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PowerShell Cheat Sheet

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PowerShell is a powerful scripting language and command-line shell developed by Microsoft for task automation and configuration management. It has become an essential tool for Windows administrators, allowing them to efficiently manage and automate various tasks. Whether you're a seasoned PowerShell user or just getting started, having a cheatsheet can be incredibly helpful. In this blog post, we'll provide a comprehensive PowerShell cheat sheet to assist you in your day-to-day tasks.

Links

[PowerShell Documentation](#)

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Hello World! in Powershell

```
Write-Output 'Hello, World!'
'Hello, World!' | Write-Output
```

This will print Hello, World! 2 times

Getting Started with PowerShell

Launching PowerShell

Win + X

Opening PowerShell: Press **Win + X** and choose "Windows PowerShell" or "PowerShell" from the menu.

Run as Administrator: Right-click on the PowerShell icon and select "Run as Administrator."

Basic Commands

Get-Help

Display help for cmdlets and functions. Example: **Get-Help Get-Process**

Get-Command

List all available commands

Working with Modules

Import-Module <ModuleName>

Load a PowerShell module

Get-Module

List loaded modules

Navigating the File System

File System Navigation

Get-Location

Display the current directory

Set-Location

Change the current directory. Example: **Set-Location C:**

Listing Files and Directories

Get-ChildItem

List items in a directory. Example: **Get-ChildItem -Path C:**

Working with Processes

Managing Processes

Get-Process

Display a list of running processes

Stop-Process -Name <ProcessName>

Terminate a running process

Managing Services

Service Management

Get-Service

List all services

Start-Service -Name <ServiceName>

Start a service

Stop-Service -Name <ServiceName>

Stop a service

Working with PowerShell Variables

Variables

<variable_name>

Create a variable. Example: \$name = "John"

Write-Host <name>

Display the value of a variable.

Arrays

<colors> = @('Red', 'Green', 'Blue')

@(): Create an array

Conditional Statements

If-Else Statements

```
if (condition) {
    # Code to execute if condition is true
} else {
    # Code to execute if condition is false
}
```

Switch Statement

```
switch (expression) {
    'Value1' { # Code for Value1 }
    'Value2' { # Code for Value2 }
    Default { # Code for other values }
}
```

Looping Constructs

ForEach Loop

```
foreach ($item in $collection) {
    # Code to execute for each item
}
```

While Loop

```
while (condition) {
    # Code to execute while condition is true
}
```

PowerShell Functions

Functions

```
function MyFunction {
    param (
        [parameter_type]$parameter1,
        [parameter_type]$parameter2
    )

    # Function code here
}
```

Function Multiply Example

```
function Multiply-Numbers {
    param (
        [int]$num1,
        [int]$num2
    )

    $result = $num1 * $num2
    return $result
}

$result = Multiply-Numbers -num1 5 -num2 8
Write-Host "Result: $result"
```

Pipeline

Get-Process | Stop-Process

| (Pipe): Pass the output of one command as input to another.

Congratulations on reaching the end of this PowerShell Scripting Language Cheatsheet! This resource is designed to make your coding experience easy and efficient. Feel free to bookmark this page or download the PDF for future reference. Happy Powershell Scripting!

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