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Windows PowerShell Get-Help on Cmdlet 'Get-PSProvider'

PS:\>Get-HELP Get-PSProvider -Full

NAME

Get-PSProvider

SYNOPSIS

Gets information about the specified PowerShell provider.

SYNTAX

Get-PSProvider [[-PSProvider] <System.String[]>] [<CommonParameters>]

DESCRIPTION

The `Get-PSProvider` cmdlet gets the PowerShell providers in the current session. You can get a particular drive or all drives in the session.

PowerShell providers let you access a variety of data stores as though they were file system drives. For information about PowerShell providers, see [about_Providers](#)

([./Microsoft.PowerShell.Core/About/about_Providers.md](#)).

PARAMETERS

-PSProvider <System.String[]>

Specifies the name or names of the PowerShell providers about which this cmdlet gets information.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

<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>).

INPUTS

System.String

You can pipe one or more provider name strings to this cmdlet.

OUTPUTS

System.Management.Automation.ProviderInfo

This cmdlet returns objects that represent the PowerShell providers in the session.

NOTES

----- Example 1: Display a list of all available providers -----

Get-PSProvider

This command displays a list of all available PowerShell providers.

Example 2: Display a list of all PowerShell providers that begin with specified letters

```
Get-PSProvider f*, r* | Format-List
```

This command displays a list of all PowerShell providers with names that begin with the letter `f` or `r`.

Example 3: Find snap-ins or module that added providers to your session

```
Get-PSProvider | Format-Table Name, Module, PSSnapIn -AutoSize
```

Name	Module	PSSnapIn
Registry		Microsoft.PowerShell.Core
Alias		Microsoft.PowerShell.Core
Environment		Microsoft.PowerShell.Core
FileSystem		Microsoft.PowerShell.Core
Function		Microsoft.PowerShell.Core
Variable		Microsoft.PowerShell.Core
Certificate		Microsoft.PowerShell.Security
WSMan	Microsoft.WSMan.Management	

```
Get-PSProvider | Where {$_.ModuleName -eq "Microsoft.PowerShell.Security"}
```

Name	Capabilities	Drives
Certificate	ShouldProcess	{cert}

These commands find the PowerShell snap-ins or modules that added providers to your session. All PowerShell elements, including providers, originate in a snap-in or in a module.

These commands use the PSSnapin and Module properties of the ProviderInfo object that `Get-PSProvider` returns. The values of these properties contain the name of the snap-in or module that adds the provider.

The first command gets all of the providers in the session and formats them in a table with the values of their Name, Module, and PSSnapin properties.

The second command uses the `Where-Object` cmdlet to get the providers that come from the Microsoft.PowerShell.Security snap-in.

Example 4: Resolve the path of the Home property of the file system provider

```
C:\> Resolve-Path ~
```

```
Path
```

```
---
```

```
C:\Users\User01
```

```
PS C:\> (get-psprovider FileSystem).home
```

```
C:\Users\User01
```

This example shows that the tilde symbol (`~`) represents the value of the Home property of the FileSystem provider. The Home property value is optional, but for the FileSystem provider, it is defined as `\$_env:HOMEDRIVE\\$_env:HOMEPATH` or `\$_HOME`.

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/microsoft.powershell.management/get-psprovider?view=powershell-5.1&WT.mc_id=ps-gethelp