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PowerShell Get-Help on command 'New-PSWorkflowExecutionOption'

PS C:\Users\wahid> Get-Help New-PSWorkflowExecutionOption

NAME

New-PSWorkflowExecutionOption

SYNOPSIS

Creates an object that contains session configuration options for workflow sessions.

SYNTAX

New-PSWorkflowExecutionOption [-ActivityProcessIdleTimeoutSec <System.Int32>] [-AllowedActivity <System.String[]>] [-EnableValidation] [-MaxActivityProcesses <System.Int32>] [-MaxConnectedSessions <System.Int32>] [-MaxDisconnectedSessions <System.Int32>] [-MaxPersistenceStoreSizeGB <System.Int64>] [-MaxRunningWorkflows <System.Int32>] [-MaxSessionsPerRemoteNode <System.Int32>] [-MaxSessionsPerWorkflow <System.Int32>] [-OutOfProcessActivity <System.String[]>] [-PersistencePath <System.String>] [-PersistWithEncryption] [-RemoteNodeSessionIdleTimeoutSec <System.Int32>] [-SessionThrottleLimit <System.Int32>] [-WorkflowShutdownTimeoutMSec <System.Int32>] [<CommonParameters>]

DESCRIPTION

The `New-PSWorkflowExecutionOption` cmdlet creates an object that contains advanced options for workflow session configurations, that is session configurations designed to run Windows PowerShell Workflow workflows.

You can use the PSWorkflowExecutionOption object that `New-PSWorkflowExecutionOption` generates as the value of the SessionTypeOption parameter of cmdlets that create or change a session configuration, such as the `Register-PSSessionConfiguration` and `Set-PSSessionConfiguration` cmdlets.

Each parameter of the `New-PSWorkflowExecutionOption` cmdlet represents a property of the workflow session configuration option object that the cmdlet returns. If you omit a parameter, the cmdlet creates the object with a default value for the property.

The `New-PSWorkflowExecutionOption` cmdlet is part of the Windows PowerShell Workflow feature.

You can also add workflow common parameters to this command. For more information about workflow common parameters, see about_WorkflowCommonParameters (About/about_WorkflowCommonParameters.md).

This cmdlet is introduced in Windows PowerShell 3.0.

PARAMETERS

-ActivityProcessIdleTimeoutSec <System.Int32>

Determines how long each activity host process is maintained after the process becomes idle. When the interval expires, the process closes.

Enter a value in seconds. The default value is 60.

-AllowedActivity <System.String[]>

Specifies the activities that are permitted to run in the session.

Enter namespace-qualified activity names, such as `Microsoft.Powershell.HyperV.Activities.*`. Wildcard characters are supported. The default value, PSDefaultActivities , includes the built-in Windows Workflow Foundation activities and the activities that represent the core Windows PowerShell cmdlets.

-EnableValidation <System.Management.Automation.SwitchParameter>

Verifies that all workflow activities in the session are included in the allowed activities list.

The default value is True. To disable validation, use the following command format: `-EnableValidation:$false`.

-MaxActivityProcesses <System.Int32>

Specifies the maximum number of processes that can be created in the session to support workflow activities. The default value is 5.

-MaxConnectedSessions <System.Int32>

Specifies the maximum number of remote sessions that are in an operational state. This quota is applied to sessions connected to all remote nodes (target computers). The default value is 100.

-MaxDisconnectedSessions <System.Int32>

Specifies the maximum number of remote sessions that are in a disconnected state. This quota is applied to sessions connected to all remote nodes (target computers). The default value is 1000.

-MaxPersistenceStoreSizeGB <System.Int64>

Specifies the maximum size, in gigabytes, of the persistence store allocated to workflows that run in the session. When the size is exceeded,

the persistence store is expanded to save all persisted data, but a warning is displayed and a message is written to the workflow event log. The default value is 10.

The persistence store contains data for all workflow jobs. The ability to store data allows the jobs to resume without losing state.

-MaxRunningWorkflows <System.Int32>
Specifies that maximum number of workflows that can run in the session concurrently. The default value is 30.

-MaxSessionsPerRemoteNode <System.Int32>
Specifies the maximum number of sessions that can be connected to each remote node (target computer). The default value is 5.

-MaxSessionsPerWorkflow <System.Int32>
Specifies the maximum number of session that can be created to support each workflow. The default value is 5.

-OutOfProcessActivity <System.String[]>
Determines which allowed activities (specified by the AllowedActivities parameter) run out-of-process. The default value is InlineScript .

-PersistencePath <System.String>
Specifies the location on disk where workflow state and data are stored. Storing the workflow state and data allows workflows to be suspended and resumed, and to recover from interruptions and network failures.

The default value is `$env:LocalAppData\Microsoft\Windows\PowerShell\WF\PS`.

-PersistWithEncryption <System.Management.Automation.SwitchParameter>
Indicates that the workflow encrypts the data in the persistence store.

Consider using this feature when storing persistence data in a network share.

