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Windows PowerShell Get-Help on Cmdlet 'Receive-PSSession'

PS:\>Get-HELP Receive-PSSession

NAME

Receive-PSSession

SYNOPSIS

Gets results of commands in disconnected sessions

SYNTAX

Receive-PSSession [-ConnectionUri] <System.Uri> [-AllowRedirection] [-Authentication {Default | Basic | Negotiate | NegotiateWithImplicitCredential | Credssp | Digest

| Kerberos}] [-CertificateThumbprint <System.String>] [-ConfigurationName <System.String>] [-Credential <System.Management.Automation.PSCredential>] [-JobName

<System.String>] -Name <System.String> [-OutTarget {Default | Host | Job}] [-SessionOption
<System.Management.Automation.Remoting.PSSessionOption>] [-Confirm]

[-WhatIf] [<CommonParameters>]

Receive-PSSession [-ConnectionUri] <System.Uri> [-AllowRedirection] [-Authentication {Default | Basic | Negotiate | NegotiateWithImplicitCredential | Credssp | Digest

| Kerberos}] [-CertificateThumbprint <System.String>] [-ConfigurationName <System.String>] [-Credential

<System.Guid> [-JobName <System.String>] [-OutTarget {Default | Host | Job}] [-SessionOption <System.Management.Automation.Remoting.PSSessionOption>] [-Confirm] [-WhatIf] [<CommonParameters>] Receive-PSSession [-ComputerName] <System.String> [-ApplicationName <System.String>] [-Authentication {Default | Basic | Negotiate | NegotiateWithImplicitCredential | Credssp | Digest | Kerberos}] [-CertificateThumbprint <System.String>] [-ConfigurationName <System.String>] [-Credential <System.Management.Automation.PSCredential>] -InstanceId <System.Guid> [-JobName <System.String>] [-OutTarget {Default | Host | Job}] [-Port <System.Int32>] [-SessionOption <System.Management.Automation.Remoting.PSSessionOption>] [-UseSSL] [-Confirm] [-WhatIf] [<CommonParameters>] Receive-PSSession [-ComputerName] <System.String> [-ApplicationName <System.String>] [-Authentication {Default | Basic | Negotiate | NegotiateWithImplicitCredential | Credssp | Digest | Kerberos}] [-CertificateThumbprint <System.String>] [-ConfigurationName <System.String>] [-Credential <System.Management.Automation.PSCredential>] [-JobName <System.String>] -Name <System.String> [-OutTarget {Default | Host | Job}] [-Port <System.Int32>] [-SessionOption <System.Management.Automation.Remoting.PSSessionOption>] [-UseSSL] [-Confirm] [-WhatIf] [<CommonParameters>] Receive-PSSession [-Id] <System.Int32> [-JobName <System.String>] [-OutTarget {Default | Host | Job}] [-Confirm] [-WhatIf] [<CommonParameters>] Receive-PSSession -InstanceId <System.Guid> [-JobName <System.String>] [-OutTarget {Default | Host | Job}]

[-Confirm] [-WhatIf] [<CommonParameters>]

Receive-PSSession [-JobName <System.String> [-OutTarget {Default | Host | Job}] [-Confirm] [-WhatIf] [<CommonParameters>]

Receive-PSSession [-Session] <System.Management.Automation.Runspaces.PSSession> [-JobName <System.String>] [-OutTarget {Default | Host | Job}] [-Confirm] [-WhatIf]

[<CommonParameters>]

DESCRIPTION

The `Receive-PSSession` cmdlet gets the results of commands running in PowerShell sessions (PSSession) that were disconnected. If the session is currently

connected, `Receive-PSSession` gets the results of commands that were running when the session was disconnected. If the session is still disconnected,

`Receive-PSSession` connects to the session, resumes any commands that were suspended, and gets the results of commands running in the session.

This cmdlet was introduced in PowerShell 3.0.

You can use a `Receive-PSSession` in addition to or instead of a `Connect-PSSession` command. `Receive-PSSession` can connect to any disconnected or reconnected

session that was started in other sessions or on other computers.

`Receive-PSSession` works on PSSessions that were disconnected intentionally using the `Disconnect-PSSession` cmdlet or the `Invoke-Command` InDisconnectedSession

parameter. Or disconnected unintentionally by a network interruption.

If you use the `Receive-PSSession` cmdlet to connect to a session in which no commands are running or suspended, `Receive-PSSession` connects to the session, but returns no output or errors.

