

PowerShell Cheat Sheet

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Basic Commands

Cmdlet
Commands built into shell written in .NET

Functions
Commands written in PowerShell language

Parameter
Argument to a Cmdlet/Function/Script

Alias
Shortcut for a Cmdlet or Function

Scripts
Text files with .ps1 extension

Applications
Existing windows programs

Pipelines
Pass objects Get-process word | Stop-Process

Ctrl+c
Interrupt current command

Left/right
Navigate editing cursor

Ctrl+left/right
Navigate a word at a time

Home / End
End Move to start / end of line

Up/down
Move up and down through history

Insert
Toggles between insert/overwrite mode

F7
Command history in a window

Tab / Shift-Tab
Command line completion

Variables

`$var = "string"` Assign variable

`$a,$b = 0 or $a,$b = 'a','b'` Assign multiple variables

`$a,$b = $b,$a` Flip variables

`$var=[int]5` Strongly typed variable

Help

Get-Command Get all commands

Get-Command -Module RGHS Get all commands in RGHS module

Get-Command Get-p* Get all commands starting with get-p

Get-help get-process Get help for command

Get-Process | Get-Member Get members of the object

Get-Process| format-list -properties * Get-Process as list with all properties

["abc" | get-member -membertype Method](#); [Get-Date | get-member -MemberType Property](#)

Import, Export, Convert

Export-CliXML Import-CliXML

ConvertTo-XML ConvertTo-HTML

Export-CSV Import-CSV

ConvertTo-CSV ConvertFrom-CSV

Flow Control

```
If(){ Elseif(){ } Else{ }  
while(){ }  
For($i=0; $i -lt 10; $i++){ }  
Foreach($file in dir C:\){$file.name}  
1..10 | foreach{$_}
```

Comments, Escape Characters

#Comment **Comment**

<#comment#> **Multiline Comment**

`"\"test\""` **Escape char`**

``t` **Tab**

``n` **New line**

``.` **Line continue**

Parameters

-Confirm Prompt whether to take action

-WhatIf Displays what command would do

Assignment, Logical, Comparison

`=, +=, -=, ++, --` Assign values to variable

`-and, -or, -not, !` Connect expressions / statements

`-eq, -ne` Equal, not equal

`-gt, -ge` Greater than, greater than or equal

`-lt, -le` Less than, less than or equal

`-replace` "Hi" -replace "H","p"

`-match, -notmatch` Regular expression match

`-like, -notlike` Wildcard matching

`-contains, -notcontains` Check if value in array

Common cmdlets

cd, chdir, sl Set-Location

cat, gc, type Get-Content

ac Add-Content

sc Set-Content

copy, cp, cpi Copy-Item

del, erase, rd, ri, rm, rmdir Remove-Item

mi, move, mv Move-Item

si Set-Item

ni New-Item

sleep Start-Sleep

sajb Start-Job

compare, diff Compare-Object

group Group-Object

curl, iwr, wget Invoke-WebRequest

measure Measure-Command

nal New-Alias

rvpa Resolve-Path

rujb Resume-Job

set, sv Set-Variable

shcm Show-Command

sort Sort-Object

sasv Start-Service

saps, start Start-Process

sujb Suspend-Job

wjb Wait-Job

?, where Where-Object

echo, write Write-Output

lpscustom