Using Powershell

Administration with Windows PowerShell

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Powershell Overview

- Powershell, Whats the difference?
- Powershell Discovery Commands
- Creating Custom Objects
- Questions
- Useful Exchange Tools
- Useful AD cmdlets

Why Powershell?

- Object Based
  - What is an Object? (Car Example)
  - Properties (Type, Color, Brand)
  - Methods (Start, Stop, Turn)
- Get-ChildItem Demo
  - List all files bigger than 10mb
  - List all files older than 1mon
  - Cool-Demo.ps1

Powershell Commands

- Get-Help
  - Get help for CMDLets and Key Concepts
  - Get-Help <CMDLet> -full
- Get-Member
  - Used to tell you what the object has to offer
    - Properties / Methods
  - Object Type
- Get-Command
  - Gets a list of cmdlets, functions, applications

Custom Objects

- Paradigm Shift
    - Putting the old way aside
    - Tendency to still deal with text
- Why Use them?
    - Removes the need for parsing text
    - With objects you can filter

How to Create Custom Objects

- Select-Object

    - Converts to PSCustomObject

    - When to Use.

- Add-Member

    - The 'Official' way

    - When to Use.

Select-Object

- Converts to PSCustomObject
- Not meant for creating objects but for filtering what output is sent to files or the pipe.
- Great when you know exactly what you want.
- Demo

Add-Member

- Official CMDLet for extending Objects
- Doesn't Create object. It extends. Use New-Object to create object.
- Can add all sorts of members like (NoteProperty and scriptmethods)
- Great for Dynamic Data
- Demo

Useful Exchange tools

- PowerGui from Quest
  - Its free!
  - Its easy.
  - Lets take a look
- Another tool

Useful Active Directory Tools

- Quest AD Cmdlets
  - Get-QADUser
  - Get-QADComputer
  - Get-QADGroup
- SMDSoftware GPO cmdlets
- New-SDMgpo
- Export-SDMgpo

Questions

More Powershell Info

- Information
  - My Blog http://www.bsonposh.com
  - PowerGui: http://www.powergui.org
  - http://www.powershellcommunity.org
  - Google/Windows Live