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

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

NAME

New-ScheduledTaskSettingsSet

SYNOPSIS

Creates a new scheduled task settings object.

SYNTAX

New-ScheduledTaskSettingsSet [-AllowStartIfOnBatteries] [-AsJob] [-CimSession <CimSession[]>] [-Compatibility {At | V1 | Vista | Win7 | Win8}]

[-DeleteExpiredTaskAfter <TimeSpan>] [-Disable] [-DisallowDemandStart] [-DisallowHardTerminate] [-DisallowStartOnRemoteAppSession] [-DontStopIfGoingOnBatteries]

[-DontStopOnIdleEnd] [-ExecutionTimeLimit <TimeSpan>] [-Hidden] [-IdleDuration <TimeSpan>] [-IdleWaitTimeout <TimeSpan>] [-MaintenanceDeadline <TimeSpan>]

[-MaintenanceExclusive] [-MaintenancePeriod <TimeSpan>] [-MultipleInstances {Parallel | Queue | IgnoreNew}] [-NetworkId <String>] [-NetworkName <String>] [-Priority

<Int32>] [-RestartCount <Int32>] [-RestartInterval <TimeSpan>] [-RestartOnIdle] [-RunOnlyIfIdle] [-RunOnlyIfNetworkAvailable] [-StartWhenAvailable] [-ThrottleLimit

<Int32>] [-WakeToRun] [<CommonParameters>]

DESCRIPTION

The New-ScheduledTaskSettingsSet cmdlet creates an object that contains scheduled task settings. Each scheduled task has one set of task settings. Use this cmdlet to

configure options to manage the behavior of the task upon completion, to manage the behavior of the task if a problem occurs, or to manage the behavior of the task if

an instance of the task is already running.

You can use the scheduled task settings to register a new scheduled task or update an existing task registration.

PARAMETERS

-AllowStartIfOnBatteries [<SwitchParameter>]

Indicates that Task Scheduler starts if the computer is running on battery power.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-CimSession <CimSession[]>

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the output of a New-CimSession

(https://go.microsoft.com/fwlink/p/?LinkId=227967) or [Get-CimSession](https://go.microsoft.com/fwlink/p/?LinkId=227966)cmdlet. The default is the current session on the local computer.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Compatibility <CompatibilityEnum>

Indicates which version of Task Scheduler with which a task is compatible. The acceptable values for this parameter are:

- At

- V1

- Vista

- Win7

- Win8

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-DeleteExpiredTaskAfter <TimeSpan>

Specifies the amount of time that Task Scheduler waits before deleting the task after it expires.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Disable [<SwitchParameter>]

Indicates that the task is disabled.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DisallowDemandStart [<SwitchParameter>]

Indicates that the task cannot be started by using either the Run command or the Context menu.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DisallowHardTerminate [<SwitchParameter>]

Indicates that the task cannot be terminated by using TerminateProcess.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DisallowStartOnRemoteAppSession [<SwitchParameter>]

Indicates that the task does not start if the task is triggered to run in a Remote Applications Integrated Locally (RAIL) session.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DontStopIfGoingOnBatteries [<SwitchParameter>]

Indicates that the task does not stop if the computer switches to battery power.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DontStopOnIdleEnd [<SwitchParameter>]

Indicates that Task Scheduler does not terminate the task if the idle condition ends before the task is completed.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ExecutionTimeLimit <TimeSpan>

Specifies the amount of time that Task Scheduler is allowed to complete the task.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Hidden [<SwitchParameter>]

Indicates that the task is hidden in the Task Scheduler UI.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-IdleDuration <TimeSpan>

Specifies the amount of time that the computer must be in an idle state before Task Scheduler runs the task.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IdleWaitTimeout <TimeSpan>

Specifies the amount of time that Task Scheduler waits for an idle condition to occur.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-MaintenanceDeadline <TimeSpan>

Specifies the amount of time after which Task Scheduler attempts to run the task during emergency Automatic

maintenance, if the task failed to complete during

regular Automatic maintenance.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-MaintenanceExclusive [<SwitchParameter>]

Indicates that the task needs to run alone when it is started in maintenance mode.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-MaintenancePeriod <TimeSpan>

Specifies the amount of time that the task needs to run once during regular Automatic maintenance.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-MultipleInstances <MultipleInstancesEnum>

Specifies the policy that defines how Task Scheduler handles multiple instances of the task. The acceptable values for this parameter are:

IgnoreNew. The new task instance is ignored. Parallel. The new task instance starts immediately. Queue. The new task instance starts as soon as the current

instance completes.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NetworkId <String>

Specifies the ID of a network profile that Task Scheduler uses to determine if the task can run. You must specify the ID of a network if you specify the

RunOnlyIfNetworkAvailable parameter.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NetworkName <String>

Specifies the name of a network profile that Task Scheduler uses to determine if the task can run. The Task Scheduler UI uses this setting for display purposes.

Specify a network name if you specify the RunOnlyIfNetworkAvailable parameter.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Priority <Int32>

Specifies the priority level of the task. Priority must be an integer from 0 (highest priority) to 10 (lowest priority). The default value is 7.

