



POWERSHELL + DEVOPS  
GLOBAL SUMMIT

# Building Unconventional SQL Server Tools

aka: Building Unconventional SQL Server Tools in PowerShell with  
Advanced Functions and Script Modules

Demo Code: [github.com/mikefrobbins/Presentations](https://github.com/mikefrobbins/Presentations)

# Get-Help -Name 'about\_Presenter'

- ▶ Mike F Robbins
- ▶ Microsoft MVP on Windows PowerShell
- ▶ SAPIEN Technologies MVP
- ▶ Leader & Co-Founder of the Mississippi PowerShell User Group
- ▶ Co-Author of Windows PowerShell TFM 4<sup>th</sup> Edition
- ▶ Author of Chapter 6 in the PowerShell Deep Dives book
- ▶ Winner of the Advanced Category in the 2013 Scripting Games
- ▶ Learn more about me @ [mikefrobbins.com](http://mikefrobbins.com)



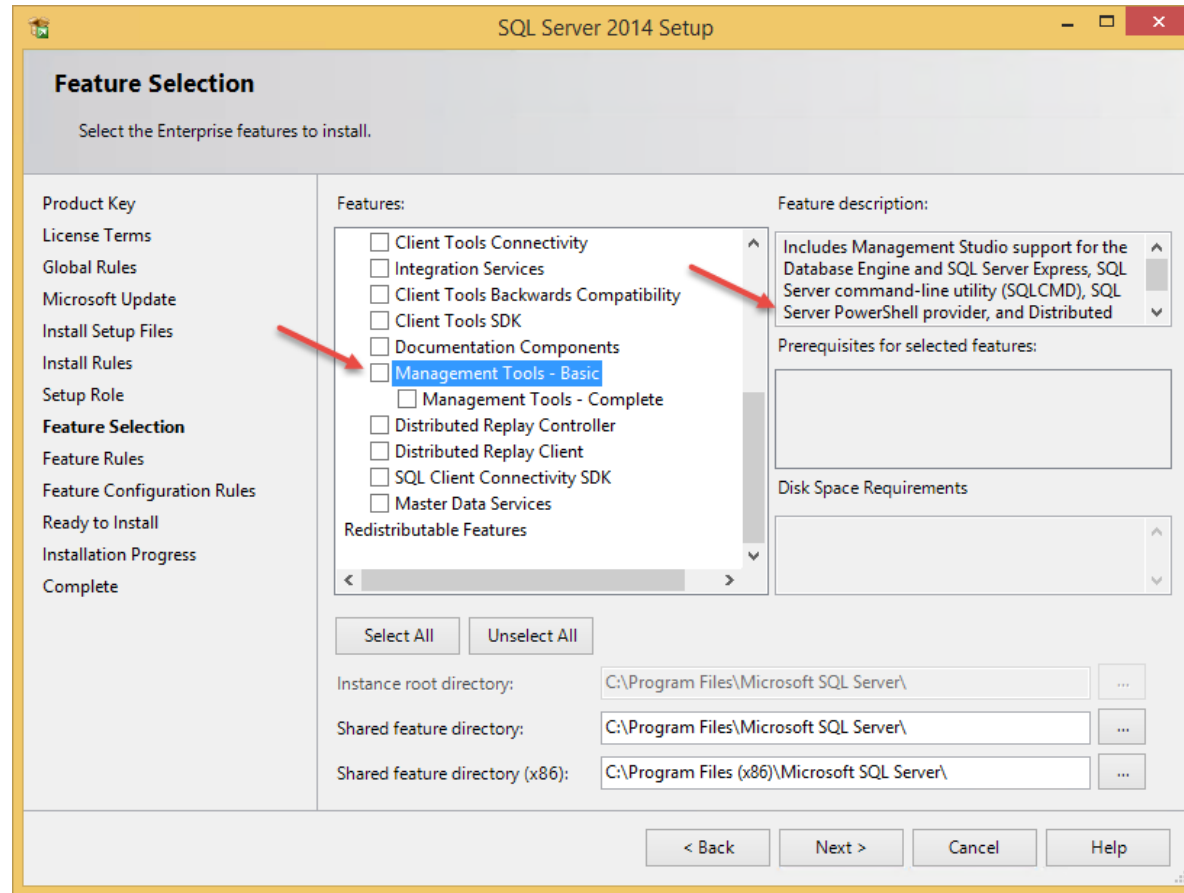
# Write-Output 'Questions for Audience'

- ▶ IT Pro's
- ▶ Developers
- ▶ DBA's
- ▶ Microsoft SQL Server
- ▶ Transact-SQL (T-SQL)
- ▶ .NET Framework
- ▶ Source Control
- ▶ Unit Testing via Pester
- ▶ PS Script Analyzer

