



python



PowerShell

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PowerShell Get-Help on command 'Get-PSSessionConfiguration'

PS C:\Users\wahid> Get-Help Get-PSSessionConfiguration

NAME

Get-PSSessionConfiguration

SYNOPSIS

Gets the registered session configurations on the computer.

SYNTAX

```
Get-PSSessionConfiguration [[-Name] <System.String[]>] [-Force]  
[<CommonParameters>]
```

DESCRIPTION

The `Get-PSSessionConfiguration` cmdlet gets the session configurations that have been registered on the local computer. This is an advanced cmdlet that is designed to be used by system administrators to manage customized session configurations for their users.

Beginning in PowerShell 3.0, you can define the properties of a session configuration by using a session configuration (.pssc) file. This feature lets you create customized and restricted sessions without writing a computer

program. For more information about session configuration files, see [about_Session_Configuration_Files \(About/about_Session_Configuration_Files.md\)](#).

Also, beginning in PowerShell 3.0, new note properties have been added to the session configuration object that `Get-PSSessionConfiguration` returns. These properties make it easier for users and session configuration authors to examine and compare session configurations.

To create and register a session configuration, use the `Register-PSSessionConfiguration` cmdlet. For more information about session configurations, see [about_Session_Configurations \(About/about_Session_Configurations.md\)](#).

PARAMETERS

`-Force <System.Management.Automation.SwitchParameter>`

Suppresses the prompt to restart the WinRM service, if the service is not already running.

`-Name <System.String[]>`

Gets only the session configurations with the specified name or name pattern. Enter one or more session configuration names. Wildcards are permitted.

`<CommonParameters>`

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see [about_CommonParameters \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

- Example 1 - Get session configurations on the local computer -

---- Example 2 - Get the two default session configurations ----

```
Get-PSSessionConfiguration -Name Microsoft*
```

Name	PSVersion	StartupScript	Permission
-----	-----	-----	-----
microsoft.powershell	5.1		
BUILTIN\Administrators		AccessAll...	
microsoft.powershell32	5.1		
BUILTIN\Administrators		AccessAll...	

Example 3 - Get the properties and values of a session configuration

```
Get-PSSessionConfiguration -Name Full | Format-List -Property *
```

```
Copyright           : (c) 2011 User01. All rights reserved.
AliasDefinitions     : {System.Collections.Hashtable}
SessionType         : Default
CompanyName          : Unknown
GUID                : 1e9cb265-dae0-4bd3-89a9-8338a47698a1
Author              : User01
ExecutionPolicy      : Restricted
SchemaVersion       : 1.0.0.0
LanguageMode        : FullLanguage
Architecture        : 64
Filename            : %windir%\system32\pwrshplugin.dll
ResourceUri         : http://schemas.microsoft.com/powershell/Full
MaxConcurrentCommandsPerShell : 1500
UseSharedProcess     : false
ProcessIdleTimeoutSec : 0
```

```
xmlns           :
http://schemas.microsoft.com/wbem/wsmman/1/config/PluginConfiguration
MaxConcurrentUsers      : 10
lang                 : en-US
SupportsOptions        : true
ExactMatch            : true
configfilepath         : C:\WINDOWS\System32\WindowsPowerShell\v1.0\SessionConfig\Full_1e9cb265-dae0-4bd3-89a9-8338a47698a1.pssc
RunAsUser             :
IdleTimeoutms         : 7200000
PSVersion             : 3.0
OutputBufferingMode    : Block
AutoRestart           : false
MaxShells             : 300
MaxMemoryPerShellMB    : 1024
MaxIdleTimeoutms       : 43200000
SDKVersion            : 1
Name                  : Full
XmlRenderingType       : text
Capability             : {Shell}
RunAsPassword          :
MaxProcessesPerShell   : 25
Enabled               : True
MaxShellsPerUser       : 30
Permission             :
```

The example uses the ``Get-PSSessionConfiguration`` cmdlet to get the full session configuration. A pipeline operator sends the Full session configuration to the ``Format-List`` cmdlet. The Property parameter with a value of ``*`` (all) directs ``Format-List`` to display all the properties and values of the object in a list.

configuration, the session type, language mode, and execution policy of sessions that are created with this session configuration, session quotas, and the full path to the session configuration file.

This view of a session configuration is used for sessions that include a session configuration file. For more information about session configuration files, see [about_Session_Configuration_Files](#) (About/about_Session_Configuration_Files.md).

Example 4 - Another way to look at the session configurations

```
dir wsman:\localhost\plugin
```

Type	Keys	Name
Container	{Name=Event Forwarding Plugin}	Event Forwarding Plugin
Container	{Name=Full}	Full
Container	{Name=microsoft.powershell}	microsoft.powershell
Container	{Name=microsoft.powershell.workf...}	microsoft.powershell.workflow
Container	{Name=microsoft.powershell32}	microsoft.powershell32
Container	{Name=microsoft.ServerManager}	microsoft.ServerManager
Container	{Name=WMI Provider}	WMI Provider

The Plugin node contains ContainerElement objects

(Microsoft.WSMan.Management.WSManConfigContainerElement) that represent the registered PowerShell session configurations, along with other plug-ins for WS-Management.

- Example 6 - View session configurations on a remote computer -

```
Connect-WSMan -ComputerName Server01
```

```
dir WSMan:\Server01\Plugin
```

Type	Keys	Name
----	----	----
Container	{Name=Empty}	Empty
Container	{Name=Event Forwarding Plugin}	Event Forwarding Plugin
Container	{Name=Full}	Full
Container	{Name=microsoft.powershell}	microsoft.powershell
Container	{Name=microsoft.powershell.workf...}	microsoft.powershell.workflow
Container	{Name=microsoft.powershell32}	microsoft.powershell32
Container	{Name=microsoft.ServerManager}	microsoft.ServerManager
Container	{Name=NoLanguage}	NoLanguage
Container	{Name=RestrictedLang}	RestrictedLang
Container	{Name=RRS}	RRS
Container	{Name=SEL Plugin}	SEL Plugin
Container	{Name=WithProfile}	WithProfile
Container	{Name=WMI Provider}	WMI Provider

The `Connect-WSMan` cmdlet connects to the WinRM service on the Server01 remote computer. The `Get-ChildItem` cmdlet (alias `dir`) of the WSMAN: drive gets the items in the Server01\Plugin path. The output shows the items in the Plugin directory on the Server01 computer. The items include the session configurations, which are a type of WSMAN plug-in, along with other types of plug-ins on the computer.

Example 7 - Get detailed session configurations from a remote computer

```
Enable-WSManCredSSP -Delegate Server02
```

```
Connect-WSMan Server02
```

```
Set-Item WSMAN:\Server02*\Service\Auth\CredSSP -Value $true
```

```
Invoke-Command -ScriptBlock {Get-PSSessionConfiguration} -ComputerName  
Server02 -Authentication CredSSP -Credential Domain01\Admin01
```


To see the examples, type: "get-help Get-PSSessionConfiguration -examples".

For more information, type: "get-help Get-PSSessionConfiguration -detailed".

For technical information, type: "get-help Get-PSSessionConfiguration -full".

For online help, type: "get-help Get-PSSessionConfiguration -online"