

# POWERSHELL 101 THE NO-NONSENSE BEGINNERS GUIDE TO POWERSHELL pdf

## 1: A Beginner's Introduction to Windows PowerShell

*PowerShell The No-Nonsense Beginner's Guide to PowerShell is the featured book on Leanpub Mike F Robbins January 5, January 5, 0 Learning PowerShell seems to be a hot topic for the new year.*

It can help with repetitive tasks; processes acting on many files at once; automating and scheduling tasks; and configuring Windows components and services. PowerShell is not only for running DOS commands, it is far more flexible than that. It supports complex decision making, connecting to a wide variety of data sources, and even building graphical user interfaces. PowerShell is now an essential skill for IT and server administrators, and is often used when deploying maintenance scripts across an entire organization. Getting those scripts to run safely on all machines can be a technical process, but tips and help are available for PowerShell users working with Enterprise Desktop machines. Despite the focus on administrative tasks, home users and software developers can often save time by making use of the facilities available. Once installed, there are various ways of running PowerShell: On Windows 8, from the desktop, right click the Start menu icon, click Run, and then type powershell and press Enter. Getting Help PowerShell introduces over a hundred new commands, and that is a lot to learn when you first start. However, it includes a comprehensive help system that can help you find commands to accomplish tasks, and it explains how to use those commands. The command for getting help is `get-help` and it accepts a variety of different arguments. For example, to display the help file entry for the `get-help` command, type: `Get-help` also accepts a keyword for searching the documentation, and returns a list of results containing that keyword. This can be a useful way of finding the names of commands related to specific topics. To search for commands and help files relating to Windows services, you can run: In PowerShell, special commands known as cmdlets are typed in after the prompt, and are executed when you press the Enter key. Navigating through the local file system is the same as when working in the earlier shells, and you can still use many of the older DOS commands. Execute the new cmdlets the same way – type their name, any additional arguments, and then press Enter. Cmdlets appear to display their results in the console, however, most actually return an object that is processed by the console and then displayed. They do not write to the screen directly. This is a powerful concept and is where PowerShell has changed significantly from earlier shells. Instead of sending objects to the console, it is possible to send objects to other cmdlets with a technique known as piping. For example, use the cmdlet `get-itemproperty` with the name of a file to display its basic attributes: By piping the object to `format-list`, other pieces of information are displayed: When the result of a cmdlet consists of a collection of objects, piping will often process each one individually. The example above shows three commands connected by pipes, but more complicated tasks can use as many pipes as needed. The code below takes each piece of detailed information and pipes it to the `out-file` cmdlet to write the information to a file, instead of returning the text to the console for viewing on screen. However, unlike working in the console, each operation does not have to be typed in and executed immediately. This allows PowerShell to pre-process the file and extend the facilities to include those commonly associated with writing software, such as use of variables, conditional statements, and user-defined functions. Before you can write and run scripts, you should be aware that Windows is not configured to allow the execution of unsigned scripts because they can be used to damage the system. An in-depth discussion of security models and code signing is beyond the scope of this article, but to configure your execution policy so that you can run scripts you have written, but not ones downloaded from the Internet, you can use the command `set-executionpolicy`: Variables are declared and used in PowerShell by placing a dollar sign in front of their name. You can then run the script by typing its path and filename in the console and pressing Enter. Scripting is highly flexible, as shown below: However, this time each item is processed individually by the script and not by the cmdlet. The `foreach` loop runs through every item in the list and the instructions between curly braces are run for each one: The current item from list is assigned to the variable `item`. Each item is an object describing the properties of a file or directory. The detailed properties for each

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item are then retrieved by passing the current item as an argument to `get-itemproperty`. The returned object is piped into `format-list` to get the detailed view. Finally, the properties of the item are written to a new text file using the filename that was calculated on the preceding line. If you run that sample code in a directory with a lot of contents, a large number of new text files will be created. You can remove them by writing another PowerShell script: This time, however, the conditional statement `if` and the cmdlet `test-path` are used to check if the file exists and if that is true, the script deletes the file. Further Reading As this is only a short introduction to PowerShell, it is not possible to show all of the available cmdlets or features of the scripting language. And there is not space to show how PowerShell can be used to communicate with Windows processes and services, which is an important part of its use for IT administrators. A Getting Started Guide for IT Admins offer a far more detailed introduction, including the concepts and commands that have not been described above. Cmdlets are intended to replace console applications, and complete beginners can learn C programming to begin writing their own, in much the same way as they would write a command line program.

## 2: Getting Started with Windows PowerShell | Microsoft Docs

*A video about the new book: "PowerShell - The No-Nonsense Beginner's Guide to PowerShell" that I'm self-publishing at [www.enganchecubano.com](http://www.enganchecubano.com)*

## 3: SQLSaturday # - Birmingham > Sessions > Details

*PowerShell The No-Nonsense Beginner's Guide to PowerShell is the number one bestseller on Leanpub Mike F Robbins December 31, December 31, 1 I would like to thank everyone who helped make my new book, PowerShell The No-Nonsense Beginner's Guide to PowerShell, the number one bestseller on [www.enganchecubano.com](http://www.enganchecubano.com)*

## 4: Mike F Robbins - Meridian, Mississippi | [www.enganchecubano.com](http://www.enganchecubano.com)

*PowerShell The No-Nonsense Beginner's Guide to PowerShell eBook is on sale for cents until the end of the year! ([www.enganchecubano.com](http://www.enganchecubano.com)) submitted 10 months ago by [mikefrobbins](#).*

## 5: Top 50 PowerShell bloggers of

*Rockn wrote: Not even for a dollar. You can use the slider to vary the cost. I just got it for \$, but on this site, you can pay more if you like, the author gets whats showing on the bottom slider.*

## 6: Microsoft PowerShell Tutorial & Training Course â€” Microsoft Virtual Academy

*Bypass mode is helpful so a helpdesk user can run [www.enganchecubano.com](http://www.enganchecubano.com) that calls [www.enganchecubano.com1](http://www.enganchecubano.com1) in bypass mode, so they don't have to know about execution policies and we don't have to compile all ps1s into exes ("[www.enganchecubano.com](http://www.enganchecubano.com) -executionpolicy bypass" from cmd).*

## 7: PowerShell PowerShell Courses Books Tools and Training

*Mike F. Robbins is a Microsoft Cloud and Datacenter Management MVP for Windows PowerShell. He is the creator of The PowerShell Conference Book, author of PowerShell The No-Nonsense Beginner's Guide to PowerShell, co-author of Windows PowerShell TFM 4 th Edition, and a contributing author of a chapter in the PowerShell Deep Dives book.*

## 8: Announcing a new book: PowerShell â€” The No-Nonsense Beginnerâ€™s Guide to PowerShell : Powe

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*After PowerShell is installed, you can use it immediately. To run PowerShell, select All Programs under the Start menu, choose Windows PowerShell, and click Windows PowerShell. When the PowerShell window appears, the command prompt displays the current working folder (C:, on my system).*

## 9: Happy SysAdm: Ramp up your PowerShell knowledge in with these books

*Back in , I wrote a piece called PowerShell Tips and Tricks, which covered the then-relatively new Windows scripting language and some cool things you could do with it.*

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