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Windows PowerShell Get-Help on Cmdlet 'Receive-Job'

PS:\>Get-HELF	P Receive-J	lob -Fi	ull
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NAME

Receive-Job

SYNOPSIS

Gets the results of the PowerShell background jobs in the current session.

SYNTAX

Receive-Job [-Job] <System.Management.Automation.Job[]> [[-ComputerName] <System.String[]>] [-AutoRemoveJob] [-Force] [-Keep] [-NoRecurse] [-Wait] [-WriteEvents]

[-WriteJobInResults] [<CommonParameters>]

Receive-Job [-Id] <System.Int32[]> [-AutoRemoveJob] [-Force] [-Keep] [-NoRecurse] [-WriteEvents] [-WriteJobInResults] [<CommonParameters>]

Receive-Job [-InstanceId] <System.Guid[]> [-AutoRemoveJob] [-Force] [-Keep] [-NoRecurse] [-WriteEvents] [-WriteJobInResults] [<CommonParameters>]

Receive-Job [-Job] <System.Management.Automation.Job[]> [[-Location] <System.String[]>] [-AutoRemoveJob] [-Force]

Receive-Job [-Job] <System.Management.Automation.Job[]> [[-Session]

<System.Management.Automation.Runspaces.PSSession[]>] [-AutoRemoveJob] [-Force] [-Keep]

[-NoRecurse] [-Wait] [-WriteEvents] [-WriteJobInResults] [<CommonParameters>]

Receive-Job [-Name] <System.String[]> [-AutoRemoveJob] [-Force] [-Keep] [-NoRecurse] [-WriteEvents] [-WriteJobInResults] [<CommonParameters>]

DESCRIPTION

The `Receive-Job` cmdlet gets the results of PowerShell background jobs, such as those started by using the `Start-Job` cmdlet or the AsJob parameter of any cmdlet.

You can get the results of all jobs or identify jobs by their name, ID, instance ID, computer name, location, or session, or by submitting a job object.

When you start a PowerShell background job, the job starts, but the results don't appear immediately. Instead, the command returns an object that represents the

background job. The job object contains useful information about the job, but it doesn't contain the results. This method lets you continue to work in the session

while the job runs. For more information about background jobs in PowerShell, see about_Jobs (./About/about_Jobs.md).

The `Receive-Job` cmdlet gets the results that have been generated by the time that the `Receive-Job` command is submitted. If the results aren't yet complete, you

can run additional `Receive-Job` commands to get the remaining results.

By default, job results are deleted from the system when you receive them, but you can use the Keep parameter to save the results so that you can receive them again.

To delete the job results, run the `Receive-Job` command again without the Keep parameter, close the session, or use the `Remove-Job` cmdlet to delete the job from

the session.

Starting in Windows PowerShell 3.0, `Receive-Job` also gets the results of custom job types, such as workflow gob 2/45 d

instances of scheduled jobs. To enable

`Receive-Job` to get the results a custom job type, import the module that supports the custom job type into the session

before it runs a 'Receive-Job' command,

either by using the `Import-Module` cmdlet or by getting a cmdlet in the module. For information about a particular custom

job type, see the documentation of the

custom job type feature.

PARAMETERS

-AutoRemoveJob <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet deletes the job after it returns the job results. If the job has more results, the job is still

deleted, but 'Receive-Job' displays a

message.

This parameter works only on custom job types. It's designed for instances of job types that save the job or the type

outside of the session, such as instances of

scheduled jobs.

This parameter can't be used without the Wait parameter.

This parameter was introduced in Windows PowerShell 3.0.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ComputerName <System.String[]>

Specifies an array of names of computers.

