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PowerShell Get-Help on command 'Get-Job'

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

NAME

Get-Job

SYNOPSIS

Gets PowerShell background jobs that are running in the current session.

SYNTAX

Get-Job [[-Id] <System.Int32[]>] [-After <System.DateTime>] [-Before <System.DateTime>] [-ChildJobState {NotStarted | Running | Completed | Failed | Stopped | Blocked | Suspended | Disconnected | Suspending | Stopping | AtBreakpoint}] [-HasMoreData <System.Boolean>] [-IncludeChildJob] [-Newest <System.Int32>] [<CommonParameters>]

Get-Job [-After <System.DateTime>] [-Before <System.DateTime>] [-ChildJobState {NotStarted | Running | Completed | Failed | Stopped | Blocked | Suspended | Disconnected | Suspending | Stopping | AtBreakpoint}] [-Command <System.String[]>] [-HasMoreData <System.Boolean>] [-IncludeChildJob] [-Newest <System.Int32>] [<CommonParameters>]

<System.DateTime>] [-ChildJobState {NotStarted | Running | Completed | Failed
| Stopped | Blocked | Suspended | Disconnected | Suspending | Stopping |
AtBreakpoint}] [-HasMoreData <System.Boolean>] [-IncludeChildJob] [-Newest
<System.Int32>] [<CommonParameters>]

Get-Job [-Name] <System.String[]> [-After <System.DateTime>] [-Before <System.DateTime>] [-ChildJobState {NotStarted | Running | Completed | Failed | Stopped | Blocked | Suspended | Disconnected | Suspending | Stopping | AtBreakpoint}] [-HasMoreData <System.Boolean>] [-IncludeChildJob] [-Newest <System.Int32>] [<CommonParameters>]

Get-Job [-State] {NotStarted | Running | Completed | Failed | Stopped |
Blocked | Suspended | Disconnected | Suspending | Stopping | AtBreakpoint}
[-After <System.DateTime>] [-Before <System.DateTime>] [-ChildJobState
{NotStarted | Running | Completed | Failed | Stopped | Blocked | Suspended |
Disconnected | Suspending | Stopping | AtBreakpoint}] [-HasMoreData
<System.Boolean>] [-IncludeChildJob] [-Newest <System.Int32>]
[<CommonParameters>]

Get-Job [-Filter] <System.Collections.Hashtable> [<CommonParameters>]

DESCRIPTION

The `Get-Job` cmdlet gets objects that represent the background jobs that were started in the current session. You can use `Get-Job` to get jobs that were started by using the `Start-Job` cmdlet, or by using the AsJob parameter of any cmdlet.

Without parameters, a `Get-Job` command gets all jobs in the current session. You can use the parameters of `Get-Job` to get particular jobs.

The job object that `Get-Job` returns contains useful information about the job, but it does not contain the job results. To get the results, use the

`Receive-Job` cmdlet.

A Windows PowerShell background job is a command that runs in the background without interacting with the current session. Typically, you use a background job to run a complex command that takes a long time to finish. For more information about background jobs in Windows PowerShell, see about_Jobs (./about/about_Jobs.md).

Beginning in Windows PowerShell 3.0, the `Get-Job` cmdlet also gets custom job types, such as workflow jobs and instances of scheduled jobs. To find the job type of a job, use the PSJobTypeName property of the job.

To enable `Get-Job` to get a custom job type, import the module that supports the custom job type into the session before you run a `Get-Job` command, either by using the `Import-Module` cmdlet or by using or getting a cmdlet in the module. For information about a particular custom job type, see the documentation of the custom job type feature.

PARAMETERS

-After <System.DateTime>

Gets completed jobs that ended after the specified date and time. Enter a DateTime object, such as one returned by the `Get-Date` cmdlet or a string that can be converted to a DateTime object, such as `Dec 1, 2012 2:00 AM` or `11/06`.

This parameter works only on custom job types, such as workflow jobs and scheduled jobs, that have an EndTime property. It does not work on standard background jobs, such as those created by using the `Start-Job` cmdlet. For information about support for this parameter, see the help topic for the job type.

