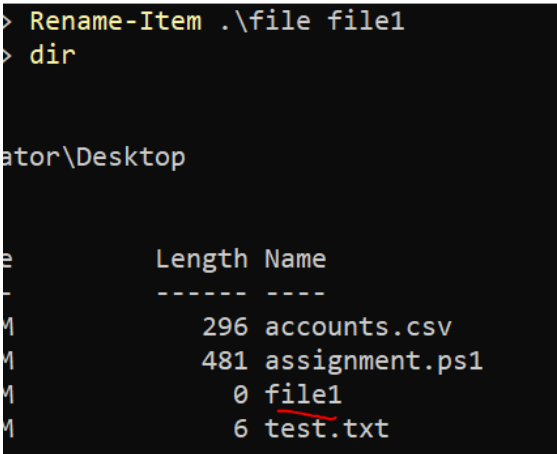
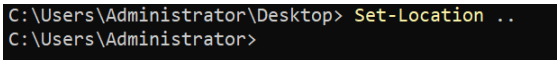
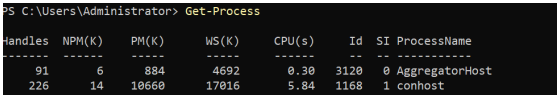
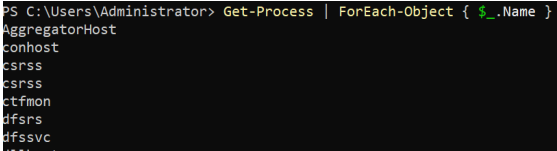
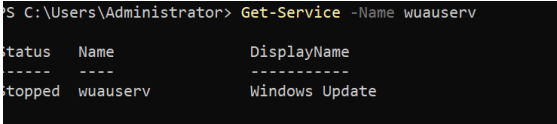
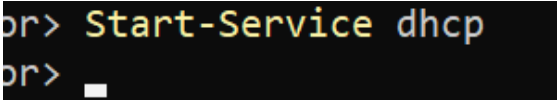
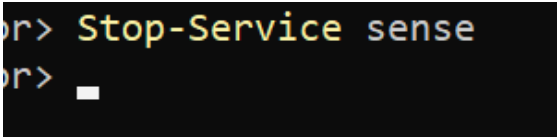
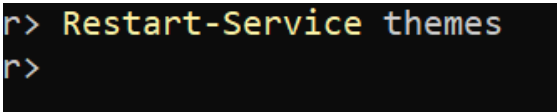
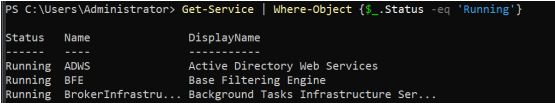
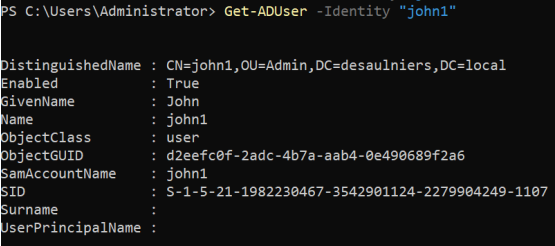
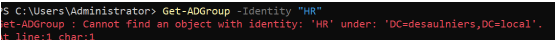
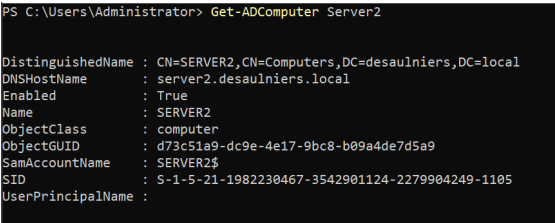
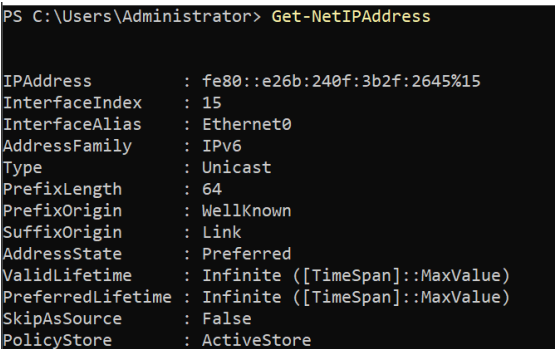



Cmdlet Name	Description	Syntax	Example	Screenshot
Get-Help	Displays help information for cmdlets and concepts	Get-Help <CmdletName>	Get-Help Get-Process	 <pre>PS C:\Users\Administrator\Desktop&gt; Get-Help Get-Process  NAME     Get-Process  SYNTAX     Get-Process [[-Name] &lt;string[]&gt;] [-ComputerName &lt;string[]&gt;] [         Get-Process [[-Name] &lt;string[]&gt;] -IncludeUserName [&lt;CommonPa         Get-Process -Id &lt;int[]&gt; -IncludeUserName [&lt;CommonParameters&gt;         Get-Process -Id &lt;int[]&gt; [-ComputerName &lt;string[]&gt;] [-Module]         Get-Process -InputObject &lt;Process[]&gt; -IncludeUserName [&lt;Comm         Get-Process -InputObject &lt;Process[]&gt; [-ComputerName &lt;string[]</pre>
Clear-Host	Clears the content in the PowerShell window.	Clear-Host	Clear-Host	N/A
Read-Host	Prompts the user for input in the console	Read-Host -Prompt <Message>	\$name = Read-Host -Prompt "Enter your name"	 <pre>PS C:\Users\Administrator\Desktop&gt; Read-Host Hello PS C:\Users\Administrator\Desktop&gt; _</pre>
New-Variable	Creates a new variable	New-Variable -Name <VariableName> -Value <Value>	New-Variable -Name x -Value 10	 <pre>PS C:\Users\Administrator\Desktop&gt; New-Variable -Name x -Value 10 PS C:\Users\Administrator\Desktop&gt; \$x 10</pre>
Set-ExecutionPolicy	Changes the user preference for the PowerShell script execution policy	Set-ExecutionPolicy <Policy>	Set-ExecutionPolicy Unrestricted	 <pre>PS C:\Users\Administrator\Desktop&gt; Set-ExecutionPolicy Unrestricted  Execution Policy Change The execution policy helps protect you from scripts that you do not trust. Changing the ex https://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy? [Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): y PS C:\Users\Administrator\Desktop&gt; _</pre>
Set-Alias	Creates a shortcut (alias) for a cmdlet or application	Set-Alias -Name <AliasName> -Value <CmdletOrPath>	Set-Alias -Name np -Value "C:\Windows\Notepad.exe"	 <pre>PS C:\Users\Administrator\Desktop&gt; Set-Alias -Name np -Value "C:\Windows\Notepad.exe" PS C:\Users\Administrator\Desktop&gt; np PS C:\Users\Administrator\Desktop&gt; _</pre>
Set-Content	Writes or replaces content in a file	Set-Content -Path <Path> -Value <Value>	Set-Content -Path C:\log.txt -Value "New log entry"	 <pre>&gt; Set-Content -Path "test.txt" -Value "text"</pre>