This parameter selects from among the job results that are stored on the local computer. It doesn't get data for jobs run

on remote computers. To get job results

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	Required?	false
	Position?	1
	Default value	All computers available
	Accept pipeline input	? True (ByPropertyName)
	Accept wildcard chara	acters? true
-F	Force <system.manage< td=""><td>ement.Automation.SwitchParameter></td></system.manage<>	ement.Automation.SwitchParameter>
	Indicates that this c	mdlet continues waiting if jobs are in the Suspended or Disconnected state. By default, the Wait
para	nmeter of `Receive-Job	o` returns, or
	terminates the wait, w	when jobs are in one of the following states:
	- Completed	
	- Failed	
	- Stopped	
	- Suspended	
	- Disconnected.	
	·	is valid only when the Wait parameter is also used in the command.
	This parameter was in	ntroduced in Windows PowerShell 3.0.
	D	follow.
	Required?	false
	Position?	named
	Default value	False
	Accept pipeline input	? False

that are stored on remote computers, use the `Invoke-Command` cmdlet to run a `Receive-Job` command remotely.

-Id <System.Int32[]>

Specifies an array of IDs. This cmdlet gets the results of jobs with the specified IDs.

The ID is an integer that uniquely identifies the job in the current session. it's easier to remember and type than the instance ID, but it's unique only in the

current session. You can type one or more IDs separated by commas. To find the ID of a job, use `Get-Job`.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-InstanceId <System.Guid[]>

Specifies an array of instance IDs. This cmdlet gets the results of jobs with the specified instance IDs.

An instance ID is a GUID that uniquely identifies the job on the computer. To find the instance ID of a job, use the `Get-Job` cmdlet.

Required? true

Position? 0

Default value All instances

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Job <System.Management.Automation.Job[]>

Specifies the job for which results are being retrieved.

Enter a variable that contains the job or a command that gets the job. You can also pipe a job object to `Receive-Job`.

Required? true

Position? 0 Page 5/15

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-Keep <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet saves the aggregated stream data in the system, even after you have received them. By default, aggregated stream data is erased after

viewed with 'Receive-Job'.

Closing the session, or removing the job with the `Remove-Job` cmdlet also deletes aggregated stream data.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Location <System.String[]>

Specifies an array of locations. This cmdlet gets only the results of jobs in the specified locations.

Required? false

Position? 1

Default value All locations

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String[]>

Specifies an array of friendly names. This cmdlet gets the results of jobs that have the specified names. Wildcard characters are supported.

Required? true

Position? 0

Default value None Page 6/15

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? true

-NoRecurse <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet gets results only from the specified job. By default, `Receive-Job` also gets the results of all child jobs of the specified job.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Session <System.Management.Automation.Runspaces.PSSession[]>

Specifies an array of sessions. This cmdlet gets the results of jobs that were run in the specified PowerShell session (
PSSession). Enter a variable that

contains the PSSession or a command that gets the PSSession , such as a `Get-PSSession` command.

Required? false

Position? 1

Default value All sessions

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Wait <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet suppresses the command prompt until all job results are received. By default, `Receive-Job` immediately returns the available results.

By default, the Wait parameter waits until the job is in one of the following states:

- Completed

- Failed Page 7/15

- Stopped
- Suspended
- Disconnected
To direct the Wait parameter to continue waiting if the job state is Suspended or Disconnected, use the Force parameter together with the Wait parameter.
This parameter was introduced in Windows PowerShell 3.0.
Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false
-WriteEvents <system.management.automation.switchparameter> Indicates that this cmdlet reports changes in the job state while it waits for the job to finish.</system.management.automation.switchparameter>
This parameter is valid only when the Wait parameter is used in the command and the Keep parameter is omitted.
This parameter was introduced in Windows PowerShell 3.0.
Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

Indicates that this cmdlet returns the job object followed by the results.

This parameter is valid only when the Wait parameter is used in the command and the Keep parameter is omitted.

This parameter was introduced in Windows PowerShell 3.0.

