

Power BI Integration

USER GUIDE

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Contents

[1. Introduction 1](#_Toc20919692)

[2. Solution Overview 1](#_Toc20919693)

[3. Pre-Requisites and Environment Configuration 1](#_Toc20919694)

[3.1. Zoho Sheet Access 1](#_Toc20919695)

[3.2. Blue Prism Configuration 1](#_Toc20919696)

[4. Using the Skill 1](#_Toc20919697)

[4.1. Get Access Token 1](#_Toc20919698)

[4.2. Refresh Access Token 1](#_Toc20919699)

[4.3. Create Workbook 1](#_Toc20919700)

[4.4. Create Workbook from template 1](#_Toc20919701)

[4.5. Copy Workbook 1](#_Toc20919702)

[4.6. Create Worksheet 1](#_Toc20919703)

[4.7. Copy Worksheet 1](#_Toc20919704)

[4.8. Create named range 1](#_Toc20919705)

[4.9. List all workbooks 1](#_Toc20919706)

[4.10. List all templates 1](#_Toc20919707)

[4.11. Download workbook 1](#_Toc20919708)

[4.12. List all worksheets 1](#_Toc20919709)

[4.13. List all named ranges 1](#_Toc20919710)

[4.14. Get content of a cell 1](#_Toc20919711)

[4.15. Get content of a range 1](#_Toc20919712)

[4.16. Get content of a named range 1](#_Toc20919713)

[4.17. Get content of a worksheet 1](#_Toc20919714)

[4.18. Get used area 1](#_Toc20919715)

[4.19. Find 1](#_Toc20919716)

[4.20. Set content to a cell 1](#_Toc20919717)

[4.21. Set content to a row 1](#_Toc20919718)

[4.22. Set content to a range 1](#_Toc20919719)

[4.23. Set note to a cell 1](#_Toc20919720)

[4.24. Append rows with data 1](#_Toc20919721)

[4.25. Append rows with JSON data 1](#_Toc20919722)

[4.26. Update rows with JSON data 1](#_Toc20919723)

[4.27. Insert row 1](#_Toc20919724)

[4.28. Insert column 1](#_Toc20919725)

[4.29. Update a named range 1](#_Toc20919726)

[4.30. Find and replace content 1](#_Toc20919727)

[4.31. Rename a worksheet 1](#_Toc20919728)

[4.32. Format Ranges 1](#_Toc20919729)

[4.33. Clear contents of a range 1](#_Toc20919730)

[4.34. Clear contents of a range 1](#_Toc20919731)

[4.35. Clear a range 1](#_Toc20919732)

[4.36. Delete row 1](#_Toc20919733)

[4.37. Delete column 1](#_Toc20919734)

[4.38. Delete named range 1](#_Toc20919735)

[4.39. Delete worksheet 1](#_Toc20919736)

[4.40. Fetch records from a worksheet 1](#_Toc20919737)

[4.41. Update records in a worksheet 1](#_Toc20919738)

[4.42. Delete records from a worksheet 1](#_Toc20919739)

[5. Support 1](#_Toc20919740)

# Introduction

Power BI is a business analytics service by Microsoft. It aims to provide interactive visualizations and business intelligence capabilities with an interface simple enough for end users to create their own reports and dashboards.

# Solution Overview

This skill wraps a subset of the REST endpoints available on the Power BI Service REST interface. Additional endpoints are available on the service and may be added to this skill in the future.

# Pre-Requisites and Environment Configuration

## Power BI Service Access

Use of this skill requires access to your organization Power BI Service. Furthermore, you will require to register the Power BI application in your Azure AD before you start using these REST interfaces.

1. Follow the instructions at <https://docs.microsoft.com/power-bi/developer/register-app> to register Power BI in your Azure AD app registration.

# 

# Using the Skill

Below are the available actions in the skill and the details of the inputs/outputs that are available.

## GROUP - Get Groups

Returns a list of workspaces the user has access to.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| filter | Text | **Optional** - Filters the results, based on a boolean condition with odata query. |
| top | Text | **Optional** - Returns only the first "n" results. |
| skip | Text | **Optional** - Skips the first "n" results. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |
| Groups | Collection | Data collection of the group. |

## GROUP - Get Group Users

Returns a list of users that have access to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |
| Group Users | Collection | Data collection of the group users. |

## GROUP - Create Group

Creates new workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| name | Text | **Required -** The name of the newly created group. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## GROUP - Delete Group

Deletes the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required –** The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## GROUP - Add Group User (Azure AD)

Grants the specified user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required –** The workspace id. |
| group access right | Text | **Required -** Access rights user has for the workspace. |
| user email | Text | **Required -** Email address of the user. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## GROUP - Add Group User (Service Principal)

Grants the specified user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required –** The workspace id. |
| group access right | Text | **Required -** Access rights user has for the workspace. |
| identifier | Text | **Required -** Identifier of the principal. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## GROUP - Delete User In Group

