PowerShell 101

The No-Nonsense Beginner's Guide to PowerShell

mikefrobbins.com

Get-Help –Name 'about_Presenter'

- Mike F Robbins

- [Mississippi PowerShell User Group](#)

- [PowerShell Conference Book](#)

- [PowerShell 101: The No-Nonsense Beginner's Guide](#)

- [Windows PowerShell TFM 4th Edition](#)

- [PowerShell Deep Dives](#)

- Advanced Category in the 2013 Scripting Games

- Learn more about me @ [mikefrobbins.com](#)

Write-Output 'Questions for Audience'

- IT Pro's

- Developers

- PowerShell

- One-Liners

- Scripts

- Functions

- Modules

- .NET Framework
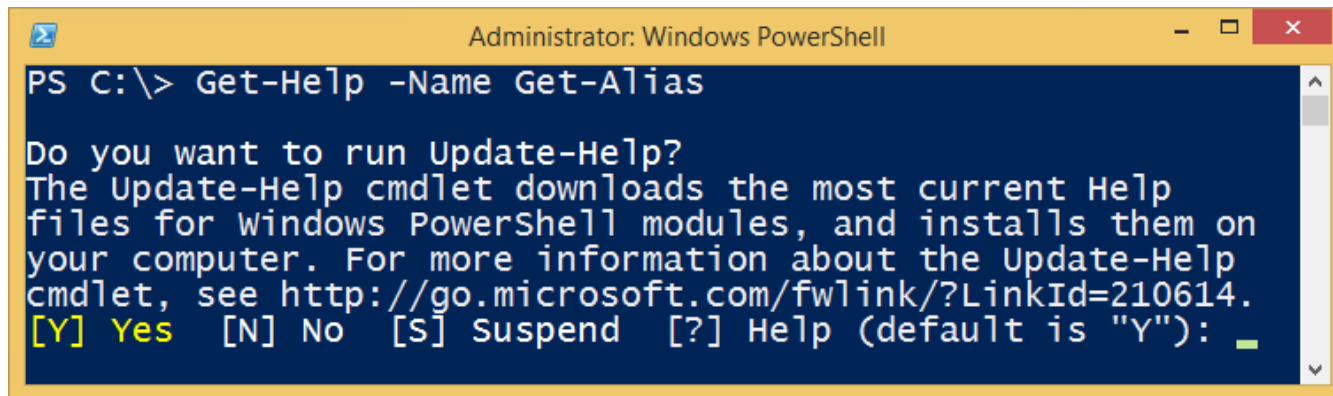
- Source Control

- Unit Testing

Set-Content 'Information to Cover'

- Basics
  - Discoverability
  - Objects
    - Methods
    - Properties

- Pipeline

- Filtering

- Remoting

- Extending PowerShell

- Best Practices

Exit, stage left!

Background Information

- PowerShell Commands are called Cmdlets

- Cmdlet is pronounced command-let (not CMD-let)

- Cmdlets are in the form of singular Verb-Noun commands

- Select "Run as Administrator" when opening PowerShell
  - PowerShell is unable to participate in User Access Control (UAC)

