## // LAZYADMIN

# PowerShell Cheat Sheet



#### Good to know

Ctrl + Space

Notepad \$profile

Display all parameters of the cmdlet.

Get command history

View all defined aliasses

Edit your PowerShell Profile

## **Operators**

\$a += 5 \$a -= 5 \$a \*= 2 \$a /= 2

2 -eq \$a 2 -ne \$a 

2 -ge \$a 2 -le \$a

Add or Subtract and assign Multiple or Devide and assign

Equal or Not Equal Variable on right side! Greater or Less then

Greater/less Than or Equal

ole on right side!

The comparison operators below also have a counterpart that start with -not. For example, -notlike or -notin

"file.txt" -like "\*.txt"

"FileName" -match "^File" Regex matching

1 **-in** @(1,3,5)

@(1,3,5) -contains 2

Pattern matching using wildcards

Pattern matching using wildcards

Check if collection contains

## Variables & Objects

\$var = "Hello"

\$a, \$b = "Hello", "Bye"

 $next{$range = 1..10}$ \$\_

\$null

[type]\$var **\$global:**var Assign value to variable

Multiple variable assignment Create array with sequence

Get current pipeline object

Null value

Declared typed (int, string) variable Assign variable in global scope

# Input/Output

\$var = Read-Host

Write-Host "Hello"

Write-Host "\$(\$obj.test)" **Get-Content** 

Import-Csv **Export-Csv** 

\$var | Out-GridView

\$var | Clip **Get-Clipboard**  Read user input

Write to console

Write to console with obj property Read file content

Import from CSV file Export to CSV file

Output to interactive grid view

Copy results to clipboard Get results from clipboard

## Notes

## Running Scripts & Processing

..\script.ps1 &.\script.ps1 Run script in current scope Run script in new scope

Start-Process notepad

Start external process or application

Run script or task in the background

#### Flow Control Statements

if (\$condition) { } else { }

(\$x -gt 10) ? "High" : "Low"

switch (\$var) { }

for  $\{i=0; i-1t : 10; i++\}$ 

foreach (\$item in \$collection) {} while (\$condition) { }

\$result = \$value ?? "Default"

\$value ??= DefaultValue

PS7 Assigns if null

\$result = \${object}?.Property \$element = \${array}?[index]

PS7 Ternary operator for if-else Switch statement Standard for loop

Simple If - Else statement

Loop to iterate collections

While loop with a condition PS7 Assigns default if value is null

PS7 Access prop. if object exists PS7 Access element if array exists

#### Collections & Hashtables

\$array = @('item1', 'item2', 'item3') Create array with value

\$array[index] \$array.**Length** \$array.**Add(**item)

\$array.Remove(item)

}

 $hash = \mathbf{Q} \{ key1 = 'value1'; \}$ key2 = 'value2';}

\$hash.key1

\$hash.key2 = 'new value' \$hash.Add('key3', 'value')

\$hash.**Remove(**'key2') \$obj = [PSCustomObject]@{

Prop1 = 'Val1'Prop2 = 'Val2' Access array element Get array length

Add item to array Remove item from array Create hash table

Access hash key Assign value to hash key Add key-value pair Remove key-value pair

Custom object

# Pipeline and Formatting

Get-Process | Sort-Object - Propery Name

Get-ChildItem \*.txt | Where-Object {\$\_.Length -gt 1KB} Get-Process | Select-Object -Property Name, ID, CPU Get-Process | ForEach-Object {\\$\_.ProcessName} Get-ChildItem | Format-List - Property Name, Length Get-Process | Format-Table -Property ID, CPU -AutoSize