Top 5 PowerShell Modules You Need to Know About

// lazyadmin.nl/powershell/top-5-powershell-modules

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I have been using PowerShell for quite some years now, and over the years I have installed a lot of PowerShell modules. Most are purely functional, to connect to Exchange Online for example, but others are just really handy tools to have.

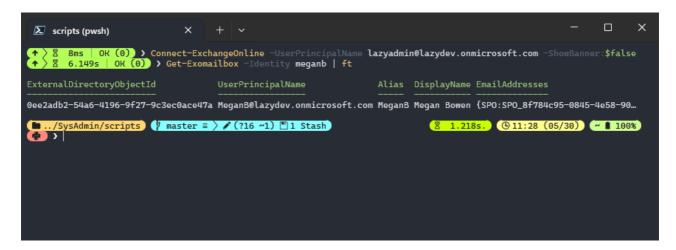
Even though there are a lot more PowerShell Modules that are worth to install, these are probably the best PowerShell modules that I used the most. If you have some good suggestion, make sure you let me know in the comments.

In this article, I will show you my Top 5 PowerShell modules that you should need to know about.

Oh-My-Posh

We of course have to start with one of the best PowerShell modules, Oh My Posh. This is a custom prompt engine that can be used with any shell and allows you to fully customize your terminal.

The latest version of Oh My Posh works with theme files, allowing you to easily create and share your custom theme. There is an <u>extensive list</u> of themes available, allowing you to easily pick one and get started.



You can not only add colors to your terminal but also useful information, like the Git status, user information, or system information.

To get started with Oh My Posh, you can install it using the following command:

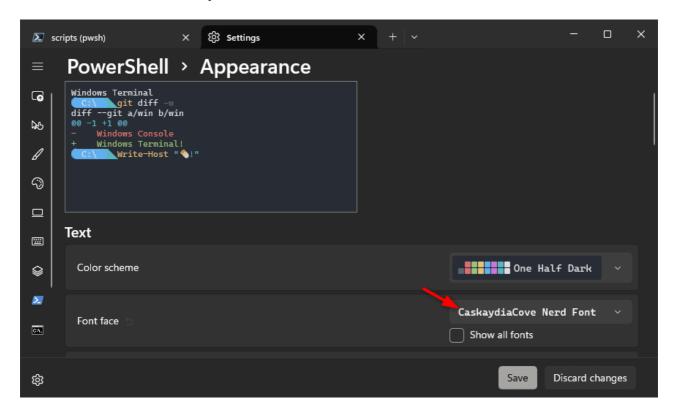
winget install JanDeDobbeleer.OhMyPosh -s winget

To fully use all the capabilities of Oh My Post, you will need to install a Nerd Font as well. Nerd Fonts are popular fonts where icons are added too. Installing one of the Nerd Fonts is pretty easy, simply type:

oh-my-posh font install

You can select one of the fonts to install. The recommended font is <u>Meslo LGM NF</u>, but in the screenshot above I have used CaskaydiaCove Nerd Font. After you have installed the font, you will need to set it as your default font for your PowerShell sessions.

- Open Windows Terminal
- Click on the dropdown arrow and choose Settings
- Select **PowerShell** in the sidebar, and open **Appearance** (all the way at the bottom)
- Set the Font Face to your installed Nerd Font



With the fonts installed, we can select one of the Themes to use or as a starting point to customize. To view all the Themes, you can use the cmdlet Get-PoshThemes. This will show examples of all the themes in your console.

To install the theme, I recommend saving the JSON file locally. You can then enable the theme with:

oh-my-posh init pwsh --config 'd:\scripts\lazyadmin\lazyadmin.omp.json' | Invoke-Expression

Terminal Icons

The Terminal Icons PowerShell modules really accomplish the Oh My Post themes. Terminal Icons will add files and folder icons (and colors) in your shell. This really helps with quickly finding the right file or folder.

```
П
LazyAdmin (pwsh)
               10-1-2024
               30-5-2023
                               16:10
                                                           Windows 10
              30-5-2023
                               16:10
                                                           Windows 11
              21-8-2023
                                                  1101
              21-8-2023
                               08:52
                                                  6587 📑
                                                           .ignore
              5-10-2023
                               14:25
                                                  1060
              29-5-2024
                                                 19129
                               14:57
                                                           Encrypted.txt
EntraMFAStatus-feb--06-2024.csv
                                                   194
               6-2-2024
                               15:57
              29-5-2024
                                                  4540
                                                           gruvbox.omp.json
lazyadmin.omp.json
                               14:47
              29-5-2024
                               15:05
              30-5-2023
                                                  1100
                                                  2637 1 2103 ()
               6-2-2024
                               13:39
              29-5-2024
                               14:47
                                                           paradox.omp.json
PowerShell Profile.ps1
               30-5-2023
                               16:10
                                                  1290
               30-5-2023
                               16:10
                                                           Readme.md
                                                  1728
              25-6-2020
                               16:28
                                                   663
                                                       Ö
                                                           SmartHome.ini
                                                 11052
                                                           SmartHome.py
test01.txt
             22-10-2021
                               16:42
               30-3-2022
                               20:11
                                                   554
                                                           yoursecret.xml
        ripts/LazyAdmin 🕴 master = 🔪 🖍 (?13 ~6)
                                                                                                                               ~ 100%
```