Priority levels 7 and 8 are used for background tasks. Priority levels 4, 5, and 6 are used for interactive tasks.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-RestartCount <Int32>

Specifies the number of times that Task Scheduler attempts to restart the task.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-RestartInterval <TimeSpan>

Specifies the amount of time that Task Scheduler attempts to restart the task.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-RestartOnIdle [<SwitchParameter>]

Indicates that Task Scheduler restarts the task when the computer cycles into an idle condition more than once.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-RunOnlyIfIdle [<SwitchParameter>]

Indicates that Task Scheduler runs the task only when the computer is idle.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-RunOnlyIfNetworkAvailable [<SwitchParameter>]

Indicates that Task Scheduler runs the task only when a network is available. Task Scheduler uses the NetworkID parameter and NetworkName parameter that you

specify in this cmdlet to determine if the network is available.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-StartWhenAvailable [<SwitchParameter>]

Indicates that Task Scheduler can start the task at any time after its scheduled time has passed.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ThrottleLimit <Int32>

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of `0` is entered, then

Windows PowerShellr calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit

applies only to the current cmdlet, not to the session or to the computer.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-WakeToRun [<SwitchParameter>]

Indicates that Task Scheduler wakes the computer before it runs the task.

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

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#MSFT_TaskSettings

NOTES

Example 1: Register a scheduled task that uses default task settings

PS C:\>$Sta = New-ScheduledTaskAction -Execute "Cmd"

PS C:\>$STSet = New-ScheduledTaskSettingsSet

PS C:\>Register-ScheduledTask Task01 -Action $Sta -Settings $STSet

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

The second command creates scheduled task settings that use the default settings and assigns the ScheduledTaskSettings object to the $Stset variable.

The third command registers the scheduled task Task01 to run the task action named Cmd and to use the default task settings.

This example registers a scheduled task that uses default task settings.

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

------- Example 2: Set the priority of a scheduled task -------

PS C:\>$Sta = New-ScheduledTaskAction -Execute "Cmd"

PS C:\>$STSet = New-ScheduledTaskSettingsSet -Priority 5

PS C:\>Register-ScheduledTask Task01 -Action $Sta -Settings $Stset

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

The second command creates scheduled task settings that sets a higher priority for the scheduled task, and assigns the ScheduledTaskSettings object to the $Stset
variable.

The third command registers the scheduled task Task01 to run the task action named Cmd and to use the task settings that have a priority setting of 5.

This example sets the priority of a scheduled task.

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

----- Example 3: Set restart settings for a scheduled task -----

PS C:\>$Sta = New-ScheduledTaskAction -Execute "Cmd"

PS C:\>$Stset = New-ScheduledTaskSettingsSet -RestartCount 3 -RestartInterval (New-TimeSpan -Minutes 60)

PS C:\>Register-ScheduledTask Task01 -Action $Sta -Settings $Stset

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

The second command creates scheduled task settings that specify that Task Scheduler attempts three restarts of the task at sixty minute intervals. This command
assigns the ScheduledTaskSettings object to the $Stset variable.

The third command registers the scheduled task Task01 to run the task action named Cmd and to use the task settings that the ScheduledTaskSettings object defines.

This example sets restart settings for a scheduled task.

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

------ Example 4: Set idle settings for a scheduled task ------

PS C:\>$Sta = New-ScheduledTaskAction -Execute "Cmd"

PS C:\>$Stset = New-ScheduledTaskSettingsSet -RunOnlyIfIdle -IdleDuration 00:02:00 -IdleWaitTimeout 02:30:00

PS C:\>Register-ScheduledTask Task01 -Action $Sta -Settings $Stset

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

The second command creates scheduled task settings that specify that Task Scheduler runs the task only when the computer is idle for 2 minutes and waits for 2 hours

and 30 minutes for an idle condition. This command assigns the ScheduledTaskSettings object to the $Stset variable.

The third command registers the scheduled task Task01 to run the task action named Cmd and to use the task settings that the ScheduledTaskSettings object defines.

This example sets idle settings for a scheduled task.

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

Example 5: Register a scheduled task that runs only when a network is available

PS C:\>$Sta = New-ScheduledTaskAction -Execute "Cmd"

PS C:\>$Stset = New-ScheduledTaskSettingsSet -RunOnlyIfNetworkAvailable

PS C:\>Register-ScheduledTask Task01 -Action $Sta -Settings $Stset

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

The second command creates scheduled task settings that specify that Task Scheduler runs the task only when a network is available. This command assigns the
ScheduledTaskSettings object to the $Stset variable.

The third command registers the scheduled task Task01 to run the task action named Cmd only when a network is available.

This example registers a scheduled task that runs only when a network is available.

Example 6: Register a scheduled task that has a time limit to complete the task

PS C:\>$Sta = New-ScheduledTaskAction -Execute "Cmd"

$Stset = New-ScheduledTaskSettingsSet -ExecutionTimeLimit (New-TimeSpan -Hours 1)

PS C:\>Register-ScheduledTask Task01 -Action $Sta -Settings $Stset

The first command creates a scheduled task action named Cmd and assigns the ScheduledTaskAction object to the $Sta variable.

The second command creates scheduled task settings that specify if the task is not finished after one hour, it is considered as failed. This command assigns the
ScheduledTaskSettings object to the $Stset variable.

The third command registers the scheduled task Task01 to run the task action named Cmd, only then finish the task after one hour.

Without the ExecutionTimeLimit setting defined, the time limit set to it's default of three days for the Task Scheduler is allowed to complete the task. To configure

the time limit, see New-TimeSpan (/powershell/module/microsoft.powershell.utility/new-timespan).

RELATED LINKS

Online Version:

https://learn.microsoft.com/powershell/module/scheduledtasks/new-scheduledtasksettingsset?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Enable-ScheduledTask

Get-ScheduledTask

Get-ScheduledTaskInfo

New-ScheduledTask

Register-ScheduledTask

Start-ScheduledTask

Unregister-ScheduledTask