-RemoteNodeSessionIdleTimeoutSec <System.Int32>
Specifies how long a session that is connected to a remote node (target computer) is maintained if it is idle.

Enter a value in seconds. The default value is 60.

-SessionThrottleLimit <System.Int32>
Specifies how many operations are created to support all workflows started in the session. The default value is 100.

-WorkflowShutdownTimeoutMSec <System.Int32>
Specifies how long the session is maintained after all workflows in the session are forcibly suspended. When the timeout expires, Windows PowerShell closes the session, even if all workflows are not yet suspended.

Enter a value in milliseconds. The default value is 500.

<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).

--------- Example 1: Create a Workflow Options Object ---------

New-PSWorkflowExecutionOption -MaxSessionsPerWorkflow 10
-MaxDisconnectedSessions 200

SessionThrottleLimit : 100
PersistencePath :

C:\Users\User01\AppData\Local\Microsoft\Windows\PowerShell\WF\PS

MaxPersistenceStoreSizeGB : 10

PersistWithEncryption : False

MaxRunningWorkflows : 30

AllowedActivity : {PSDefaultActivities}

OutOfProcessActivity : {InlineScript}

EnableValidation : True

MaxDisconnectedSessions : 200

MaxConnectedSessions : 100

MaxSessionsPerWorkflow : 10

MaxSessionsPerRemoteNode : 5

MaxActivityProcesses : 5

ActivityProcessIdleTimeoutSec : 60

RemoteNodeSessionIdleTimeoutSec : 60

WorkflowShutdownTimeoutMSec : 500

This command uses the `New-PSWorkflowExecutionOption` cmdlet to increase the MaxSessionsPerWorkflow value to 10 and decrease the MaxDisconnectedSessions value to 200.

The output shows the object that the cmdlet returns.

---------- Example 2: Using a Workflow Options Object ----------

```
# Create a Workflow Options object and save it in a variable
$wo = New-PSWorkflowExecutionOption -MaxSessionsPerWorkflow 10
-MaxDisconnectedSessions 200
# Create the ITWorkflow session configuration
Register-PSSessionConfiguration -Name ITWorkflows -SessionTypeOption $wo -Force
```

WSManConfig: Microsoft.WSMan.Management\WSMan::localhost\Plugin

Type Keys Name

---- ---- ----

```
Container       {Name=ITWorkflows}              ITWorkflows

Get-PSSessionConfiguration ITWorkflows | Format-List -Property *

Architecture                : 64
Filename                    : %windir%\system32\pwrshplugin.dll
ResourceUri                 :
http://schemas.microsoft.com/powershell/ITWorkflows
MaxConcurrentCommandsPerShell : 1000
allowedactivity             : PSDefaultActivities
UseSharedProcess            : false
ProcessIdleTimeoutSec       : 0
xmlns                       :
http://schemas.microsoft.com/wbem/wsman/1/config/PluginConfiguration
MaxConcurrentUsers          : 5
maxsessionsperworkflow      : 10
lang                        : en-US
sessionconfigurationdata    : <SessionConfigurationData>
                            <Param Name='PrivateData'>
                              <PrivateData>
                                <ParamName='enablevalidation'
Value='True'/>
                                <Param
Name='allowedactivity'Value='PSDefaultActivities' />
                                <Param Name='outofprocessactivity'
Value='InlineScript'/>
                                <Param
Name='maxdisconnectedsessions' Value='200' />

<ParamName='maxsessionsperworkflow' Value='10'/>
                              </PrivateData>
                            </Param>
                          </SessionConfigurationData>
```

```
SupportsOptions             : true
ExactMatch                  : true
RunAsUser                   :
IdleTimeoutms               : 7200000
PSVersion                   : 3.0
OutputBufferingMode         : Block
AutoRestart                 : false
MaxShells                   : 25
MaxMemoryPerShellMB         : 1024
MaxIdleTimeoutms            : 43200000
outofprocessactivity        : InlineScript
SDKVersion                  : 2
Name                        : ITWorkflows
XmlRenderingType            : text
Capability                  : {Shell}
RunAsPassword               :
MaxProcessesPerShell        : 15
enablevalidation            : True
Enabled                     : True
maxdisconnectedsessions     : 200
MaxShellsPerUser            : 25
Permission                  :
```

The first two commands create a new session configuration object and registers it.

The third command uses the `Get-PSSessionConfiguration` cmdlet to the get the ITWorkflows session configuration and the `Format-List` to display all properties of the session configuration in a list.The output shows that the workflow options in the session configuration. Specifically, the session configuration has a MaxSessionsPerWorkflow property with a value of 10 and a MaxDisconnectedSessions property with a value of 200.

REMARKS

To see the examples, type: "get-help New-PSWorkflowExecutionOption -examples".

For more information, type: "get-help New-PSWorkflowExecutionOption -detailed".

For technical information, type: "get-help New-PSWorkflowExecutionOption

-full".

For online help, type: "get-help New-PSWorkflowExecutionOption -online"