



# Upgrading Your Scripting Toolkit



# Quick Introduction

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# Topics

- ▶ Powershell
- ▶ Source Control
- ▶ Visual Studio Code

# Powershell

## ▶ Why Powershell?

- ▶ Can run on the command line or as a script
- ▶ Object based
- ▶ Ability to pipe and filter results from a command
- ▶ Part of most Microsoft Products
- ▶ Ability to use code written in .Net
- ▶ Built-in Help System
- ▶ Cross Platform
- ▶ Some tasks can only be accomplished through it
- ▶ -whatif
- ▶ Microsoft

# Powershell in Action

- ▶ Basics
- ▶ Piping and Filtering
- ▶ Regular Expressions
- ▶ Error Handling
- ▶ Remote Scripts

Even more at <https://docs.microsoft.com/en-us/powershell/scripting/samples/sample-scripts-for-administration?view=powershell-7>

# Source Control

- ▶ Versioning
- ▶ Collaboration

Git Introduction - <https://www.freecodecamp.org/news/what-is-git-and-how-to-use-it-c341b049ae61/>

# Visual Studio Code (VS Code)

- ▶ Visual Studio Code (VS Code) is a lightweight code editor.
  - ▶ While Powershell ISE is not dead, it is no longer undergoing active feature development.

Per Microsoft (<https://bit.ly/2Y6pcdg>)

# VS Code

- ▶ IntelliSense (Code Completion)
- ▶ Built-in Debugging
- ▶ Code Navigation
- ▶ Source Control Integration
- ▶ Terminal Included
- ▶ Extensions

Get VS Code here - <https://code.visualstudio.com/>



# References

- ▶ **Script resources for IT professionals** - <https://gallery.technet.microsoft.com/scriptcenter>
- ▶ **Powershell For Sysadmins** by Adam Bertram (ISBN 978-1-59327-918-9)
  - ▶ His website - <https://adamtheautomator.com/>
- ▶ **Windows Powershell for Developers** by Douglas Finke (ISBN 978-1-449-32270-0)
- ▶ **Windows PowerShell in Action, Third Edition** by Bruce Payette and Richard Siddaway (ISBN 978-1-633-43029-7) Very in depth for those who want to know everything.
- ▶ **The Case for Powershell** by Mark Minasi on Pluralsight
- ▶ **Example of Events in Powershell** - <https://docs.microsoft.com/en-us/powershell/scripting/developer/cmdlet/events01-sample?view=powershell-5.1>
- ▶ **SysAdmin Script Examples** - <https://docs.microsoft.com/en-us/powershell/scripting/samples/sample-scripts-for-administration?view=powershell-7>
- ▶ **Powershell 101 by Mike F Robbins**- <https://docs.microsoft.com/en-us/powershell/scripting/learn/ps101/00-introduction?view=powershell-7>
- ▶ **Powershell in a Month of Lunches by Don Jones and Jeffery Hicks (Thanks to Curtis Agnew for this)** - <https://www.manning.com/books/learn-windows-powershell-in-a-month-of-lunches-third-edition>



# Questions

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