Required? false

Position? named

Default value False

Accept pipeline input? False

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.Management.Automation.Job

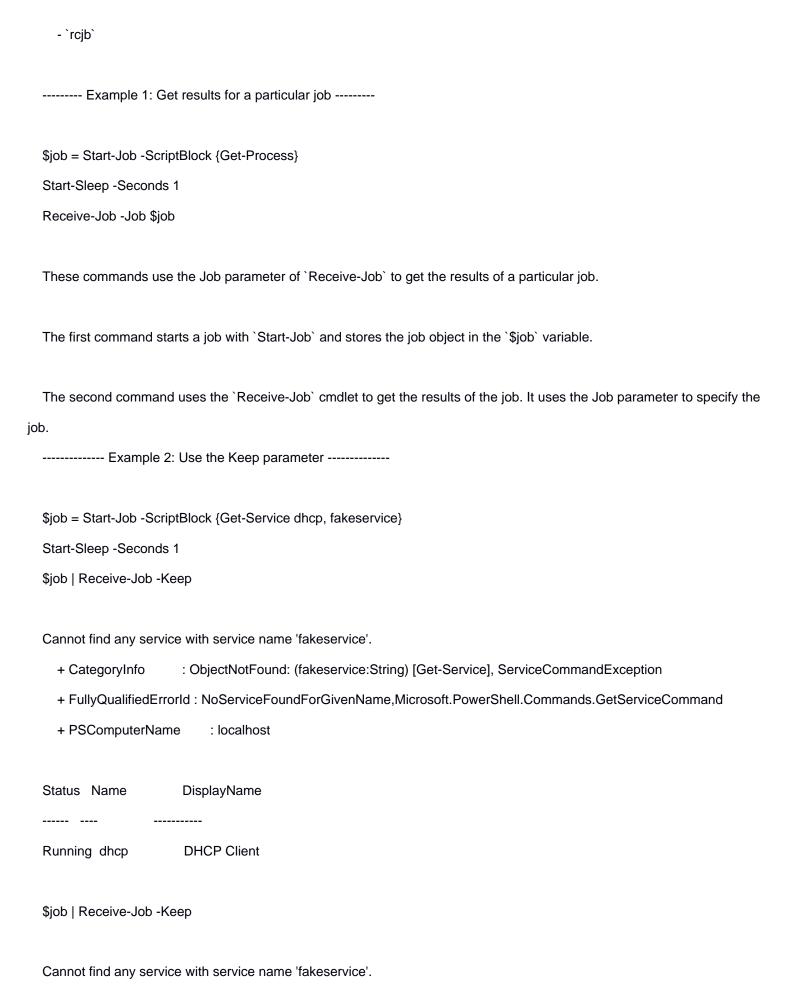
You can pipe job objects to this cmdlet.

OUTPUTS

System.Management.Automation.PSObject

This cmdlet returns the results of the commands in the job.

NOTES



+ CategoryInfo : ObjectNotFound: (fakeservice:String) [Get-Service], ServiceCommandException

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+ FullyQualifiedErrorId: NoServiceFoundForGivenName,Microsoft.PowerShell.Commands.GetServiceCommand

+ PSComputerName : localhost

Status Name DisplayName

Running dhcp

This example stores a job in the `\$job` variable, and pipes the job to the `Receive-Job` cmdlet. The `-Keep` parameter is

also used to allow all aggregated stream

data to be retrieved again after first view.

----- Example 3: Get results of several background jobs -----

DHCP Client

Use the Invoke-Command cmdlet with the -AsJob parameter to start a background job that

runs a Get-Service command on three remote computers. Store the resulting job object in

the \$j variable

\$j = Invoke-Command -ComputerName Server01, Server02, Server03 -ScriptBlock {Get-Service} -AsJob

Display the value of the **ChildJobs** property of the job object in \$j. The display

shows that the command created three child jobs, one for the job on each remote

computer. You could also use the -IncludeChildJobs parameter of the Get-Job cmdlet.

\$j.ChildJobs

ld	Name	State	HasMoreDa	ıta	Location	Command
2	Job2	Complete	ed True	S	erver01	Get-Service
3	Job3	Complete	ed True	S	erver02	Get-Service
4	Job4	Complete	ed True	S	erver03	Get-Service

Use the Receive-Job cmdlet to get the results of just the Job3 child job that ran on the

Server02 computer. Use the *Keep* parameter to allow you to view the aggregated stream

data more than once.