-Before <system.datetime></system.datetime>	
Gets completed jobs that ended before the specified date and time. Enter a	
DateTime object.	
This parameter works only on custom job types, such as workflow jobs and	
scheduled jobs, that have an EndTime property. It does not work on	
standard background jobs, such as those created by using the `Start-Job`	
cmdlet. For information about support for this parameter, see the help	
topic for the job type.	
This parameter was introduced in Windows PowerShell 3.0.	
-ChildJobState <system.management.automation.jobstate></system.management.automation.jobstate>	
Gets only the child jobs that have the specified state. The acceptable	
values for this parameter are:	
- NotStarted	
- Running	
- Completed	
- Failed	
- Stopped	
- Blocked	
- Suspended	
- Disconnected	

- Suspending
- Stopping

By default, `Get-Job` does not get child jobs. By using the IncludeChildJob parameter, `Get-Job` gets all child jobs. If you use the ChildJobState parameter, the IncludeChildJob parameter has no effect. This parameter was introduced in Windows PowerShell 3.0.

-Command <System.String[]>

Specifies an array of commands as strings. This cmdlet gets the jobs that include the specified commands. The default is all jobs. You can use wildcard characters to specify a command pattern.

-Filter <System.Collections.Hashtable>

Specifies a hash table of conditions. This cmdlet gets jobs that satisfy all of the conditions. Enter a hash table where the keys are job properties and the values are job property values.

This parameter works only on custom job types, such as workflow jobs and scheduled jobs. It does not work on standard background jobs, such as those created by using the `Start-Job` cmdlet. For information about support for this parameter, see the help topic for the job type.

This parameter was introduced in Windows PowerShell 3.0.

-HasMoreData <System.Boolean>

Indicates whether this cmdlet gets only jobs that have the specified HasMoreData property value. The HasMoreData property indicates whether all job results have been received in the current session. To get jobs that have more results, specify a value of `\$True`. To get jobs that do not

have more results, specify a value of `\$False`.

To get the results of a job, use the 'Receive-Job' cmdlet.

When you use the `Receive-Job` cmdlet, it deletes from its in-memory, session-specific storage the results that it returned. When it has returned all results of the job in the current session, it sets the value of the HasMoreData property of the job to `\$False`) to indicate that it has no more results for the job in the current session. Use the Keep parameter of `Receive-Job` to prevent `Receive-Job` from deleting results and changing the value of the HasMoreData property. For more information, type `Get-Help Receive-Job`.

The HasMoreData property is specific to the current session. If results for a custom job type are saved outside of the session, such as the scheduled job type, which saves job results on disk, you can use the 'Receive-Job' cmdlet in a different session to get the job results again, even if the value of HasMoreData is '\$False'. For more information, see the help topics for the custom job type.

This parameter was introduced in Windows PowerShell 3.0.

-ld <System.Int32[]>

Specifies an array of IDs of jobs that this cmdlet gets.

The ID is an integer that uniquely identifies the job in the current session. It is easier to remember and to type than the instance ID, but it is unique only in the current session. You can type one or more IDs separated by commas. To find the ID of a job, type `Get-Job` without parameters.

-IncludeChildJob <System.Management.Automation.SwitchParameter>
Indicates that this cmdlet returns child jobs, in addition to parent jobs.

This parameter is especially useful for investigating workflow jobs, for which `Get-Job` returns a container parent job, and job failures, because the reason for the failure is saved in a property of the child job.

This parameter was introduced in Windows PowerShell 3.0.

-InstanceId <System.Guid[]>

Specifies an array of instance IDs of jobs that this cmdlet gets. The default is all jobs.

An instance ID is a GUID that uniquely identifies the job on the computer.

To find the instance ID of a job, use `Get-Job`.

-Name <System.String[]>

Specifies an array of instance friendly names of jobs that this cmdlet gets. Enter a job name, or use wildcard characters to enter a job name pattern. By default, `Get-Job` gets all jobs in the current session.

