

# Full credit is given to all the above companies including the Operating System that this PDF file was generated!

## Windows PowerShell Get-Help on Cmdlet 'Get-WinEvent'

PS:\>Get-HELP Get-WinEvent -Full

NAME

Get-WinEvent

## SYNOPSIS

Gets events from event logs and event tracing log files on local and remote computers.

## SYNTAX

Get-WinEvent [[-LogName] <System.String[]>] [-ComputerName <System.String>] [-Credential <System.Management.Automation.PSCredential>] [-FilterXPath <System.String>] [-Force] [-MaxEvents <System.Int64>] [-Oldest] [<CommonParameters>]

Get-WinEvent [-ListLog] <System.String[]> [-ComputerName <System.String>] [-Credential <System.Management.Automation.PSCredential>] [-Force] [<CommonParameters>]

Get-WinEvent [-ListProvider] <System.String[]> [-ComputerName <System.String>] [-Credential <System.Management.Automation.PSCredential>] [<CommonParameters>]

 Get-WinEvent
 [-ProviderName]
 <System.String[]>
 [-ComputerName
 <System.String>]
 [-Credential

 <System.Management.Automation.PSCredential>]
 [-FilterXPath
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<System.String>] [-Force] [-MaxEvents <System.Int64>] [-Oldest] [<CommonParameters>]

Get-WinEvent [-FilterHashtable] <System.Collections.Hashtable[]> [-ComputerName <System.String>] [-Credential <System.Management.Automation.PSCredential>] [-Force]

[-MaxEvents <System.Int64>] [-Oldest] [<CommonParameters>]

Get-WinEvent [-FilterXml] <System.Xml.XmlDocument> [-ComputerName <System.String>] [-Credential <System.Management.Automation.PSCredential>] [-MaxEvents <System.Int64>] [-Oldest] [<CommonParameters>]

Get-WinEvent [-Path] <System.String[]> [-Credential <System.Management.Automation.PSCredential>] [-FilterXPath <System.String>] [-MaxEvents <System.Int64>] [-Oldest]

[<CommonParameters>]

## DESCRIPTION

The `Get-WinEvent` cmdlet gets events from event logs, including classic logs, such as the System and Application logs. The cmdlet gets data from event logs that are

generated by the Windows Event Log technology introduced in Windows Vista and events in log files generated by Event Tracing for Windows (ETW). By default,

`Get-WinEvent` returns event information in the order of newest to oldest.

`Get-WinEvent` lists event logs and event log providers. To interrupt the command, press <kbd>CTRL</kbd>+<kbd>C</kbd>. You can get events from selected logs or from

logs generated by selected event providers. And, you can combine events from multiple sources in a single command. `Get-WinEvent` allows you to filter events using

XPath queries, structured XML queries, and hash table queries.

If you're not running PowerShell as an Administrator, you might see error messages that you cannot retrieve information about a log.

-ComputerName <System.String>

Specifies the name of the computer that this cmdlet gets events from the event logs. Type the NetBIOS name, an IP address, or the fully qualified domain name

(FQDN) of the computer. The default value is the local computer, localhost. This parameter accepts only one computer name at a time.

To get event logs from remote computers, configure the firewall port for the event log service to allow remote access.

This cmdlet does not rely on PowerShell remoting. You can use the ComputerName parameter even if your computer is not configured to run remote commands.

Required?falsePosition?namedDefault valueLocal computerAccept pipeline input?FalseAccept wildcard characters?false

#### -Credential <System.Management.Automation.PSCredential>

Specifies a user account that has permission to perform this action. The default value is the current user.

Type a user name, such as User01 or Domain01\User01. Or, enter a PSCredential object, such as one generated by the `Get-Credential` cmdlet. If you type a user

name, you are prompted for a password. If you type only the parameter name, you are prompted for both a username and a password.