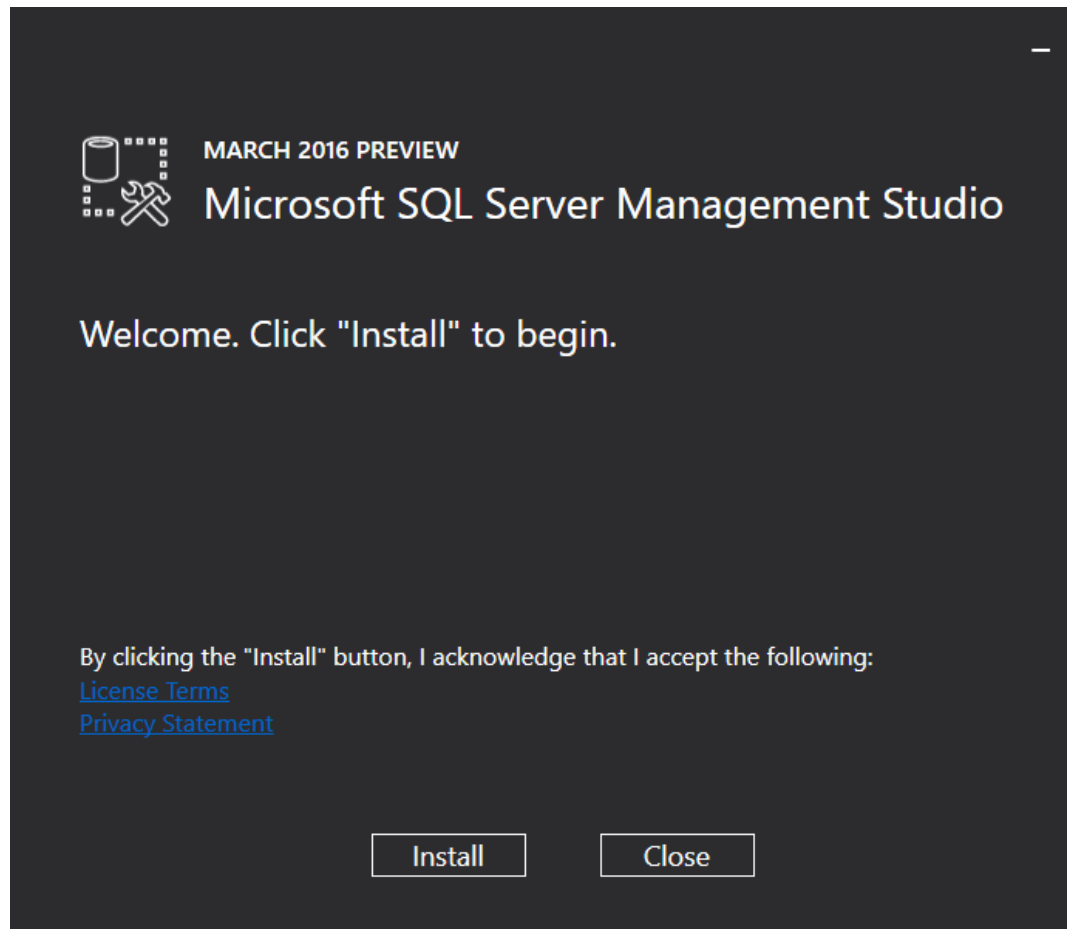
# Set-Content 'Information to Cover'

- ▶ SQL PowerShell Module and Snap-in
- ▶ SQL PowerShell Provider
- ▶ SMO (SQL Management Objects)
- ▶ .NET Framework
- ▶ TSQL versus Cmdlets
- ▶ Functions
- ▶ Modules
- ▶ Toolmaking
- ▶ Automation
- ▶ Using PowerShell to write dynamic TSQL code

# Install the SQL PowerShell Module (Old)



# Install the SQL PowerShell Module (New)



# Start-Process 'Demo'



# Celebrating 10 Years of PowerShell

## 2006 - 2016

- ▶ Jeffrey Snover
- ▶ Kenneth Hansen
- ▶ Lee Holmes
- ▶ Narayanan Lakshmanan
- ▶ Hemant Mahawar
- ▶ Bruce Payette
- ▶ Hitesh Raigandhi
- ▶ Dan Trivison
- ▶ Jim Truher
- ▶ Krishna Vutukuri

Congratulations to  
the team members  
who've been there  
since the  
beginning...

...and thanks for  
all the great work!



# Select-Object -Property 'Resources'

## ▶ Free:

- ▶ [PowerShell.org](https://PowerShell.org)
- ▶ [PowerShell Virtual Chapter of SQL PASS](#)
- ▶ [SQL Saturday Technology Events](#)
- ▶ [Microsoft Virtual Academy](#)
- ▶ [SAPIEN Technologies](#)
- ▶ [PowerShell Magazine](#)
- ▶ [User Groups](#)
- ▶ [Twitter](#)
- ▶ [GitHub](#)
- ▶ [Blogs](#)
- ▶ [PowerShell Best Practices and Style Guide](#)

## ▶ Paid:

- ▶ [Pro PowerShell for Database Developers book](#)
- ▶ [Pluralsight](#)



# Get-Contact -Identity 'Presenter'

- ▶ Blog: [mikefrobbins.com](http://mikefrobbins.com) (or MrPowerShell.com)



- ▶ Twitter: [@mikefrobbins](https://twitter.com/mikefrobbins)
- ▶ LinkedIn: [www.linkedin.com/in/mikefrobbins](http://www.linkedin.com/in/mikefrobbins)
- ▶ Email: See [mikefrobbins.com/about/](http://mikefrobbins.com/about/)
- ▶ User Group: [mspsug.com](http://mspsug.com) (or MsPowerShell.com)