For more information about the Disconnected Sessions feature, see about_Remote_Disconnected_Sessions (./About/about_Remote_Disconnected_Sessions.md).

Some examples use splatting to reduce the line length and improve readability. For more information, see about_Splatting (./About/about_Splatting.md).

PARAMETERS

-AllowRedirection <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet allows redirection of this connection to an alternate Uniform Resource Identifier (URAGE 3/25

When you use the ConnectionURI parameter, the remote destination can return an instruction to redirect to a different

URI. By default, PowerShell doesn't redirect

connections, but you can use this parameter to enable it to redirect the connection.

You can also limit the number of times the connection is redirected by changing the

MaximumConnectionRedirectionCount session option value. Use the

MaximumRedirection parameter of the 'New-PSSessionOption' cmdlet or set the

MaximumConnectionRedirectionCount property of the `\$PSSessionOption` preference

variable. The default value is 5.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ApplicationName <System.String>

Specifies an application. This cmdlet connects only to sessions that use the specified application.

Enter the application name segment of the connection URI. For example, in the following connection URI, WSMan is

the application name:

http://localhost:5985/WSMAN.

The application name of a session is stored in the Runspace.ConnectionInfo.AppName property of the session.

The parameter's value is used to select and filter sessions. It doesn't change the application that the session uses.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

Page 4/25

-Authentication <System.Management.Automation.Runspaces.AuthenticationMechanism>

Specifies the mechanism that's used to authenticate the user credentials in the command to reconnect to a dis

C	onnected session. The acceptable values for this
	parameter are:
	- Default
	- Basic
	- Credssp
	- Digest
	- Kerberos
	- Negotiate
	- NegotiateWithImplicitCredential
	The default value is Default.
	For more information about the values of this parameter, see AuthenticationMechanism Enumeration
	(/dotnet/api/system.management.automation.runspaces.authenticationmechanism).
	> [!CAUTION] > Credential Security Support Provider (CredSSP) authentication, in which the user credentials are >

passed to a remote computer to be authenticated,

is designed for commands that require > authentication on more than one resource, such as accessing a remote network share. This mechanism > increases the

security risk of the remote operation. If the remote computer is compromised, the > credentials that are passed to it can be used to control the network session.

Required? false

Position? named

Default value Default

Accept pipeline input? False

Accept wildcard characters? false

-CertificateThumbprint <System.String>

Specifies the digital public key certificate (X509) of a user account that has permission to connect to the disconnected session. Enter the certificate thumbprint

of the certificate.

Certificates are used in client certificate-based authentication. Certificates can be mapped only to local user accounts, and don't work with domain accounts.

To get a certificate thumbprint, use a `Get-Item` or `Get-ChildItem` command in the PowerShell `Cert:` drive.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ComputerName <System.String>

Specifies the computer on which the disconnected session is stored. Sessions are stored on the computer that's at the server-side, or receiving end of a

connection. The default is the local computer.

Type the NetBIOS name, an IP address, or a fully qualified domain name (FQDN) of one computer. Wildcard characters aren't permitted. To specify the local

computer, type the computer name, a dot (`.`), `\$env:COMPUTERNAME`, or localhost.

Required? true

Position? 0 Page 6/25

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ConfigurationName <System.String>

Specifies the name of a session configuration. This cmdlet connects only to sessions that use the specified session configuration.

Enter a configuration name or the fully qualified resource URI for a session configuration. If you specify only the configuration name, the following schema URI

is prepended:

`http://schemas.microsoft.com/powershell`.

The configuration name of a session is stored in the ConfigurationName property of the session.

The parameter's value is used to select and filter sessions. It doesn't change the session configuration that the session uses.

For more information about session configurations, see about_Session_Configurations (./About/about_Session_Configurations.md).

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ConnectionUri <System.Uri>

Specifies a URI that defines the connection endpoint that is used to reconnect to the disconnected session.

The URI must be fully qualified. The string's format is as follows:

`<Transport>://<ComputerName>:<Port>/<ApplicationName>`

The default value is as follows:

`http://localhost:5985/WSMAN`

If you don't specify a connection URI, you can use the UseSSL, ComputerName, Port, and ApplicationName parameters to specify the connection URI values.

Valid values for the Transport segment of the URI are HTTP and HTTPS. If you specify a connection URI with a Transport segment, but don't specify a port, the

session is created with standard ports: 80 for HTTP and 443 for HTTPS. To use the default ports for PowerShell remoting, specify port 5985 for HTTP or 5986 for

HTTPS.

