### Gathering Information with PowerShell



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#### What We'll Cover



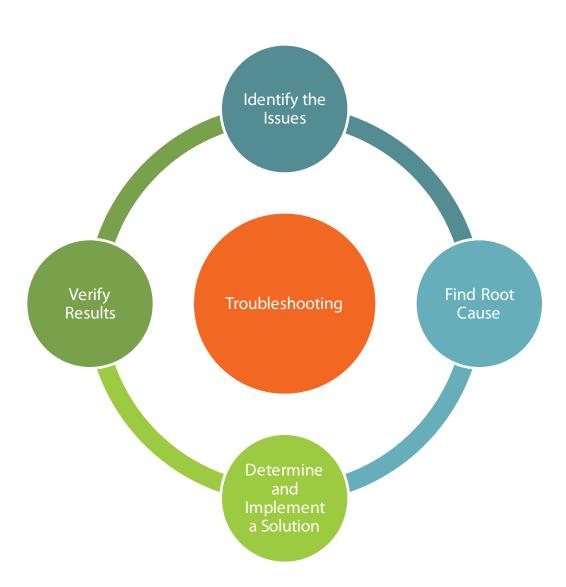
Troubleshooting Made Simple

Using Get-

Gathering Information with PowerShell

Dealing with Errors in PowerShell

### Troubleshooting Made Simple



### Gathering Information with PowerShell

Computer and Hardware

Networking

Registry

Files and Printers

Active
Directory
Objects

### **Gathering Info Process**

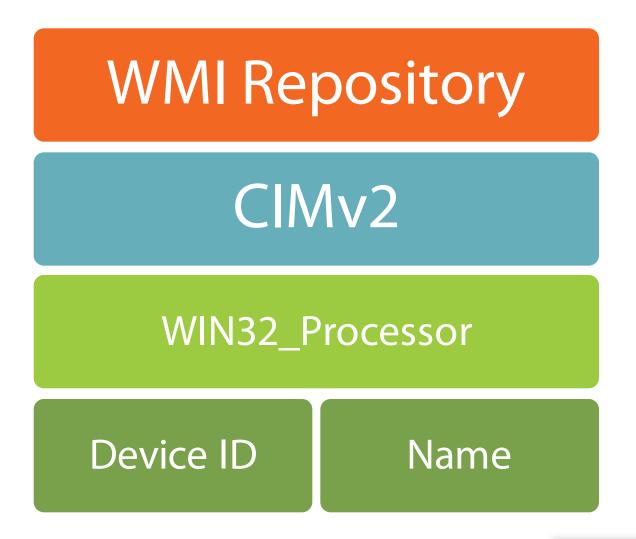
Get-Command

Help

Get-Member

### Gathering Operating System Information

- Windows Management Instrumentation (WMI)
  - Get-WMlobject
- Common Information Model (CIM)
  - Get-CimInstance



### Gathering Operating System and Hardware Information with PowerShell

Get-Counter

Get-WMIObject

Get-CIMInstance

Get-Eventlog



### Gathering Networking Information

Ipconfig

Get-NetIPAddressConfiguration

Get-SMBMapping

New-SMBMapping



### Gathering Registry Information with PowerShell

Get-PSProvider

Get-Item

Get-ItemProperty

Set-ItemProperty



This is a registry key. Use Get-Item to view



### Working with Files and Printers in PowerShell

Get-ChildItem

Copy-Item

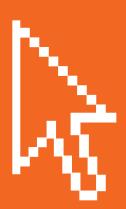
Move-Item

Rename-Item

Get-Printer

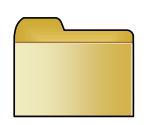
Add-Printer

Remove-Printer









# What is Active Directory?







## Working with Active Directory Information in PowerShell

Get-ADUser

Search-ADAccount

Get-ADComputer

Get-ADGroup

Get-ADGroupMember

Add-ADGroupMember



### More Information on Active Directory



Windows Server Administration Fundamentals – Part 2

- Introduction to Active Directory
- AD Objects and Group Policy

By Michael Bender

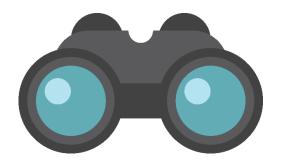
http://www.pluralsight.com/courses/windows-server-administration-fundamentals-part2

### Wrap Up

Have a set methodology for Troubleshooting Get-Help Get-Command Get-Member

Don't mess with the registry!

### Next Up



Gathering Information with PowerShell