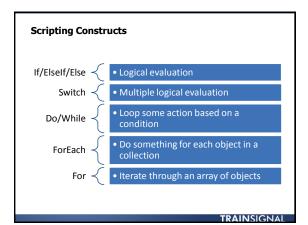


PowerShell Scripting PowerShell supports a simple, batch-file like scripting language Scripting not required to use PowerShell ...but it can make you more efficient If you can run PowerShell commands you can create a script



Basic Scripting Constructs in Action

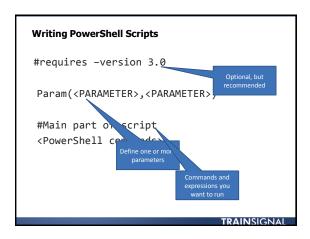
Writing a PowerShell Script

Any commands you can run in the console can be put into a script (.ps1 file)

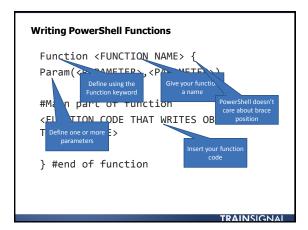
- Scripts can accept parameters
- Scripts can write to the pipeline

Think of a script as a canned PowerShell session

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PowerShell Basic Functions A function is a single purpose re-usable tool Defined in script files Can use parameters Should write objects to the pipeline Functions need to be "loaded" into your PowerShell session Copy and paste Dot source



PowerShell Scripts and Functions

Scripts or Functions?

Scripts

- Repeatable processes
- Can incorporate your functions
- Requires full path execution

Functions

- Re-usable tools
- Requires dot sourcing or modules (not covered in this course)
- Advanced functions act like cmdlets (not covered in this course)

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No aliases – use full cmdlet names Use full parameter names Start with comment-based documentation Use standard Verb-Noun naming convention Use common parameter names Do not include formatting cmdlets Think objects in the pipeline

Next Steps

Creating advanced functions

- Comment based help
- Processing pipelined input
- Parameter validation and attributes
- Cmdletbinding

Creating modules

Creating graphical PowerShell scripts

<u>Learn PowerShell Toolmaking in a Month of</u> <u>Lunches</u> by Don Jones and Jeff Hicks



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Lab	
Write a basic function that takes a computer name as a parameter. Using Get-CIMInstance, have the function write an object that shows the computer name, when it last booted, how long it has been	
running and the percent of free space on the C:\ drive. Give your function a meaningful and	
standard name.	
Hints: OperatingSystem and LogicalDisk	
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