

Windows Powershell



Cosmin 'cosu' Dumitru

cosmin.dumitru@microsoft-lab.pub.ro

Microsoft Student Partners

Get-Powershell

- Automation Engine
 - cmdline shell (powershell.exe)
 - scripting language
 - administration UX platform (ISE)
- **interactive** and **composable** - bash
- **Programmatic** - Perl/Python/Ruby
- CTP 3 – December 2008
- Builtin: Windows 7 , Server 2008R2 , Server 2008
- Optional: Windows XP, Vista, Server 2003R2



Get-Terminology

- Cmdlet
- Provider
- Snap-in

Get-Cmdlets

- Verb – noun (Eg: **Get-Process**)
- >600 + C#.NET (~240 core)
- Parameters prefixed by–
- Aliases
- Objects

Get-Core

- Core commands
- Abstraction
- Aliases
- data store -> providers
 - Registry
 - File system
 - Certstore
 - SQL, Exchange, ActiveDirectory, OneNote

Basic usage

GET-DEMO -ID 1

Get-Syntax

- Very C# Like yet with a twist

If/while (condition) {command(s) to

Operator	Meaning
-eq	Equals
-match	Match regular expression -> \$matches
-ne	Not Equal
-notmatch	Does not match
-gt -ge	Greater than/ Greater than or equal to
-lt -le	Less than/ Less than or equal to

Get-Pipe



Get-Syntax -more

- Object manipulators

Command	Action
Compare	Compare 2 sets of objects
Group	Split a set of objects into groups
Measure	Measure some property of a set of objects
Select	Select a set of properties from a set of objects
Sort	Sort objects
Tee	Make a copy of a set of objects
Where	Select a subset of objects

Syntactic sugar

GET-DEMO –ID 2

Get-Powershell -features -more

- .NET
- WMI
- COM

Code power

GET-DEMO –ID 3

Get-Powershell –version2 -features

- Advanced Functions
- Background Jobs
- Remoting
- Outgrid-View
- Transactions
- And even more .NET

Smoke and mirrors

GET-DEMO –ID 4

Get-Developers?