Required? false

Position? named

Default value Current user

Accept pipeline input? False

Accept wildcard characters? false

-FilterHashtable <System.Collections.Hashtable[]>

Specifies a query in hash table format to select events from one or more event logs. The query contains a hash a label of the second se

with one or more key/value pairs.

Hash table queries have the following rules:

- Keys and values are case-insensitive.

- Wildcard characters are valid only in the values associated with the LogName and ProviderName keys. - Each key can be listed only once in each hash table.

- The Path value takes paths to `.etl`, `.evt`, and `.evtx` log files. - The LogName , Path , and ProviderName keys can be used in the same query. - The UserID

key can take a valid security identifier (SID) or a domain account name that can be used to construct a valid System.Security.Principal.NTAccount object . - The

Data value takes event data in an unnamed field. For example, events in classic event logs.

When `Get-WinEvent` cannot interpret a key/value pair, it interprets the key as a case-sensitive name for the event data in the event.

The valid `Get-WinEvent` key/value pairs are as follows:

- LogName =`<String[]>` - ProviderName =`<String[]>` - Path =`<String[]>` - Keywords =`<Long[]>` - ID =`<Int32[]>` - Level =`<Int32[]>` - StartTime =`<DateTime>`

- EndTime =`<DateTime>` - UserID =`<SID>` - Data =`<String[]>`

Required? true

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-FilterXml <System.Xml.XmlDocument>

Specifies a structured XML query that this cmdlet selects events from one or more event logs.

To generate a valid XML query, use the Create Custom View and Filter Current Log features in Windows Event Viewer. Use the items in the dialog box to create a

query, and then click the XML tab to view the query in XML format. You can copy the XML from the XML tab into the value of the FilterXml parameter. For more

information about the Event Viewer features, see Event Viewer Help.

Use an XML query to create a complex query that contains several XPath statements. The XML format also allows you to use a Suppress XML element that excludes

events from the query. For more information about the XML schema for event log queries, see Query Schema (/windows/win32/wes/queryschema-schema)and the XML Event

Queries section of Event Selection (/previous-versions/aa385231(v=vs.85)).

Required?truePosition?1Default valueNoneAccept pipeline input?False

Accept wildcard characters? false

#### -FilterXPath <System.String>

Specifies an XPath query that this cmdlet select events from one or more logs.

For more information about the XPath language, see XPath Reference (/previous-versions/dotnet/netframework-4.0/ms256115(v=vs.100))and the Selection Filters

section of Event Selection (/previous-versions/aa385231(v=vs.85)).

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

-Force <System.Management.Automation.SwitchParameter>

Gets debug and analytic logs, in addition to other event logs. The Force parameter is required to get Badebag2or

analytic log when the value of the name parameter

includes wildcard characters.

By default, the `Get-WinEvent` cmdlet excludes these logs unless you specify the full name of a debug or analytic log.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

### -ListLog <System.String[]>

Specifies the event logs. Enter the event log names in a comma-separated list. Wildcards are permitted. To get all the logs, use the asterisk (`\*`) wildcard.

Required?	true
Position?	1
Default value	None
Accept pipeline input	? False
Accept wildcard chara	acters? true

-ListProvider <System.String[]>

Specifies the event log providers that this cmdlet gets. An event log provider is a program or service that writes events to the event log.

Enter the provider names in a comma-separated list. Wildcards are permitted. To get the providers of all the event logs on the computer, use the asterisk (`\*`)

wildcard.

Required?	true
Position?	1
Default value	None
Accept pipeline input?	False

Accept wildcard characters? true

-LogName <System.String[]>

Specifies the event logs that this cmdlet get events from. Enter the event log names in a comma-separated list. Wildcards are permitted. You can also pipe log

names to the `Get-WinEvent` cmdlet.

> [!NOTE] > PowerShell does not limit the amount of logs you can request. However, the `Get-WinEvent` cmdlet > queries the Windows API which has a limit of 256.

