Important PowerShell Cmdlets

Core Cmdlets & Information Retrieval

- Get-Command: Lists all available PowerShell commands.
 - Example: Get-Command -Noun Process
- Get-Help: Provides detailed documentation for a specific cmdlet.
 - Example: Get-Help Get-Process -Full
- Get-Process: Retrieves information about running processes.
 - o Example: Get-Process | Select-Object Name, CPU, WorkingSet

Action-Oriented Cmdlets

- Start-Service: Starts a specified service.
 - Example: Start-Service -Name "Spooler"
- **Stop-Service**: Stops a specified service.
 - Example: Stop-Service -Name "Spooler"
- New-Item: Creates new files, directories, or registry keys.
 - Example: New-Item -Path "C:\Temp\NewFolder" -ItemType Directory

Input and Output Cmdlets

- Read-Host: Prompts the user for input.
 - Example: \\$name = Read-Host "Enter your name"
- Write-Host: Displays output directly to the console.
 - Example: Write-Host "Hello, PowerShell!" -ForegroundColor Green
- Out-File: Writes output to a file.
 - Example: Get-Process | Out-File -FilePath "C:\Temp\processes.txt"

Formatting Cmdlets

- Format-Table: Displays output in a table format.
 - Example: Get-Service | Format-Table Name, Status, StartType
- Format-List: Displays output as a list of properties.
 - Example: Get-Process -Name "explorer" | Format-List *
- Format-Wide: Displays output in a wide format.
 - Example: Get-ChildItem | Format-Wide -Column 3

Utility & Network Cmdlets

- Test-Connection: Tests network connectivity.
 - Example: Test-Connection -ComputerName "google.com"
- Test-Path: Checks if a specified path exists.
 - o Example: Test-Path -Path "C:\NonExistentFolder"
- Invoke-WebRequest: Sends a web request.
 - Example: Invoke-WebRequest -Uri "https://www.google.com"

Pipeline & Filtering Cmdlets

- Where-Object: Filters objects based on specified criteria.
 - Example: Get-Process | Where-Object { \\$.CPU -gt 100 }
- Sort-Object: Sorts objects based on specified criteria.
 - o Example: Get-Process | Sort-Object -Property CPU -Descending
- **Select-Object**: Selects specific properties of objects.
 - o Example: Get-Service | Select-Object Name, Status