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Windows PowerShell Get-Help on Cmdlet 'New-ScheduledJobOption'

PS:\>Get-HELP New-ScheduledJobOption -Full

NAME

New-ScheduledJobOption

SYNOPSIS

Creates an object that contains advanced options for a scheduled job.

SYNTAX

New-ScheduledJobOption [-ContinuelfGoingOnBattery] [-DoNotAllowDemandStart] [-HideInTaskScheduler] [-IdleDuration <System.TimeSpan>] [-IdleTimeout <System.TimeSpan>]

[-MultipleInstancePolicy {None | IgnoreNew | Parallel | Queue | StopExisting}] [-RequireNetwork] [-RestartOnIdleResume]

[-RunElevated] [-StartIfIdle]

[-StartlfOnBattery] [-StopIfGoingOffIdle] [-WakeToRun] [<CommonParameters>]

DESCRIPTION

The `New-ScheduledJobOption` cmdlet creates an object that contains advanced options for a scheduled job.

You can use the ScheduledJobOptions object that `New-ScheduledJobOption` returns to set job options for a new or existing scheduled job. Alternatively, you can set Page 1/13

job options by using the `Get-ScheduledJobOption` cmdlet to get the job options of an existing scheduled job or by using a hash table value to represent the job

options.

Without parameters, `New-ScheduledJobOption` generates an object that contains the default values for all of the options. Because all of the properties except for the

JobDefinition property can be edited, you can use the resulting object as a template, and create standard option objects for your enterprise.

When creating scheduled jobs and setting scheduled job options, review the default values of all scheduled job options. Scheduled jobs run only when all conditions

set for their execution are satisfied.

`New-ScheduledJobOption` is one of a collection of job scheduling cmdlets in the PSScheduledJob module that is included in Windows PowerShell.

For more information about Scheduled Jobs, see the About topics in the PSScheduledJob module. Import the PSScheduledJob module and then type: `Get-Help

about_Scheduled*` or see about_Scheduled_Jobs (About/about_Scheduled_Jobs.md).

This cmdlet was introduced in Windows PowerShell 3.0.

PARAMETERS

-ContinuelfGoingOnBattery <System.Management.Automation.SwitchParameter>

Do not stop the scheduled job if the computer switches to battery power (disconnects from AC power) while the job is running. By default, scheduled jobs stop when

the computer disconnects from AC power.

false

The ContinuelfGoingOnBattery parameter sets the value of the StopIfGoingOnBatteries property of scheduled jobs to `\$true`. Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DoNotAllowDemandStart <System.Management.Automation.SwitchParameter>

Start the job only when it is triggered. Users cannot start the job manually, such as by using the Run feature in Task Scheduler.

This parameter only affects Task Scheduler. It does not prevents users from using the `Start-Job` cmdlet to start the job.

The DoNotAllowDemandStart parameter sets the value of the DoNotAllowDemandStart property of scheduled jobs to `\$true`.

Required?falsePosition?namedDefault valueFalseAccept pipeline input?FalseAccept wildcard characters?false

-HideInTaskScheduler <System.Management.Automation.SwitchParameter>

Do not display the job in Task Scheduler. This value affects only the computer on which the job runs. By default, scheduled tasks appear in Task Scheduler.

Even if a task is hidden, users can display the task by selecting the Show hidden tasks view option in Task Scheduler.

The HideInTaskScheduler parameter sets the value of the ShowInTaskScheduler property of scheduled jobs to `\$false`.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-IdleDuration <System.TimeSpan>

Specifies how long the computer must be idle before the job starts. The default value is 10 minutes. If the computer is not idle for the specified duration before

the value of IdleTimeout expires, the scheduled job does not run until the next scheduled time, if any.

Enter a TimeSpan object, such as one generated by the `New-TimeSpan` cmdlet, or enter a value in <hours>:<minutes>:<seconds> format that is automatically

converted to a TimeSpan object.

To enable this value, use the StartIfIdle parameter. By default, the StartIfNotIdle property of scheduled jobs is set to \$true` and Windows PowerShell ignores

the IdleDuration and IdleTimeout values.

Required?	false		
Position?	named		
Default value	None		
Accept pipeline ir	nput? False		
Accept wildcard o	characters? false		

-IdleTimeout <System.TimeSpan>

Specifies how long the scheduled job waits for the computer to be idle. If this timeout expires before the computer remains idle for the time period that is

specified by the IdleDuration parameter, the job does not run until the next scheduled time, if any. The default value is one hour.

Enter a TimeSpan object, such as one generated by the `New-TimeSpan` cmdlet, or enter a value in <hours>:<minutes>:<seconds> format that is automatically

converted to a TimeSpan object.

