

What is a PowerShell Provider?

Software that translates data storage into a PowerShell-friendly format

Typically hierarchical data structures

- FileSystem
- Registry
- Certificate store
- Active Directory

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What is a PowerShell Provider?

But also configuration sources

- WSMan
- IIS
- Environment

Additional providers may be added via modules

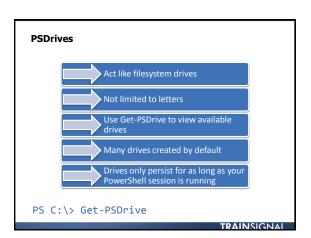
Run Get-PSProvider to view installed providers

Read help topic about_providers

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Using Providers Common providers FileSystem Registry Certificate WSMan Data storage exposed as a PSDrive Provider translates cmdlet actions to the "drive" Providers may expose dynamic parameters Providers may expose dynamic help examples

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Creating a PSDrive

Use New-PSDrive

- Specify drive name
- Specify provider
- Specify path
 Options: credential, persistence

The drive name does not include the colon

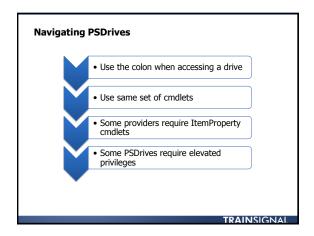
Drives are scope specific

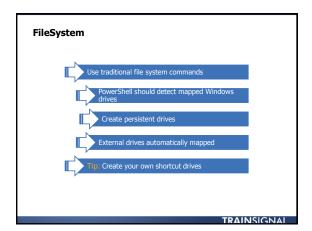
Drives not necessarily seen by Windows

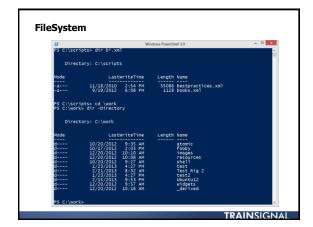
Add drive settings to your PowerShell profile script

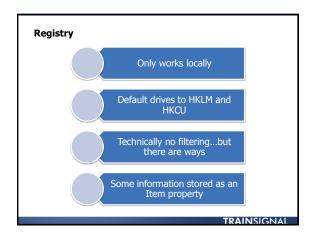
PS C:\> New-PSDrive IT FileSystem \\chi-fp01\IT

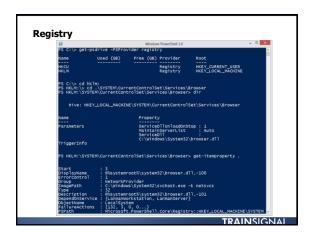
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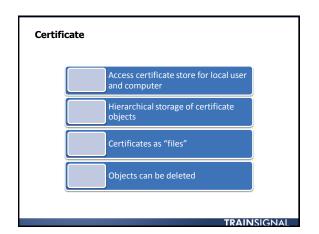


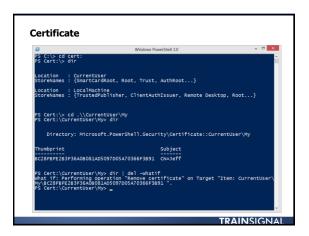


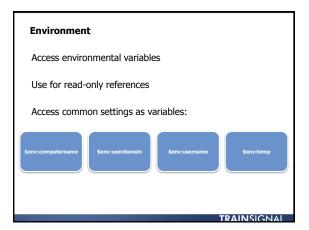














Removing a PSDrive User defined drives end with session Remove persistent drive mappings PS C:\> Remove-PSDrive X TRAINSIGNAL

PowerShell Provider Demos

Additional providers may be added from modules, server features, or third party tools Active Directory IIS

- SQL Server

Provider Sources

- PowerShell Community Extensions
- VMware PowerCLI



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Lab	
Create a new PSDrive called TEMP that is mapped to the %TEMP% environmental variable	
Change to the new drive and recursively list all files and	
folders	
Using the registry find the value for ProductName under HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion	
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