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

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

NAME

Set-ScheduledJobOption

SYNOPSIS

Changes the job options of a scheduled job.

SYNTAX

Set-ScheduledJobOption [-InputObject] <Microsoft.PowerShell.ScheduledJob.ScheduledJobOptions> [-ContinueIfGoingOnBattery] [-DoNotAllowDemandStart]

[-HideInTaskScheduler] [-IdleDuration <System.TimeSpan>] [-IdleTimeout <System.TimeSpan>] [-MultipleInstancePolicy {None | IgnoreNew | Parallel | Queue |

StopExisting}] [-PassThru] [-RequireNetwork] [-RestartOnIdleResume] [-RunElevated] [-StartIfIdle] [-StartIfOnBattery] [-StopIfGoingOffIdle] [-WakeToRun]

[<CommonParameters>]

DESCRIPTION

The `Set-ScheduledJobOptions` cmdlet changes the job options of scheduled jobs.

To change the options of a scheduled job, begin by using the `Get-ScheduledJobOption` cmdlet to get the job options of a scheduled job. Then, pipe the options to

`Set-ScheduledJobOption` or save the options in a variable and use the InputObject parameter of `Set-ScheduledJobOption` cmdlet to identify the options. Use the

remaining parameters of `Set-ScheduledJobOption` to change the job options.

To turn on a job option, use the parameter that sets that option. To turn off an option, type the parameter name, a colon (`:`), and `$false`. For example, to turn

off the RunElevated option, type `-RunElevated:$false`.

Each job options object includes a JobDefinition property that contains the scheduled job, so the association with the scheduled job is retained when the job options

are changed.

The scheduled job options determine how the job runs when it is started by Task Scheduler. These options to not apply when you use the `Start-Job` cmdlet to start a

scheduled job.

`Set-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

-ContinueIfGoingOnBattery <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.

The ContinueIfGoingOnBattery parameter sets the value of the StopIfGoingOnBatteries property of scheduled jobs to `$true`.

Required? false
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? false
Position? named
Default value False
Accept pipeline input? False
Accept 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 input? False

Accept wildcard characters? false

-IdleTimeout <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 input? False

Accept wildcard characters? false

-InputObject <Microsoft.PowerShell.ScheduledJob.ScheduledJobOptions>

Specifies the job options. Enter a variable that contains ScheduledJobOptions objects or type a command or expression that gets ScheduledJobOptions objects, such

as a `Get-ScheduledJobOption` command. You can also pipe a ScheduledJobOptions object to `Set-ScheduledJobOption`.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? 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 acceptable values for

this parameter are:

- `IgnoreNew` - The new job instance is ignored. This is the default value.

- `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 stop 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

-PassThru <System.Management.Automation.SwitchParameter>

Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.

Required? false

Position? named

Default value False

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? false

Position? named

Default value False

Accept 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? false

Position? named

Default value False

Accept pipeline input? False

Accept 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? false

Position? named

Default value False

Accept pipeline input? False

Accept 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 default value is `$false`.

The StartIfOnBattery parameter sets the value of the StartIfOnBatteries property of scheduled jobs to `$true`.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-StopIfGoingOffIdle <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.

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

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

Microsoft.PowerShell.ScheduledJob.ScheduledJobOptions

You can pipe a scheduled job options object to this cmdlet.

OUTPUTS

None

By default, this cmdlet returns no output.

Microsoft.PowerShell.ScheduledJob.ScheduledJobOptions

When you use the PassThru parameter, this cmdlet returns the job options that were changed.

NOTES

---------- Example 1: Change job options ----------

Get-ScheduledJobOption -Name "DeployPackage"

StartIfOnBatteries : False

StopIfGoingOnBatteries : True

WakeToRun : False

StartIfNotIdle : True

StopIfGoingOffIdle : False

RestartOnIdleResume : False

IdleDuration : 00:10:00

IdleTimeout : 01:00:00

ShowInTaskScheduler : True

RunElevated : False

RunWithoutNetwork : False

DoNotAllowDemandStart : False

MultipleInstancePolicy : IgnoreNew

JobDefinition :

Get-ScheduledJobOption -Name "DeployPackage" |

Set-ScheduledJobOption -WakeToRun -RequireNetwork:$false -Passthru

StartIfOnBatteries : False

StopIfGoingOnBatteries : True

WakeToRun : True

StartIfNotIdle : True

StopIfGoingOffIdle : False

RestartOnIdleResume : False

IdleDuration : 00:10:00

IdleTimeout : 01:00:00

ShowInTaskScheduler : True

RunElevated : False

RunWithoutNetwork : True

DoNotAllowDemandStart : False

MultipleInstancePolicy : IgnoreNewJobDefinition :

This example shows how to change the options of a scheduled job on the local computer.

The first command uses the `Get-ScheduledJobOption` cmdlet to get the job options of the DeployPackage scheduled job. The output shows that the WakeToRun and

RunElevated properties are set to `$false`.

The second command uses the `Set-ScheduledJobOpton` cmdlet to change the job options so the values of the WakeToRun and RunWithoutNetwork properties are $True. The

command uses the Passthru parameter to return the trigger after the change.

This command is not required; it is included only to show the effect of the option change.

--- Example 2: Change an option on all remote scheduled jobs ---

```
Invoke-Command -Computer "Server01" -ScriptBlock {
    Get-ScheduledJob |
        Get-ScheduledJobOption |
        Set-ScheduledJobOption -IdleTimeout 2:00:00
}
```

This command changes the value of the IdleTimeout from one hour (the default value) to two hours on all scheduled jobs on the Server01 computer.

The command uses the `Invoke-Command` cmdlet to run a command on the Server01 computer.

The remote command begins with a `Get-ScheduledJob` command that gets all scheduled jobs on the computer. The scheduled jobs are piped to the `Get-ScheduledJobOption`

cmdlet, which gets the job options of the scheduled jobs. Each job options object contains a JobDefinition property that contains the scheduled job, so the options

object remains associated with the scheduled job even when it is changed.

The job triggers are piped to the `Set-ScheduledJobOption` cmdlet, which changes the value of the IdleTimeout option to two hours (2:00:00).

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/psscheduledjob/set-scheduledjoboption?view=powershell-5.1&WT.mc_id=ps-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