

Welcome to Windows PowerShell

A Quick Intro to the Coolest Language You'll Ever Know



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What is PowerShell?

- The New Scripting Language of Windows
- Built on Cmdlets
- It lets you script:
 - .NET
 - COM (VBScript Objects)
 - WMI
 - Command Line
 - Web Service
 - Pinvoke (C code)

What is PowerShell?

- Released November 2006
 - 3,000,000 Downloads
- V1 in the Box In Server 2008
- V2 in the Box in Windows 7, Server 2008 R2

How's it Different?

- The Object Pipeline
 - Don't Waste Time Parsing Text
 - Pipe Properties Instead
- Easier to Understand
 - Cmdlets
 - Verb-Noun Pairs Make Commands Easy
 - Get-Help Makes them Understandable

How's it Different?

- What Else?
 - Built-In Remoting (in V2)
 - Built-In Script Editor (in V2)
 - Scripted User Interfaces (Winforms V1, WPF V2)
 - Providers (file system like abstractions)

Why Make PowerShell?

- VBScript isn't enough
 - Never Learned .NET
 - Poor Support for Parameterized Scripts
 - Limited Script Metadata
 - Never Administrator Focused
 - Building Interdependent Scripts Is Difficult



How PowerShell Helps

- Some Commands to Save the Day
 - Get-Process
 - Get-Service
 - Get-EventLog
 - Get-Progid (searches COM objects)
 - Get-Type (searches .NET types)
 - Search-WMIHelp (searches WMI metadata)

PowerShell & Server Products

- Active Directory
 - 3rd Party Active Directory Cmdlets
 - Active Directory Providers for Server 2008 R2
- Exchange
 - Exchange Shell Built atop PowerShell
- Performance Counters (V2)
- IIS
 - IIS Provider
- WMI



Getting PowerShell Help

- Most help in the Box
 - `Get-Command` | `Get-Random` | `Get-Help -full`

The Future of PowerShell

- The Future Of PowerShell is Bright
 - More Cmdlets
 - More Providers
 - More Remoting
 - PowerShell on More Computers
 - Better Support for UI

Resources

- PowerShell Team Blog
 - <http://blogs.msdn.com/PowerShell>
- The PowerShell Community
 - Newsgroup:
Microsoft.Windows.PowerShell