

# **Session Configurations**

PowerShell 3 has several default session configurations

- Get-PSSessionConfiguration

Default sessions can be modified

- Set-PSSessionConfiguration

Session configurations can be disabled and enabled

New session configurations can be defined (outside the scope of this class)

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## **WSMan Security**

### Default authentication is Kerheros

Mutual authentication

### Other ontions available

- Basic
- Digest
- CertificateCredSSP
- Negotiate

### Traffic encrypted by default

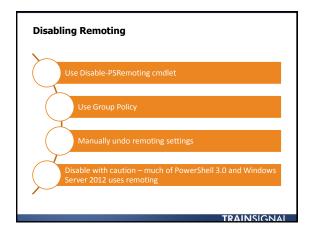
Can be encrypted again and secured by SSL

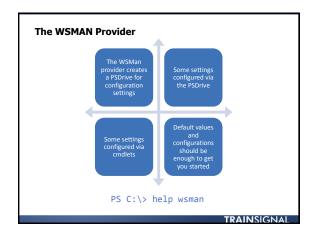
Requires administrator access by default

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# Enable and Configure Remoting • Must run elevated • Run once per machine Enable-PSRemoting cmdlet • Runs Set-WSManQuickConfig • Configures WinRM to AutoStart • Configures firewall settings • Registers session configurations and listeners Use Group Policy Remoting turned off by default in 2.0 Remoting turned on by default in Windows Server 2012 and Windows 8





# **Trusted Hosts**

For non-domain machines you can specify who you trust

- Configure via WSMan PSDrive
  Configure via Group Policy
  DO NOT SET TO \*

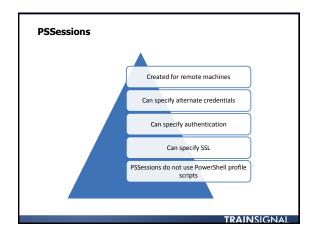
Configured on the client side

Using SSL still the better option

PS C:\> set-item WSMan:\localhost\Client\TrustedHosts \*.globomantics.local

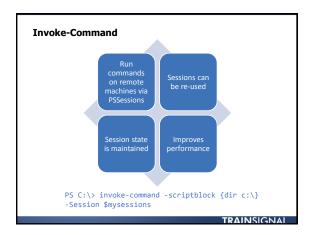
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**Enabling and Configuring PowerShell** Remoting



# PSSessions Enter-PSSession • Use interactively in the console or PowerShell ISE • Like SSH • Use Exit-PSSession to quit New-PSSession • Create persistent PSSessions to one or more remote computers • Can be used interactively • Can be used to run remote commands Sessions close when PowerShell ends • Or use Remove-PSSession Sessions can also be disconnected and reconnected (beyond the scope of this course)

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Advanced Remoting Topics
Implicit Remoting
Disconnected Sessions
Constrained or Delegated endpoints
PowerShell Workflow
Watch for future TrainSignal courses or webinars
<u>PowerShell in Depth: An Administrator's Guide</u> by Don Jones, Richard Siddaway & Jeffery Hicks
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Lab
1. If you have not already done so, enable
PowerShell remoting.  2. Enter an interactive remote session with another computer, or use your computername.
Run some commands.
<ol><li>Create a persistent PSSession for a remote computer, or use your computername. Enter the session and run some commands.</li></ol>
4. Remove all your PSSessions.
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