To enable this value, use the StartIfIdle parameter. By default, the StartIfNotIdle property of scheduled jobage setta

`\$true` and Windows PowerShell ignores

the IdleDuration and IdleTimeout values.

Required?	false	
Position?	named	
Default value	None	
Accept pipeline inp	out? False	
Accept wildcard ch	naracters? false	

-MultipleInstancePolicy < Microsoft.PowerShell.ScheduledJob.TaskMultipleInstancePolicy >

Determines how the system responds to a request to start an instance of a scheduled job while another instance of the

job is running. The default value is

`IgnoreNew`. The acceptable values for this parameter are:

- `IgnoreNew` - The new job instance is ignored.

- `Parallel` - The new job instance starts immediately.

- `Queue` - The new job instance starts as soon as the current instance completes.

- `StopExisting` - The current instance of the job stops and the new instance starts.

To run the job, all conditions for the job schedule must be met. For example, if the conditions that are set by the RequireNetwork , IdleDuration , and

IdleTimeout parameters are not satisfied, the job instance is not started, regardless of the value of this parameter.

- Required? false
- Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-RequireNetwork <System.Management.Automation.SwitchParameter>

Runs the scheduled job only when network connections are available.

If you specify this parameter and the network is not available at the scheduled start time, the job does not run until the next scheduled start time, if any.

The RequireNetwork parameter sets the value of the RunWithoutNetwork property of scheduled jobs to `\$false`.

Required?falsePosition?namedDefault valueFalseAccept pipeline input?False

Accept wildcard characters? false

-RestartOnIdleResume <System.Management.Automation.SwitchParameter>

Restarts a scheduled job when the computer becomes idle. This parameter works with the StopIfGoingOffIdle parameter, which suspends a running scheduled job if the

computer becomes active (leaves the idle state).

The RestartOnIdleResume parameter sets the value of the RestartOnIdleResume property of scheduled jobs to `\$true`.

Required?falsePosition?namedDefault valueFalseAccept pipeline input?FalseAccept wildcard characters?false

-RunElevated <System.Management.Automation.SwitchParameter>

Runs the scheduled job with the permissions of a member of the Administrators group on the computer on which the job runs.

To enable a scheduled job to run with Administrator permissions, use the Credential parameter of `Register-ScheduledJob` to provide explicit credential for the

job.

The RunElevated parameter sets the value of the RunElevated property of scheduled jobs to `\$true`.

Required?falsePosition?namedDefault valueFalseAccept pipeline input?FalseAccept wildcard characters?false

-StartIfIdle <System.Management.Automation.SwitchParameter>

Starts the scheduled job if the computer has been idle for the time specified by the IdleDuration parameter before the time specified by the IdleTimeout parameter

expires.

By default, the IdleDuration and IdleTimeout parameters are ignored and the job starts at the scheduled start time even if the computer is busy.

If you specify this parameter and the computer is busy (not idle) at the scheduled start time, the job does not run until the next scheduled start time, if any.

The StartIfIdle parameter sets the value of the StartIfNotIdle property of scheduled jobs to `\$false`.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-StartIfOnBattery <System.Management.Automation.SwitchParameter>

Starts the scheduled job even if the computer is running on batteries at the scheduled start time. The defaulteries

`\$false`.

The StartlfOnBattery parameter sets the value of the StartlfOnBatteries property of scheduled jobs to `\$true`.

Required?falsePosition?namedDefault valueFalseAccept pipeline input?FalseAccept wildcard characters?false

-StoplfGoingOffIdle <System.Management.Automation.SwitchParameter>

Suspends a running scheduled job if the computer becomes active (not idle) while the job is running.

By default, a scheduled job that is suspended when the computer becomes active resumes when the computer becomes idle again. To change this default behavior, use

the RestartOnIdleResume parameter.

The StopIfGoingOffIdle parameter sets the value of the StopIfGoingOffIdle property of scheduled jobs to `\$true`.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WakeToRun <System.Management.Automation.SwitchParameter>

Wakes the computer from a Hibernate or Sleep state at the scheduled start time so it can run the job. By default, if the computer is in a Hibernate or Sleep state

at the scheduled start time, the job does not run.

false

The WakeToRun parameter sets the value of the WakeToRun property of scheduled jobs to `\$true`.

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

None

You can't pipe objects to this cmdlet.

OUTPUTS

Microsoft.PowerShell.ScheduledJob.ScheduledJobOptions

This cmdlet returns a ScheduledJobOptions object representing the created options.