-Newest <System.Int32>

Specifies a number of jobs to get. This cmdlet gets the jobs that ended most recently.

The Newest parameter does not sort or return the newest jobs in end-time order. To sort the output, use the `Sort-Object` cmdlet.

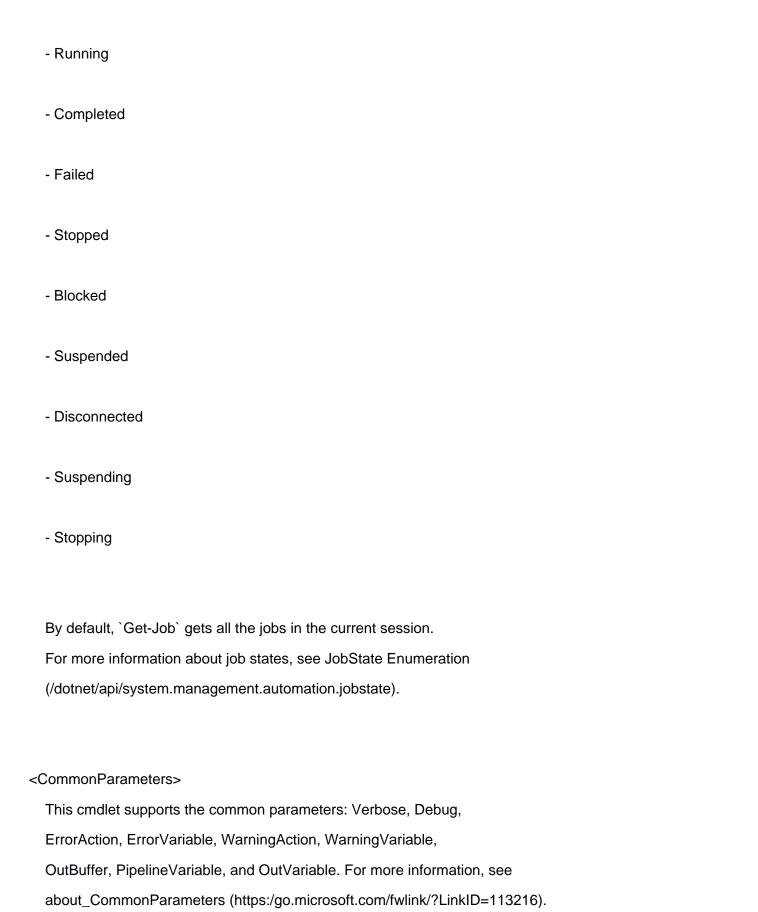
This parameter was introduced in Windows PowerShell 3.0.

-State <System.Management.Automation.JobState>

Specifies a job state. This cmdlet gets only jobs in the specified state.

The acceptable values for this parameter are:

