

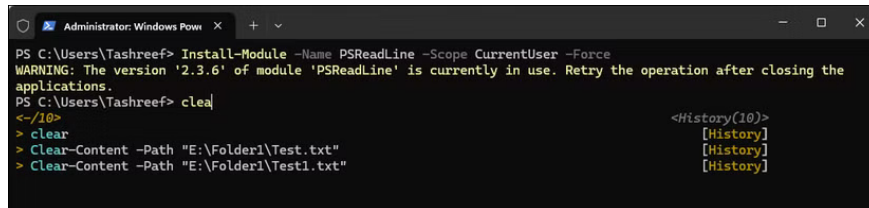
6 PowerShell modules that will change the way you work

Pre-built PowerShell modules handle most common tasks better than anything you could write from scratch.

If you're still writing custom PowerShell scripts for basic file transfers and Excel reports, you're working too hard. Prebuilt PowerShell modules handle most common tasks better than anything you could write from scratch.

6. PSReadLine

PSReadLine is included with PowerShell by default, but many people, including advanced PowerShell users, don't take full advantage of it. This module adds powerful command line editing features like syntax highlighting, multi-line editing, and predictive IntelliSense.



Before you begin, run the following command to install the latest version of PSReadLine:

```
Install-Module -Name PSReadLine -Scope CurrentUser -Force
```

IntelliSense predicts based on your command history to suggest completion as you type. To enable this feature, run:

```
Set-PSReadLineOption -PredictionSource History Set-PSReadLineOption -PredictionV
```

Make sure you have a few commands in your history - try running commands like **ipconfig**, **Get-Service**, or other useful PowerShell commands.

5. ImportExcel

ImportExcel has over 14 million downloads on the PowerShell Gallery, and for good reason. It allows you to create spreadsheets without having Excel installed, which is important when working with servers or automation scripts.

```
Administrator: Windows Power Shell
PS C:\Users\Tashreef> Get-Service | Where-Object {$_.Status -eq "Running"} |
>> Export-Excel -Path "ServiceReport2.xlsx" -AutoSize -TableStyle Medium9 -FreezeTopRow
```

Type the following command to install the module:

```
Install-Module -Name ImportExcel -Scope CurrentUser
```

This module supports everything from basic export commands to complex features like pivot tables, charts, and conditional formatting.

4. PSWriteHTML

PSWriteHTML converts PowerShell output into HTML reports with tables, charts, and filters. This is a great way to create HTML reports and pages from PowerShell scripts without any knowledge of HTML.

```
Administrator: Windows Power Shell
PS C:\Users\Tashreef> Install-Module -Name ImportExcel -Scope CurrentUser
PS C:\Users\Tashreef> Import-Module PSWriteHTML
PS C:\Users\Tashreef> $procs = Get-Process |
>> Select-Object Name, CPU, WorkingSet -First 10
PS C:\Users\Tashreef> New-HTML -TitleText "System Report" -FilePath "Report.html" -ShowHTML {
>> New-HTMLSection -HeaderText "Process Information" {
>> New-HTMLTable -DataTable $procs -Filtering -Buttons @( 'copyHtml5', 'excelHtml5' )
>> }
PS C:\Users\Tashreef>
```

Type the following command to install the module:

```
Install-Module -Name PSWriteHTML -Scope CurrentUser
```

For example, to generate a system report of the top 10 CPU-using processes:

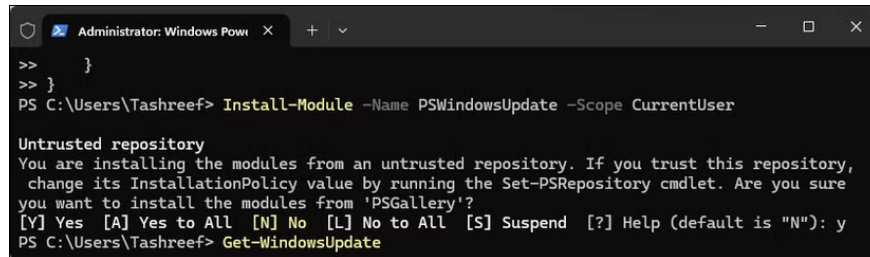
```
Import-Module PSWriteHTML $procs = Get-Process | Select-Object Name, CPU, WorkingSet
```

The resulting HTML includes sorting, filtering, and even an export button powered by JavaScript.