- Updatable Help

```
Administrator: Windows PowerShell

PS C:\> Get-Help -Name Get-Alias

Do you want to run Update-Help?
The Update-Help cmdlet downloads the most current Help
files for Windows PowerShell modules, and installs them on
your computer. For more information about the Update-Help
cmdlet, see http://go.microsoft.com/fwlink/?LinkId=210614.
[Y] Yes  [N] No  [S] Suspend  [?] Help (default is "Y"):
```
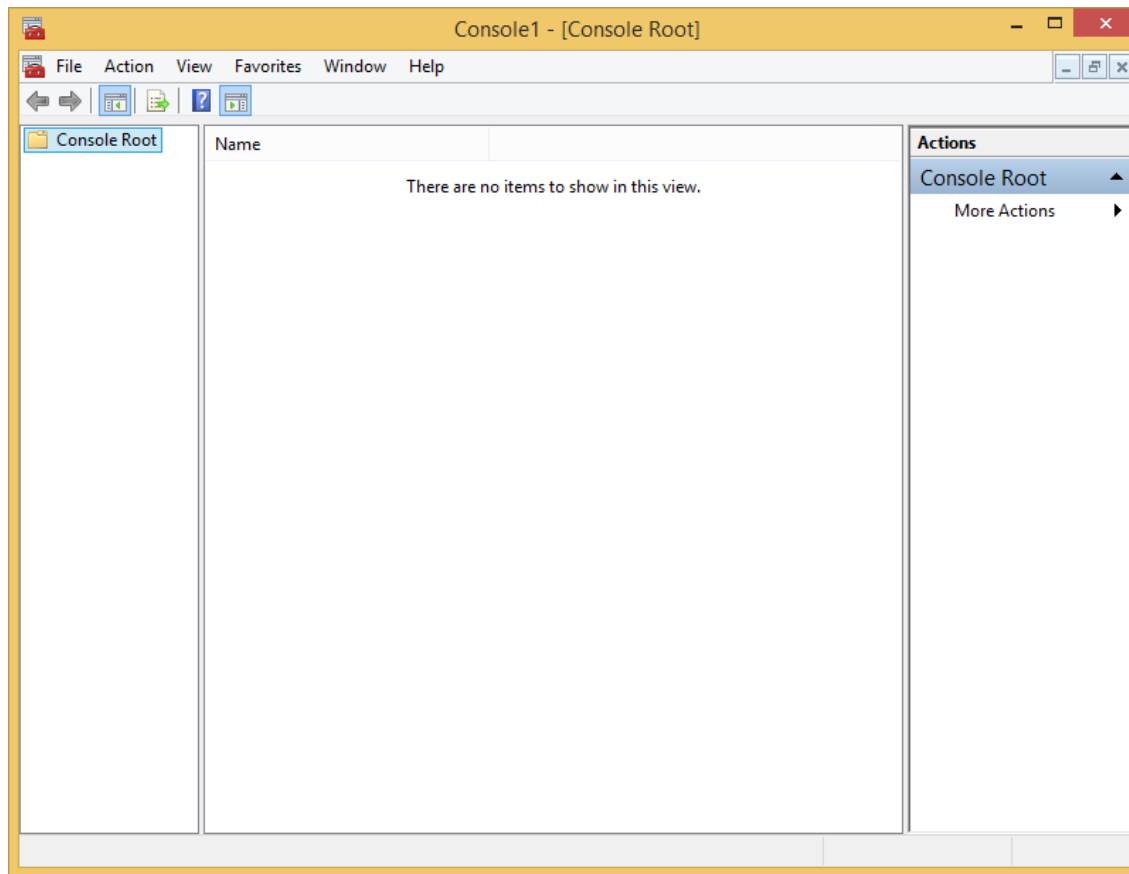
How Do I Figure Out What the Commands Are?
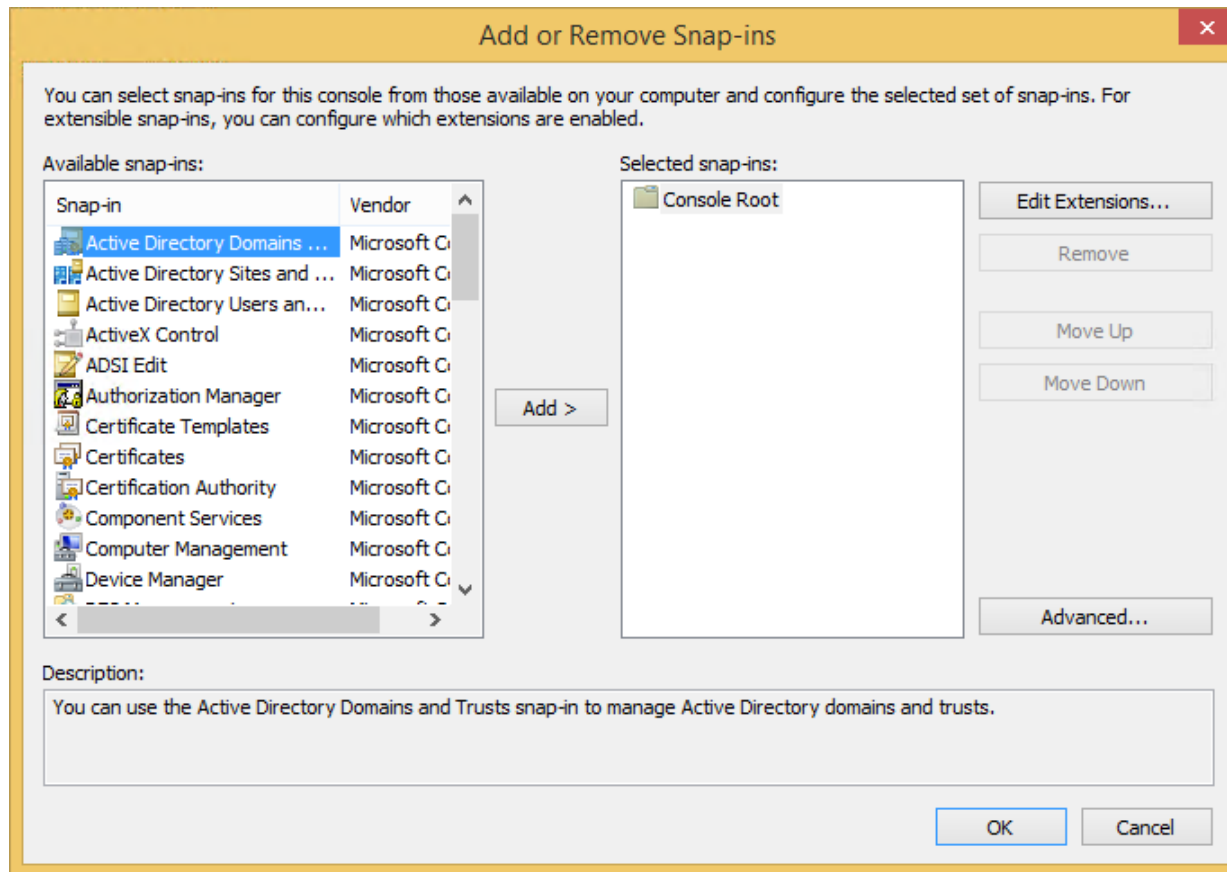
- Core Commands for Discovering How to Use PowerShell

