



python



PowerShell

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PowerShell Get-Help on command 'Get-PnpDevice'

PS C:\Users\wahid> Get-Help Get-PnpDevice

NAME

Get-PnpDevice

SYNOPSIS

Returns information about PnP devices.

SYNTAX

```
Get-PnpDevice [[-InstanceId] <String[]>] [-AsJob] [-CimSession <CimSession[]>]
[-Class <String[]>] [-PresentOnly] [-Status {OK | ERROR | DEGRADED | UNKNOWN}]
[-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-PnpDevice [-AsJob] [-CimSession <CimSession[]>] [-Class <String[]>]
[-FriendlyName <String[]>] [-PresentOnly] [-Status {OK | ERROR | DEGRADED |
UNKNOWN}] [-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-PnpDevice [-AsJob] [-CimSession <CimSession[]>] [-Class <String[]>]
[-PresentOnly] [-Status {OK | ERROR | DEGRADED | UNKNOWN}] [-ThrottleLimit
<Int32>] [<CommonParameters>]
```

```
Get-PnpDevice [-AsJob] [-CimSession <CimSession[]>] [-Class <String[]>]
```

`[-PresentOnly] [-ThrottleLimit <Int32>] [<CommonParameters>]`

`Get-PnpDevice [-AsJob] [-CimSession <CimSession[]>] [-Status {OK | ERROR | DEGRADED | UNKNOWN}] [-ThrottleLimit <Int32>] [<CommonParameters>]`

DESCRIPTION

The `Get-PnpDevice` cmdlet returns basic information about Plug and Play (PnP) devices. The values returned are common to all devices.

PARAMETERS

`-AsJob [<SwitchParameter>]`

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

`-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.

`-Class <String[]>`

Specifies an array of PnP classes for devices. Some example values for this parameter are `Monitor`, `DiskDrive`, and `Processor`.

`-FriendlyName <String[]>`

Specifies an array of friendly names for devices.

`-InstanceId <String[]>`

Specifies an array of unique instance ID of devices.

-PresentOnly [<SwitchParameter>]

Indicates that this cmdlet gets only those devices that are present when you issue the command. Present devices are physically in the system or attached to it.

-Status <String[]>

Specifies an array of current status values of devices. The acceptable values for this parameter are:

- OK

- ERROR

- UNKNOWN

- DEGRADED

-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.

<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).

----- Example 1: Get all PnP devices -----

```
PS C:\>Get-PnpDevice
```

Status	Class	FriendlyName	InstanceId
-----	-----	-----	-----
OK	System	High precision event timer	ACPI\PNP0103...
OK	AudioEndpoint	Remote Audio	SWD\MMDEVAPI...
OK	System	System board	ACPI\PNP0C01\1
OK	System	System board	ACPI\PNP0C01\A
OK	System	Motherboard resources	ACPI\PNP0C02\4
Unknown	MEDIA	Microsoft Streaming Service Proxy	SW\{96E080C7...
OK	System	UMBus Enumerator	UMB\UMB\1&84...
OK	Printer	\\prn-corp3\stug-2633-clr	SWD\PRINTENU...
OK	PrintQueue	stug-2633-clr on prn-tsqa.contoso.com (redirected	
1)		SWD\PRINTENU...	

This command gets all devices known to PnP, whether they are present or not.

----- Example 2: Get PnP devices by name -----

```
PS C:\>Get-PnpDevice -FriendlyName 'Generic USB Hub'
```

Status	Class	FriendlyName	InstanceId
-----	-----	-----	-----
OK	USB	Generic USB Hub	

```

        USB\VID_0557...
OK     USB     Generic USB Hub
        USB\VID_0409...
OK     USB     Generic USB Hub
        USB\VID_8087...
OK     USB     Generic USB Hub
        USB\VID_8087...
OK     USB     Generic USB Hub
        USB\VID_0424...
OK     USB     Generic USB Hub
        USB\VID_0424...

```

This command gets all the devices named Generic USB Hub.

----- Example 3: Get PnP devices by ID -----

```

PS C:\>Get-PnpDevice -InstanceId
'USB\VID_8087&PID_0024\5&3541780&0&1'
Status  Class      FriendlyName
        InstanceId
-----  -
OK      USB        Generic USB Hub
        USB\VID_8087...

```

This command gets the device that has the specified instance ID.

---- Example 4: Get present PnP devices in specified states ----

```

PS C:\>Get-PnpDevice -PresentOnly -Status ERROR,DEGRADED,UNKNOWN
Status  Class      FriendlyName
        InstanceId
-----  -
Error   PCI       PCI Serial Port

```

```

                PCI\VEN_8086...
Error   Mouse      Microsoft PS/2 Mouse
                ACPI\PNP0F03...
Error   PCI Simple Communications Controller
                PCI\VEN_8086...
Error   SAS Controller
                PCI\VEN_8086...
Error   Keyboard    Standard PS/2 Keyboard
                ACPI\PNP0303...

```

This command gets all present devices that report a status of error, degraded, or unknown.

----- Example 5: Get PnP devices of a class -----

```
PS C:\>Get-PnpDevice -Class 'Mouse'
```

```

Status   Class      FriendlyName
                InstanceId
-----
-----
OK       Mouse      HID-compliant mouse
                HID\VID_0557...
Error   Mouse      Microsoft PS/2 Mouse
                ACPI\PNP0F03...
OK       Mouse      Remote Desktop Mouse Device
                TERMINPUT_BU...
OK       Mouse      HID-compliant mouse
                HID\VID_045E...

```

This command gets all the devices that belong to the specified PnP class.

REMARKS

To see the examples, type: "get-help Get-PnpDevice -examples".

For more information, type: "get-help Get-PnpDevice -detailed".

For technical information, type: "get-help Get-PnpDevice -full".

For online help, type: "get-help Get-PnpDevice -online"