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PSTerminalServices – PowerShell module for Terminal Services (http://blogs.microsoft.co.il/scriptfanatic/2010/02/22/psterminalservices-powershell-module-for-terminal-services/)

February 22, 2010

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(http://psterminalservices.codeplex.com/)

PSTerminalServices
(http://psterminalservices.codeplex.com/) is a
PowerShell (http://www.microsoft.com/powershell)
module that helps you manage Terminal Services
(including Remote Desktop connections) sessions
and processes. No more legacy applications text
parsing!

The module is based on an open source project named Cassia
(http://code.google.com/p/cassia/) (version 2.0.0.60), a .NET library for accessing the
native Windows Terminal Services API.

What you can do with it

The following operations are supported on local and remote computers:

1. Enumerating terminal sessions and reporting session information including

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connection state, user name, client name, client display details, client-reported IP address, and client build number.

2. Logging off a session.
3. Disconnecting a session.
4. Displaying a message box in a session.
5. Enumerating all processes or processes for a specified session.
6. Killing a process.

Supported Platforms

Cassia has been tested on Windows Server 2008 R2 beta (RTM?), Windows Server 2008, Windows Server 2003, Windows XP, and Windows Server 2000. It should work on Windows Vista as well.

Cassia – Source Files

Cassia source files are included in the module's bin directory (compressed file).

Functions

The following functions are added to the current session when you import the module:

Disconnect-TSSession – Disconnects any attached user from the session.

Get-TSCurrentSession – Provides information about the session in which the current process is running.

Get-TSServers – Enumerates all terminal servers in a given domain.

Get-TSProcess – Gets a list of processes running in a specific session or in all sessions.

Get-TSSession – Lists the sessions on a given terminal server.

Send-TSMessage – Displays a message box in the specified session ID.

Stop-TSProcess – Terminates the process running in a specific session or in all sessions.

Stop-TSSession – Logs the session off, disconnecting any user that might be connected.

Getting help

All functions are decorated with comment-based help so you can use Get-Help (http://go.microsoft.com/fwlink/?LinkID=113316) against any of the functions just like you would do with any other cmdlet. The module also include a help topic file, about_PSTerminalServices_Module, which you can read by typing the following in your current session:

PS > Get-Help (http://go.microsoft.com/fwlink/?LinkID=113316) about_PSTerminalServices_Module

Some Code Examples

For more code examples use Get-Help <cmdletName> –Examples.

Archives

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Meta

Logs off all the active sessions from remote computer 'comp1', no confirmations.
PS> Get-TSSession -ComputerName comp1 -State Active | Stop-TSSession –Force

Gets all Active sessions from remote computer 'comp1', made from IP addresses that starts with '10'.
PS> Get-TSSession -ComputerName comp1 -Filter {$_.ClientIPAddress -like '10*' -AND $_.ConnectionState -eq 'Active'}

Displays a message box inside all active sessions of computer name 'comp1'.
PS>$Message = "Important`n, the server is going down for maintenance in 10 minutes. Please save your work and logoff."
PS> Get-TSSession -State Active -ComputerName comp1 | Send-TSMessage -Message $Message

#Gets all processes connected to session ID 0 from remote computer 'comp1'.
PS>Get-TSSession -Id 0 -ComputerName comp1 | Get-TSProcess

Bugs/Suggestions
Bugs related to Cassia (http://code.google.com/p/cassia/) can be reported directly to its mailing list: cassia-users@googlegroups.com. Module Bugs/Suggestions/Comments can be reported to the module Discussions page (http://psterminalservices.codeplex.com/discussions).

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Arnaud PETITJEAN (http://powershell-scripting.com)
May 17, 2010 00:51 ב (http://blogs.microsoft.co.il/scriptfanatic/2010/02/22/psterminalservices-powershell-module-for-terminal-services/#comment-620536)

Pingback from http://powershell-scripting.com/index.php?option=com_content&task=view&id=338&Itemid=80 (http://powershell-scripting.com/index.php?option=com_content&task=view&id=338&Itemid=80)

Jon Lundfelt
June 9, 2011 19:34 ב (http://blogs.microsoft.co.il/scriptfanatic/2010/02/22/psterminalservices-powershell-module-for-terminal-services/#comment-841882)

I think there is a problem with the installer.. It seems to query the shell folder for My Documents
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders\Personal
And appends '\\WindowsPowerShell' to that path, which failes-
Product: PSTerminalServices — Error 1606. Could not access network location \\myserver\mycifsshare\My Documents\\WindowsPowerShell.

Additional Posts

June 30, 2013
I'm a Microsoft MVP… Again
It's that time of the year which feels like having a second birthday. I'm proud to announce that I was awarded the MVP title once again. This is my 6th year in a row as a PowerShell MVP, and hopefully not my last! Thank you all, Lechaim!!
(http://blogs.microsoft.co.il/scriptfanatic/a-microsoft-mvp-again/)

December 20, 2012
Improving the output of Update-Help
Source: PowerShellMagazine.com   If you've updated PowerShell to version 3.0 you probably noticed that help is no longer shipped in the box. PowerShell 3.0 includes a new feature, the Updatable Help system, which allows you to ensure that help on the local computer stays up to date. PowerShell is now a part of the operating […]
(http://blogs.microsoft.co.il/scriptfanatic/the-output-of-update-help/)

December 4, 2012
Skipping empty CSV objects
Hi, it's been a while since my last post, I've been busy mostly at work and also by investing most of my time running the PowerShell Magazine website together with my friends. I hope to post more in the future. For the time being,