  - **Get-Command**
    - Find what commands are available

  - **Get-Help**
    - Figure out how to use commands

  - **Get-Member**
    - Discover Objects, Properties, and Methods

PowerShell is like the Microsoft Management Console (MMC)
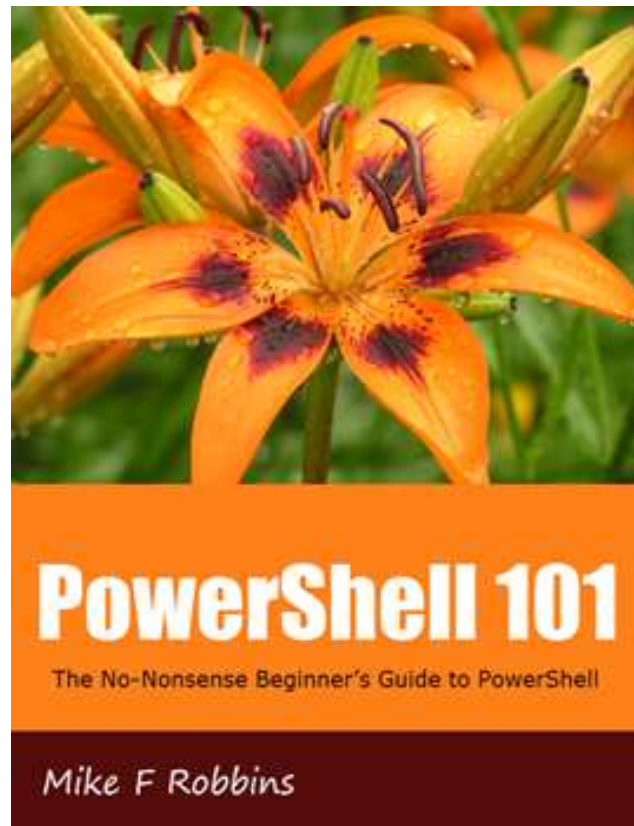
Snap-ins (and Modules) extend its functionality

Start-Process 'Demo'

Demo Code: github.com/mikefrobbins/Presentations

Book –Name 'PowerShell 101'

leanpub.com/powershell101

Select-Object –Property 'Resources'

- [PowerShell Documentation](#)

- [PowerShell Best Practices and Style Guide](#)

- [PowerShell.org](#)

- [Planet PowerShell](#)

- [User Groups](#)

- [PowerShell Community Videos](#)

- [Twitter](#)

- [Slack](#)

- [PSKoans (PowerShell Koans)](#)

Get-Contact –Identity 'Presenter'

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- LinkedIn: www.linkedin.com/in/mikefrobbins

- E-Mail: See mikefrobbins.com/about/

- User Group: mspsug.com (or MsPowerShell.com)