### What is PowerShell?

**PowerShell** is a **command-line shell** and a **scripting language** developed by Microsoft, designed to automate administrative tasks and interact with the operating system and other software. It's more powerful than the traditional Command Prompt (CMD) and has several advanced features.

Here are some basic PowerShell commands along with examples to help you get started:

**1. Get-Help**

* Used to get information about cmdlets, functions, scripts, and modules.

**Example:**

powershell

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Get-Help Get-Process

**2. Get-Command**

* Retrieves all cmdlets, functions, workflows, and aliases available in the current session.

**Example:**

powershell

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Get-Command

**3. Get-Process**

* Displays a list of processes running on the system.

**Example:**

powershell

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Get-Process

**4. Stop-Process**

* Stops a running process by its process ID or name.

**Example:**

powershell

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Stop-Process -Name "notepad"

**5. Get-Service**

* Lists the status of services on your system.

**Example:**

powershell

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Get-Service

**6. Start-Service**

* Starts a specific service.

**Example:**

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Start-Service -Name "wuauserv"

**7. Set-Service**

* Modifies the properties of a service, such as its startup type.

**Example:**

powershell

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Set-Service -Name "wuauserv" -StartupType Automatic

**8. Get-ChildItem**

* Displays the contents of a directory (like dir in cmd).

**Example:**

powershell

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Get-ChildItem C:\Users

**9. Copy-Item**

* Copies a file or folder from one location to another.

**Example:**

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Copy-Item "C:\source\file.txt" "C:\destination\file.txt"

**10. Move-Item**

* Moves a file or folder from one location to another.

**Example:**

powershell

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Move-Item "C:\source\file.txt" "C:\destination\file.txt"

**11. Remove-Item**

* Deletes a file or folder.

**Example:**

powershell

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Remove-Item "C:\path\to\file.txt"

**12. Get-Content**

* Displays the content of a file.

**Example:**

powershell

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Get-Content "C:\path\to\file.txt"

**13. Set-Content**

* Writes or replaces the content in a file.

**Example:**

powershell

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Set-Content "C:\path\to\file.txt" "Hello, World!"

**14. Get-EventLog**

* Retrieves event logs from your system.

**Example:**

powershell

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Get-EventLog -LogName Application -Newest 5

**15. Get-Help**

* Displays help about commands.

**Example:**

powershell

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Get-Help Get-Process

**16. Out-File**

* Redirects the output of a command to a file.

**Example:**

powershell

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Get-Process | Out-File "C:\path\to\processes.txt"

**17. New-Item**

* Creates a new file or directory.

**Example:**

powershell

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New-Item -Path "C:\path" -Name "newfolder" -ItemType Directory

**18. Rename-Item**

* Renames a file or folder.

**Example:**

powershell

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Rename-Item "C:\path\oldname.txt" -NewName "newname.txt"

**19. Get-PSDrive**

* Lists all available drives (local, network, etc.).

**Example:**

powershell

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Get-PSDrive

**20. Set-ExecutionPolicy**

* Changes the script execution policy on the system.

**Example:**

powershell

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Set-ExecutionPolicy RemoteSigned

These are just some of the fundamental PowerShell commands that you can use. As you get comfortable, you can explore more advanced concepts such as piping, filtering, and scripting!