



Windows PowerShell Get-Help on Cmdlet 'Invoke-AzOperationalInsightsQuery'

PS:\>Get-HELP Invoke-AzOperationalInsightsQuery -Full

NAME

Invoke-AzOperationalInsightsQuery

SYNOPSIS

Returns search results based on the specified parameters.

SYNTAX

```

Invoke-AzOperationalInsightsQuery [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-IncludeRender] [-IncludeStatistics] -Query <System.String> [-Timespan <System.Nullable`1[System.TimeSpan]>] [-Wait
<System.Nullable`1[System.Int32]>] -Workspace
<Microsoft.Azure.Commands.OperationalInsights.Models.PSWorkspace> [<CommonParameters>]

```

```

Invoke-AzOperationalInsightsQuery [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-IncludeRender] [-IncludeStatistics] -Query <System.String> [-Timespan <System.Nullable`1[System.TimeSpan]>] [-Wait
<System.Nullable`1[System.Int32]>] -WorkspaceId
<System.String> [<CommonParameters>]

```

DESCRIPTION

The Invoke-AzOperationalInsightsQuery cmdlet returns the search results based on the specified parameters. You can access the status of the search in the Metadata

property of the returned object. If the status is Pending, then the search has not completed, and the results will be from the archive. You can retrieve the results

of the search from the Value property of the returned object. Please check detail of general query limits here:

<https://learn.microsoft.com/azure/azure-monitor/service-limits#log-queries-and-language>.

Note: try setting ``-Wait`` to a larger value if you experience the error 'The request was canceled due to the configured HttpClient.Timeout of 100 seconds elapsing'.

PARAMETERS

`-AsJob <System.Management.Automation.SwitchParameter>`

Run cmdlet in the background

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

`-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>`

The credentials, account, tenant, and subscription used for communication with azure.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

`-IncludeRender <System.Management.Automation.SwitchParameter>`

If specified, rendering information for metric queries will be included in the response.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-IncludeStatistics <System.Management.Automation.SwitchParameter>

If specified, query statistics will be included in the response.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-Query <System.String>

The query to execute.

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

-Timespan <System.Nullable`1[System.TimeSpan]>

The timespan to bound the query by.

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

Accept wildcard characters? false

-Wait <System.Nullable`1[System.Int32]>

Puts an upper bound on the amount of time the server will spend processing the query. See: <https://learn.microsoft.com/azure/azure-monitor/logs/api/timeouts>

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Workspace <Microsoft.Azure.Commands.OperationalInsights.Models.PSWorkspace>

The workspace

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-WorkspaceId <System.String>

The workspace ID.

Required? true

Position? named

Default value None

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

Microsoft.Azure.Commands.Operationallnsights.Models.PSWorkspace

OUTPUTS

Microsoft.Azure.Commands.Operationallnsights.Models.PSQueryResponse

NOTES

----- Example 1: Get search results using a query -----

```
$query = "union * | take 10"
```

```
$queryResults = Invoke-AzOperationalInsightsQuery -WorkspaceId "63613592-b6f7-4c3d-a390-22ba13102111" -Query  
$query  
$queryResults.Results
```

Once invoked, \$queryResults.Results will contain all of the resulting rows from your query.

-- Example 2: Convert \$results.Result IEnumerable to an array --

```
$query = "union * | take 10"  
$queryResults = Invoke-AzOperationalInsightsQuery -WorkspaceId "63613592-b6f7-4c3d-a390-22ba13102111" -Query  
$query
```

```
$resultsArray = [System.Linq.Enumerable]::ToArray($queryResults.Results)
```

Some queries can result in very large data sets being returned. Because of this, the default behavior of the cmdlet is to return an IEnumerable to reduce memory

costs. If you'd prefer to have an array of results, you can use the LINQ Enumerable.ToArray() extension method to convert the IEnumerable to an array.

Example 3: Get search results using a query over a specific timeframe

```
$query = "union * | take 10"
```

```
$queryResults = Invoke-AzOperationalInsightsQuery -WorkspaceId "63613592-b6f7-4c3d-a390-22ba13102111" -Query  
$query -Timespan (New-TimeSpan -Hours 24)  
$queryResults.Results
```

The results from this query will be limited to the past 24 hours.

---- Example 4: Include render & statistics in query result ----

```
$query = "union * | take 10"
```

```
$queryResults = Invoke-AzOperationalInsightsQuery -WorkspaceId "63613592-b6f7-4c3d-a390-22ba13102111" -Query  
$query -IncludeRender -IncludeStatistics  
$queryResults.Results  
  
$queryResults.Render  
  
$queryResults.Statistics
```

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.operationalinsights/invoke-azoperationalinsightsquery>