This can make it difficult to filter through all > of your logs at one time. You can work around this by using a `foreach` loop to iterate through each > log like

this: `Get-WinEvent -ListLog \* | ForEach-Object{ Get-WinEvent -LogName \$\_.Logname }`

Required?	false	
Position?	1	
Default value	None	
Accept pipeline input	? True (ByPropertyName, ByValue)	
Accept wildcard characters? true		

#### -MaxEvents <System.Int64>

Specifies the maximum number of events that are returned. Enter an integer such as 100. The default is to return all the events in the logs or files.

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

#### -Oldest <System.Management.Automation.SwitchParameter>

Indicate that this cmdlet gets the events in oldest-first order. By default, events are returned in newest-first order.

This parameter is required to get events from `.etl` and `.evt` files and from debug and analytic logs. In Rage Tiles,

events are recorded in oldest-first order,

and the events can be returned only in oldest-first order.

Required?	false
Position?	named
Default value	False
Accept pipeline in	put? False
Accept wildcard c	haracters? false

#### -Path <System.String[]>

Specifies the path to the event log files that this cmdlet get events from. Enter the paths to the log files in a comma-separated list, or use wildcard characters

to create file path patterns.

`Get-WinEvent` supports files with the `.evt`, `.evtx`, and `.etl` file name extensions. You can include events from different files and file types in the same

command.

Required?truePosition?1Default valueNoneAccept pipeline input?True (ByPropertyName)

Accept wildcard characters? true

#### -ProviderName <System.String[]>

Specifies, as a string array, the event log providers from which this cmdlet gets events. Enter the provider names in a comma-separated list, or use wildcard

characters to create provider name patterns.

An event log provider is a program or service that writes events to the event log. It is not a PowerShell provider.

Required?	true	
Position?	1	Page 8/22

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? true

### <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

### System.String

You can pipe a LogName (string) to this cmdlet.

### System.Xml.XmlDocument

You can pipe a FilterXML query to this cmdlet.

#### System.Collections.Hashtable

You can pipe a FilterHashtable query to this cmdlet.

#### OUTPUTS

System.Diagnostics.Eventing.Reader.EventLogConfiguration

With the ListLog parameter, this cmdlet returns EventLogConfiguration objects.

## System.Diagnostics.Eventing.Reader.EventLogRecord

By default, this cmdlet returns EventLogRecord objects.

## System.Diagnostics.Eventing.Reader.ProviderMetadata

With the ListProvider parameter, this cmdlet returns ProviderMetadata objects.

`Get-WinEvent` is designed to replace the `Get-EventLog` cmdlet on computers running Windows Vista and later versions of Windows. `Get-EventLog` gets events only

in classic event logs. `Get-EventLog` is retained for backward compatibility.

The `Get-WinEvent` and `Get-EventLog` cmdlets are not supported in Windows Pre-installation Environment (Windows PE).

----- Example 1: Get all the logs from a local computer -----

Get-WinEvent -ListLog \*

LogMode MaximumSizeInBytes RecordCount LogName

----- ------

Circular	15532032	14500 Application
Circular	1052672	117 Azure Information Protection
Circular	1052672	3015 CxAudioSvcLog
Circular	20971520	ForwardedEvents
Circular	20971520	0 HardwareEvents

The `Get-WinEvent` cmdlet gets log information from the computer. The ListLog parameter uses the asterisk (`\*`) wildcard to display information about each log.