Receive-Job -Name Job3 -Keep

Status Name DisplayName PSComputerName Page 11/15

Running AeLookupSvc Application Experience Server02 Stopped ALG Application Layer Gateway Service Server02 Application Information Server02 Running Appinfo Server02 Running AppMgmt Application Management Example 4: Get results of background jobs on multiple remote computers # Use the New-PSSession cmdlet to create three user-managed PSSessions on three servers, # and save the sessions in the \$s variable. \$s = New-PSSession -ComputerName Server01, Server02, Server03 # Use Invoke-Command run a Start-Job command in each of the PSSessions in the \$s variable. # The code creates a new job with a custom name to each server. The job outputs the # datetime from each server. Save the job objects in the \$j variable. \$invokeCommandSplat = @{ Session = \$s ScriptBlock = { Start-Job -Name \$('MyJob-' +\$env:COMPUTERNAME) -ScriptBlock { (Get-Date).ToString() } } } \$j = Invoke-Command @invokeCommandSplat # To confirm that these job objects are from the remote machines, run Get-Job to show no # local jobs running. Get-Job` # Display the three job objects in \$j. Note that the Localhost location is not the local # computer, but instead localhost as it relates to the job on each Server. \$j

HasMoreData Location Command

Id Name

State

---- ----- Page 12/15

```
MyJob-Server01
                     Completed True
                                           Localhost (Get-Date).ToString()
1
2 MyJob-Server02
                     Completed True
                                           Localhost (Get-Date).ToString()
3 MyJob-Server03
                     Completed True
                                           Localhost (Get-Date).ToString()
# Use Invoke-Command to run a Receive-Job command in each of the sessions in the $s
# variable and save the results in the $results variable. The Receive-Job command must be
# run in each session because the jobs were run locally on each server.
$results = Invoke-Command -Session $s -ScriptBlock {
  Receive-Job -Name $('MyJob-' +$env:COMPUTERNAME)
}
3/22/2021 7:41:47 PM
3/22/2021 7:41:47 PM
3/22/2021 9:41:47 PM
```

This example shows how to get the results of background jobs run on three remote computers. Unlike the previous example, using `Invoke-Command` to run the `Start-Job`

command actually started three independent jobs on each of the three computers. As a result, the command returned three job objects representing three jobs run

locally on three different computers.

----- Example 5: Access child jobs -----

Start-Job -Name TestJob -ScriptBlock {dir C:\, Z:\}

Without the Keep parameter, aggregated child job data is displayed once.

Then destroyed.

Receive-Job -Name TestJob

Directory: C:\

Mode	LastWriteTime	Length Name	
d-r	1/24/2019 7:11 AM	Program Files	
d-r	2/13/2019 8:32 AM	Program Files (x86)	Page 13/15

d-r--- 10/3/2018 11:47 AM Users

d----- 2/7/2019 1:52 AM Windows

Cannot find drive. A drive with the name 'Z' does not exist.

+ CategoryInfo : ObjectNotFound: (Z:String) [Get-ChildItem], DriveNotFoundException

+ FullyQualifiedErrorId: DriveNotFound,Microsoft.PowerShell.Commands.GetChildItemCommand

+ PSComputerName : localhost

It would seem that the child job data is gone.

Receive-Job -Name TestJob

Using the object model, you can still retrieve child job data and streams.

\$job = Get-Job -Name TestJob

\$job.ChildJobs[0].Error

Cannot find drive. A drive with the name 'Z' does not exist.

+ CategoryInfo : ObjectNotFound: (Z:String) [Get-ChildItem], DriveNotFoundException

+ FullyQualifiedErrorld : DriveNotFound,Microsoft.PowerShell.Commands.GetChildItemCommand

+ PSComputerName : localhost

RELATED LINKS

Online Version:

https://learn.microsoft.com/powershell/module/microsoft.powershell.core/receive-job?view=powershell-5.1&WT.mc_id=ps-g ethelp

Get-Job

Invoke-Command

Remove-Job

Resume-Job

Start-Job

Stop-Job Page 14/15

Suspend-Job

Wait-Job