POWERSHELL CHEAT SHEET

BASIC COMMANDS:

- General Commands:

- Get-Command (alias: gc): Displays a list of all available cmdlets and functions
- Get-Help (alias: help): Displays help information
- Get-Member(alias: gm): Displays the properties and methods of an object.
- Format-list(alias: fl): Formats output as a list.
- Clear-Host(alias: clear): Clears the console screen.

- Navigation and File System:

- Set-Location (alias: cd): Changes the current directory.
- Get-ChildItem (alias: gci): Displays the files and directories in the current directory
- New-Item (alias: ni): Creates a new file or directory.
- Copy-Item (alias: cp): Copies a file or directory.
- Move-Item (alias: mv): Moves a file or directory.
- Remove-Item (alias: rm): Removes a file or directory.
- Get-Content(alias: cat): Displays the contents of a file.
- Set-Content(alias: sc): Sets the contents of a file.
- Test-Path: Tests whether a file or directory exists.
- Rename-Item (alias: rm): Renames a file or directory.

- Network Commands:

- Get-NetIPAddess: Get IP address info.
- Get-DnsClient: Get DNS client settings.
- Get-NetAdapter: Get network adapter info.

BASIC COMMANDS:

- Process and Service Commands

- Start-Process(alias: saps): Starts one or more process in local computer.
- Stop-Process(alias: kill): Stop a running process.
- Get-Process (alias: gps): Displays the running processes.
- Start-Service(alias: sasv): Starts a service.
- Stop-Service(alias: spsv): Stops a service.
- Get-Service(alias: gsv): Displays the running services.
- Restart-Service: Restarts a service.

- Host and Console Commands:

- Get-Host(alias: host): Displays information about the host system.
- Write-Host(alias: echo): Writes output to the console.
- Read-Host: Reads input from the console.

- Text processing commands

- Select-String: Searches for text patterns in input strings or files.
- Sort-Object: Sorts objects in a collection based on specified properties
- Split: Splits a string into substrings based on a specified delimiter.
- Join: Combines an array of strings into a single string using a specified delimiter.
- Replace: Replaces text matching a specified pattern with a new value.

- Network Commands:

- Get-NetFirewallRule: Get Firewall rules.
- Get-NetNeighbor: Get info about other devices on the network.
- Get-NetRoute: Get routing table info.

UTILITY COMMANDS

- System control commands

Shutdown	Stop-Computer Force.
Sleep	Start-Sleep -Minutes 1.
Restart	Restart-Computer Forces.
Switching user	Start-Processpowershell.exe -Credential "User".
Check for available updates	$updates = Get-WindowsUpdate -Online.
Install all available updates	$updates |Install-WindowsUpdate -AcceptAll -Verbose.
Setting the date	Set-Date -Date "2024-04-17"
Setting the time	Set-Date -Hour 15 -Minute 30
Opening the setting	Start-Process "ms-settings:"
Opening the GitHub	Start-Process "https://github.com"
Displaying the calendar	Get-Date -DisplayHint Calendar

- File Manipulation Commands

Adding content to the end of the file	Add-Content -Path "Path" -Value "text to be added"
Clearing the file content	Clear-Content -Path "Path"
To view all hidden files	Get-ChildItem -Force
To hide a file	attrib +h "Path"
To unhide a particular file	attrib -h "path"
To display the files in sorted manner	Get-ChildItem -Directory	Sort-Object Name
Select-String	Select-String -Path "file" -Pattern "word"
Set-Content	Set-Content -Path "file" -Value "ontent"

- Error Handling Commands

ErrorAction Parameter	Get-ChildItem -Path "Path-ErrorAction Stop
ErrorVariable Parameter	Get-ChildItem -Path "Path-ErrorVariable err
$Error Automatic Variable	$Error[0].Exception.Message
ErrorActionPreference Variable	$ErrorActionPreference="Stop"
ErrorView	Get-Process -Name "Process-ErrorAction View

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