If the destination computer redirects the connection to a different URI, PowerShell prevents the redirection unless you use the AllowRedirection parameter in the

command.

Required? true

Position? 0

Default value http://localhost:5985/WSMAN

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Credential <System.Management.Automation.PSCredential>

Specifies a user account that has permission to connect to the disconnected session. The default is the current user.

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

prompted to enter the password.

Credentials are stored in a PSCredential (/dotnet/api/system.management.automation.pscredential)obje

password is stored as a SecureString

(/dotnet/api/system.security.securestring).

> [!NOTE] > For more information about SecureString data protection, see > How secure is SecureString?

(/dotnet/api/system.security.securestring#how-secure-is-securestring).

Required? false

Position? named

Accept pipeline input? False

Accept wildcard characters? false

-Id <System.Int32>

Specifies the ID of a disconnected session. The Id parameter works only when the disconnected session was previously connected to the current session.

This parameter is valid, but not effective, when the session is stored on the local computer, but wasn't connected to the current session.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-InstanceId <System.Guid>

Specifies the instance ID of the disconnected session. The instance ID is a GUID that uniquely identifies a PSSession on a local or remote computer. The instance

ID is stored in the InstanceID property of the PSSession .

Required? true

Position? named

Default value None Page 9/25

Accept pipeline input? False

Accept wildcard characters? false

-JobName <System.String>

Specifies a friendly name for the job that `Receive-PSSession` returns.

`Receive-PSSession` returns a job when the value of the OutTarget parameter is Job or the job that's running in the disconnected session was started in the

current session.

If the job that's running in the disconnected session was started in the current session, PowerShell reuses the original job object in the session and ignores the

value of the JobName parameter.

If the job that's running in the disconnected session was started in a different session, PowerShell creates a new job object. It uses a default name, but you can

use this parameter to change the name.

If the default value or explicit value of the OutTarget parameter isn't Job, the command succeeds, but the JobName parameter has no effect.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Name <System.String>

Specifies the friendly name of the disconnected session.

Required? true

Position? named

Default value None Page 10/25

Accept pipeline input? False

Accept wildcard characters? false

-OutTarget <Microsoft.PowerShell.Commands.OutTarget>

Determines how the session results are returned. The acceptable values for this parameter are:

- Job . Returns the results asynchronously in a job object. You can use the JobName parameter to specify a name or new name for the job. - Host . Returns the

results to the command line (synchronously). If the command is being resumed or the results consist of a large number of objects, the response might be delayed.

The default value of the OutTarget parameter is Host. If the command that's being received in a disconnected session was started in the current session, the

default value of the OutTarget parameter is the form in which the command was started. If the command was started as a job, by default, it's returned as a job.

Otherwise, it's returned to the host program by default.

Typically, the host program displays returned objects at the command line without delay, but this behavior can vary.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Port <System.Int32>

Specifies the remote computer's network port that's used to reconnect to the session. To connect to a remote computer, it must be listening on the port that the

connection uses. The default ports are 5985, which is the WinRM port for HTTP, and 5986, which is the WinRM port for HTTPS.

Before using an alternate port, you must configure the WinRM listener on the remote computer to listen on that port. To

two commands at the PowerShell prompt:

`Remove-Item -Path WSMan:\Localhost\listener\listener* -Recurse`

`New-Item -Path WSMan:\Localhost\listener -Transport http -Address * -Port <port-number>`

Don't use the Port parameter unless it's necessary. The port that's set in the command applies to all computers or sessions on which the command runs. An

alternate port setting might prevent the command from running on all computers.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Session < System. Management. Automation. Runspaces. PSS ession>

Specifies the disconnected session. Enter a variable that contains the PSSession or a command that creates or gets the PSSession, such as a `Get-PSSession`

command.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-SessionOption <System.Management.Automation.Remoting.PSSessionOption>

Specifies advanced options for the session. Enter a SessionOption object, such as one that you create by using the `New-PSSessionOption` cmdlet, or a hash table

in which the keys are session option names and the values are session option values.

The default values for the options are determined by the value of the `\$PSSessionOption` preference vanable 42/12/18/15

set. Otherwise, the default values are

established by options set in the session configuration.

The session option values take precedence over default values for sessions set in the `\$PSSessionOption` preference variable and in the session configuration.

However, they don't take precedence over maximum values, quotas, or limits set in the session configuration.

