

#### **Get-Command**

New command type

- Workflow
- PS C:\> gcm -commandtype Workflow

List commands only from currently imported modules

- Default is everything from all modules
- PS C:\> gcm -listimported

Get commands that use a given parameter name or type

- · Wildcards allowed
- PS C:\> gcm -parametername pssession



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## **Get-Childitem Attributes**

No more filtering with Where-Object to get only files

New filtering attributes

- File
- Directory
- ReadOnly
- Hidden
- System
- PS C:\> dir c:\work -file | measure length -sum

You can also use -Attributes



# **New-PSDrive**

## Persistent mapping

- PSDrive name must be a letter
- Creates a Windows drive mapping
- · Mapped drives are stored per user

## Use credentials when mapping a UNC

 PS C:\> new-psdrive -name T -psprovider filesystem -root \\chifp01\temp -credential \\globomantics\jeff -persist



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# **Select-Object Optimization**

Cmdlet now stops after reaching first X number of objects Cmdlet skips creating or processing objects when using -Index

Use -Wait to not use these optimizations (v2 behavior)



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## **Restart-Computer**

Parameter -Wait primarily used in workflows

Does not work for the local computer

You can specify what to wait -For

- PowerShell (default)
- WinRM
- WMI

You can specify the -Delay between checks

- · Default is 5 seconds
- PS C:\> Restart-computer SRV02 -wait WMI -delay 10



## **Restart-Computer**

You can specify a -Timeout duration in seconds

Remote computer can run v2 or v3 with remoting enabled

You can specify the -Protocol used to restart the computer

- DCOM (default)
- WSMan



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# **Export-CSV**

We can now append to an existing CSV file with –Append

Appended data should follow the same property header

If not, only properties that match header will be exported

PS C:\> dir c:\work\\*.txt | Exportcsv R:\Data.csv -append



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## **Invoke-Command**

Run commands on disconnected sessions using -Disconnected

Run command in current scope using -NoNewScope

Remoting improvements covered in separate lessons



## Send-MailMessage

We can now specify the SMTP port (-Port)

Useful for services like Gmail

PS C:\> Send-MailMessage -To jeff@globomantics.com -from me@gmail.com -subject "Identity Crisis" -SmtpServer smtp.gmail.com -Port 587 -Credential me@gmail.com -UseSsl -body "I am the walrus."

Default is still 25



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# **Update-TypeData**

No longer need a ps1xml file to add or extend types

 PS C:\> Update-TypeData -TypeName \$type -MemberType ScriptProperty -MemberName Installed -Value { \$This.ConvertToDateTime(\$this.InstallDate)}

Type data can be added dynamically to current session

 Type data can also be dynamically removed without having to restart PowerShell using Remove-TypeData



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## **Add-Computer**

Rename a computer upon joining

- Useful in workflows where you've renamed a computer but didn't reboot
- Use the new –Restart parameter

Use -Force to suppress confirmation



| Add-Computer                                  |  |   |
|---|--|---|
| Specify local credentials on remote computers | Specify credentials<br>for domain unjoin | New domain join options  UnsecuredJoin  JoinReadOnly  JoinWithNewName |
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