**Windows PowerShell Redirection OPERATORS**

* Window PowerShell redirection operator use the send particular type of output in a text file

Output are defined in several types such as :

\* All output

1 Success output

2 Errors output

3 Warning message

4 Verbose output

5 Debug message

* The **syntax** of the redirection operators is as follows:

<input> <operator> [<path>\]<file>

* If the specified file already exists, the redirection operators that do not append data (> and n>) overwrite the current contents of the file without warning.

**Note :** The All (\*) , Warning (3) , Verbose (4) , Debug (5) redirection operator were introduced in windows PowerShell version 3.0 they are not used in earlier version of PowerShell

* Windows PowerShell Redirection Operator are as follows

|  |  |  |
| --- | --- | --- |
| Operator | Description | Example |
| > | Send output to the specified file | Get-Process > process.txt |
| >> | Append output from the specified file | Get-Content first.txt > output.txt |
| 2> | Send error to the specified file | Get-Process none 2> error.txt |
| 2>> | Append error content to the specified file | Get-Process none 2> append-error.txt |
| 2>&1 | Sends errors (2) and success output (1) to the success output stream. | Get-Process none, Powershell 2>&1 |
| 3> | Send warning message to the specified file | Write-Warning “Test!” 3> warning.txt |
| 3>> | Append warning message to the specified file | Write-Warning “Test!” 3>> warning.txt |
| 3>&1 | Sends warning (3) and success output (1) to the success output stream. | function Test\_Warning{  Get-Process powershell;  Write-Warning “Test!” }  Test\_Warning 3>&1 |
| 4> | Send verbose to the specified file | Import-Module \* -Verbose 4> Verbose.txt |
| 4>> | Append verbose content to the specified file | Import-Module \* -Verbose 4>> Verbose.txt |
| 4>&1 | Sends verbose (4) and success output (1) to the success output stream. | Import-Module \* -Verbose 4>&2 |
| 5> | Send debug message to the specified file | Write-Debug “Test!” 3> warning.txt |
| 5>> | Append debug message to the specified file | Write- Debug “Test!” 3>> warning.txt |
| 5>&1 | Sends debug message (5) and success output (1) to the success output stream. | function Test\_Debug{  Get-Process powershell  Write- Debug “Test!” }  Test\_ Debug 5>&1 |

* For the All(\*) operator first create the **function** of the Test-Output

function Test-Output

{

Get-Process powershell , none

Write-Warning “Test!”

Write-Verbose “Test Verbose”

Write-Debug “Test Debug”

}

|  |  |  |
| --- | --- | --- |
| Operator | Description | Example |
| \*> | Send all output to the specified file | Test-Output \*> test-output.exe |
| \*>> | Append all output content to the specified file | Test-Output \*>> test-output.exe |
| \*>&1 | Send all output (2) and success output (1) to the success output stream. | Test-Output \*>&1 |