

Windows PowerShell Cheat Sheet

BASICS

- Launch PowerShell:
Start Menu, Win+R -> powershell, File Explorer (address bar), Task Manager, or Command Prompt.
- Cmdlets Syntax:
Verb-Noun format (e.g., Get-Content, Set-Location)
- Get Help:
Get-Help <cmdlet> [-examples | -detailed | -full | -online]
- List Commands:
Get-Command [-Name <pattern*>] [-CommandType Function/Alias/Cmdlet]
- Aliases:
Get-Alias # View aliases (e.g., dir = Get-ChildItem)

FILE & FOLDER MANAGEMENT

- List: Get-ChildItem (alias: dir, ls)
- Change Directory: Set-Location (alias: cd)
- Create: New-Item -Path . -ItemType File/Directory
- Delete: Remove-Item (alias: del, rm)
- Copy: Copy-Item
- Move: Move-Item
- Read: Get-Content (alias: type, cat)

SEARCHING & FILTERING

- Sort: Sort-Object <Property>
- Filter: Where-Object -Property <Property> -eq/-like/-gt <value>
- Search in files: Select-String "<text>" [-Path *.txt]
- Select specific data: Select-Object Name, Length

SYSTEM & NETWORK INFO

- Get-ComputerInfo # System details (OS, hardware, BIOS)
- Get-LocalUser # Local user accounts
- Get-NetIPConfiguration # Network interfaces, IPs, DNS, gateways
- Get-NetIPAddress # All IP addresses (active/inactive)
- Get-NetTCPConnection # Active TCP connections

REMOTE EXECUTION

- Invoke-Command -ComputerName TargetPC -ScriptBlock { <cmd> }

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- Invoke-Command -FilePath C:\scripts\test.ps1 -ComputerName TargetPC

SECURITY TASKS

- Get-FileHash <file> # Calculate file hash
- Get-Service # List running services
- Set-Service -Name <name> -Status Running/Stopped

OPERATORS

- Comparison: -eq, -ne, -gt, -lt, -ge, -le, -like
- Pipeline: | (passes objects between cmdlets)