Get-ChildItem	Retrieves the files and folders in a specified location	Get-ChildItem -Path <Path>	Get-ChildItem -Path C:\Windows	 <pre>PS C:\Users\Administrator\Desktop&gt; Get-ChildItem  Directory: C:\Users\Administrator\Desktop  Mode                LastWriteTime         Length Name ----                - -a----          12/8/2024   1:30 PM             296 accounts.csv -a----          12/8/2024   1:31 PM             481 assignment.ps1 -a----          12/8/2024   4:25 PM              6 test.txt</pre>
New-Item	Creates a new file or folder	New-Item -Type <Type> -Path <Path> -Name <Name>	New-Item -Type File -Path C:\ -Name example.txt	 <pre>PS C:\Users\Administrator\Desktop&gt; New-Item -Type File -Path "C:\Users\Administrator\Desktop\" -Name file  Directory: C:\Users\Administrator\Desktop  Mode                LastWriteTime         Length Name ----                - -a----          12/8/2024   4:26 PM              0 file</pre>

Cmdlet Name	Description	Syntax	Example	Screenshot
Remove-Item	Deletes files or folders	Remove-Item -Path <Path>	Remove-Item -Path C:\temp\oldfile.txt	
Rename-Item	Renames a file or folder	Rename-Item -Path <Path> -NewName <NewName>	Rename-Item -Path C:\file.txt -NewName newfile.txt	
Set-Location	Changes the current working directory	Set-Location -Path <Path>	Set-Location -Path C:\Windows	
Get-Process	Retrieves a list of processes running	Get-Process -Name <ProcessName>	Get-Process -Name chrome	
ForEach-Object	Performs an operation on each item in a collection.	ForEach-Object { <ScriptBlock> }	Get-Process   ForEach-Object { \$_.Name }	
Get-Service	Retrieves the status of services	Get-Service -Name <ServiceName>	Get-Service wuauserv	
Start-Service	Starts a stopped service	Start-Service -Name <ServiceName>	Start-Service wuauserv	
Stop-Service	Stops a running service	Stop-Service -Name <ServiceName>	Stop-Service wuauserv	
Restart-Service	Restarts a service	Restart-Service -Name <ServiceName>	Restart-Service wuauserv	

Cmdlet Name	Description	Syntax	Example	Screenshot
Get-WmiObject	Retrieves management information	Get-WmiObject -Class <ClassName>	Get-WmiObject -Class Win32_BIOS	<pre>Administrator&gt; Get-WmiObject -Class Win32_BIOS  Version : VMW201.00V.21805430.B64.2305221830 Manufacturer : VMware, Inc. Version : VMW201.00V.21805430.B64.2305221830 UUID : VMware-56 4d 49 be 6f db 5c a9-c0 0f 27 5f f8 06 d0 bc Serial : INTEL - 6040000</pre>
Get-CimClass	Retrieves information about CIM classes	Get-CimClass	Get-CimClass -Namespace "root\CIMv2"	<pre>PS C:\Users\Administrator&gt; Get-CimClass -Namespace "root\CIMv2"  Namespace: ROOT/CIMv2  CimClassName          CimClassMethods      CimClassProperties ----- CIM_Indication          {}                    {CorrelatedIndicati CIM_ClassIndication     {}                    {CorrelatedIndicati CIM_ClassDeletion       {}                    {CorrelatedIndicati CIM_ClassCreation       {}                    {CorrelatedIndicati</pre>
Get-CimInstance	Retrieves management data from CIM instances	Get-CimInstance -ClassName <ClassName>	Get-CimInstance -ClassName Win32_OperatingSystem	<pre>PS C:\Users\Administrator&gt; Get-CimInstance Win32_AccountSID  Element                                     Setting ----- Win32_SystemAccount (Name = "Everyone", Domain = "SERVER1") Win32_SID (SID = "S-1-1-0") Win32_SystemAccount (Name = "LOCAL", Domain = "SERVER1") Win32_SID (SID = "S-1-2-0")</pre>