For a description of the session options that includes the default values, see `New-PSSessionOption`. For information about the \$PSSessionOption preference

variable, see about_Preference_Variables (./About/about_Preference_Variables.md). For more information about session configurations, see

about_Session_Configurations (./About/about_Session_Configurations.md).

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UseSSL <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet uses the Secure Sockets Layer (SSL) protocol to connect to the disconnected session. By default, SSL isn't used.

WS-Management encrypts all PowerShell content transmitted over the network. UseSSL is an additional protection that sends the data across an HTTPS connection

instead of an HTTP connection.

If you use this parameter and SSL isn't available on the port that's used for the command, the command fails.

Required? false

Position? named

Default value False

Accept pipeline input? False Page 13/25

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf <System.Management.Automation.SwitchParameter>

Shows what would happen if the cmdlet runs. The cmdlet isn't run.

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

System.Management.Automation.Runspaces.PSSession

You can pipe session objects to this cmdlet, such as objects returned by the `Get-PSSession` cmdlet.

System.Int32

You can pipe session lds to this cmdlet.

System.Guid You can pipe the instance Ids of sessions this cmdlet. System.String You can pipe session names to this cmdlet. **OUTPUTS** System.Management.Automation.Job If the value or default value of the OutTarget parameter is `Job`, `Receive-PSSession` returns a job object. System.Management.Automation.PSObject This cmdlet returns the results of commands that ran in the disconnected session, if any. **NOTES** Windows PowerShell includes the following aliases for `Receive-PSSession`: - `rcsn`

`Receive-PSSession` gets results only from sessions that were disconnected. Only sessions that are connected to, or terminate at, computers that run PowerShell

3.0 or later versions can be disconnected and reconnected.

If the commands that were running in the disconnected session didn't generate results or if the results were already returned to another session,

`Receive-PSSession` doesn't generate any output.

A session's output buffering mode determines how commands in the session manage output when the session is disconnected. When the value of the OutputBufferingMode

option of the session is Drop and the output buffer is full, the command starts to delete output. `Receive-Passesson'

can't recover this output. For more

information about the output buffering mode option, see the help articles for the New-PSSessionOption (New-PSSessionOption.md)and New-PSTransportOption

(New-PSTransportOption.md)cmdlets.

You can't change the idle time-out value of a PSSession when you connect to the PSSession or receive results. The SessionOption parameter of `Receive-PSSession`

takes a SessionOption object that has an IdleTimeout value. However, the IdleTimeout value of the SessionOption object and the IdleTimeout value of the

`\$PSSessionOption` variable are ignored when it connects to a PSSession or receiving results.

- You can set and change the idle time-out of a PSSession when you create the PSSession , by using the `New-PSSession` or `Invoke-Command` cmdlets, and when you

disconnect from the PSSession . - The IdleTimeout property of a PSSession is critical to disconnected sessions because it determines how long a disconnected

session is maintained on the remote computer. Disconnected sessions are considered to be idle from the moment that they are disconnected, even if commands are

running in the disconnected session.

If you start a start a job in a remote session by using the AsJob parameter of the `Invoke-Command` cmdlet, the job object is created in the current session, even

though the job runs in the remote session. If you disconnect the remote session, the job object in the current session is disconnected from the job. The job

object contains any results that were returned to it, but doesn't receive new results from the job in the disconnected session.

If a different client connects to the session that contains the running job, the results that were delivered to the original job object in the original session

aren't available in the newly connected session. Only results that were not delivered to the original job object are available in the reconnected session.

Similarly, if you start a script in a session and then disconnect from the session, any results that the script delivers to

aren't available to another client that connects to the session.

To prevent data loss in sessions that you intend to disconnect, use the InDisconnectedSession parameter of the `Invoke-Command` cmdlet. Because this parameter

prevents results from being returned to the current session, all results are available when the session is reconnected.

You can also prevent data loss by using the `Invoke-Command` cmdlet to run a `Start-Job` command in the remote session. In this case, the job object is created in

the remote session. You can't use the `Receive-PSSession` cmdlet to get the job results. Instead, use the `Connect-PSSession` cmdlet to connect to the session and

then use the `Invoke-Command` cmdlet to run a `Receive-Job` command in the session.

When a session that contains a running job is disconnected and then reconnected, the original job object is reused only if the job is disconnected and reconnected

to the same session, and the command to reconnect doesn't specify a new job name. If the session is reconnected to a different client session or a new job name is

specified, PowerShell creates a new job object for the new session.

When you disconnect a PSSession, the session state is Disconnected and the availability is None.

