

PowerShell-Introduction to PowerShell

Here's a summary of the basics of PowerShell, along with examples:

What is PowerShell?

PowerShell is a task automation and configuration management framework from Microsoft. It allows you to run commands, scripts, and tools on Windows computers.

Basic Concepts:

- 1. Command Line Interface (CLI):** PowerShell provides a command line interface where you can type commands to execute tasks.
- 2. Sessions:** A PowerShell session is like a terminal window, where you can interact with the shell, run commands, and access information.
- 3. Cmdlets:** Cmdlets are the building blocks of PowerShell. They're lightweight, self-contained modules that perform specific tasks.

Basic Syntax:

- 1. Variables:** In PowerShell, variables start with a `$` symbol. For example:

```
$myVariable = "Hello, World!"  
echo $myVariable # outputs "Hello, World!"
```

- 2. Functions:** Functions are reusable blocks of code that perform specific tasks. Here's an example:

```
function Greet {  
    param ($name)  
    echo "Hello, $name!"  
}  
  
Greet -name "John" # outputs "Hello, John!"
```

- 3. Arrays:** Arrays in PowerShell are like lists in other languages. They're denoted by the `@()` syntax:

```
$myArray = @("apple", "banana", "orange")  
echo $myArray[1] # outputs "banana"
```

Basic Commands:

1. **Get-Date:** Retrieves the current date and time.

```
Get-Date # outputs the current date and time
```

2. **Write-Host:** Outputs text to the console.

```
Write-Host "Hello, World!" # outputs "Hello, World!"
```

3. **Get-Process:** Lists all running processes on your system.

```
Get-Process | Select-Object -Property ProcessName, Id # lists processes with name and id
```

These are just some of the basics of PowerShell. I hope this summary helps you get started with using PowerShell!

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