



PowerShell DSC

(Desired State Configuration) from the Trenches



Get-Help -Name 'about_Presenter'

- Mike F Robbins
- Microsoft MVP
- SAPIEN Technologies MVP
- Leader & Co-Founder of Mississippi PowerShell User Group
- Co-Author of Windows PowerShell TFM 4th 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



Write-Output 'Questions for Audience'

- IT Pro's
- Developers
- Database Administrators
- PowerShell
- PowerShell version 4 or higher
- Functions
- Modules
- Desired State Configuration
- PKI (Public Key Infrastructure)



Set-Content 'Information to Cover'

- Requirements
- Imperative versus Declarative Configuration
- Basics
- MOF
- LCM
- Push
- Pull
- Resources



Requirements

- PowerShell version 4
- KB2883200
- WinRM Service
- WinRM Listeners (Endpoints)
- Script Execution Policy –le Remote Signed
- KB3000850 (Recommended)
- PowerShell Remoting –not Required



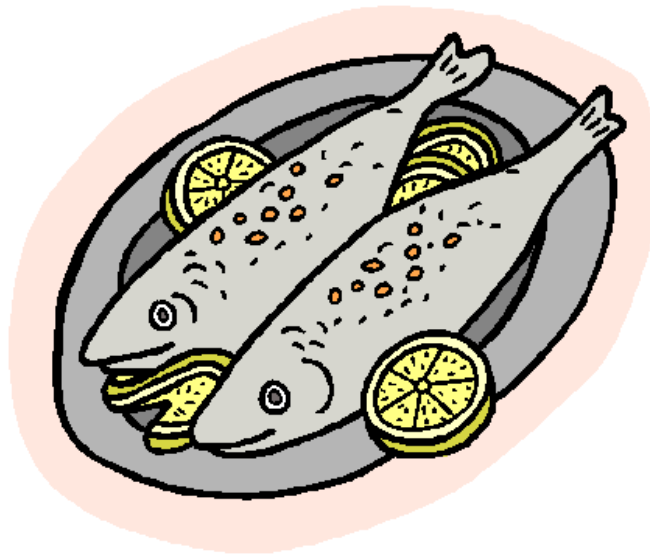
Imperative

- Describing an item in terms of specific instructions which changes its state.



Declarative

- Describe what you're trying to achieve without instructing how to perform the specific actions to achieve the state.



Idempotent

- Desired state is reached regardless of current state.
- Current state is irrelevant.
- Produces the same results if executed once or multiple times.
- Can be repeated or retried as often as necessary without causing unintended effects.
- Non-idempotent operations may need to keep track of whether or not the operation was already performed and what the current state is.



Start-Process 'Demo'

Demo Code: github.com/mikefrobbins/Presentations



Select-Object –Property ‘Resources’

- [PowerShell.org](#)
- [Microsoft Virtual Academy](#)
- [PowerShell Virtual Chapter of SQL PASS](#)
- [PowerShell Magazine](#)
- [GitHub](#)
- [User Groups](#)
- [Blogs](#)
- [Twitter](#)
- [Windows Desired State Configuration Revealed book](#)
- [Learning PowerShell DSC book](#)



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