Deletes the specified user permissions from the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required –** The workspace id. |
| user | Text | **Required -** The email address of the user or the service principal object id to delete. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## GROUP - Update Group User (Azure AD)

Update the specified user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |
| group access right | Text | **Required** - Access rights user has for the workspace. |
| user email | Text | **Required** - Email address of the user. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## GROUP - Update Group User (Service Principal)

Update the specified user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |
| group access right | Text | **Required** - Access rights user has for the workspace. |
| identifier | Text | **Required** - Identifier of the principal. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## USERS - Refresh User Permissions

Refreshes user permissions in Power BI.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Datasets GetDatasetsAsAdmin

Returns a list of datasets for the organization.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| filter | Text | **Required** – Filters the results, based on a boolean condition. |
| top | Text | **Required** - Returns only the first n results. |
| skip | Text | **Required** - Skips the first n results. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Datasets GetDatasetsInGroupAsAdmin

Returns a list of datasets from the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| filter | Text | **Required** – Filters the results, based on a boolean condition. |
| top | Text | **Required** - Returns only the first n results. |
| skip | Text | **Required** - Skips the first n results. |
| group id | Text | **Required** – The workspace id. |
| expand | Text | **Required -** Expands related entities inline. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Datasets GetDatasourcesAsAdmin

Returns a list of datasources for the specified dataset.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| dataset id | Text | **Required** – The dataset id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Groups AddUserAsAdmin (Azure AD)

Grants user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |
| user email | Text | **Required -** Email address of the user. |
| group access right | Text | **Required -** Access rights user has for the workspace. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Groups AddUserAsAdmin (Service Principal)

Grants user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |
| identifier | Text | **Required -** Identifier of the principal. |
| group access right | Text | **Required -** Access rights user has for the workspace. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Groups DeleteUserAsAdmin

Removes user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |
| user | Text | **Required -** The user principal name (UPN) of the user to remove (usually the user's email or service principal identifier). |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Groups GetGroupsAsAdmin

Removes user permissions to the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| filter | Text | **Optional** – Filters the results based on a boolean condition. |
| top | Text | **Optional -** Returns only the first n results. This parameter is mandatory and must be in the range of 1-5000. |
| skip | Text | **Optional** - Skips the first n results. Use with top to fetch results beyond the first 5000. |
| expand | Text | **Optional** - Expands related entities inline, receives a comma-separated list of data types. Supported: users, reports, dashboards, datasets, dataflows |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Groups RestoreDeletedGroupAsAdmin

Restores a deleted workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required –** The workspace id. |
| name | Text | **Required -** The name of the group to be restored. |
| email | Text | **Required** - The email address of the owner of the group to be restored. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## ADMIN - Groups UpdateGroupAsAdmin

Updates the specified workspace properties.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |
| name | Text | **Required -** The group name. |
| description | Text | **Required** - The group description. Available only for admin API calls. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Reports

Returns a list of reports from "My Workspace".

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Reports In Group

Returns a list of reports from the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| group id | Text | **Required** – The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Report

Returns the specified report from "My Workspace".

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Report In Group

Returns the specified report from the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| group id | Text | **Required –** The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Clone Report

Clones the specified report from "My Workspace".

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| name | Text | **Required –** The new report name. |
| target workspace id | Text | **Optional -** parameter for specifying the target workspace id |
| target model id | Text | **Optional -** parameter for specifying the target associated dataset id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Clone Report In Group

Clones the specified report from the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| group id | Text | **Required –** The workspace id. |
| name | Text | **Required –** The new report name. |
| target workspace id | Text | **Optional -** parameter for specifying the target workspace id |
| target model id | Text | **Optional -** parameter for specifying the target associated dataset id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Delete Report

Deletes the specified report from "My Workspace"..

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Delete Report In Group

Deletes the specified report from the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| group id | Text | **Required –** The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Export Report

Exports the specified report from "My Workspace" to a .pbix file.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Export Report In Group

Exports the specified report from the specified workspace to a .pbix file.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| group id | Text | **Required –** The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Pages

Returns a list of pages within the specified report from "My Workspace".

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Pages In Group

Returns a list of pages within the specified report from the specified workspace.

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| group id | Text | **Required –** The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Page

Returns the specified page within the specified report from "My Workspace".

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| report page | Text | **Required –** The page name. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

## REPORT - Get Page In Group

Returns the specified page within the specified report from the specified workspace..

### Inputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| report id | Text | **Required** – The report id. |
| report page | Text | **Required –** The page name. |
| group id | Text | **Required –** The workspace id. |

### Outputs

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Response\_Content | Text | A JSON value containing response information related to the request. |
| HTTP Status Code | Text | HTTP Status code returned in response. |
| Response Headers | Collection | Collection of headers data returned in response. |

# Support

Support for this skill is provided via the Blue Prism Digital Exchange Community Forum. Post your questions here:

[Digital Exchange Community Forum](https://community.blueprism.com/communities/community-home?communitykey=1e516cfe-4d1f-4de9-a9eb-58d15bf38c81&tab=groupdetails)