- The value of the State property is relative to the current session. A value of Disconnected means that the PSSession isn't connected to the current session.

However, it doesn't mean that the PSSession is disconnected from all sessions. It might be connected to a different session. To determine whether you can

connect or reconnect to the session, use the Availability property. - An Availability value of None indicates that you can connect to the session. A value of Busy

indicates that you can't connect to the PSSession because it's connected to another session. - For more information about the values of the State property of

sessions, see RunspaceState (/dotnet/api/system.management.automation.runspaces.runspacestate). - For more information about the values of the Availability

property of sessions, see RunspaceAvailability

(/dotnet/api/system.management.automation.runspaces.runspaceavailability).

----- Example 1: Connect to a PSSession ------

Receive-PSSession -ComputerName Server01 -Name ITTask

The `Receive-PSSession` specifies the remote computer with the ComputerName parameter. The Name parameter identifies the ITTask session on the Server01 computer. The

example gets the results of commands that were running in the ITTask session.

Because the command doesn't use the OutTarget parameter, the results appear on the command line.

Example 2: Get results of all commands on disconnected sessions

Get-PSSession -ComputerName Server01, Server02 | Receive-PSSession

`Get-PSSession` uses the ComputerName parameter to specify the remote computers. The objects are sent down the pipeline to `Receive-PSSession`.

- Example 3: Get the results of a script running in a session -

```
$parms = @{
 ComputerName = "Server01"
 Name = "ITTask"
 OutTarget = "Job"
 JobName = "ITTaskJob01"
 Credential = "Domain01\Admin01"
}
Receive-PSSession @parms
                         HasMoreData Location
    Name
                State
16
    ITTaskJob01
                  Running
                             True
                                        Server01
```

The command uses the ComputerName and Name parameters to identify the disconnected session. It uses the OutTarget parameter with a value of Job to direct

`Receive-PSSession` to return the results as a job. The JobName parameter specifies a name for the 🕬 🗚 🗛

reconnected session. The Credential parameter runs the

`Receive-PSSession` command using the permissions of a domain administrator.

The output shows that 'Receive-PSSession' returned the results as a job in the current session. To get the job results, use a 'Receive-Job' command ----- Example 4: Get results after a network outage ------PS> \$s = New-PSSession -ComputerName Server01 -Name AD -ConfigurationName ADEndpoint PS> \$s Id Name ComputerName State ConfigurationName Availability ---------Opened **ADEndpoint** Available 8 AD Server01 PS> Invoke-Command -Session \$s -FilePath \Server12\Scripts\SharedScripts\New-ADResolve.ps1 Running "New-ADResolve.ps1" # Network outage # Restart local computer # Network access is not re-established within 4 minutes PS> Get-PSSession -ComputerName Server01 Id Name ComputerName State ConfigurationName Availability 1 Backup Server01 Disconnected Microsoft.PowerShell None

None

Disconnected ADEndpoint

8 AD Server01

Job Id Name State HasMoreData Location
-- ---- ----
16 ADJob Running True Server01

PS> Get-PSSession -ComputerName Server01

The `New-PSSession` cmdlet creates a session on the Server01 computer and saves the session in the `\$s` variable.

The `\$s` variable displays that the State is Opened

and the Availability is Available. These values indicate that you're connected to the session and can run commands in the session.

The `Invoke-Command` cmdlet runs a script in the session in the `\$s` variable. The script begins to run and return data, but a network outage occurs that interrupts

the session. The user has to exit the session and restart the local computer.

When the computer restarts, the user starts PowerShell and runs a `Get-PSSession` command to get sessions on the Server01 computer. The output shows that the AD

session still exists on the Server01 computer. The State indicates that the AD session is disconnected. The Availability value of None, indicates that the session

isn't connected to any client sessions.

The `Receive-PSSession` cmdlet reconnects to the AD session and gets the results of the script that ran in the session.