Get-NetAdapter	Gets network adapter configuration and status information	Get-NetAdapter	Get-NetAdapter	<pre>PS C:\Users\Administrator&gt; Get-NetAdapter  Name           InterfaceDescription      IfIndex Status      MacAddress      LinkSpeed ----- Ethernet0      Intel(R) 82574L Gigabit Network Conn... 15 Up        00-0C-29-00-00-BC 1 Gbps</pre>
New-SmbShare	Creates a new SMB share	New-SmbShare -Name <ShareName> -Path <Path>	New-SmbShare -Name "SharedFolder" -Path "C:\Shared"	<pre>PS C:\Users\Administrator&gt; New-SmbShare -Name "C:\Shared" -Path "C:\Shared"  Name           Path           Description ----- C:\Shared\IT</pre>
New-ScheduledTaskTrigger	Creates a trigger for a scheduled task	New-ScheduledTaskTrigger -At <Time> -Daily	New-ScheduledTaskTrigger -At "9:00AM" -Daily	<pre>PS C:\Users\Administrator&gt; New-ScheduledTaskTrigger -At "9:00AM" -Daily  Enabled          : True EndBoundary      : ExecutionTimeLimit : Id              : Repetition       : StartBoundary    : 2024-12-08T14:00:00Z DaysInterval     : 1 RandomDelay      : PSComputerName   :  PS C:\Users\Administrator&gt;</pre>
Test-Connection	Tests the network connection to a computer or device	Test-Connection -ComputerName <ComputerName>	Test-Connection -ComputerName google.com	<pre>PS C:\Users\Administrator&gt; Test-Connection -ComputerName desaulniers.local  Source      Destination      IPV4Address      IPV6Address ----- SERVER1     desaulniers.... 192.168.0.6 SERVER1     desaulniers.... 192.168.0.6</pre>
Get-Command	Gets all cmdlets, functions, workflows, and aliases in the session	Get-Command	Get-Command	<pre>PS C:\Users\Administrator&gt; 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-AppProvisionedPackage               3.0     Dism</pre>
Select-Object	Selects specific properties or objects from a pipeline	Select-Object -Property <PropertyName>	Get-Service   Select-Object -Property Name, Status	<pre>PS C:\Users\Administrator&gt; Get-Service   Select-Object -Property Name, Status  Name           Status ----- ADWS           Running ADRouter       Stopped ALG            Stopped</pre>

Cmdlet Name	Description	Syntax	Example	Screenshot
Where-Object	Filters objects based on a condition	Where-Object { <Condition> }	Get-Service   Where-Object {\$_.Status -eq 'Running'}	
Get-ADUser	Retrieves a user from Active Directory	Get-ADUser -Identity <Username>	Get-ADUser -Identity "john1"	
Get-ADGroup	Retrieves a group from Active Directory	Get-ADGroup -Identity <GroupName>	Get-ADGroup -Identity "HR"	
Get-ADComputer	Retrieves a computer from Active Directory	Get-ADComputer -Identity <ComputerName>	Get-ADComputer -Identity "Server01"	
Get-NetIPAddress	Retrieves IP address information for network adapters	Get-NetIPAddress	Get-NetIPAddress	
Get-DhcpServerv4Lease	Retrieves DHCP leases on a DHCP server	Get-DhcpServerv4Lease -ComputerName <Name> -ScopeId <ScopeId>	Get-DhcpServerv4Lease -ComputerName "server1" -ScopeId 192.168.0.0	
Get-NetIPConfiguration	Retrieves the IP configuration for network adapters	Get-NetIPConfiguration	Get-NetIPConfiguration	