----- Example 2: Get the classic Setup log ------

Get-WinEvent -ListLog Setup | Format-List -Property \*

FileSize	: 69632
IsLogFull	: False
LastAccessTime	: 3/13/2019 09:41:46
LastWriteTime	: 3/13/2019 09:41:46
OldestRecordNumber	: 1
RecordCount	: 23

LogName	: Setup
LogType	: Operational
LogIsolation	: Application
IsEnabled	: True
IsClassicLog	: False
SecurityDescriptor	: O:BAG:SYD:
LogFilePath	: %SystemRoot%\System32\Winevt\Logs\Setup.evtx
MaximumSizeInBytes	: 1052672
LogMode	: Circular
OwningProviderName	: Microsoft-Windows-Eventlog
ProviderNames	: {Microsoft-Windows-WUSA, Microsoft-Windows-ActionQueue
ProviderLevel	:
ProviderLevel ProviderKeywords	: :
ProviderKeywords	: 64
ProviderKeywords ProviderBufferSize	: 64 berOfBuffers : 0
ProviderKeywords ProviderBufferSize ProviderMinimumNum	: 64 berOfBuffers : 0

The `Get-WinEvent` cmdlet uses the ListLog parameter to specify the Setup log. The object is sent down the pipeline to the `Format-List` cmdlet. `Format-List` uses

the Property parameter with the asterisk (`\*`) wildcard to display each property.

----- Example 3: Configure the classic Security log ------

\$log = Get-WinEvent -ListLog Security

```
$log.MaximumSizeInBytes = 1gb
```

```
try{
```

\$log.SaveChanges()

Get-WinEvent -ListLog Security | Format-List -Property \*

}catch [System.UnauthorizedAccessException]{

\$ErrMsg = 'You do not have permission to configure this log!'

\$ErrMsg += ' Try running this script with administrator privileges. '

\$ErrMsg += \$\_.Exception.Message

## }

FileSize	: 69632
IsLogFull	: False
LastAccessTime	: 3/13/2019 09:41:46
LastWriteTime	: 3/13/2019 09:41:46
OldestRecordNumber	r :1
RecordCount	: 23
LogName	: Security
LogType	: Administrative
LogIsolation	: Custom
IsEnabled	: True
IsClassicLog	: True
SecurityDescriptor	: O:BAG:SYD:
LogFilePath	: %SystemRoot%\System32\Winevt\Logs\Security.evtx
MaximumSizeInBytes	: 1073741824
LogMode	: Circular
OwningProviderName	e :
ProviderNames	: {Microsoft-Windows-WUSA, Microsoft-Windows-ActionQueue
ProviderLevel	:
ProviderKeywords	:
ProviderBufferSize	: 64
ProviderMinimumNun	nberOfBuffers : 0
ProviderMaximumNu	mberOfBuffers : 64
ProviderLatency	: 1000
ProviderControlGuid	:

The `Get-WinEvent` cmdlet uses the ListLog parameter to specify the Security log. The object is saved to a variable. The MaximumSizeInBytes property is set to 1

gigabyte on the object. The SaveChanges method is called to push the change to the system inside of a try block to handle access violations. The `Get-WinEvent` cmdlet

is called again on the Security log and piped to the `Format-List` cmdlet to verify that the MaximumSizeInByteg player to

has been saved on the machine.

----- Example 4: Get event logs from a server ------

Get-WinEvent -ListLog \* -ComputerName localhost | Where-Object { \$\_.RecordCount }

LogMode MaximumSizeInBytes RecordCount LogName

----- ------

Circular	15532032	14546 Application
Circular	1052672	117 Azure Information Protection
Circular	1052672	2990 CxAudioSvcLog
Circular	1052672	9 MSFTVPN Setup
Circular	1052672	282 OAlerts

The `Get-WinEvent` cmdlet gets log information from the computer. The ListLog parameter uses the asterisk (``) wildcard to display information about each log. The

ComputerName \* parameter specifies to get the logs from the local computer, localhost . The objects are sent down the pipeline to the `Where-Object` cmdlet.

`Where-Object` uses `\$\_.RecordCount` to return only logs that contain data. `\$\_` is a variable that represents the current object in the pipeline. RecordCount is a

property of the object with a non-null value.