The command uses the OutTarget parameter to

request the results in a job named ADJob. The command returns a job object and the output indicates that the script is still running.

```
The `Get-PSSession` cmdlet is used to check the job state. The output confirms that the `Receive-PSSession` cmdlet
reconnected to the AD session, which is now open
  and available for commands. And, the script resumed execution and is getting the script results.
  ----- Example 5: Reconnect to disconnected sessions ------
  PS> $parms = @{
     InDisconnectedSession = $True
     ComputerName = "Server01", "Server02", "Server30"
     FilePath = "\\Server12\Scripts\SharedScripts\Get-BugStatus.ps1"
     Name = "BugStatus"
     SessionOption = @{IdleTimeout = 86400000}
     ConfigurationName = "ITTasks"
    }
  PS> Invoke-Command @parms
  PS> Exit
  PS> $s = Get-PSSession -ComputerName Server01, Server02, Server30 -Name BugStatus
  PS> $s
                                      ConfigurationName Availability
  Id Name ComputerName State
  1 ITTask Server01
                        Disconnected ITTasks
                                                          None
  8 ITTask Server02
                        Disconnected ITTasks
                                                          None
  2 ITTask Server30
                        Disconnected ITTasks
                                                          None
  PS> $Results = Receive-PSSession -Session $s
  PS> $s
 Id Name ComputerName State ConfigurationName Availability
```

Available

1 ITTask Server01

Opened

ITTasks

Page 21/25

8 ITTask Server02 Opened ITTasks Available
2 ITTask Server30 Opened ITTasks Available

PS> \$Results

Bug Report - Domain 01

ComputerName BugCount LastUpdated

Server01 121 Friday, December 30, 2011 5:03:34 PM

The `Invoke-Command` cmdlet runs a script on three remote computers. Because the script gathers and summarizes data from multiple databases, it often takes the script

an extended time to finish. The command uses the InDisconnectedSession parameter that starts the scripts and then immediately disconnects the sessions. The

SessionOption parameter extends the IdleTimeout value of the disconnected session. Disconnected sessions are considered idle from the moment they're disconnected.

It's important to set the idle time-out for long enough so that the commands can complete and you can reconnect to the session. You can set the IdleTimeout only when

you create the PSSession and change it only when you disconnect from it. You can't change the IdleTimeout value when you connect to a PSSession or receiving its

results. After running the command, the user exits PowerShell and closes the computer.

The next day, the user resumes Windows, starts PowerShell, and uses `Get-PSSession` to get the sessions in which the scripts were running. The command identifies the

sessions by the computer name, session name, and the name of the session configuration and saves the sessions in the `\$s` variable. The value of the `\$s` variable is

displayed and shows that the sessions are disconnected, but aren't busy.

The `Receive-PSSession` cmdlet connects to the sessions in the `\$s` variable and gets their results. The command saves the results in the `\$Results` variable. The

The script results in the `\$Results` variable are displayed in the PowerShell console. If any of the results are unexpect
the user can run commands in the sessions
to investigate the root cause.

----- Example 6: Running a job in a disconnected session -----

PS> \$s = New-PSSession -ComputerName Server01 -Name Test

PS> \$j = Invoke-Command -Session \$s { 1..1500 | Foreach-Object {"Return \$_"; sleep 30}} -AsJob

PS> \$j

PS> \$s | Disconnect-PSSession

PS> \$j

PS> Receive-Job \$j -Keep

Return 1

Return 2 Page 23/25

PS> \$s2 = Connect-PSSession -ComputerName Server01 -Name Test

PS> \$j2 = Receive-PSSession -ComputerName Server01 -Name Test

PS> Receive-Job \$j

Return 3

Return 4

The `New-PSSession` cmdlet creates the Test session on the Server01 computer. The command saves the session in the `\$s` variable.

The `Invoke-Command` cmdlet runs a command in the session in the `\$s` variable. The command uses the AsJob parameter to run the command as a job and creates the job

object in the current session. The command returns a job object that's saved in the `\$j` variable. The `\$j` variable displays the job object.

The session object in the `\$s` variable is sent down the pipeline to `Disconnect-PSSession` and the session is disconnected.

The `\$j` variable is displayed and shows the effect of disconnecting the job object in the `\$j` variable. The job state is now Disconnected.

The `Receive-Job` is run on the job in the `\$j` variable. The output shows that the job began to return output before the session and the job were disconnected.

The `Connect-PSSession` cmdlet is run in the same client session. The command reconnects to the Test session on the Server01 computer and saves the session in the

`\$s2` variable.

The 'Receive-PSSession' cmdlet gets the results of the job that was running in the session. Because the command is run in the same session, 'Receive-PSSession'

returns the results as a job by default and reuses the same job object. The command saves the job in the \\$\29\alpha and \section \section

The `Receive-Job` cmdlet gets the results of the job in the `\$j` variable.

RELATED LINKS

Online Version:

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about_Remote_Disconnected_Sessions

about_Session_Configurations

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Exit-PSSession

Get-PSSession

Invoke-Command

New-PSSession

New-PSSessionOption

New-PSTransportOption

Remove-PSSession