Terminal Icons uses, just like Oh My Posh, a Nerd Font for all the icons. If you already have installed Oh My Posh, then you can simply install the Terminal Icons module with:

Install the module

Install-Module -Name Terminal-Icons -Repository PSGallery

Load the module - add this to your PowerShell Profile:

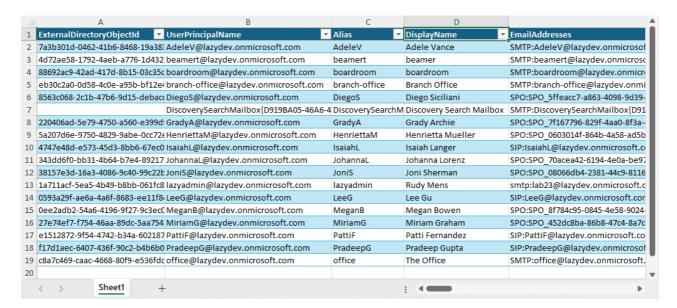
Import-Module -Name Terminal-Icons

If you are not using Oh My Posh, then make sure that you install a Nerd Font as well. You can checkout <u>this guide</u> for more information on how to get it to work in PowerShell.

ImportExcel – Import and Export Excel

When you have used PowerShell for quite sometime then you probably have created an report more then once. Most will use the Export-CSV cmdlet to export data from PowerShell and use in Excel. But there is an easier way to do this.

The <u>ImportExcel module</u> does not only allow you to import data from an Excel file, but it can also export to an Excel, with a fully functional table init as well. And it doesn't stop there, charts, pivot tables, conditional formatting, is all possible.



To quickly export your data to Excel and format it into a table, you can use the following command:

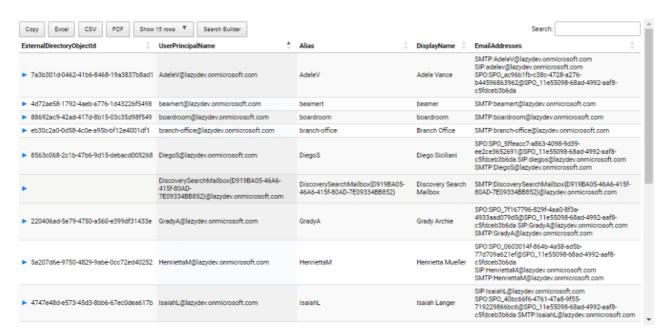
First install the module
Install-Module -Name ImportExcel
Get some data and export it to Excel with a formatted table
Get-EXOMailbox | Export-Excel -AutoSize -BoldTopRow -FreezeTopRow

PSWriteHtml – Export to HTML

Wether you are using PowerShell to automate tasks or to create reports, you often need to communicate the results. One way to do this is by sending an email from PowerShell with the results.

But a simple, plain text email isn't going to it anymore. We want it nicely formatted, maybe a table in it, or some colors. That is where HTML comes in. Now you can write and format your own HTML, but the PowerShell module PSWriteHTML makes it a lot easier for you.

Another great feature of PSWriteHTML is that you can quickly export to results to an HTML file. So instead of Out-GridView, you can now use Out-HtmlView, which gives you an interactive HTML file. From the HTML view you can quickly export it again to CSV or PDF, or just share the HTML view if needed.



To quickly generate a view like the example above, you can use the following PowerShell code:

Install the module Install-Module -Name PSWriteHTML # Gather some data and output to HTML Get-Exomailbox | Out-HtmlView

M365PSProfile – Keeping your Modules up-to-date

The last module that I wanted to share with your is the module M365PSProfile. To goal of this module is to simplify the installation and updating of all the Microsoft 365 related PowerShell modules.

Although the intention of the module is to only manage the Microsoft 365 modules, you can also use it to automatically install and keep other modules up to date.

The module will check all the listed modules when you open PowerShell and make sure that you have the latest version installed.

To get started with the module, you will of course need to install it first. When done, you can add a list of modules in your PowerShell Profile that you want to keep up-to-date:

Install the module

Install-Module -Name M365PSProfile -Scope CurrentUser

#Install or Updates the Modules in the Array

Install-M365Module -Modules

@("ExchangeOnlineManagement","Microsoft.Online.SharePoint.PowerShell","PnP.PowerShell", "M365PSProfile","Microsoft.Graph","Microsoft.Graph.Beta","Terminal-Icons")

Wrapping Up

PowerShell modules are a great way to make your work a lot easier or working with PowerShell a lot nicer to look at. There are of course a lot more great PowerShell modules, these are only some of the best module in my opinion.

If you have a great PowerShell module that you highly recommend, then please let me know in the comments below!

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