------ Example 5: Get event logs from multiple servers ------

\$S = 'Server01', 'Server02', 'Server03'

ForEach (\$Server in \$S) {

Get-WinEvent -ListLog Application -ComputerName \$Server |

Select-Object LogMode, MaximumSizeInBytes, RecordCount, LogName,

@{name='ComputerName'; expression={\$Server}} |

Format-Table -AutoSize

}

LogMode MaximumSizeInBytes RecordCount LogName ComputerName

-----

Circular	15532032	9689 Application Server02
Circular	15532032	5309 Application Server03

The variable `\$S` stores the names three servers: Server01, Server02, and Server03. The ForEach statement uses a loop to process each server, `(\$Server in \$S)`.

The script block in the curly braces (`{ }`) runs the `Get-WinEvent` command. The ListLog parameter specifies the Application log. The ComputerName parameter uses the

variable `\$Server` to get log information from each server.

The objects are sent down the pipeline to the `Select-Object` cmdlet. `Select-Object` gets the properties LogMode , MaximumSizeInBytes , RecordCount , LogName , and

uses a calculated expression to display the ComputerName using the `\$Server` variable. The objects are sent down the pipeline to the `Format-Table` cmdlet to display

the output in the PowerShell console. The AutoSize parameter formats the output to fit the screen.

----- Example 6: Get event log providers and log names ------

Get-WinEvent -ListProvider \*

Name : .NET Runtime

LogLinks : {Application}

Opcodes : {}

Tasks : {}

Name : .NET Runtime Optimization Service LogLinks : {Application} Opcodes : {} Tasks : {}

The `Get-WinEvent` cmdlet gets log information from the computer. The ListProvider parameter uses the asterisk (`\*`) wildcard to display information about each

provider. In the output, the Name is the provider and LogLinks is the log that the provider writes to.

Example 7: Get all event log providers that write to a specific log

.NET Runtime .NET Runtime Optimization Service Application Application Error Application Hang Application Management

The `Get-WinEvent` cmdlet gets log information from the computer. The ListLog parameter uses Application to get

objects for that log. ProviderNames is a property of

the object and displays the providers that write to the Application log.

Example 8: Get event log provider names that contain a specific string

Get-WinEvent -ListProvider \*Policy\*

Name : Group Policy Applications

LogLinks : {Application}

Opcodes : {}

Tasks : {}

Name : Group Policy Client

LogLinks : {Application}

Opcodes : {}

Tasks : {}

Name : Group Policy Data Sources

LogLinks : {Application}

Opcodes : {}

Tasks : {}

The `Get-WinEvent` cmdlet gets log information from the computer. The ListProvider parameter uses the asterisk (``)

provider's name.

-- Example 9: Get Event Ids that the event provider generates --

(Get-WinEvent -ListProvider Microsoft-Windows-GroupPolicy). Events | Format-Table Id, Description

#### Id Description

-- -----

- 1500 The Group Policy settings for the computer were processed successfully...
- 1501 The Group Policy settings for the user were processed successfully...
- 4115 Group Policy Service started.
- 4116 Started the Group Policy service initialization phase.
- 4117 Group Policy Session started.

The `Get-WinEvent` cmdlet gets log information from the computer. The ListProvider parameter specifies the provider,

Microsoft-Windows-GroupPolicy . The expression is

wrapped in parentheses and uses the Events property to get objects. The objects are sent down the pipeline to the

`Format-Table` cmdlet. `Format-Table` displays the

Id and Description of the event objects.

- Example 10: Get log information from event object properties -

\$Event = Get-WinEvent -LogName 'Windows PowerShell'

\$Event.Count

\$Event | Group-Object - Property Id - NoElement | Sort-Object - Property Count - Descending

\$Event | Group-Object - Property LevelDisplayName - NoElement

#### 195

#### Count Name

-----

- 147 600
- 22 400

21 601

3 403

#### Count Name

----- -----

2 Warning

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The `Get-WinEvent` cmdlet uses the LogName parameter to specify the Windows PowerShell event log. The event objects are stored in the `\$Event` variable. The Count

property of `\$Event`shows the total number of logged events.

