

Automate Azure resources at scale with Azure PowerShell



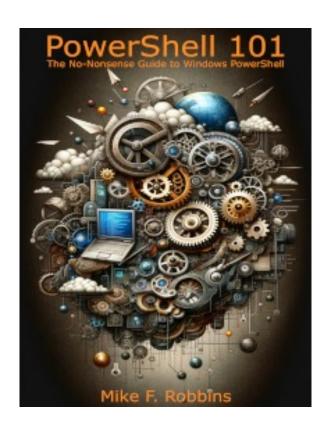
SQLSATURDAY

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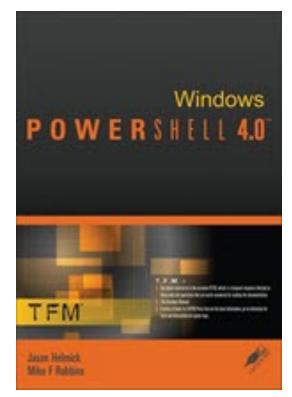


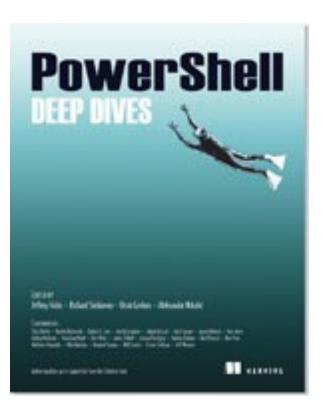
Get-Help –Name 'about_Presenter'

- Mike F. Robbins
- Lead docs writer for Azure PowerShell at Microsoft











Introduction to Azure PowerShell

- Azure PowerShell
- The Az PowerShell module
- The AzPreview PowerShell module
- The AzureRM PowerShell module
- The Azure PowerShell module
- Azure-related PowerShell modules (not part of Azure PowerShell)
 - Azure Stack, Entra, Microsoft Graph, MSOnline, AzureAD

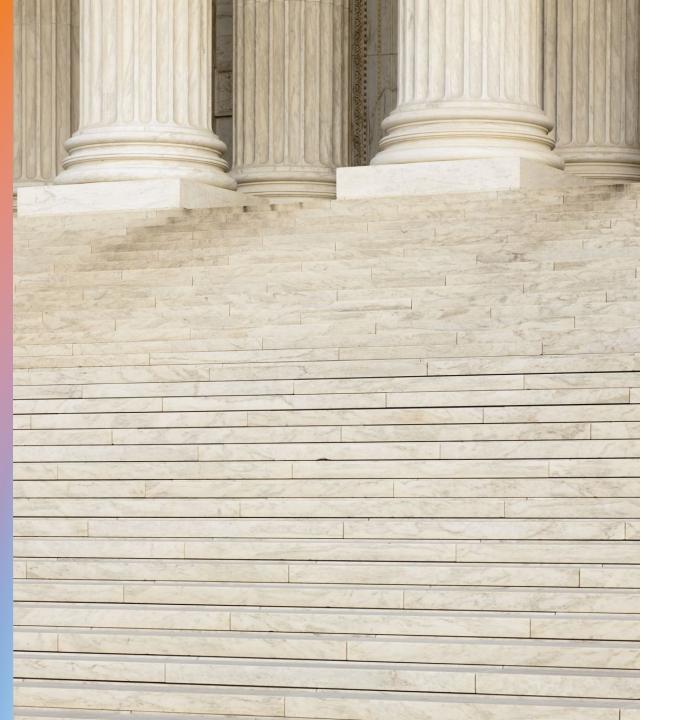
Commands in the Az PowerShell module

• Total commands: 7735

• Modules: 175







Azure PowerShell Support lifecycle

- Follows Semantic versioning (major.minor.path)
 - Major versions Breaking changes
 - Minor versions Backwards compatible updates
 - Patch versions Security fixes
- Module version types
 - Generally available (GA)
 - Preview
 - Feature preview
- Az versus AzPreview module





Azure PowerShell Support lifecycle (more)

- Release cadence
- Support of releases
 - Standard term support (STS)
 - Long term support (LTS)
- Breaking changes
- Supported environments



Getting Started with Azure PowerShell

- Prerequisites
 - An Azure subscription
- Options for using Azure PowerShell
 - Azure Cloud Shell
 - Web browser
 - Windows Terminal
 - Local installation
 - A Windows, Linux, or macOS system
 - PowerShell 7 (Windows PowerShell 5.1 is also supported)
 - Docker container



Authentication

- Interactive
 - Connect-AzAccount
 - New login experience
 - Configure default subscription for login
 - Web Account Manager (WAM)
 - Browser based authentication
 - Device code authentication
- Noninteractive
 - Service principal
 - Managed identity



Start-Process 'Demo'

- Create resources interactively
- Create resources at scale
- Demo Code: github.com/mikefrobbins/Presentations





Get-Contact —Identity 'Presenter'

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