NOTES

- You can use the ScheduledJobOptions object that `New-ScheduledJobOption` creates as the value of the ScheduledJobOption parameter of the

`Register-ScheduledJob` cmdlet. However, the ScheduledJobOption parameter can also take a hash table value that specifies the properties of the

ScheduledJobOptions object and their values, such as:

`@{ShowInTaskScheduler=\$False; RunElevated=\$True; IdleDuration="00:05"}`

Example 1: Create a scheduled job option object with default values

New-ScheduledJobOption

Example 2: Create a scheduled job option object with custom values

New-ScheduledJobOption -RequireNetwork -StartIfOnBattery

- StartIfOnBatteries : True
- StoplfGoingOnBatteries : True
- WakeToRun : False
- StartlfNotIdle : True
- StopIfGoingOffIdle : False
- RestartOnIdleResume : False IdleDuration : 00:10:00
- IdleTimeout : 01:00:00
- ShowInTaskScheduler : True
- RunElevated : False
- RunWithoutNetwork : False
- DoNotAllowDemandStart : False
- MultipleInstancePolicy : Ignore
- NewJobDefinition :

The following command creates a scheduled job object that requires the network and runs the scheduled job even if the computer is not connected to AC power.

The output shows that the RequireNetwork parameter changed the value of the RunWithoutNetwork property to `\$false` and the StartIfOnBattery parameter changed the

value of the StartIfOnBatteries property to `\$true`.

----- Example 3: Set options for a new scheduled job ------

\$runAsAdmin = New-ScheduledJobOption -RunElevated

Register-ScheduledJob -Name Backup -FilePath D:\Scripts\Backup.ps1 -Trigger \$Mondays -ScheduledGodfater

\$RunAsAdmin

Get-ScheduledJobOption -Name Backup

StartlfOnBatteries : False StoplfGoingOnBatteries : True WakeToRun : False StartlfNotIdle : True StopIfGoingOffIdle : False RestartOnIdleResume : False IdleDuration : 00:10:00 IdleTimeout : 01:00:00 ShowInTaskScheduler : True : True RunElevated RunWithoutNetwork : True DoNotAllowDemandStart : False MultipleInstancePolicy : IgnoreNew JobDefinition : Microsoft.PowerShell.ScheduledJob.ScheduledJobDefinition

The first command creates a ScheduledJobOptions object with the RunElevated parameter. It saves the object in the `\$runAsAdmin` variable.

The second command uses the `Register-ScheduledJob` cmdlet to create a new scheduled job. The value of the ScheduledJobOption parameter is the option object in the

value of the `\$runAsAdmin` variable.

The third command uses the `Get-ScheduledJobOption` cmdlet to get the job options of the Backup scheduled job.The cmdlet output shows that the RunElevated property is

set to `\$true` and the JobDefinition property of the job option object is now populated with the scheduled job object for the Backup scheduled job.

Example 4: Sort the properties of a scheduled job option object

\$options = New-ScheduledJobOption -WakeToRun

\$options.PSObject.Properties | Sort-Object - Property Name | Format-Table - Property Name, Value - Autosize Page 11/13

Name	Value	
DoNotAllowDemar	ndStart	False
IdleDuration	00:10:0	0
IdleTimeout	01:00:0	00
JobDefinition		
MultipleInstancePolicy IgnoreNew		oreNew
RestartOnIdleRest	ume	False
RunElevated	Fals	e
RunWithoutNetwo	rk	True
ShowInTaskSched	luler	True
StartlfNotIdle	True	
StartlfOnBatteries	Fals	se
StoplfGoingOffldle	Fa	lse
StoplfGoingOnBat	teries	True
WakeToRun	Tru	he

The first command uses the `New-ScheduledJobOption` cmdlet to create a ScheduledJobOptions object. The command uses the WakeToRun parameter and saves the resulting

object in the `\$options` variable.

To get the properties of \$Options as objects, the second command uses the PSObject property of all Windows PowerShell objects and its Properties property. The command

then pipes the property objects to the `Sort-Object` cmdlet, which sorts the properties in alphabetical order by name, and then to the `Format-Table` cmdlet, which

displays the names and values of the properties in a table.

This format makes it much easier to find the WakeToRun property of the ScheduledJobOptions object in `\$options` and to verify that its value was changed from `\$false`

to `\$true`.

Version:

 $https://learn.microsoft.com/powershell/module/psscheduledjob/new-scheduledjoboption?view=powershell-5.1\&WT.mc_id=powershell-$

s-gethelp

Add-JobTrigger

Disable-JobTrigger

Disable-ScheduledJob

Enable-JobTrigger

Enable-ScheduledJob

Get-JobTrigger

Get-ScheduledJob

Get-ScheduledJobOption

New-JobTrigger

New-ScheduledJobOption

Register-ScheduledJob

Remove-JobTrigger

Set-JobTrigger

Set-ScheduledJob

Set-ScheduledJobOption

Unregister-ScheduledJob