The `\$Event` variable is sent down the pipeline to the `Group-Object` cmdlet. `Group-Object` uses the Property parameter to specify the ld property and counts the

objects by the event ld value. The NoElement parameter removes other properties from the objects output. The grouped objects are sent down the pipeline to the

`Sort-Object` cmdlet. `Sort-Object` uses the Property parameter to sort the objects by Count . The Descending parameter displays the output by count, from highest to

lowest. In the output, the Count column contains the total number of each event. The Name column contains the grouped event ld numbers.

The `\$Event` variable is sent down the pipeline to the `Group-Object` cmdlet. `Group-Object` uses the Property parameter to specify the LevelDisplayName property and

counts the objects by LevelDisplayName . The objects are grouped by the levels such as Warning and Information . The

NoElement parameter removes other properties from

the output. In the output, the Count column contains the total number of each event. The Name column contains the grouped LevelDisplayName.

Example 11: Get error events that have a specified string in their name

Get-WinEvent -LogName \*PowerShell\*, Microsoft-Windows-Kernel-WHEA\* |

Group-Object -Property LevelDisplayName, LogName -NoElement |

Format-Table -AutoSize

1 Error, PowerShellCore/Operational

26 Information, Microsoft-Windows-Kernel-WHEA/Operational

488 Information, Microsoft-Windows-PowerShell/Operational

77 Information, PowerShellCore/Operational

9835 Information, Windows PowerShell

19 Verbose, PowerShellCore/Operational

444 Warning, Microsoft-Windows-PowerShell/Operational

512 Warning, PowerShellCore/Operational

The `Get-WinEvent` cmdlet gets log information from the computer. The LogName parameter uses a comma-separated string with the asterisk (`\*`) wildcard to specify the

log names. The objects are sent down the pipeline to the `Group-Object` cmdlet. `Group-Object` uses the Property parameter to group the objects by LevelDisplayName

and LogName . The NoElement parameter removes other properties from the output. The grouped objects are sent down the pipeline to the `Format-Table` cmdlet.

`Format-Table` uses the AutoSize parameter to format the columns. The Count column contains the total number of each event. The Name column contains the grouped

LevelDisplayName and LogName .

----- Example 12: Get events from an archived event log ------

Get-WinEvent -Path 'C:\Test\Windows PowerShell.evtx'

ProviderName: PowerShell

#### TimeCreated Id LevelDisplayName Message ------- ----- -----3/15/2019 13:54:13 403 Information Engine state is changed from Available to Stopped... 3/15/2019 13:54:13 400 Information Engine state is changed from None to Available... 3/15/2019 13:54:13 600 Information Provider "Variable" is Started... 3/15/2019 13:54:13 600 Information Provider "Function" is Started... 3/15/2019 13:54:13 600 Information Provider "FileSystem" is Started...

The `Get-WinEvent` cmdlet gets log information from the computer. The Path parameter specifies the directory and file name.

Example 13: Get a specific number of events from an archived event log

Get-WinEvent -Path 'C:\Test\PowerShellCore Operational.evtx' -MaxEvents 100

#### ProviderName: PowerShellCore

TimeCreated	Id LevelDisplayName Message	
3/15/2019 09:54:54	4104 Warning	Creating Scriptblock text (1 of 1):
3/15/2019 09:37:13	40962 Information	PowerShell console is ready for user input
3/15/2019 07:56:24	4104 Warning	Creating Scriptblock text (1 of 1):
3/7/2019 10:53:22	40961 Information	PowerShell console is starting up
3/7/2019 10:53:22	8197 Verbose	Runspace state changed to Opening
3/7/2019 10:53:22	8195 Verbose	Opening RunspacePool

The `Get-WinEvent` cmdlet gets log information from the computer. The Path parameter specifies the directory and filename. The MaxEvents parameter specifies that 100

records are displayed, from newest to oldest.

