



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

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

NAME

New-ScheduledTask

SYNOPSIS

Creates a scheduled task instance.

SYNTAX

```
New-ScheduledTask [[-Action] < CimInstance[] >] [[-Trigger] < CimInstance[] >] [[-Settings] < CimInstance >] [[-Principal] < CimInstance >] [[-Description] < String >] [-AsJob] [-CimSession < CimSession[] >] [-ThrottleLimit < Int32 >] [< CommonParameters >]
```

DESCRIPTION

The New-ScheduledTask cmdlet creates an object that contains the definition of a scheduled task. New-ScheduledTask does not automatically register the object with the

Task Scheduler service.

You can register a task to run any of the following application or file types: Win32 applications, Win16 applications, OS/2 applications, MS-DOS applications, batch

files (.bat), command files (.cmd), or any properly registered file type.

PARAMETERS

-Action <CimInstance[]>

Specifies an array of work items for a task to run. When you specify multiple actions, they run sequentially. A task can have up to 32 actions.

Required?	false
Position?	0
Default value	None
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`

(/powershell/module/cimcmdlets/new-cimsession) 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

-Description <String>

Briefly describes the task.

Required? false

Position? 4

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Principal <CimInstance>

Specifies the security context in which a task runs.

Required? false

Position? 3

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Settings <CimInstance>

Specifies a configuration object that the Task Scheduler service uses to determine how to run a task.

Required? false

Position? 2

Default value None

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 PowerShell 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

-Trigger <CimInstance[]>

Specifies an array of one or more trigger objects that cause a scheduled task to start.

A trigger is a set of criteria that starts a scheduled task when the criteria are met. You can use a time-based trigger or an event-based trigger to start a task,

and one or more triggers can start a task. A task can have up to 48 triggers. For more information about triggers, see [Triggers](https://technet.microsoft.com/library/cc748841.aspx)

(<https://technet.microsoft.com/library/cc748841.aspx>).

Required?	false
Position?	1
Default value	None
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) (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#MSFT_ScheduledTask

NOTES

Example 1: Define a scheduled task and register it at a later time

```
PS C:\> $action = New-ScheduledTaskAction -Execute "Taskmgr.exe"
```

```
PS C:\> $trigger = New-ScheduledTaskTrigger -AtLogon
```

```
PS C:\> $principal = "Contoso\Administrator"
```

```
PS C:\> $settings = New-ScheduledTaskSettingsSet
```

```
PS C:\> $task = New-ScheduledTask -Action $action -Principal $principal -Trigger $trigger -Settings $settings
```

```
PS C:\> Register-ScheduledTask T1 -InputObject $task
```

In this example, the set of commands uses several cmdlets and variables to define and then register a scheduled task.

The first command uses the `New-ScheduledTaskAction` cmdlet to assign the executable file ``tskmgr.exe`` to the variable ``$action``.

The second command uses the `New-ScheduledTaskTrigger` cmdlet to assign the value ``AtLogon`` to the variable ``$trigger``.

The third command assigns the principal of the scheduled task ``Contoso\Administrator`` to the variable ``$principal``.

The fourth command uses the `New-ScheduledTaskSettingsSet` cmdlet to assign a task settings object to the variable ``$settings``.

The fifth command creates a new task and assigns the task definition to the variable ``$task``.

The sixth command (hypothetically) runs at a later time. It registers the new scheduled task and defines it by using the ``$task`` variable.

--- Example 2: Define a scheduled task with multiple actions ---

```
PS C:\> $actions = (New-ScheduledTaskAction -Execute 'foo.ps1'), (New-ScheduledTaskAction -Execute 'bar.ps1')
```

```
PS C:\> $trigger = New-ScheduledTaskTrigger -Daily -At '9:15 AM'
```

```
PS C:\> $principal = New-ScheduledTaskPrincipal -UserId 'DOMAIN\user' -RunLevel Highest
```

```
PS C:\> $settings = New-ScheduledTaskSettingsSet -RunOnlyIfNetworkAvailable -WakeToRun
```

```
PS C:\> $task = New-ScheduledTask -Action $actions -Principal $principal -Trigger $trigger -Settings $settings
```

```
PS C:\> Register-ScheduledTask 'baz' -InputObject $task
```

This example creates and registers a scheduled task that runs two PowerShell scripts daily at 09:15 AM.

RELATED LINKS

Online

Version:

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

Disable-ScheduledTask

Enable-ScheduledTask

Export-ScheduledTask

Get-ScheduledTask

New-ScheduledTaskAction

New-ScheduledTaskSettingsSet

New-ScheduledTaskPrincipal

New-ScheduledTaskTrigger

Register-ScheduledTask

Set-ScheduledTask

Start-ScheduledTask

Stop-ScheduledTask

Unregister-ScheduledTask

