

In PowerShell, key cmdlets are **native commands that perform specific tasks, recognized by their verb-noun naming structure**. Examples include Get-Process, Start-Service, and New-Item. These cmdlets are essential for automating tasks and managing the system

Key Cmdlets and their uses:

- Get-Command: Lists all available PowerShell commands, including cmdlets, functions, and aliases. It helps users discover and understand the capabilities of PowerShell.
- Get-Help: Provides detailed documentation for a specific cmdlet, including syntax, parameters, and examples. It's crucial for learning how to use a particular cmdlet effectively.
- Get-Process: Retrieves information about running processes on the system.
- Start-Service: Starts a specified service.
- Stop-Service: Stops a specified service.
- New-Item: Creates new files, directories, or registry keys.
- Get-Item: Retrieves information about existing files, directories, or registry keys.
- Set-Item: Modifies properties of existing files, directories, or registry keys.
- Test-Connection: A PowerShell cmdlet similar to ping for network connectivity testing.
- Get-Module: Lists all loaded PowerShell modules.
- Import-Module: Imports a specific module to extend PowerShell's capabilities.
- Remove-Module: Removes a module from memory.
- Get-ExecutionPolicy: Displays the current execution policy for PowerShell scripts.
- Set-ExecutionPolicy: Sets the execution policy for PowerShell scripts.
- Get-WmiObject: Retrieves information from the Windows Management Instrumentation (WMI) repository.
- Invoke-Expression: Executes a specified string as a PowerShell expression.
- Write-Output: Displays output to the console.
- Out-File: Writes output to a file.
- Read-Host: Reads input from the user.
- Test-Path: Checks if a specified path exists.
- Remove-Item: Deletes files, directories, or registry keys.
- New-PSDrive: Creates a new PowerShell drive.
- Get-PSDrive: Displays information about existing PowerShell drives.
- Remove-PSDrive: Removes a PowerShell drive.
- New-Object: Creates new objects.
- Invoke-WebRequest: Sends a web request.
- Invoke-RestMethod: Sends a REST API request.

Example of a Cmdlet:

Get-ChildItem (often shortened to Get-ChildItem or Get-ChildItem) lists the contents of a directory. For example, Get-ChildItem C:\Program Files would list all files and folders within the "Program