Name	CPU	WorkingSet
AggregatorHost	22.234375	7499776
ai	0.921875	2072576
ai	9.359375	21250048
amdfeन्द्रsr	1.375	1323008
AppActions	8.734375	3821568
AppHelperCap	31.984375	3051520
ApplicationFrameHost	235.890625	41267200
AppVShNotify	0.046875	1196032

3. PSWindowsUpdate

PSWindowsUpdate is the most downloaded module on the PowerShell Gallery, with over 33 million downloads. As the name suggests, this module includes cmdlets for managing the Windows Update Client.



```
Administrator: Windows Pow... x + v
>> }
>> }
PS C:\Users\Tashreef> Install-Module -Name PSWindowsUpdate -Scope CurrentUser

Untrusted repository
You are installing the modules from an untrusted repository. If you trust this repository,
change its InstallationPolicy value by running the Set-PSRepository cmdlet. Are you sure
you want to install the modules from 'PSGallery'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): y
PS C:\Users\Tashreef> Get-WindowsUpdate
```

Type the following command to install the module:

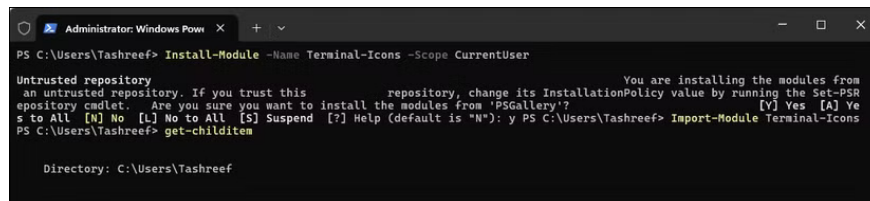
```
Install-Module -Name PSWindowsUpdate -Scope CurrentUser
```

This module includes cmdlets for every Windows Update operation you might need - perfect for PowerShell automation workflows. During maintenance, you can check for pending updates on all servers at once using:

```
$Servers = 'SERVER01', 'SERVER02', 'SERVER03' Invoke-Command -ComputerName $Servers
```

2. Terminal-Icons

Terminal-Icons helps you make your PowerShell terminal more interesting by adding file type icons to the PowerShell folder list. Each file type has its own icon and color, making folder navigation much easier.



```
Administrator: Windows Pow... x + v
PS C:\Users\Tashreef> Install-Module -Name Terminal-Icons -Scope CurrentUser

Untrusted repository
You are installing the modules from an untrusted repository. If you trust this repository, change its InstallationPolicy value by running the Set-PSRepository cmdlet. Are you sure you want to install the modules from 'PSGallery'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): y PS C:\Users\Tashreef> Import-Module Terminal-Icons
PS C:\Users\Tashreef> get-childitem

Directory: C:\Users\Tashreef
```

Type the following command to install the module:

```
Install-Module -Name Terminal-Icons -Scope CurrentUser
```

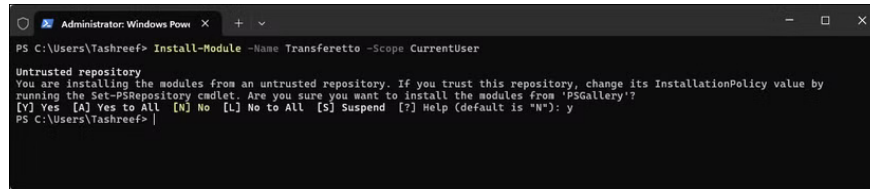
This module connects to the Get-ChildItem output format. Once installed, type:

```
Import-Module Terminal-Icons
```

Now, when you use **Get-ChildItem** or its aliases, each file type will display its own icon and color.

1. Transfer

Transferetto is a PowerShell module that makes working with FTP, FTPS, and SFTP much easier. Instead of having to drop into .NET layers or install external tools, you get clean, native PowerShell cmdlets.



```
Administrator: Windows PowerShell
PS C:\Users\Tashreef> Install-Module -Name Transferetto -Scope CurrentUser

Untrusted repository
You are installing the modules from an untrusted repository. If you trust this repository, change its InstallationPolicy value by running the Set-PSRepository cmdlet. Are you sure you want to install the modules from 'PSGallery'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): y
PS C:\Users\Tashreef>
```

Type the following command to install the module:

```
Install-Module -Name Transferetto -Scope CurrentUser
```

The workflow will be familiar if you've used database modules before. You connect, do your work, then disconnect:

```
$Client = Connect-FTP -Server "ftp.example.com" -Credential (Get-Credential) Send
```

In addition to the basics, Transferetto supports SSL options, encryption modes, certificate authentication switches, and a handy Request-FTPConfiguration command that can automatically check server connection settings for you.

You finished reading the article "**6 PowerShell modules that will change the way you work**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.