----- Example 14: Event Tracing for Windows ------

Get-WinEvent -Path 'C:\Tracing\TraceLog.etl' -Oldest | Sort-Object -Property TimeCreated -Descending | Select-Object -First 100

The `Get-WinEvent` cmdlet gets log information from the archived file. The Path parameter specifies the directory and file name. The Oldest parameter is used to

output events in the order they are written, oldest to newest. The objects are sent down the pipeline to the `Sort-Object` cmdlet `Sort-Object` sorts the objects in

descending order by the value of the TimeCreated property. The objects are sent down the pipeline to the `Select-Object` cmdlet that displays the 100 newest events. Page 19/22 ----- Example 15: Get events from an event trace log ------

Get-WinEvent -Path 'C:\Tracing\TraceLog.etl', 'C:\Test\Windows PowerShell.evtx' -Oldest |

Where-Object { \$\_.Id -eq '403' }

The `Get-WinEvent` cmdlet gets log information from the archived files. The Path parameter uses a comma-separated list to specify each files directory and file name.

The Oldest parameter is used to output events in the order they are written, oldest to newest. The objects are sent down the pipeline to the `Where-Object` cmdlet.

`Where-Object` uses a script block to find events with an Id of 403. The `\$\_` variable represents the current object in the pipeline and Id is the Event Id property.

------ Example 16: Filter event log results ------

# Using the Where-Object cmdlet:

```
$Yesterday = (Get-Date) - (New-TimeSpan -Day 1)
```

Get-WinEvent -LogName 'Windows PowerShell' | Where-Object { \$\_.TimeCreated -ge \$Yesterday }

# Using the FilterHashtable parameter:

```
$Yesterday = (Get-Date) - (New-TimeSpan -Day 1)
```

Get-WinEvent -FilterHashtable @{ LogName='Windows PowerShell'; Level=3; StartTime=\$Yesterday }

# Using the FilterXML parameter:

\$xmlQuery = @'

<QueryList>

<Query Id="0" Path="Windows PowerShell">

```
<Select Path="System">*[System[(Level=3) and
```

TimeCreated[timediff(@SystemTime) <= 86400000]]]</Select>

</Query>

</QueryList>

'@

Get-WinEvent -FilterXML \$xmlQuery

Example 17: Use FilterHashtable to get events from the Application log

\$Date = (Get-Date).AddDays(-2)

Get-WinEvent -FilterHashtable @{ LogName='Application'; StartTime=\$Date; Id='1003' }

The `Get-Date` cmdlet uses the AddDays method to get a date that is two days before the current date. The date object is stored in the `\$Date` variable.

The `Get-WinEvent` cmdlet gets log information. The FilterHashtable parameter is used to filter the output. The LogName key specifies the value as the Application

log. The StartTime key uses the value stored in the `\$Date` variable. The Id key uses an Event Id value, 1003 .

-- Example 18: Use FilterHashtable to get application errors --

```
$StartTime = (Get-Date).AddDays(-7)
Get-WinEvent -FilterHashtable @{
Logname='Application'
ProviderName='Application Error'
Data='iexplore.exe'
StartTime=$StartTime
```

```
}
```

The `Get-Date` cmdlet uses the AddDays method to get a date that is seven days before the current date. The date object is stored in the `\$StartTime` variable.

The `Get-WinEvent` cmdlet gets log information. The FilterHashtable parameter is used to filter the output. The LogName key specifies the value as the Application

log. The ProviderName key uses the value, Application Error, which is the event's Source. The Data key uses the value iexplore.exe The StartTime key uses the value

stored in `\$StartTime` variable.

Online

Version:

https://learn.microsoft.com/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell.diagnostics/get-winevent?view=powershell-5.1&WT.mccom/powershell/module/microsoft.powershell/m

\_id=ps-gethelp

about\_Automatic\_Variables

about\_Foreach

about\_Hash\_Tables

Creating Get-WinEvent queries with FilterHashtable

Format-Table

Group-Object

Sort-Object

Where-Object