- NotStarted Page 7/16

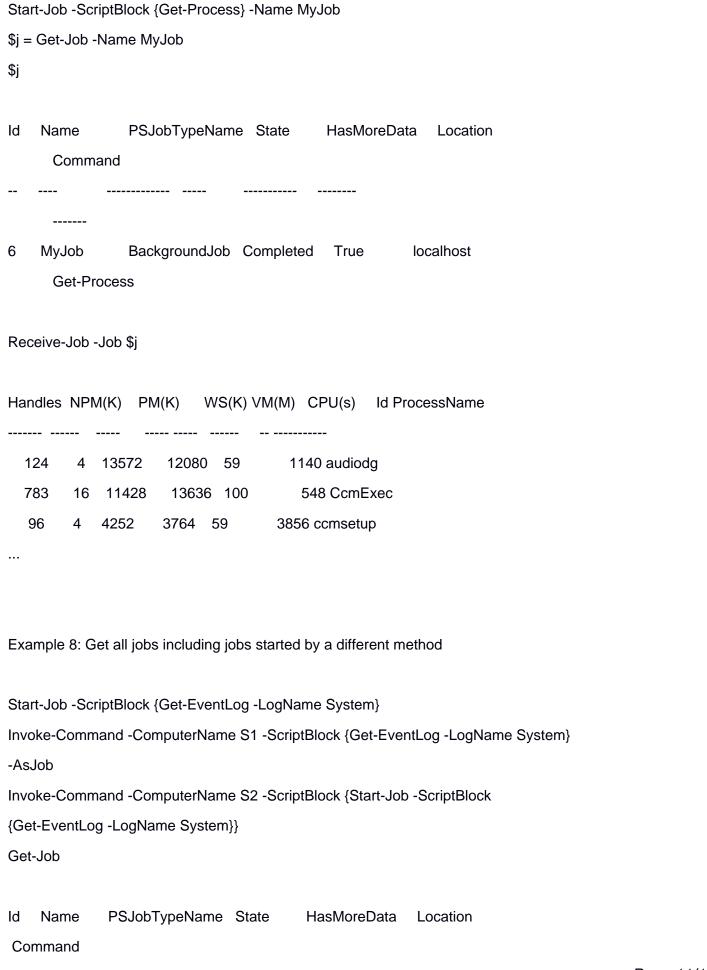


Example 1: Get all background jobs started in the current session

ld 	Name Comma	PSJobTypeName State HasMoreData Location and	
1	Job1 \$env:C	BackgroundJob Completed True localhost	
	Example	e 2: Stop a job by using an instance ID	
\$i =	Get-Job -N	Name Job1	
	= \$j.Instan		
\$ID			
Gui	d		
03c	3232e-1d23	3-453b-a6f4-ed73c9e29d55	
Sto	p-Job -Insta	anceld \$ID	
	Example 3	3: Get jobs that include a specific command	
Get	-Job -Comr	mand "*Get-Process*"	
ld	Name Comma	PSJobTypeName State HasMoreData Location	
		 	
3	Job3	BackgroundJob Running True localhost	
J	Get-Pro		Page 9/16

Example 4: Get jobs that include a specific command by using the pipeline						
[pscustomobject]@{Command='*Get-Process*'} Get-Job						
d	Name Comman	• •	PSJobTypeName State HasMoreData			
3	Job3 Get-Proc	BackgroundJob	Running	True	localhost	
Example 5: Get jobs that have not been started						
Get-Job -State NotStarted						
Example 6: Get jobs that have not been assigned a name						
Get-Job -Name Job*						
d	Name Comman	71	ne State	HasMoreD	ata Location	
1	Job1 \$env:CC	BackgroundJob MPUTERNAME	Completed	True	localhost	

Example 7: Use a job object to represent the job in a command



	•						
1 J	Job1	BackgroundJob	Running	True	localhost		
Get-EventLog System							
2 J	Job2	RemoteJob	Running	True	S1		
Get-E	EventLo	g System					
\$Sess	sion = N	ew-PSSession -C	ComputerNa	ame S2			
Invok	e-Comm	nand -Session \$S	ession -Scr	riptBlock {Sta	art-Job -ScriptBlock		
{Get-E	EventLo	g -LogName Sys	tem}}				
Invok	e-Comm	nand -Session \$S	ession -Sci	riptBlock {Ge	et-Job}		
ld N	Name	PSJobType	Name Sta	te Hasľ	MoreData Location		
	Comm	and P	SCompute	rName			
1 J	Job1	BackgroundJ	lob Runnir	ng True	localhost		
	Get-E	entLog -LogNam	ne Sy. S2				
	Exa	ample 9: Investiga	ate a failed	job			
		o -ScriptBlock {Ge	_		-		
-	Name	PSJobTypeNar	me State	HasMore	Data Location		
Cor	mmand						
		BackgroundJob	Failed	False	localhost		
Get	t-Proces	SS					
DC 1	0-(-1-1-) lab 0(a) (15		D			
•).JobStateInfo F	-ormat-List	-Property *			
State: Failed							

Reason:

PS> Get-Job | Format-List -Property * HasMoreData: False StatusMessage: Location : localhost Command : get-process JobStateInfo: Failed Finished : System.Threading.ManualReset EventInstanceId : fb792295-1318-4f5d-8ac8-8a89c5261507 ld : 1 Name : Job1 ChildJobs : {Job2} Output : {} Error : {} **Progress** : {} Verbose : {} Debug : {} Warning : {} StateChanged: PS> (Get-Job -Name job2).JobStateInfo.Reason Connecting to remote server using WSManCreateShellEx api failed. The async callback gave the following error message: Access is denied. ----- Example 10: Get filtered results -----PS> Workflow WFProcess {Get-Process} PS> WFProcess -AsJob -JobName WFProcessJob -PSPrivateMetadata @{MyCustomId = 92107} PS> Get-Job -Filter @{MyCustomId = 92107} ld Name State HasMoreData Location

Command

Page 13/16

1 WFProcessJob Completed True localhost WFProcess					
Example 11: Get information about child jobs					
PS> Get-Job					
Id Name PSJobTypeName State HasMoreData Location Command					
2 Job2 BackgroundJob Completed True localhost .\Get-Archive.ps1					
4 Job4 RemoteJob Failed True Server01,					
Server02 .\Get-Archive.ps1					
7 UpdateHelpJob PSScheduledJob Completed True localhost					
Update-Help 8 UpdateHelpJob PSScheduledJob Completed True localhost					
Update-Help					
9 UpdateHelpJob PSScheduledJob Completed True localhost					
Update-Help					
10 UpdateHelpJob PSScheduledJob Completed True localhost					
Update-Help					
PS> Get-Job -IncludeChildJob					
Id Name PSJobTypeName State HasMoreData Location Command					

2	Job2	Backgrou	undJob	Comp	leted	True	loca	lhost
	.\Get-Arch	ive.ps1						
3	Job3		Compl	eted	True	I	ocalhost	
	.\Get-Arch	ive.ps1						
4	Job4	RemoteJ	Job F	ailed	Tru	е	Server01	,
Ser	ver02 .\Get-	Archive.ps	s1					
5	Job5		Failed	Fa	lse	Se	rver01	
	.\Get-Arch	ive.ps1						
6	Job6		Compl	eted	True	;	Server02	
	.\Get-Arch	ive.ps1						
7	UpdateHelp	Job PS	Schedul	edJob	Comple	eted	True	localhost
	Update-H	lelp						
8	UpdateHelp	Job PS	Schedul	edJob	Comple	eted	True	localhost
	Update-H	lelp						
9	UpdateHelp	Job PS	Schedul	edJob	Comple	eted	True	localhost
	Update-H	lelp						
10	UpdateHel	pJob PS	Schedu	ledJob	Compl	eted	True	localhost
	Update-H	lelp						
PS>	PS> Get-Job -Name Job4 -ChildJobState Failed							
ld	Name	PSJobT	ГуреNar	ne Sta	ate	HasN	/loreData	Location
	Comman	d						
2	Job2	Backgrou	undJob	Comp	leted	True	loca	lhost
	.\Get-Arch	ive.ps1						
4	Job4	RemoteJ	Job F	ailed	Tru	е	Server01	,
Ser	ver02 .\Get-	Archive.ps	s1					
5	Job5		Failed	Fa	lse	Se	rver01	
	.\Get-Archive.ps1							
7	UpdateHelp	Job PS	Schedul	edJob	Comple	eted	True	localhost

Update-Help

8 UpdateHelpJob PSScheduledJob Completed True localhost
 Update-Help

 9 UpdateHelpJob PSScheduledJob Completed True localhost
 Update-Help

 10 UpdateHelpJob PSScheduledJob Completed True localhost

PS> (Get-Job -Name Job5).JobStateInfo.Reason

Update-Help

Connecting to remote server Server01 failed with the following error message: Access is denied.

For more information, see the about_Remote_Troubleshooting (./about/about_Remote_Troubleshooting.md)Help topic.

REMARKS

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

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

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

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